

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW081318\  
 Data File : VW004632.D  
 Acq On : 11 Aug 2018 08:00  
 Operator : SY/AP  
 Sample : J4272-05RE  
 Misc : 6.66G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 JC-03-080918-CRE

Quant Time: Aug 13 00:50:27 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 08:22:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 637960   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 1110826  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 855855   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 307552   | 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   | 332832   | 47.13 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.26% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 319695   | 43.16 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.32% |          |
| 50) Toluene-d8              | 10.33 | 98   | 815378   | 28.88 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 57.76% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 296796   | 29.18 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 58.36% |          |

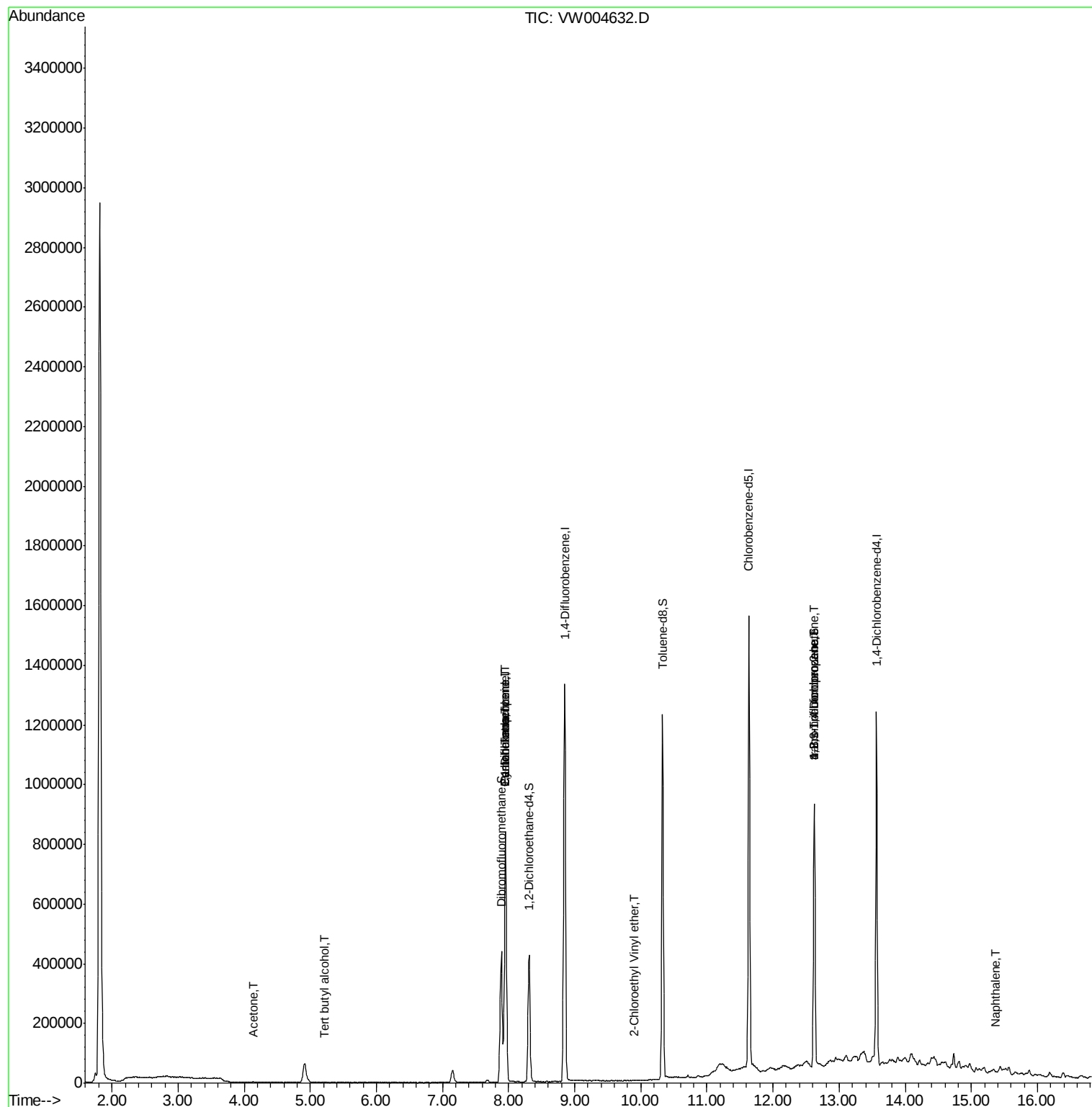
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.21  | 59   | 465      | 1.125     | ug/l # | 85     |
| 16) Acetone                    | 4.14  | 43   | 2914     | 1.652     | ug/l   | 93     |
| 20) Methylene Chloride         | 4.92  | 84   | 57374    | Below Cal |        | 96     |
| 31) Cyclohexane                | 7.95  | 56   | 13295    | 1.005     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 49106    | 4.106     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 60149    | 5.589     | ug/l # | 18     |
| 58) 2-Chloroethyl Vinyl ether  | 9.90  | 63   | 36       | 8.953     | ug/l # | 48     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 143590   | 45.119    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 143590   | 108.009   | ug/l # | 13     |
| 95) Naphthalene                | 15.37 | 128  | 2097     | 3.058     | ug/l # | 69     |

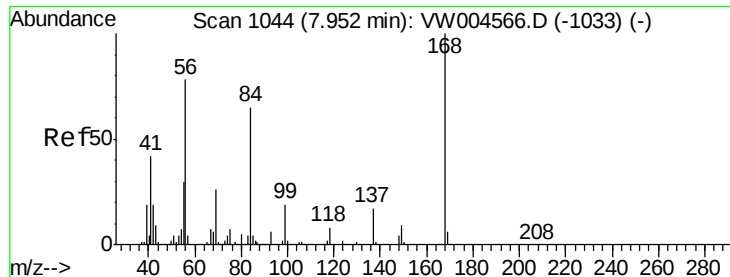
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Aug 07 08:22:01 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: VW004632.D

Acq: 11 Aug 2018 08:00

Instrument :

MSVOA\_W

ClientSampleId :

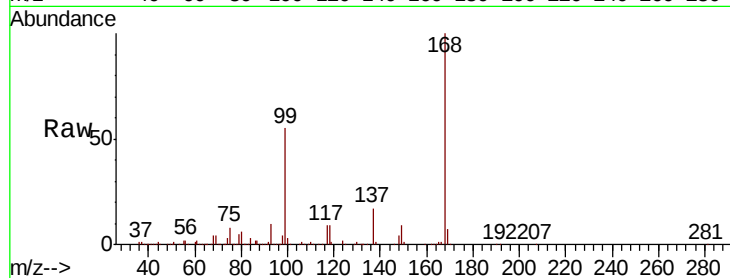
JC-03-080918-CRE

Tgt Ion:168 Resp: 637960

Ion Ratio Lower Upper

168 100

99 54.7 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

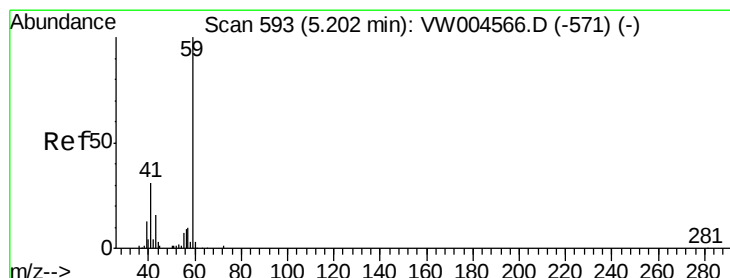
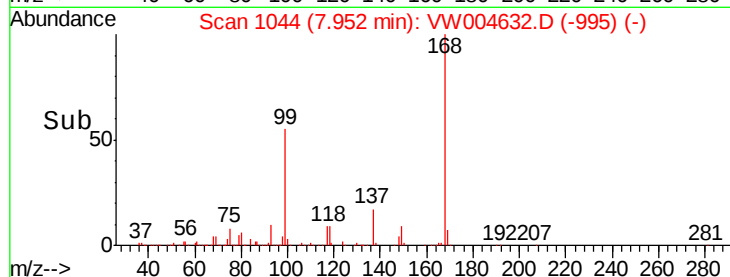
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.125 ug/l

RT: 5.21 min Scan# 595

Delta R.T. 0.00 min

Lab File: VW004632.D

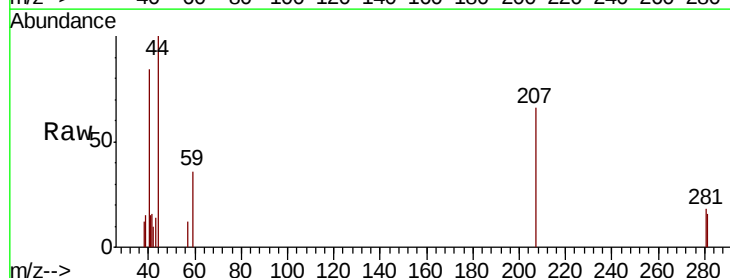
Acq: 11 Aug 2018 08:00

Tgt Ion: 59 Resp: 465

Ion Ratio Lower Upper

59 100

57 5.6 9.1 13.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

250

200

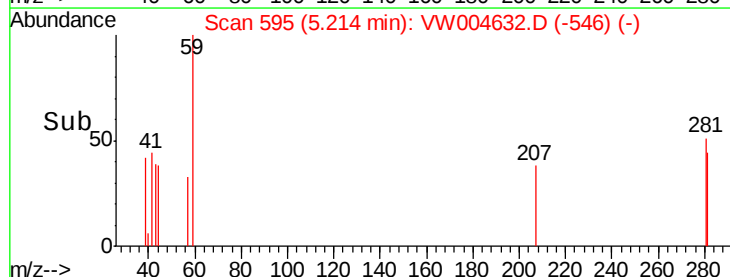
150

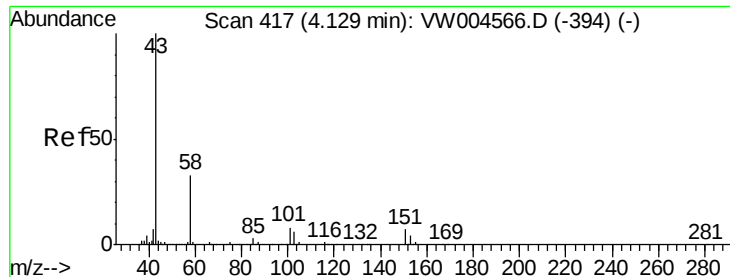
100

50

0

Time-->

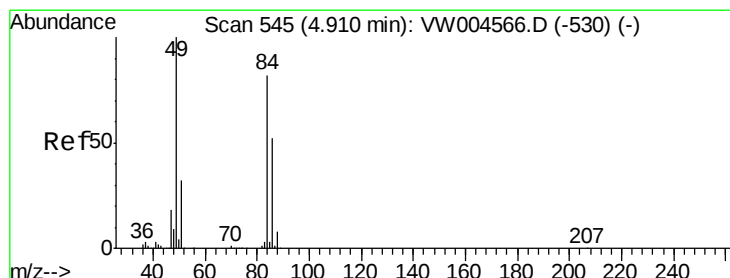
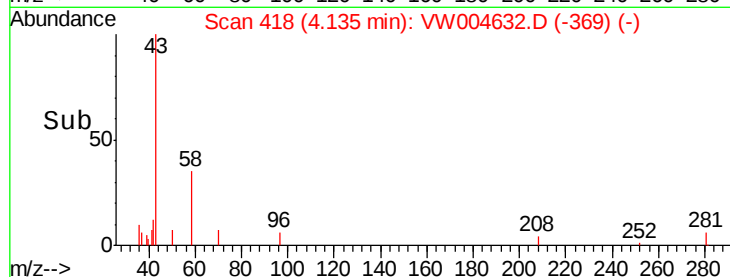
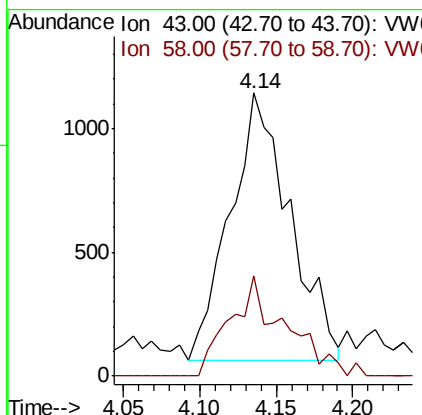
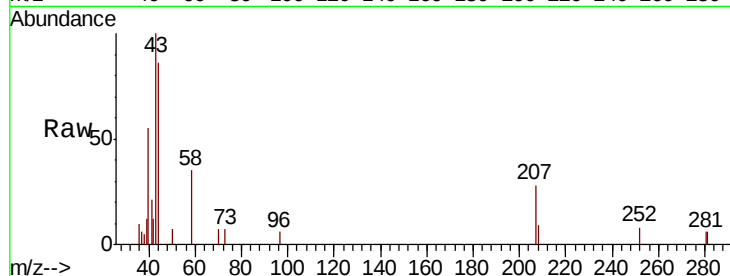




#16  
Acetone  
Concen: 1.652 ug/l  
RT: 4.14 min Scan# 418  
Delta R.T. 0.00 min  
Lab File: VW004632.D  
Acq: 11 Aug 2018 08:00

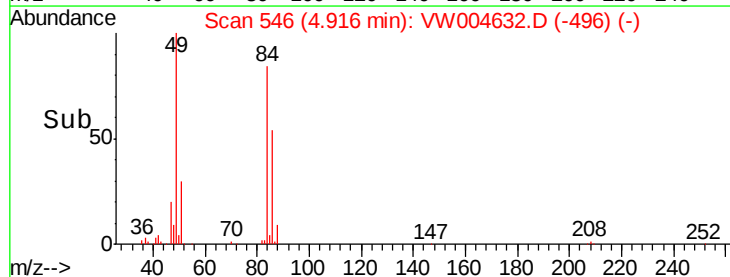
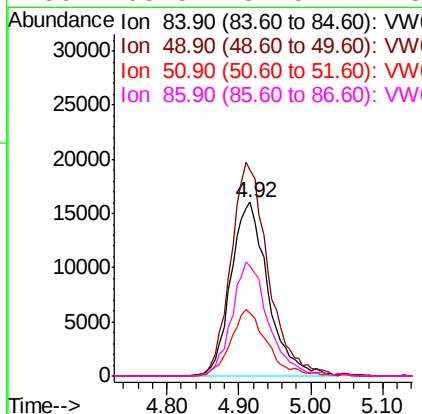
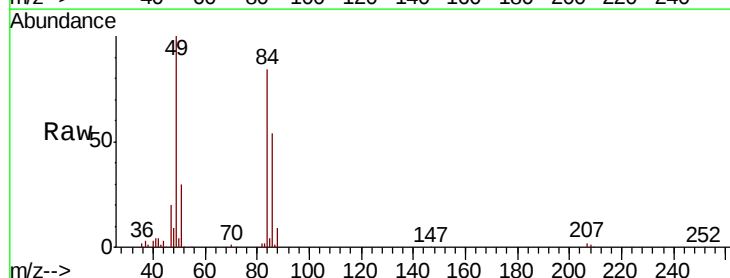
Instrument :  
MSVOA\_W  
ClientSampleId :  
JC-03-080918-CRE

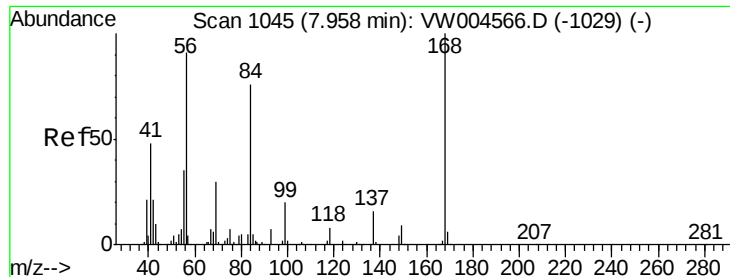
Tgt Ion: 43 Resp: 2914  
Ion Ratio Lower Upper  
43 100  
58 37.5 26.8 40.2



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.92 min Scan# 546  
Delta R.T. 0.01 min  
Lab File: VW004632.D  
Acq: 11 Aug 2018 08:00

Tgt Ion: 84 Resp: 57374  
Ion Ratio Lower Upper  
84 100  
49 118.5 99.6 149.4  
51 36.0 31.0 46.4  
86 63.5 51.5 77.3

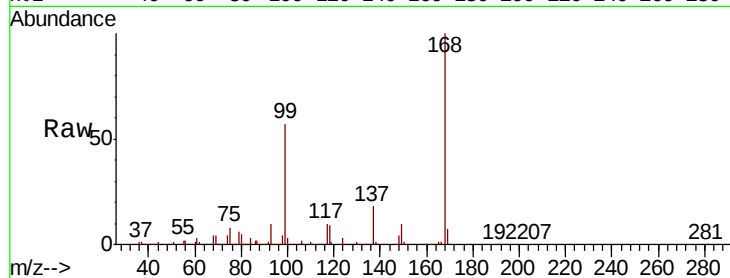




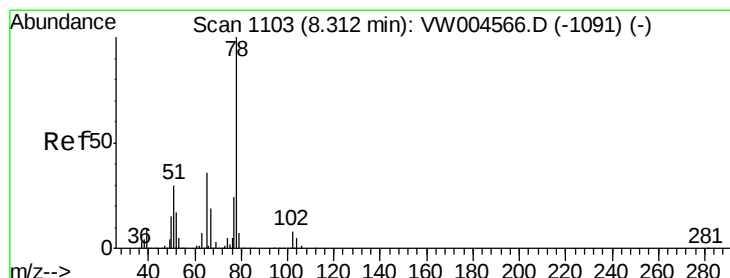
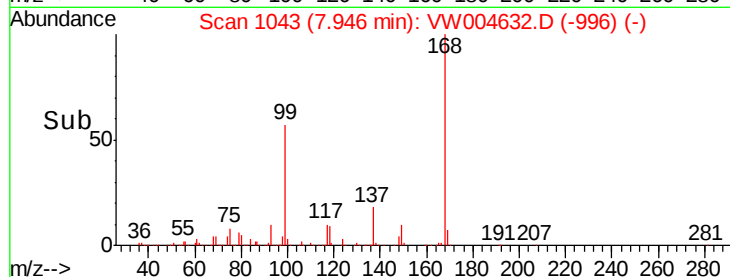
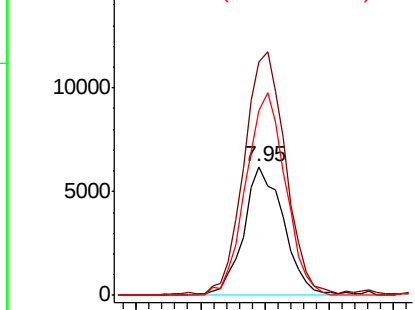
#31  
Cyclohexane  
Concen: 1.005 ug/l  
RT: 7.95 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: VW004632.D  
Acq: 11 Aug 2018 08:00

Instrument :  
MSVOA\_W  
ClientSampleId :  
JC-03-080918-CRE

Tgt Ion: 56 Resp: 13295  
Ion Ratio Lower Upper  
56 100  
69 180.0 26.4 39.6#  
84 143.1 66.9 100.3#

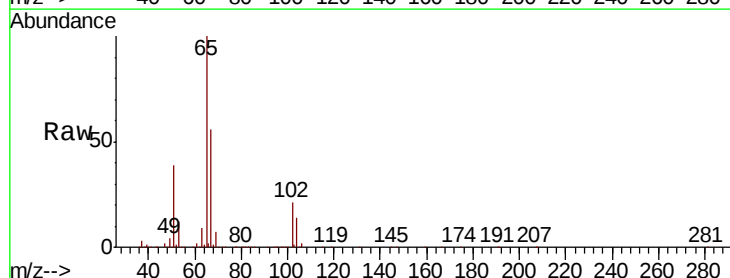


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

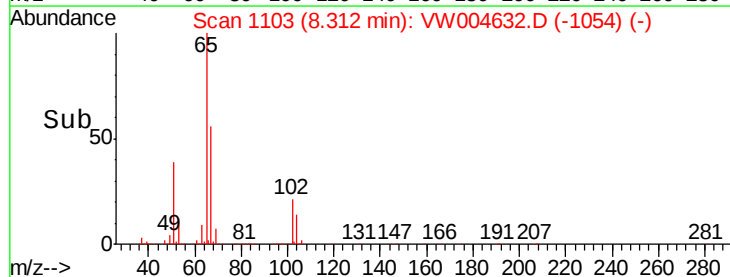
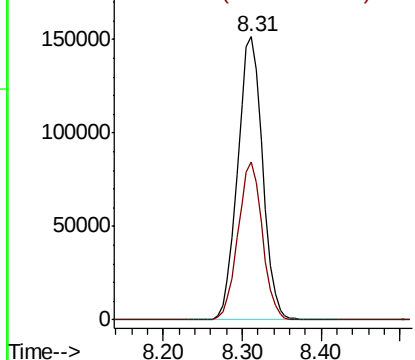


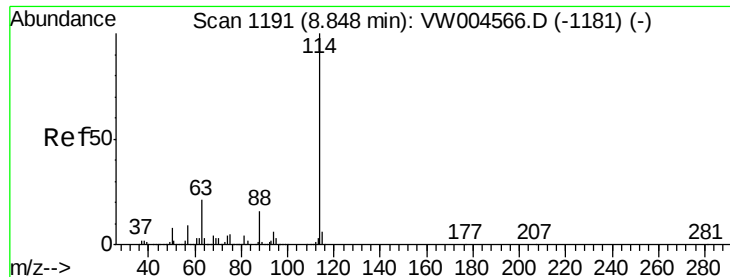
#33  
1,2-Dichloroethane-d4  
Concen: 47.130 ug/l  
RT: 8.31 min Scan# 1103  
Delta R.T. 0.00 min  
Lab File: VW004632.D  
Acq: 11 Aug 2018 08:00

Tgt Ion: 65 Resp: 332832  
Ion Ratio Lower Upper  
65 100  
67 54.6 0.0 109.0



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

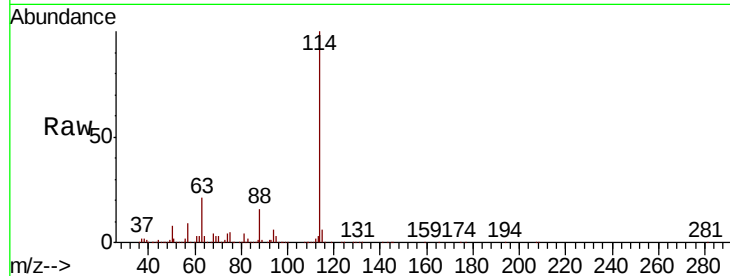




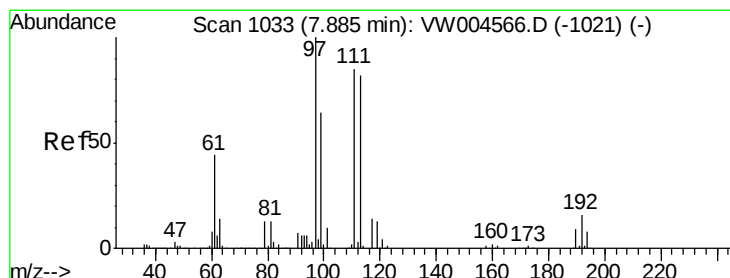
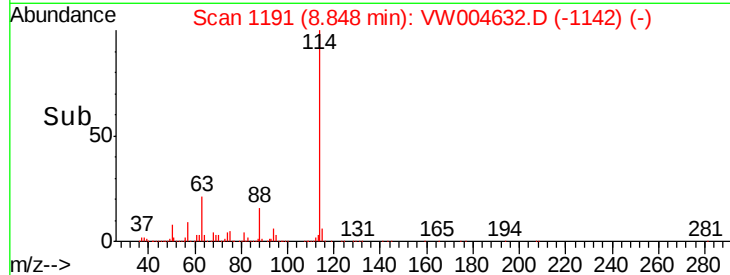
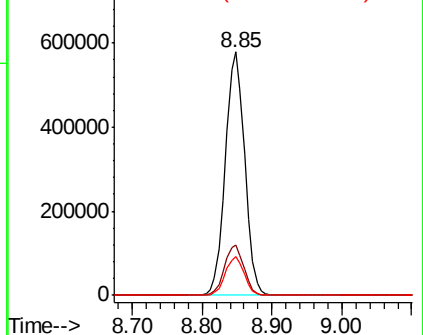
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW004632.D  
 Acq: 11 Aug 2018 08:00

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 JC-03-080918-CRE

Tgt Ion:114 Resp: 1110826  
 Ion Ratio Lower Upper  
 114 100  
 63 20.9 0.0 42.4  
 88 15.8 0.0 31.2

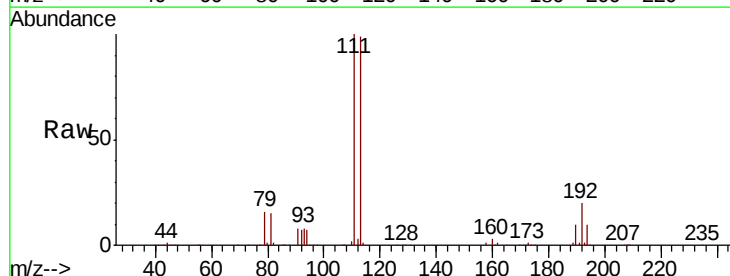


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

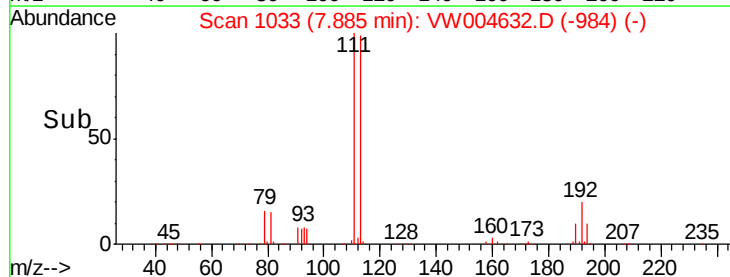
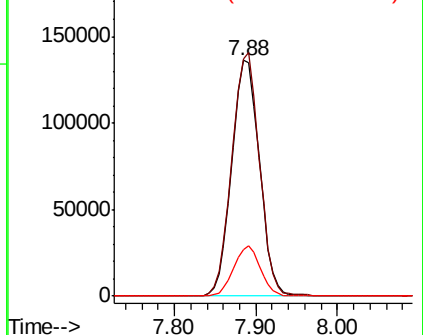


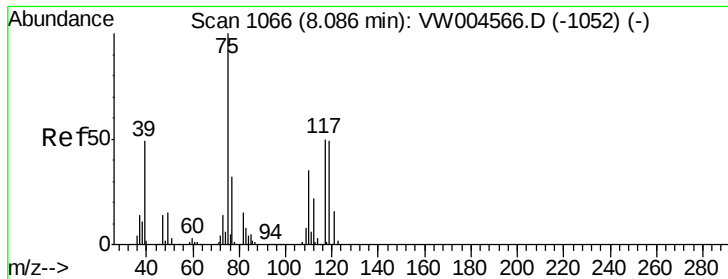
#35  
 Dibromofluoromethane  
 Concen: 43.163 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. 0.00 min  
 Lab File: VW004632.D  
 Acq: 11 Aug 2018 08:00

Tgt Ion:113 Resp: 319695  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 82.9 124.3  
 192 20.4 15.8 23.6



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: 4.106 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW004632.D

Acq: 11 Aug 2018 08:00

Instrument :

MSVOA\_W

ClientSampleId :

JC-03-080918-CRE

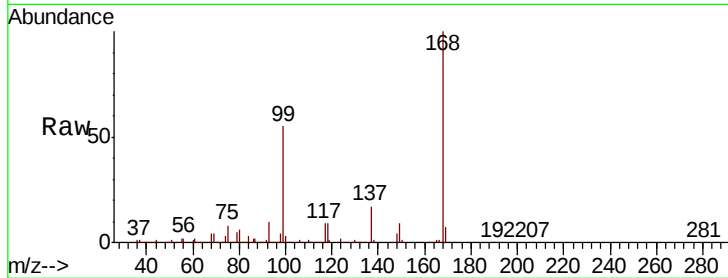
Tgt Ion: 75 Resp: 49106

Ion Ratio Lower Upper

75 100

110 8.4 17.4 52.2#

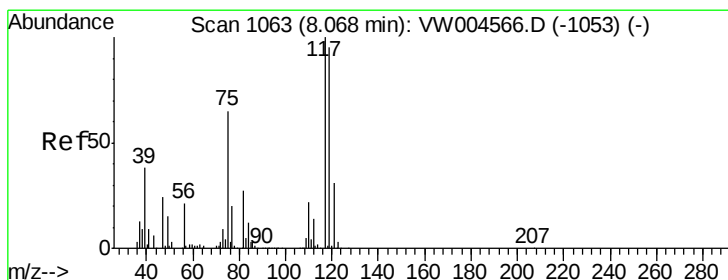
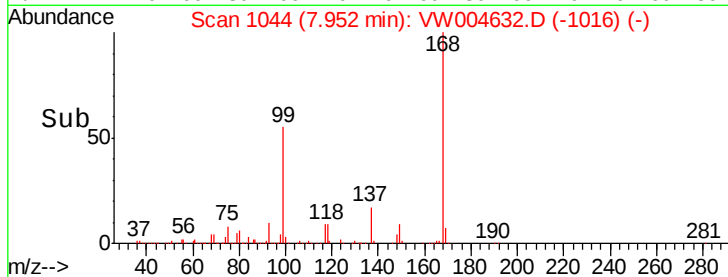
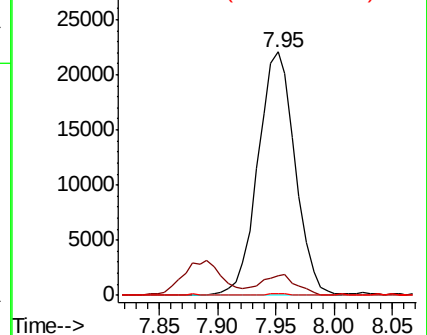
77 0.6 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW



#38

Carbon Tetrachloride

Concen: 5.589 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW004632.D

Acq: 11 Aug 2018 08:00

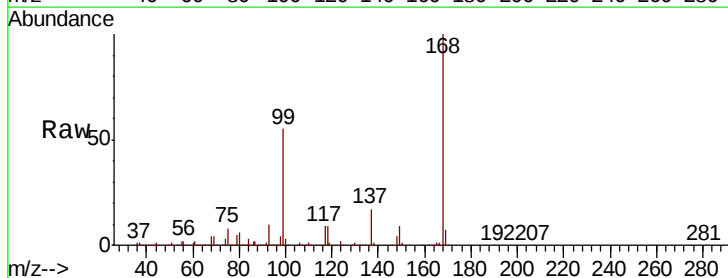
Tgt Ion: 117 Resp: 60149

Ion Ratio Lower Upper

117 100

119 6.7 76.1 114.1#

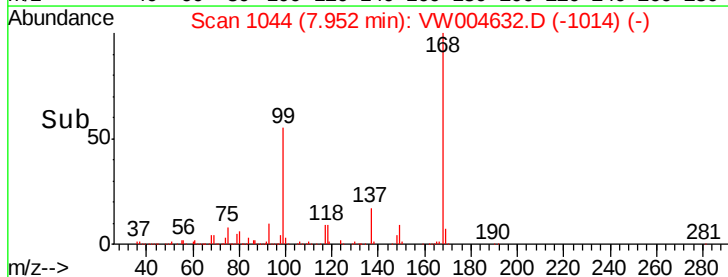
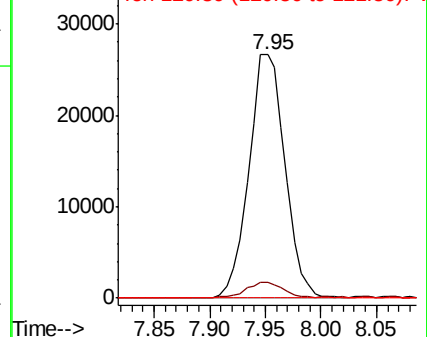
121 0.0 24.2 36.4#

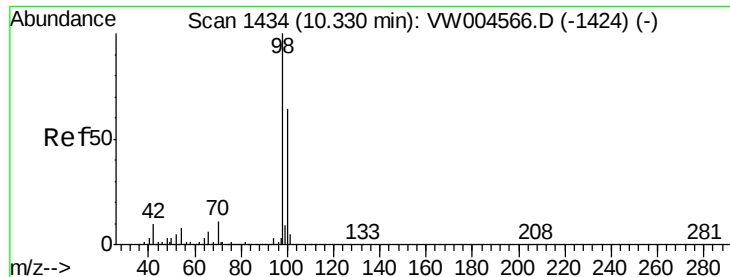


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 28.876 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW004632.D

Acq: 11 Aug 2018 08:00

Instrument :

MSVOA\_W

ClientSampleId :

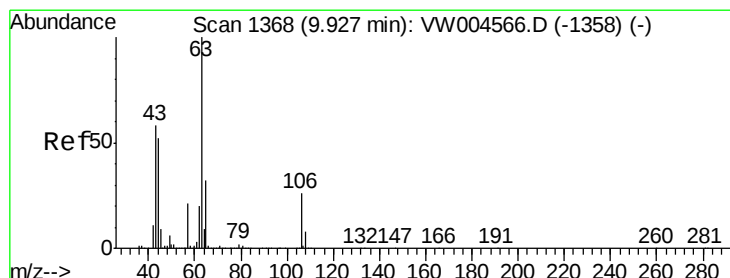
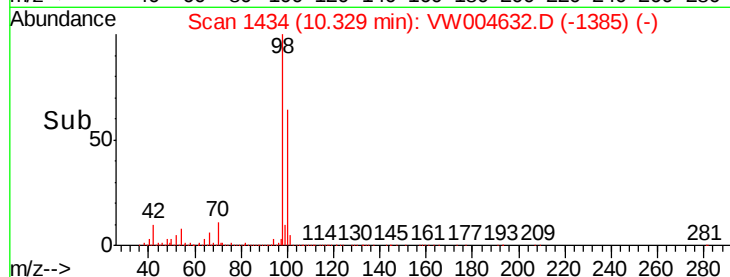
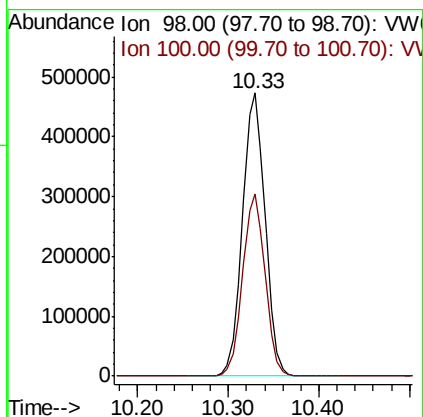
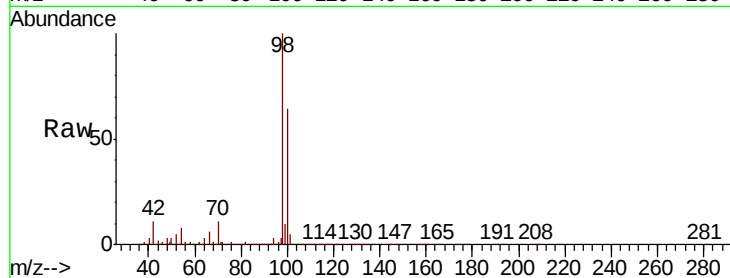
JC-03-080918-CRE

Tgt Ion: 98 Resp: 815378

Ion Ratio Lower Upper

98 100

100 63.9 51.4 77.2



#58

2-Chloroethyl Vinyl ether

Concen: 8.953 ug/l

RT: 9.90 min Scan# 1364

Delta R.T. -0.02 min

Lab File: VW004632.D

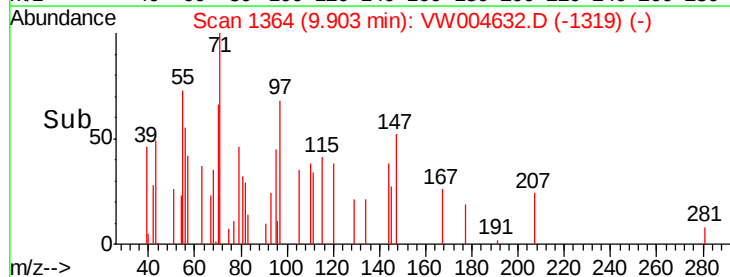
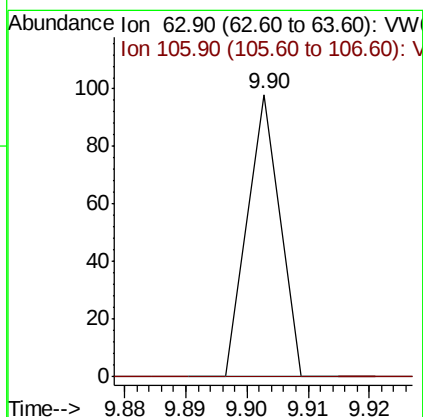
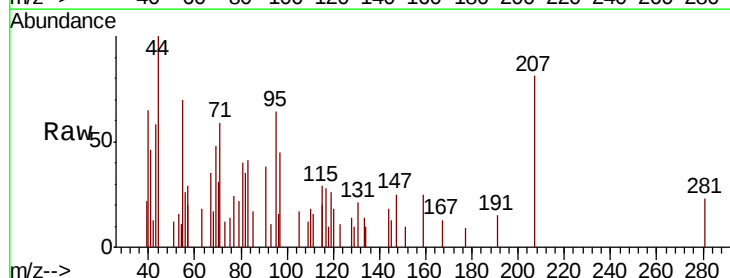
Acq: 11 Aug 2018 08:00

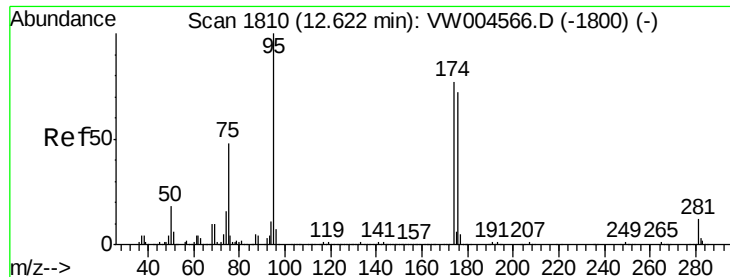
Tgt Ion: 63 Resp: 36

Ion Ratio Lower Upper

63 100

106 0.0 21.3 31.9#

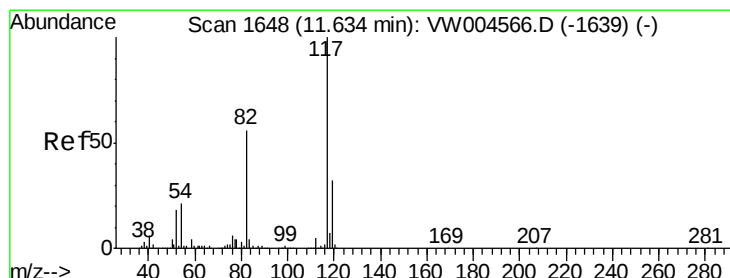
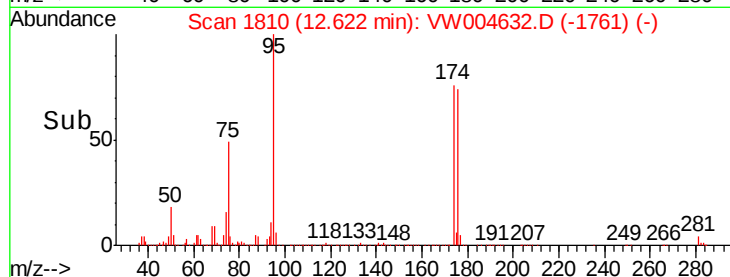
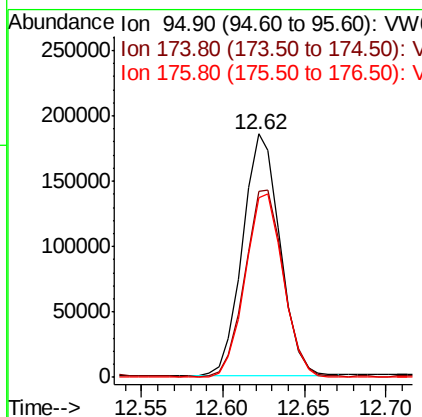
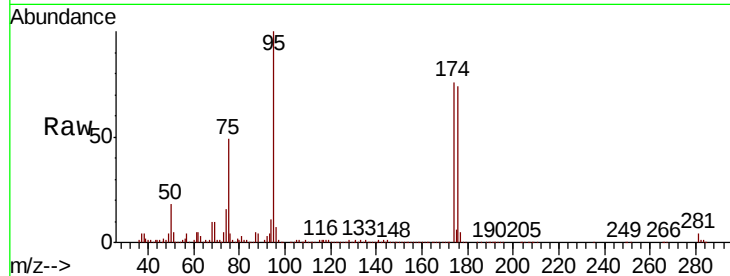




#62  
4-Bromofluorobenzene  
Concen: 29.179 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. 0.00 min  
Lab File: VW004632.D  
Acq: 11 Aug 2018 08:00

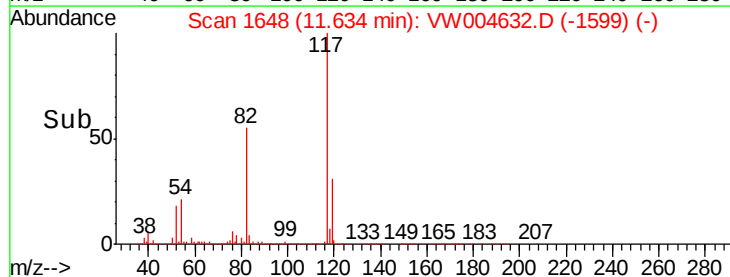
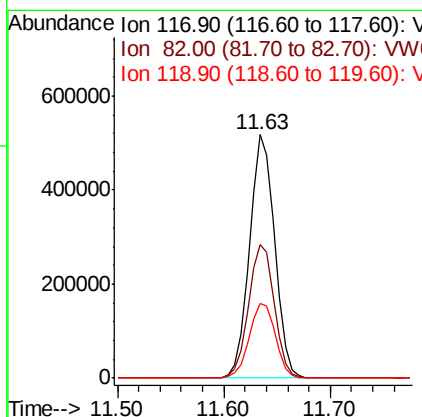
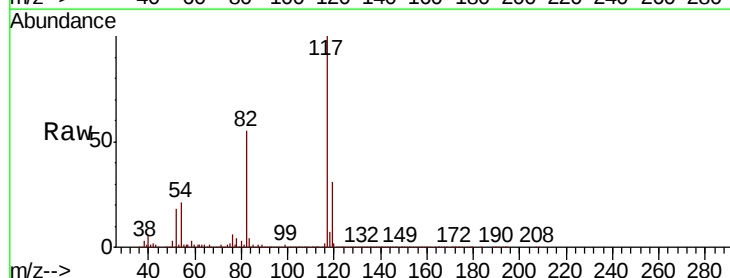
Instrument :  
MSVOA\_W  
ClientSampleId :  
JC-03-080918-CRE

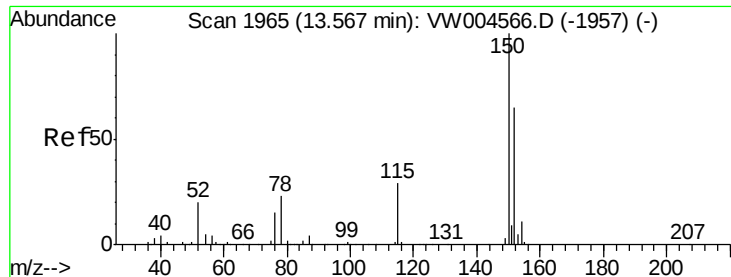
| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 95      | 296796 |       |       |
| 174     | 78.4   | 0.0   | 160.4 |
| 176     | 76.9   | 0.0   | 153.2 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. 0.00 min  
Lab File: VW004632.D  
Acq: 11 Aug 2018 08:00

| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 117     | 855855 |       |       |
| 82      | 55.1   | 45.3  | 67.9  |
| 119     | 30.8   | 26.2  | 39.4  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VW004632.D

Acq: 11 Aug 2018 08:00

Instrument :

MSVOA\_W

ClientSampleId :

JC-03-080918-CRE

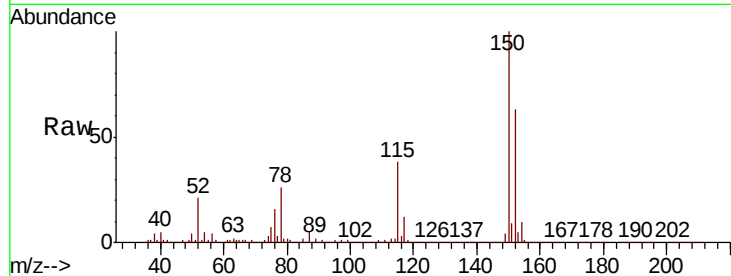
Tgt Ion:152 Resp: 307552

Ion Ratio Lower Upper

152 100

115 59.2 29.1 87.3

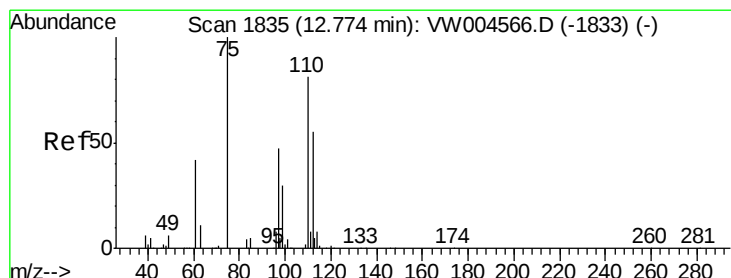
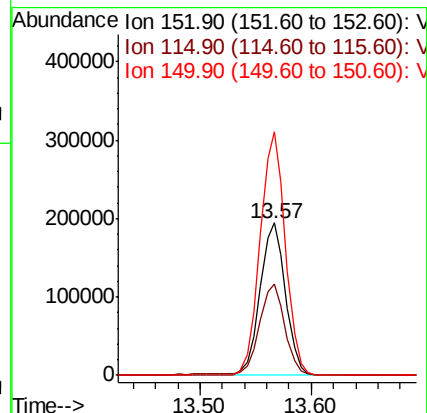
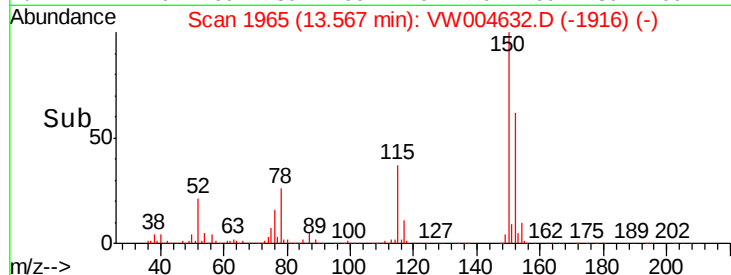
150 158.6 0.0 349.6



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



#76

1,2,3-Trichloropropane

Concen: 45.119 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW004632.D

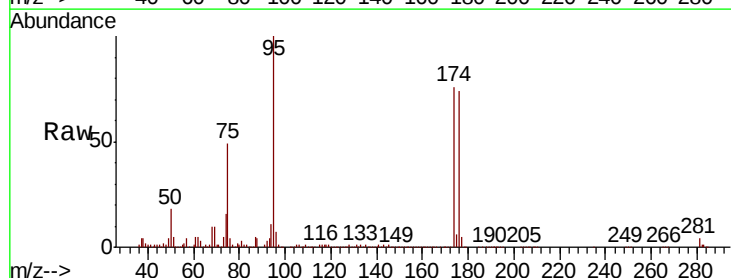
Acq: 11 Aug 2018 08:00

Tgt Ion: 75 Resp: 143590

Ion Ratio Lower Upper

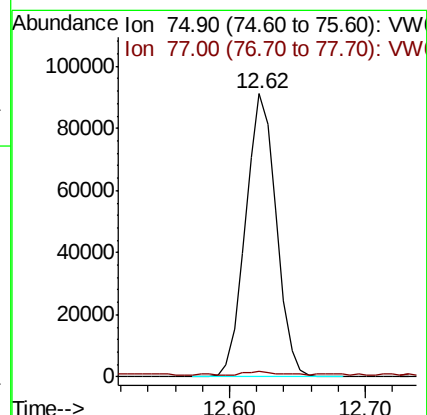
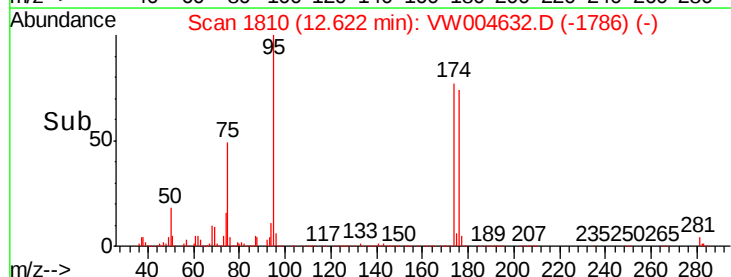
75 100

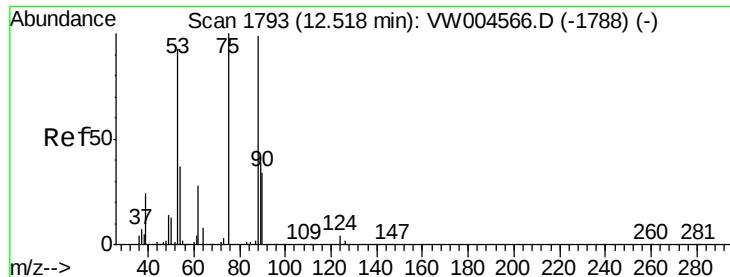
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

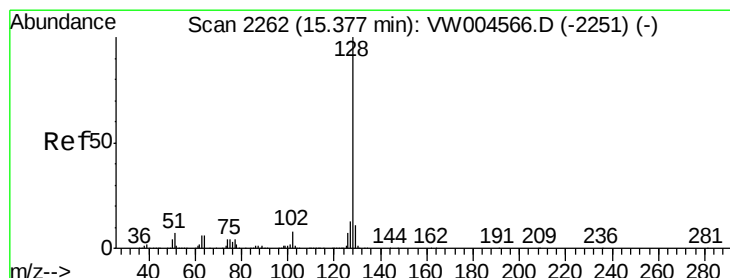
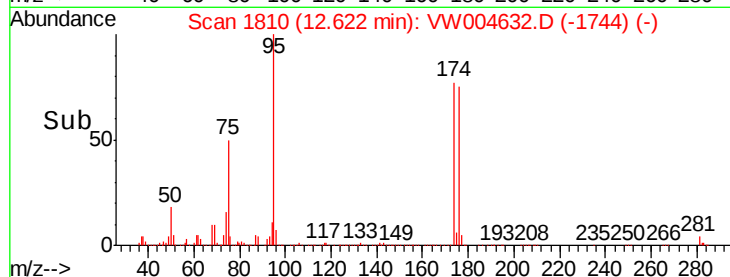
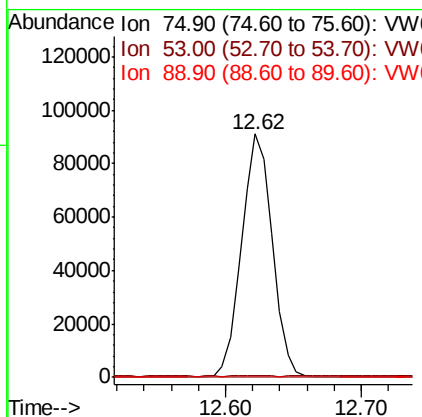
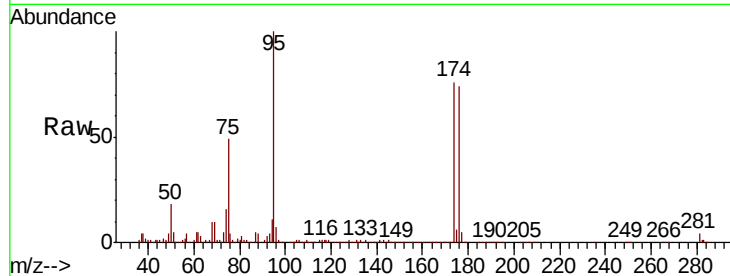




#81  
trans-1,4-Dichloro-2-butene  
Concen: 108.009 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. 0.10 min  
Lab File: VW004632.D  
Acq: 11 Aug 2018 08:00

Instrument :  
MSVOA\_W  
ClientSampleId :  
JC-03-080918-CRE

Tgt Ion: 75 Resp: 143590  
Ion Ratio Lower Upper  
75 100  
53 0.4 74.4 111.6#  
89 0.1 35.9 53.9#



#95  
Naphthalene  
Concen: 3.058 ug/l  
RT: 15.37 min Scan# 2261  
Delta R.T. -0.01 min  
Lab File: VW004632.D  
Acq: 11 Aug 2018 08:00

Tgt Ion: 128 Resp: 2097  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.6 13.0#

