

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW081318\  
 Data File : VW004592.D  
 Acq On : 10 Aug 2018 13:06  
 Operator : SY/AP  
 Sample : J4310-01RE  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C-1

Quant Time: Aug 11 00:59:48 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  | 557983   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 899154   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 748158   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 244081   | 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   | 289762   | 46.91 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.82% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 275974   | 46.03 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.06% |          |
| 50) Toluene-d8              | 10.33 | 98   | 885712   | 38.75 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 77.50% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 221275   | 26.88 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 53.76% |          |

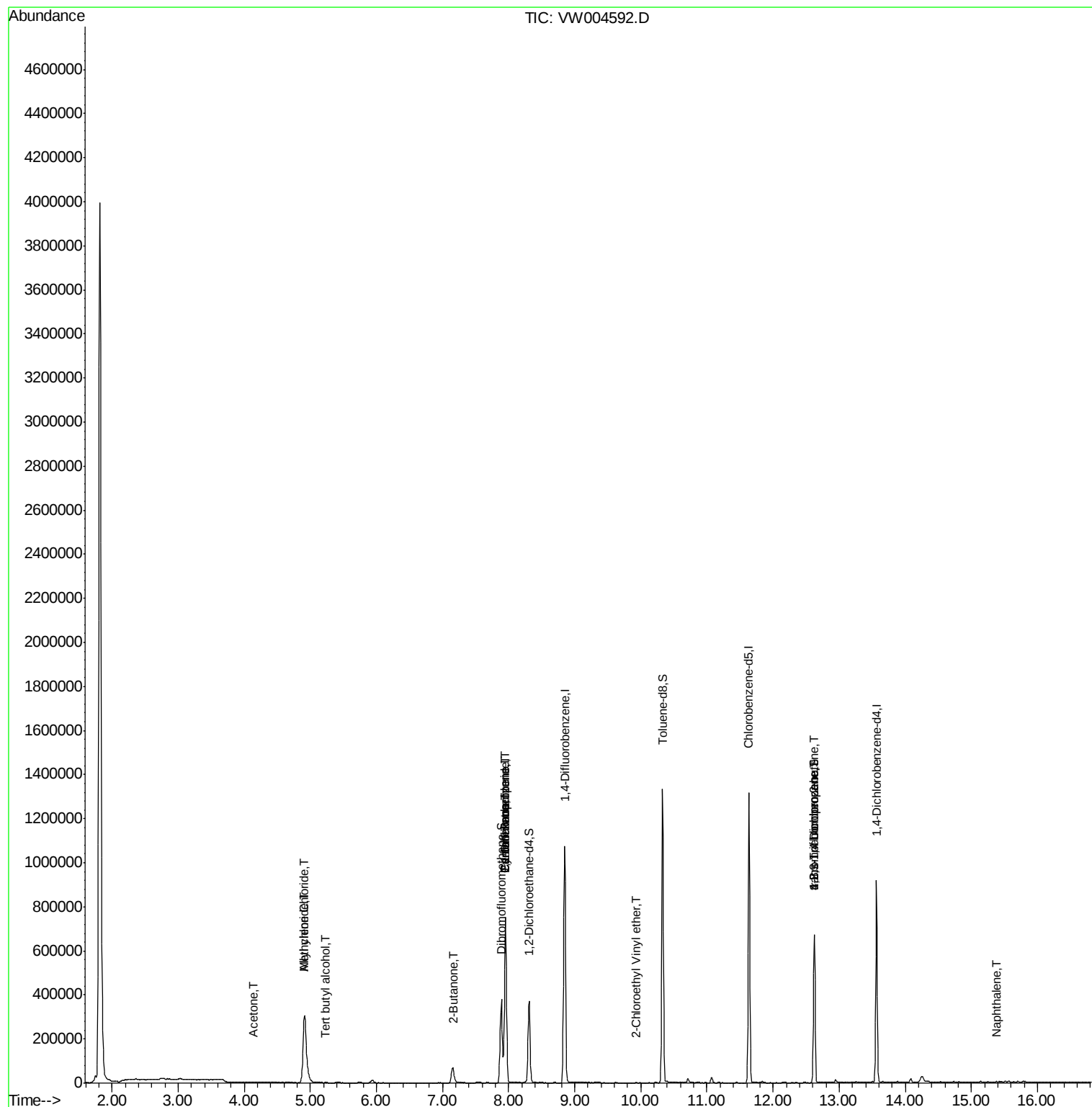
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.23  | 59   | 414      | 1.145   | ug/l # | 70     |
| 14) Allyl chloride             | 4.92  | 41   | 9612     | 1.046   | ug/l # | 26     |
| 16) Acetone                    | 4.14  | 43   | 4908     | 3.182   | ug/l # | 81     |
| 20) Methylene Chloride         | 4.91  | 84   | 285566   | 35.300  | ug/l   | 99     |
| 25) 2-Butanone                 | 7.15  | 43   | 4559     | 1.837   | ug/l # | 69     |
| 31) Cyclohexane                | 7.95  | 56   | 12176    | 1.052   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 43845    | 4.529   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 53668    | 6.160   | ug/l # | 17     |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 252      | 9.018   | ug/l # | 48     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 108233   | 42.853  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 108233   | 102.584 | ug/l # | 13     |
| 95) Naphthalene                | 15.38 | 128  | 1791     | 3.069   | ug/l # | 81     |

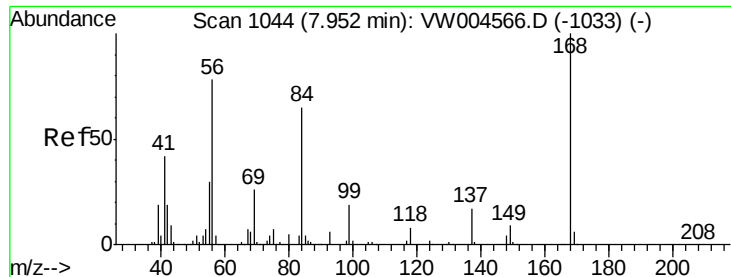
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW081318\  
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Sample : J4310-01RE  
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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
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Quant Time: Aug 11 00:59:48 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
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: VW004592.D

Acq: 10 Aug 2018 13:06

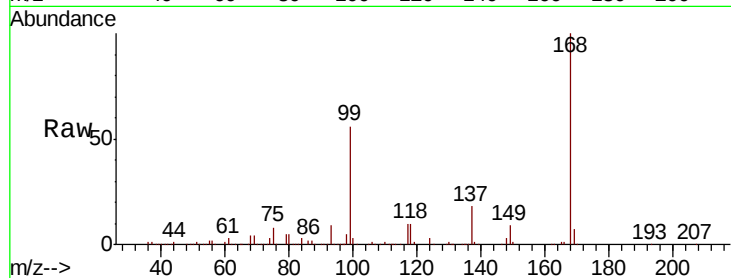
Instrument :  
MSVOA\_W  
ClientSampled :  
C-1

Tgt Ion: 168 Resp: 557983

Ion Ratio Lower Upper

168 100

99 55.6 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

250000

200000

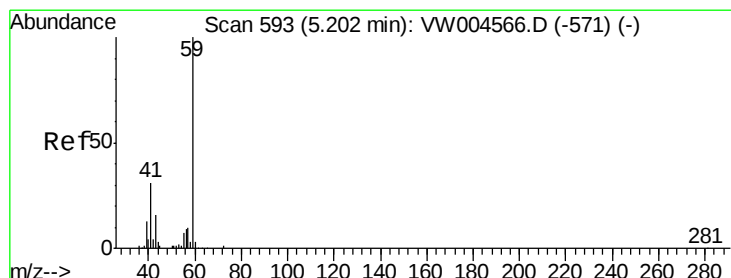
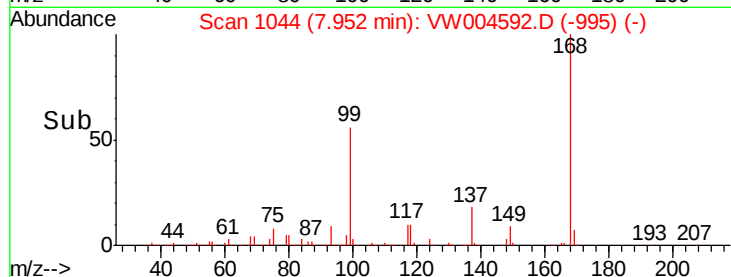
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 1.145 ug/l

RT: 5.23 min Scan# 597

Delta R.T. 0.01 min

Lab File: VW004592.D

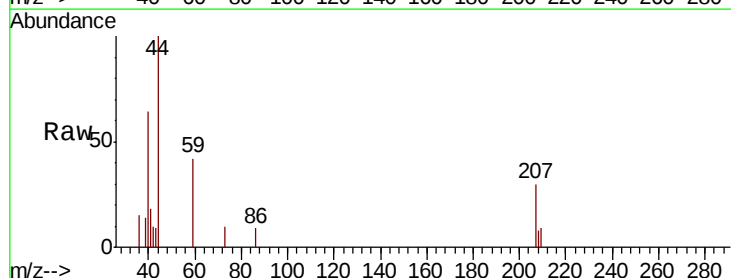
Acq: 10 Aug 2018 13:06

Tgt Ion: 59 Resp: 414

Ion Ratio Lower Upper

59 100

57 0.0 9.1 13.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.23

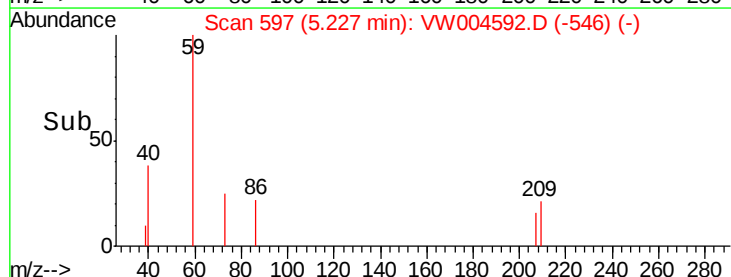
300

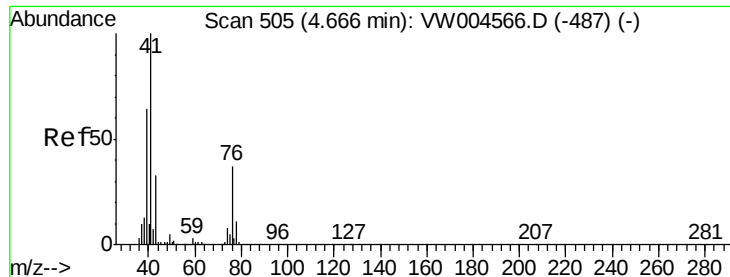
200

100

0

Time--> 5.20 5.22 5.24 5.26 5.28

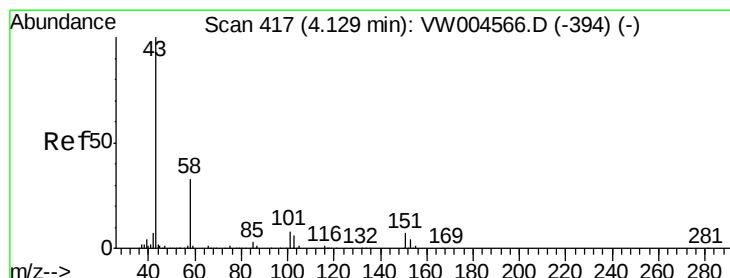
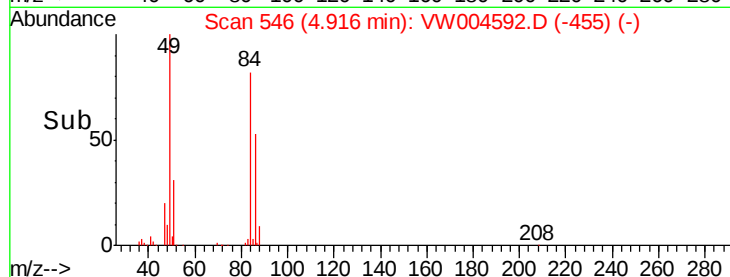
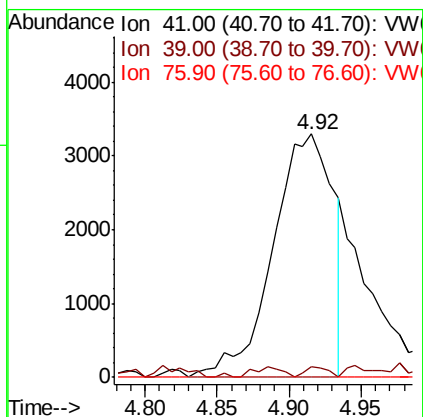
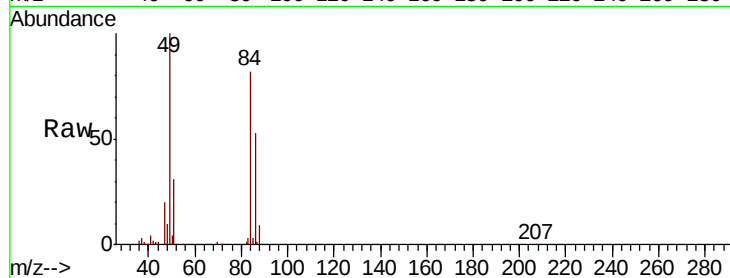




#14  
 Allyl chloride  
 Concen: 1.046 ug/l  
 RT: 4.92 min Scan# 546  
 Delta R.T. 0.26 min  
 Lab File: VW004592.D  
 Acq: 10 Aug 2018 13:06

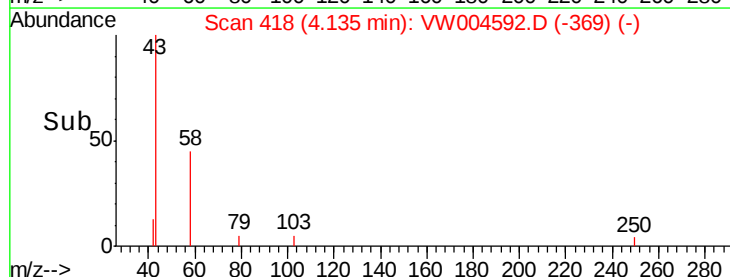
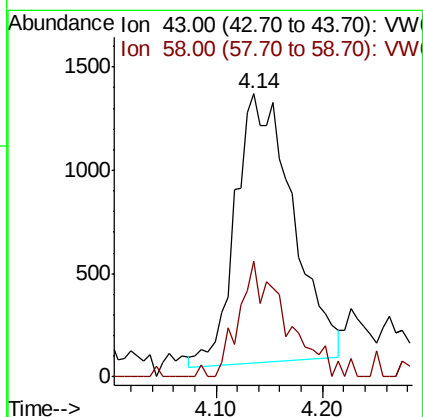
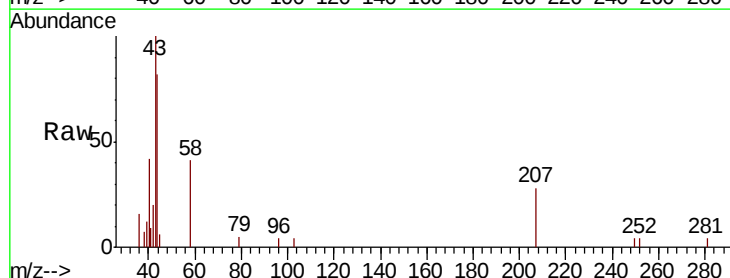
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C-1

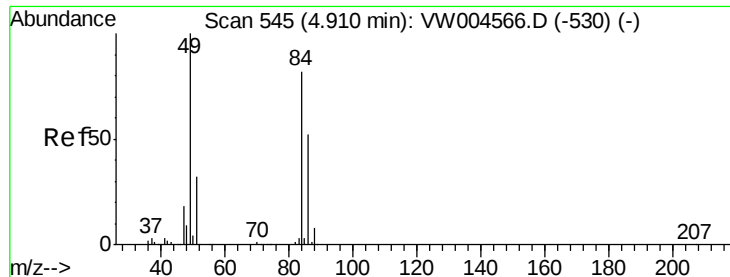
Tgt Ion: 41 Resp: 9612  
 Ion Ratio Lower Upper  
 41 100  
 39 1.6 51.9 77.9#  
 76 0.0 29.0 43.6#



#16  
 Acetone  
 Concen: 3.182 ug/l  
 RT: 4.14 min Scan# 418  
 Delta R.T. -0.00 min  
 Lab File: VW004592.D  
 Acq: 10 Aug 2018 13:06

Tgt Ion: 43 Resp: 4908  
 Ion Ratio Lower Upper  
 43 100  
 58 44.2 26.8 40.2#

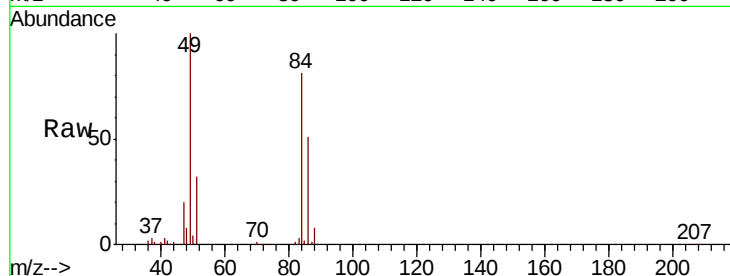




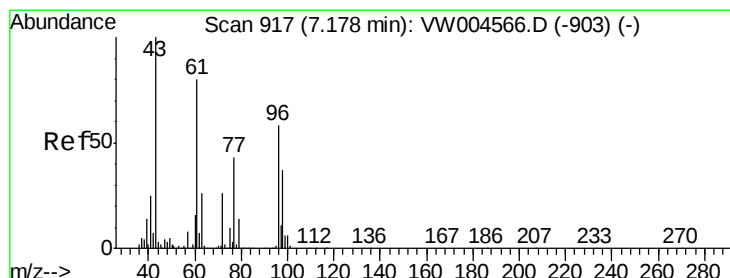
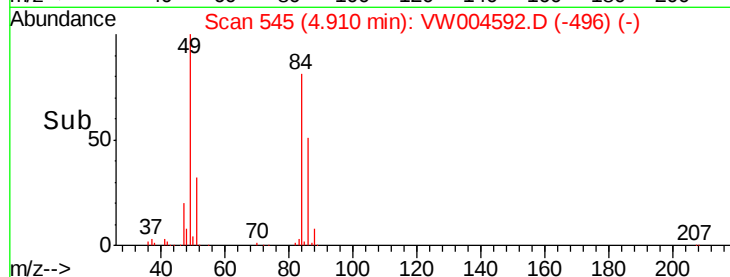
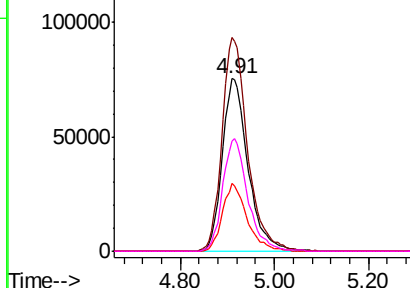
#20  
Methylene Chloride  
Concen: 35.300 ug/l  
RT: 4.91 min Scan# 545  
Delta R.T. 0.00 min  
Lab File: VW004592.D  
Acq: 10 Aug 2018 13:06

Instrument :  
MSVOA\_W  
ClientSampled :  
C-1

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 285566 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 123.8 | 99.6  | 149.4  |
| 51       | 39.3  | 31.0  | 46.4   |
| 86       | 63.7  | 51.5  | 77.3   |

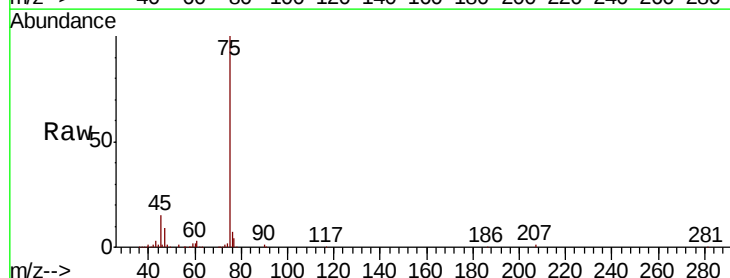


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

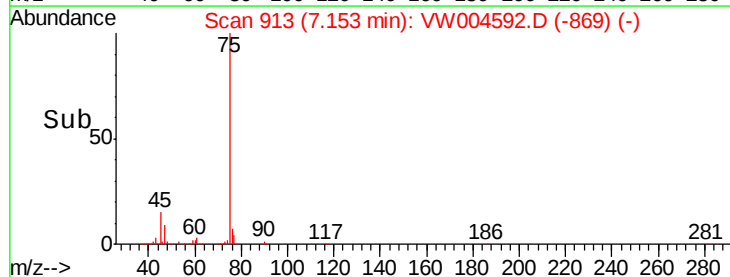
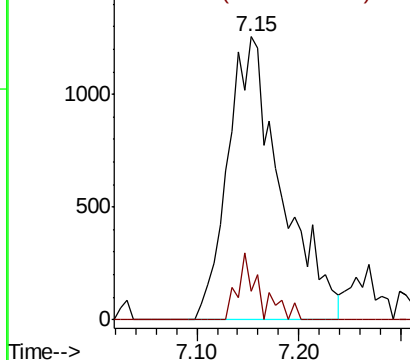


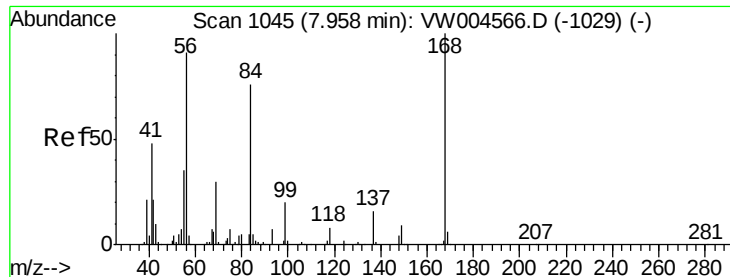
#25  
2-Butanone  
Concen: 1.837 ug/l  
RT: 7.15 min Scan# 913  
Delta R.T. -0.03 min  
Lab File: VW004592.D  
Acq: 10 Aug 2018 13:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4559  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 10.3  | 21.0  | 31.6# |



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 72.00 (71.70 to 72.70): VW

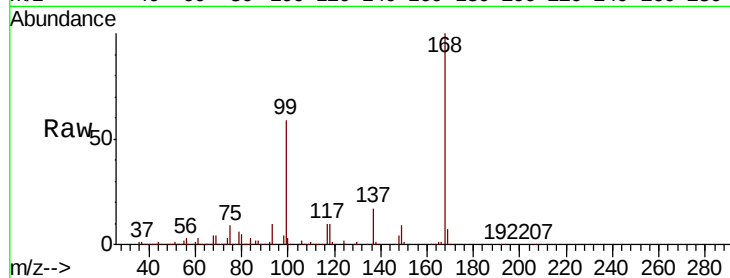




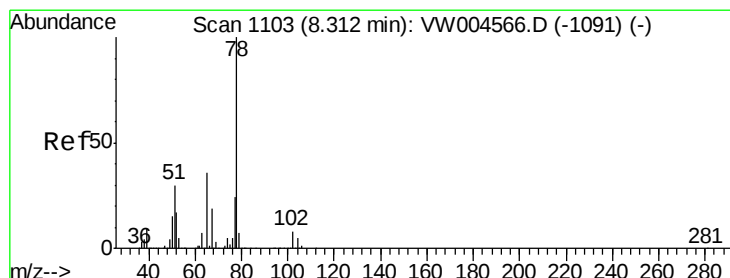
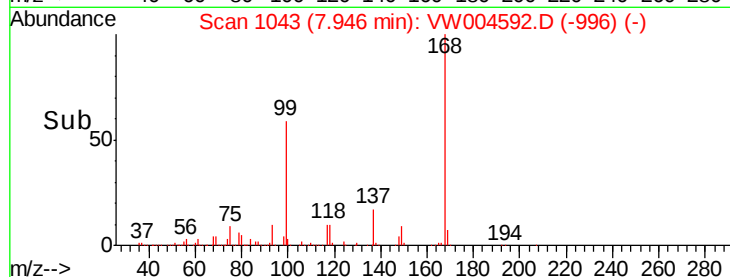
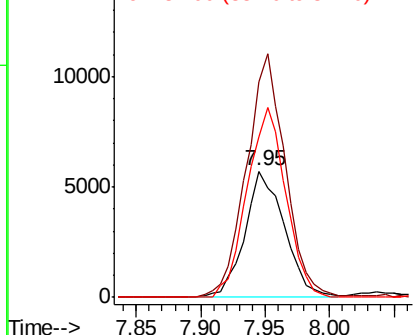
#31  
Cyclohexane  
Concen: 1.052 ug/l  
RT: 7.95 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: VW004592.D  
Acq: 10 Aug 2018 13:06

Instrument :  
MSVOA\_W  
ClientSampled :  
C-1

Tgt Ion: 56 Resp: 12176  
Ion Ratio Lower Upper  
56 100  
69 171.1 26.4 39.6#  
84 127.3 66.9 100.3#

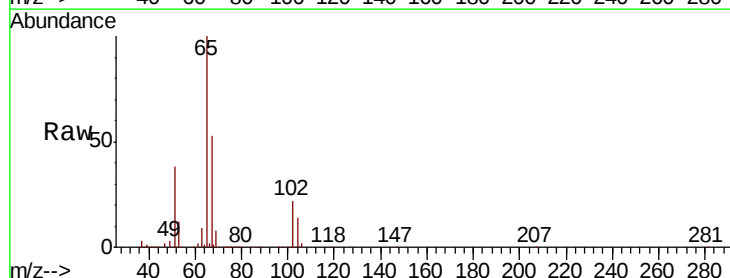


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

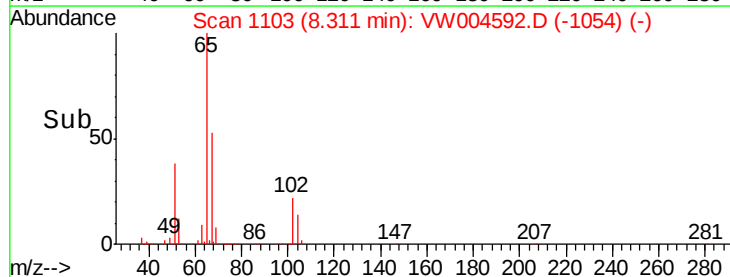
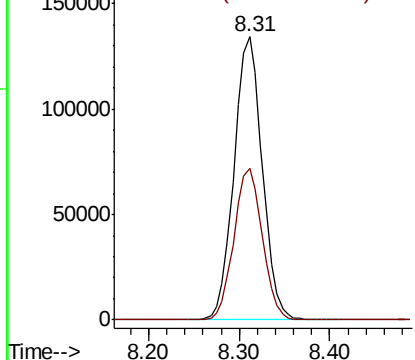


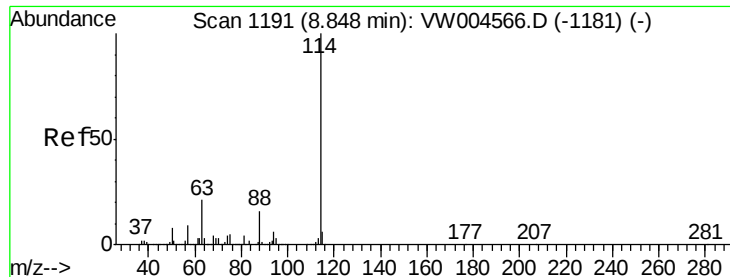
#33  
1,2-Dichloroethane-d4  
Concen: 46.912 ug/l  
RT: 8.31 min Scan# 1103  
Delta R.T. -0.00 min  
Lab File: VW004592.D  
Acq: 10 Aug 2018 13:06

Tgt Ion: 65 Resp: 289762  
Ion Ratio Lower Upper  
65 100  
67 53.8 0.0 109.0



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

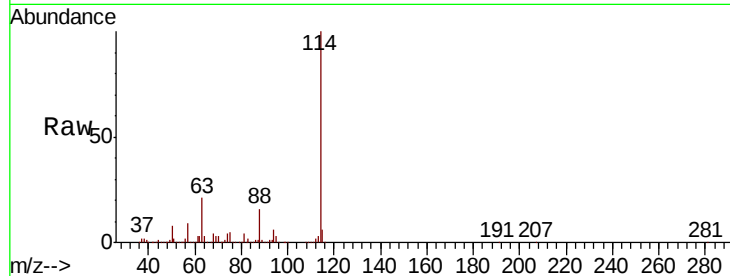




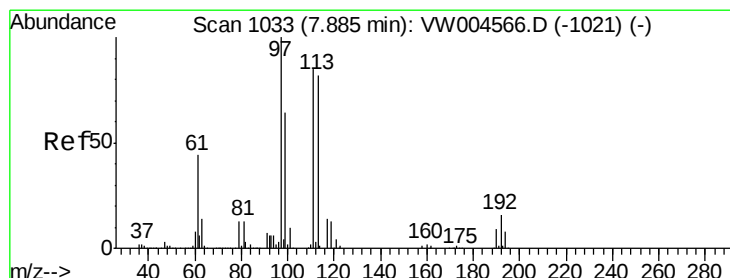
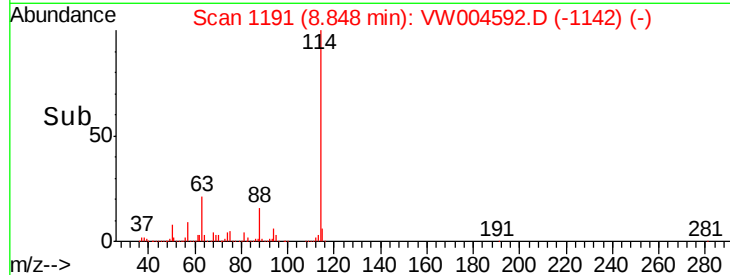
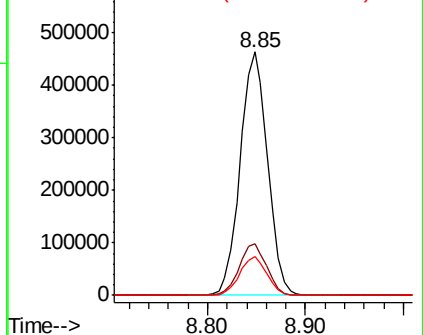
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW004592.D  
 Acq: 10 Aug 2018 13:06

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C-1

Tgt Ion:114 Resp: 899154  
 Ion Ratio Lower Upper  
 114 100  
 63 21.0 0.0 42.4  
 88 15.8 0.0 31.2

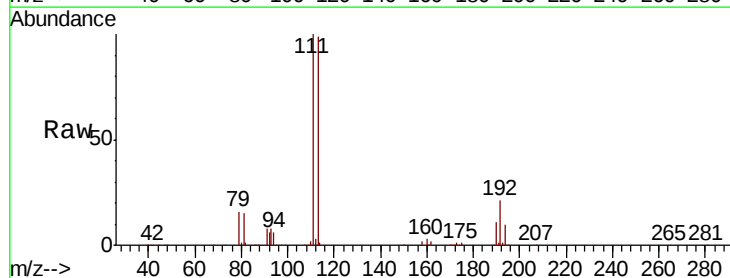


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

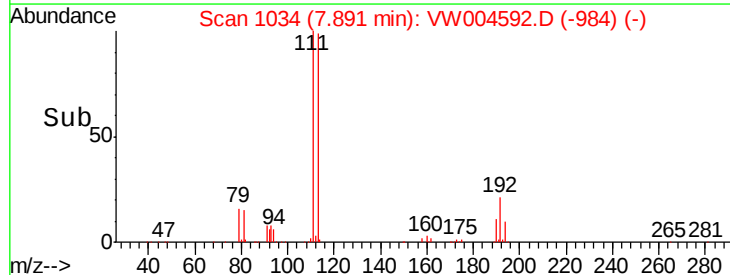
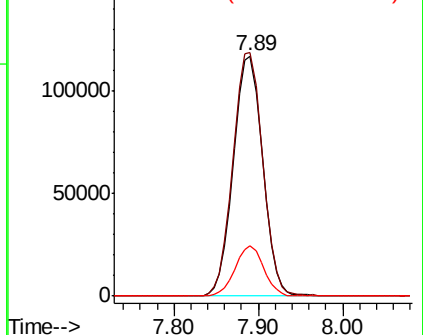


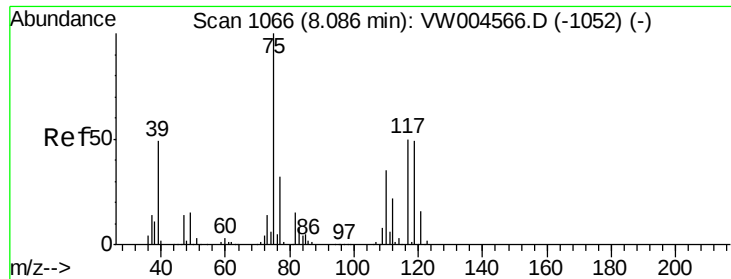
#35  
 Dibromofluoromethane  
 Concen: 46.032 ug/l  
 RT: 7.89 min Scan# 1034  
 Delta R.T. 0.01 min  
 Lab File: VW004592.D  
 Acq: 10 Aug 2018 13:06

Tgt Ion:113 Resp: 275974  
 Ion Ratio Lower Upper  
 113 100  
 111 102.6 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

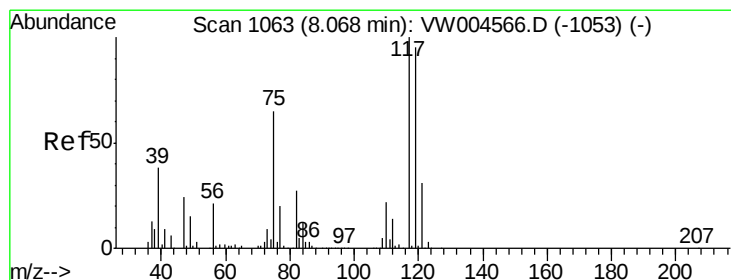
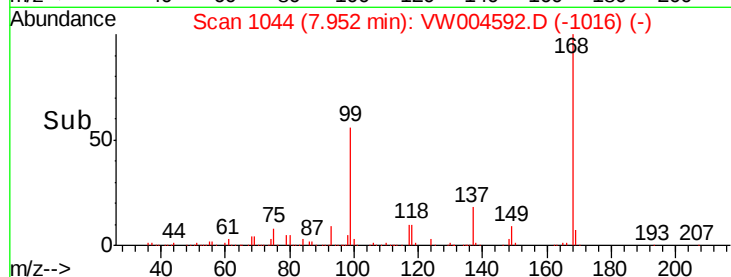
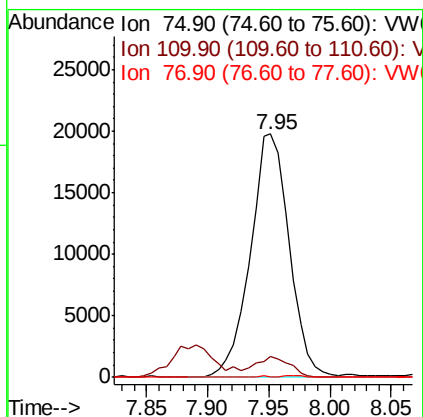
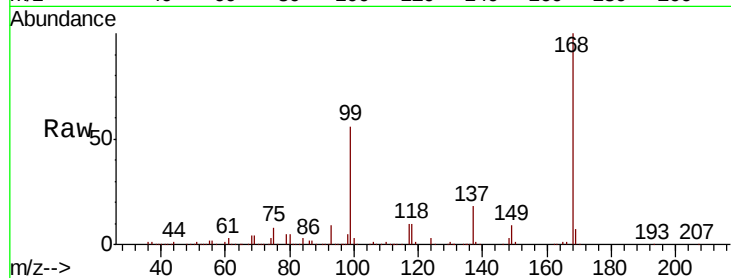




#36  
 1,1-Dichloropropene  
 Concen: 4.529 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW004592.D  
 Acq: 10 Aug 2018 13:06

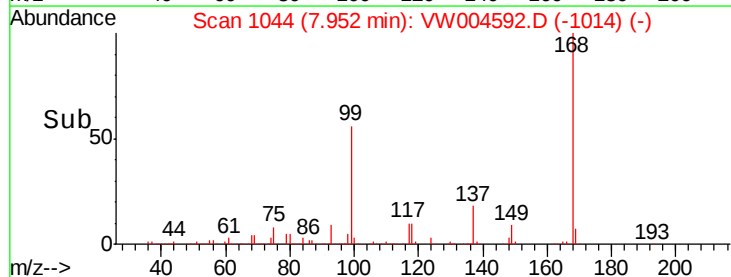
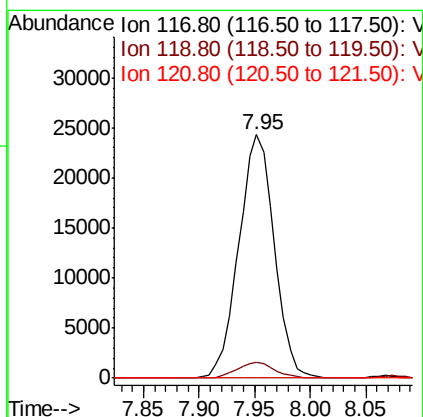
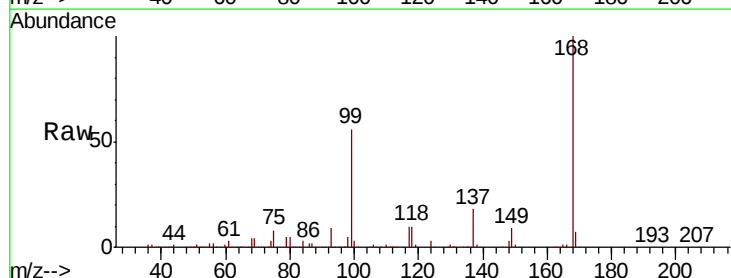
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 C-1

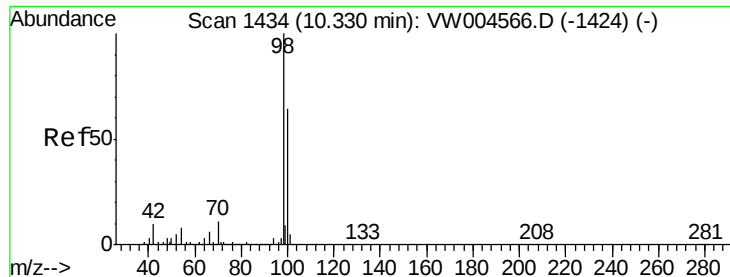
Tgt Ion: 75 Resp: 43845  
 Ion Ratio Lower Upper  
 75 100  
 110 7.6 17.4 52.2#  
 77 0.1 24.7 37.1#



#38  
 Carbon Tetrachloride  
 Concen: 6.160 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.12 min  
 Lab File: VW004592.D  
 Acq: 10 Aug 2018 13:06

Tgt Ion: 117 Resp: 53668  
 Ion Ratio Lower Upper  
 117 100  
 119 6.4 76.1 114.1#  
 121 0.0 24.2 36.4#

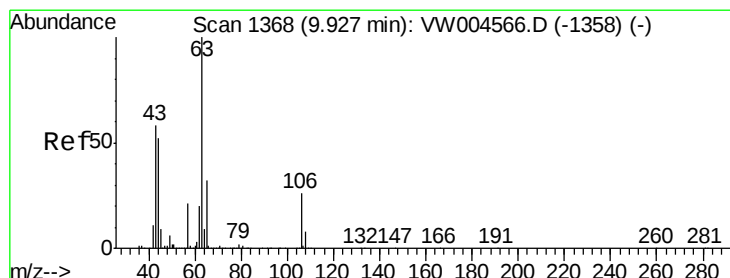
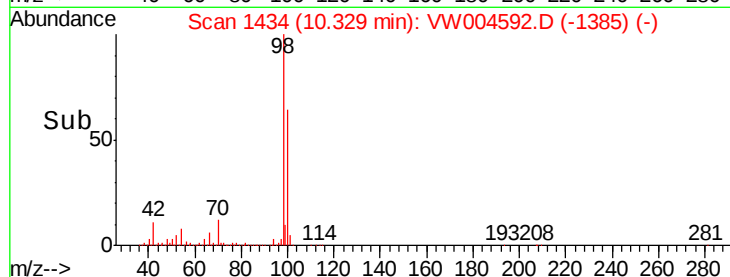
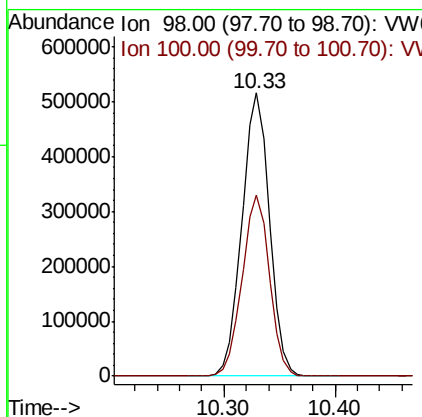
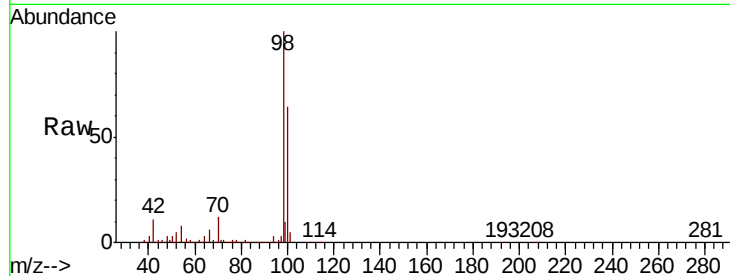




#50  
Toluene-d8  
Concen: 38.752 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. -0.00 min  
Lab File: VW004592.D  
Acq: 10 Aug 2018 13:06

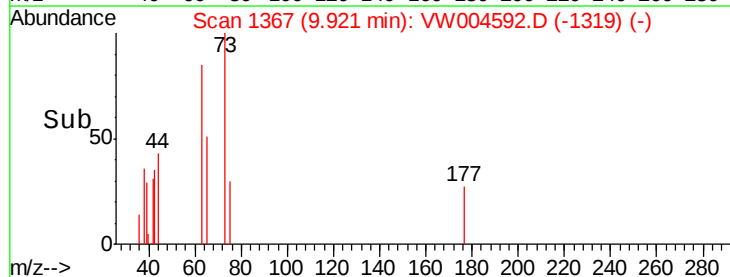
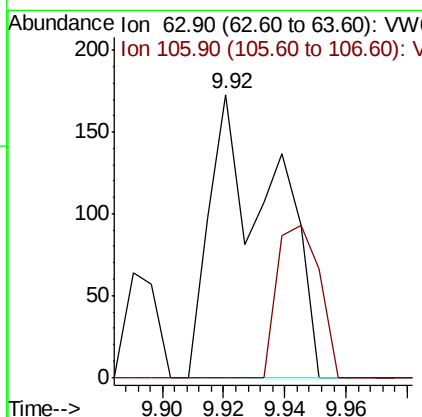
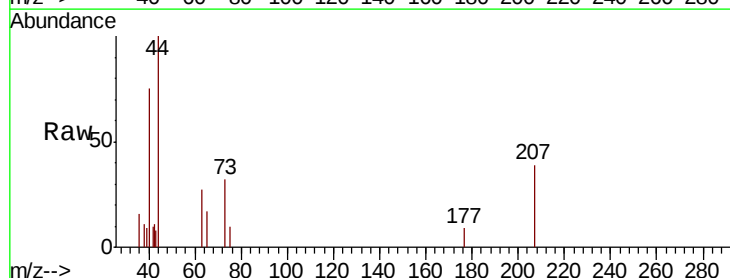
Instrument :  
MSVOA\_W  
ClientSampled :  
C-1

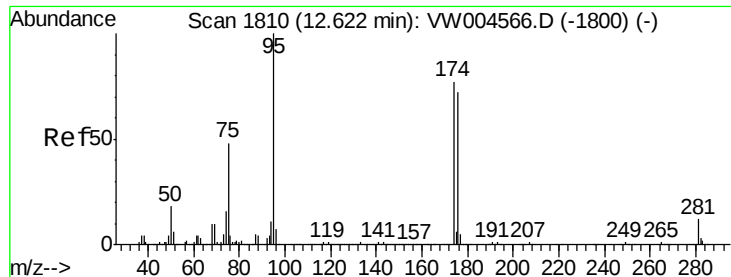
Tgt Ion: 98 Resp: 885712  
Ion Ratio Lower Upper  
98 100  
100 63.4 51.4 77.2



#58  
2-Chloroethyl Vinyl ether  
Concen: 9.018 ug/l  
RT: 9.92 min Scan# 1367  
Delta R.T. -0.01 min  
Lab File: VW004592.D  
Acq: 10 Aug 2018 13:06

Tgt Ion: 63 Resp: 252  
Ion Ratio Lower Upper  
63 100  
106 0.0 21.3 31.9#

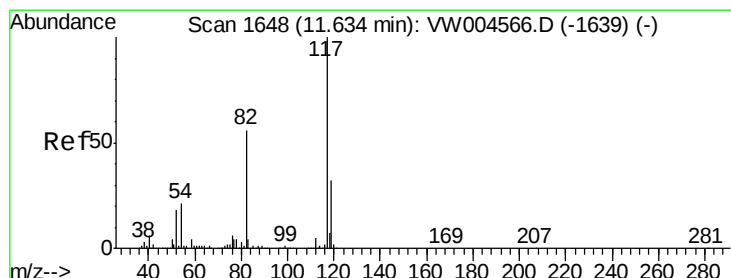
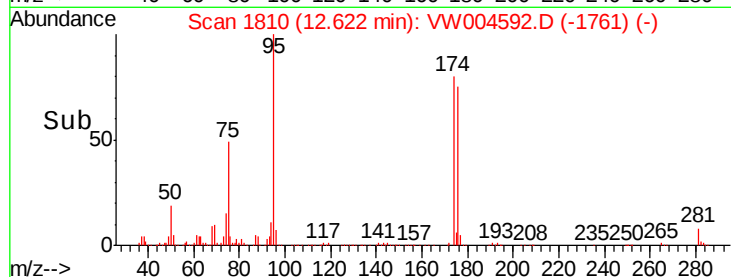
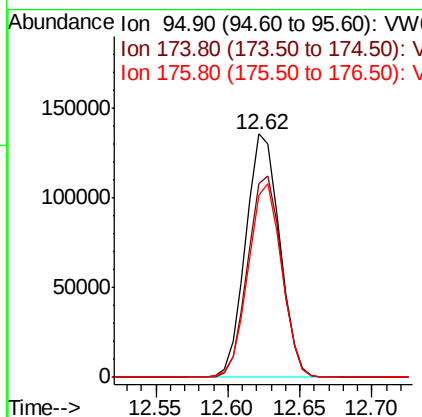
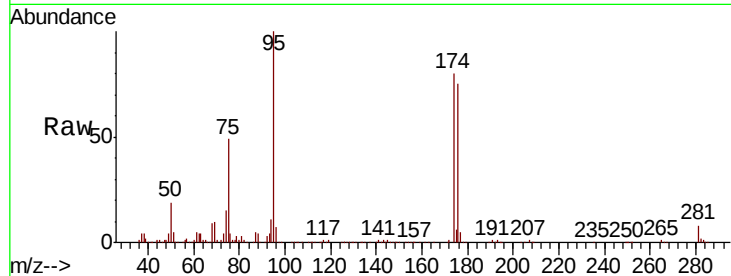




#62  
4-Bromofluorobenzene  
Concen: 26.876 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.00 min  
Lab File: VW004592.D  
Acq: 10 Aug 2018 13:06

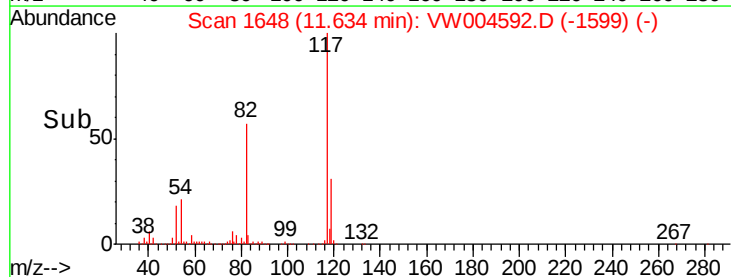
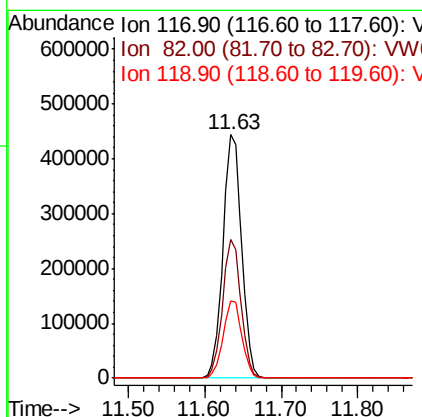
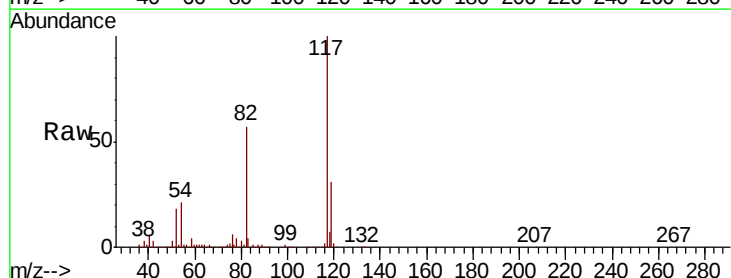
Instrument :  
MSVOA\_W  
ClientSampleId :  
C-1

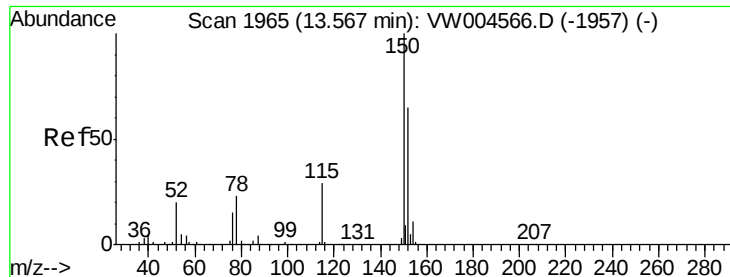
Tgt Ion: 95 Resp: 221275  
Ion Ratio Lower Upper  
95 100  
174 82.9 0.0 160.4  
176 78.3 0.0 153.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW004592.D  
Acq: 10 Aug 2018 13:06

Tgt Ion: 117 Resp: 748158  
Ion Ratio Lower Upper  
117 100  
82 56.8 45.3 67.9  
119 31.5 26.2 39.4



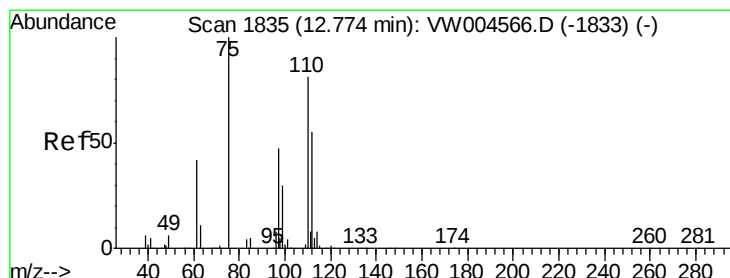
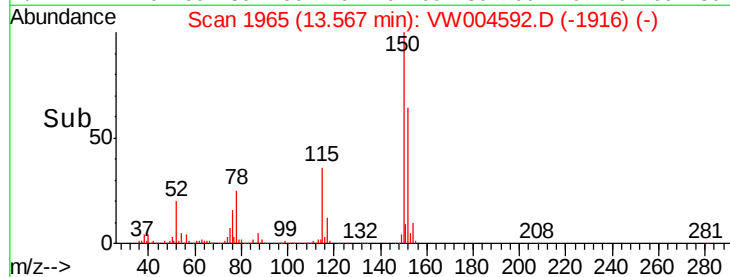
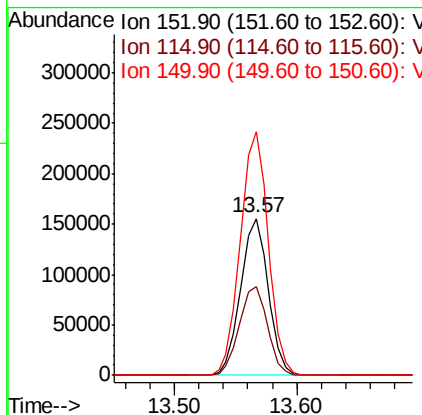
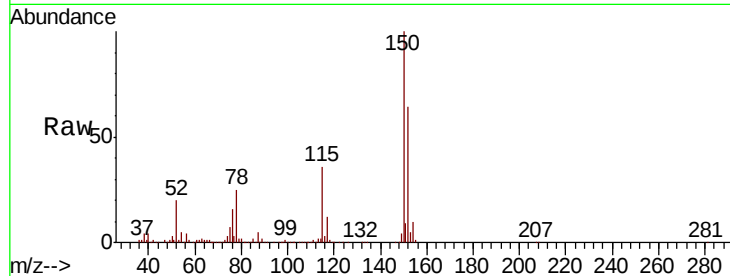


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VW004592.D  
Acq: 10 Aug 2018 13:06

Instrument :  
MSVOA\_W  
ClientSampleId :  
C-1

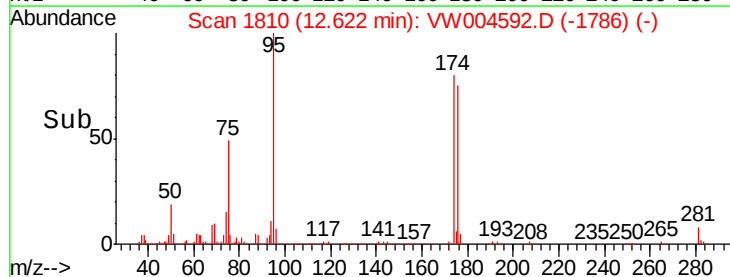
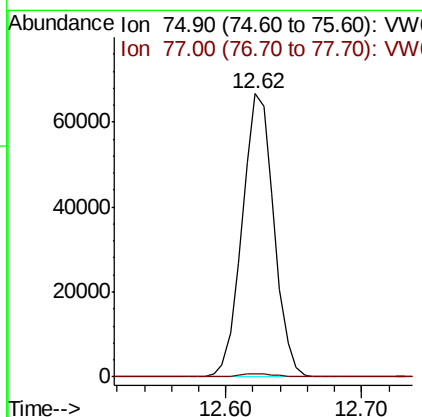
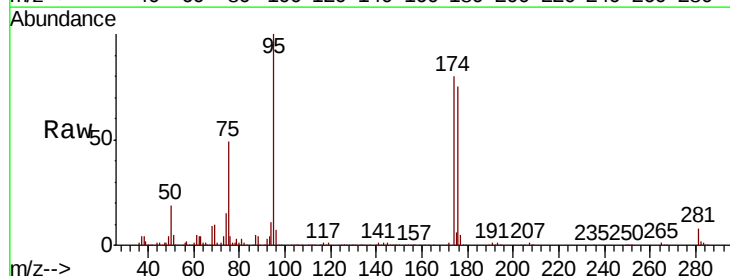
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.1  | 29.1  | 87.3  |
| 150     | 156.9 | 0.0   | 349.6 |

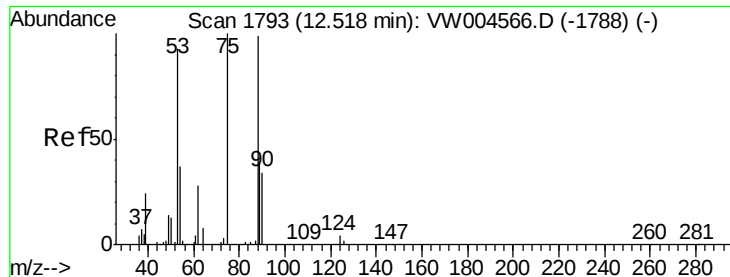


#76

1,2,3-Trichloropropane  
Concen: 42.853 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.15 min  
Lab File: VW004592.D  
Acq: 10 Aug 2018 13:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.3   | 0.0   | 0.0#  |





#81

trans-1,4-Dichloro-2-butene

Concen: 102.584 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW004592.D

Acq: 10 Aug 2018 13:06

Instrument :

MSVOA\_W

ClientSampled :

C-1

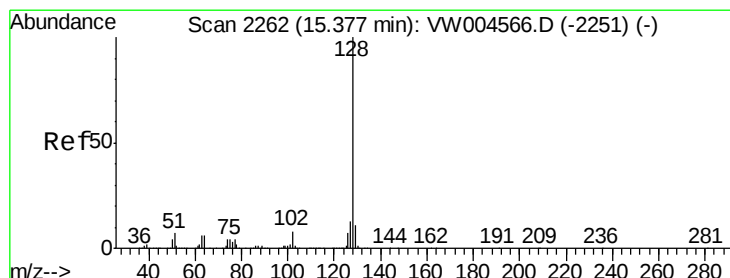
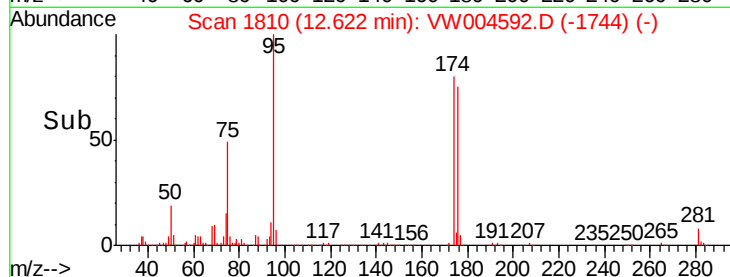
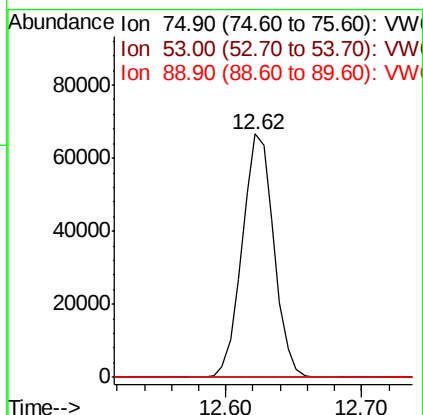
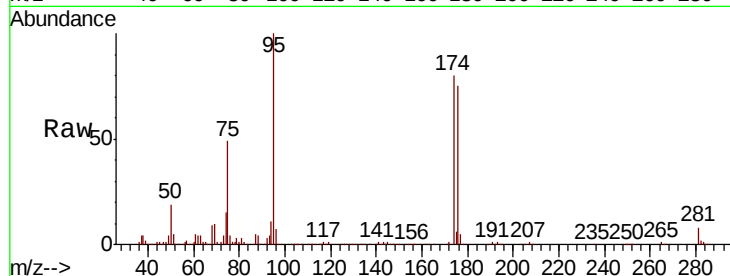
Tgt Ion: 75 Resp: 108233

Ion Ratio Lower Upper

75 100

53 0.4 74.4 111.6#

89 0.2 35.9 53.9#



#95

Naphthalene

Concen: 3.069 ug/l

RT: 15.38 min Scan# 2263

Delta R.T. 0.01 min

Lab File: VW004592.D

Acq: 10 Aug 2018 13:06

Tgt Ion: 128 Resp: 1791

Ion Ratio Lower Upper

128 100

127 11.9 10.3 15.5

129 25.1 8.6 13.0#

