

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121918\  
 Data File : VW007643.D  
 Acq On : 17 Dec 2018 20:16  
 Operator : SY/AP  
 Sample : J6379-02RE  
 Misc : 4.80G/5ML/MSVOA W/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 18 07:06:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 55254    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 91948    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 67566    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 21774    | 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   | 36461    | 59.48 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 118.96% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 31860    | 57.24 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 114.48% |          |
| 50) Toluene-d8              | 10.32 | 98   | 102062   | 48.91 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.82%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 27998    | 36.49 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 72.98%  |          |

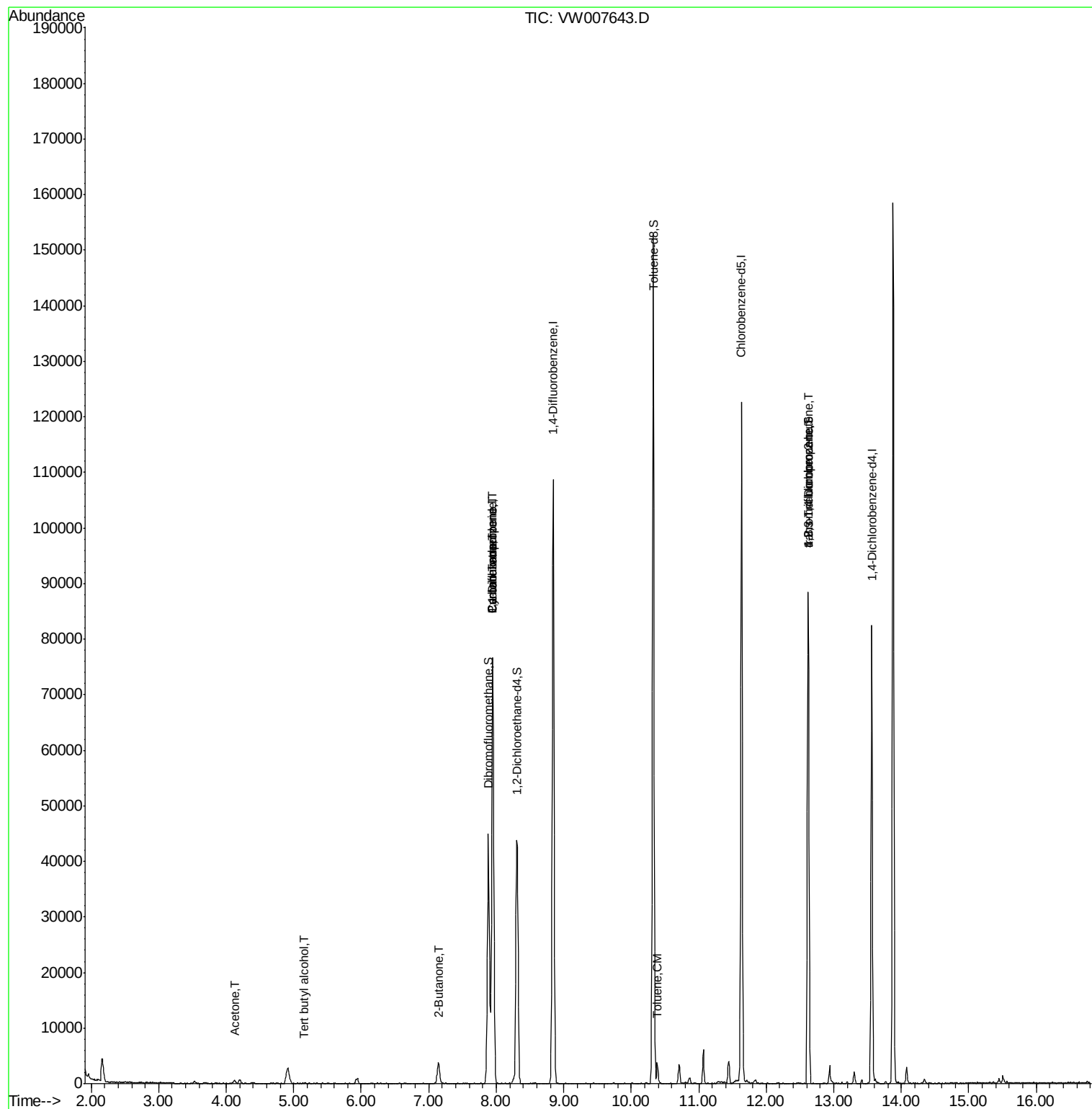
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.16  | 59   | 118      | 2.803   | ug/l # | 74     |
| 16) Acetone                    | 4.13  | 43   | 981      | 9.162   | ug/l # | 69     |
| 25) 2-Butanone                 | 7.15  | 43   | 182      | 1.302   | ug/l # | 45     |
| 31) Cyclohexane                | 7.95  | 56   | 1354     | 1.422   | ug/l # | 10     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 4229     | 5.042   | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 5858     | 6.419   | ug/l # | 18     |
| 52) Toluene                    | 10.39 | 92   | 1660     | 1.102   | ug/l   | 91     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 14240    | 79.317  | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 14240    | 175.212 | ug/l # | 7      |

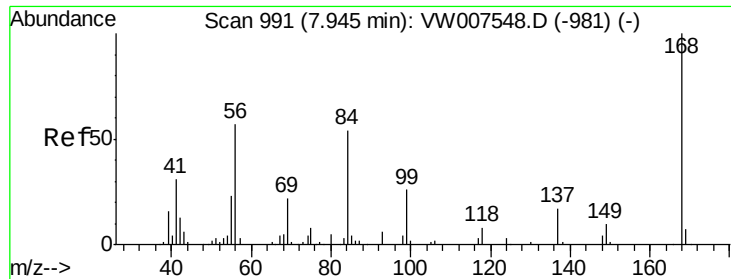
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW121918\  
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Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Dec 18 07:06:58 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 11 02:58:16 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007643.D

Acq: 17 Dec 2018 20:16

Instrument :

MSVOA\_W

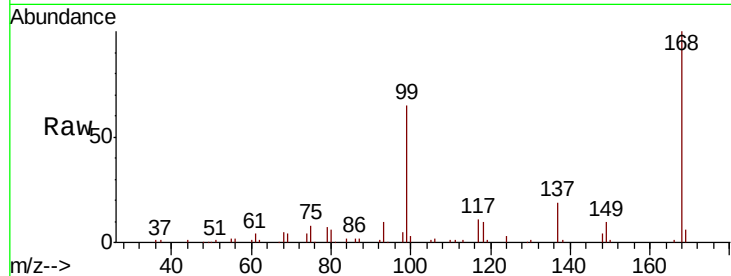
ClientSampleId :

Tot Ion:168 Resp: 55254

Ion Ratio Lower Upper

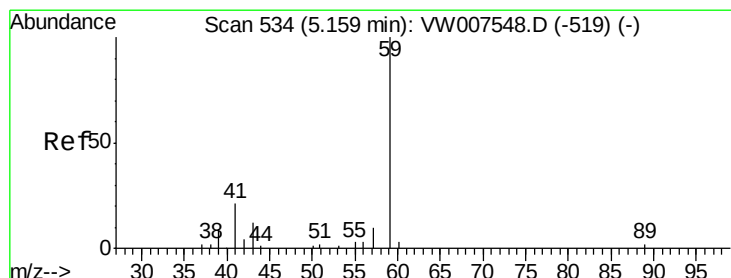
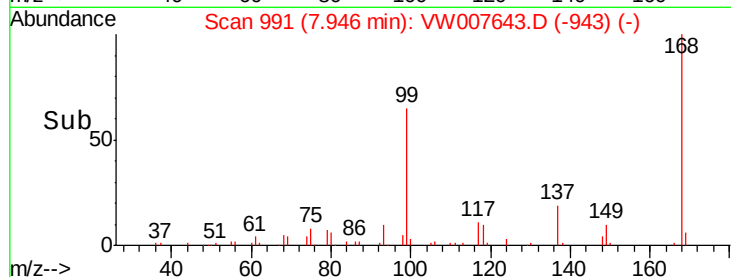
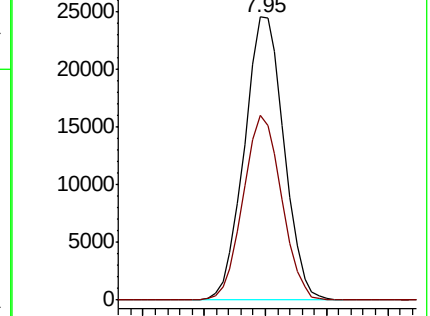
168 100

99 65.2 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 2.803 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.01 min

Lab File: VW007643.D

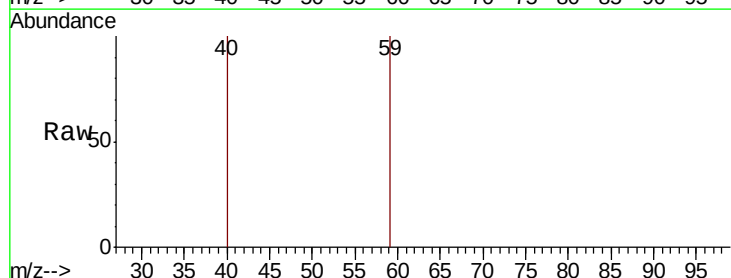
Acq: 17 Dec 2018 20:16

Tgt Ion: 59 Resp: 118

Ion Ratio Lower Upper

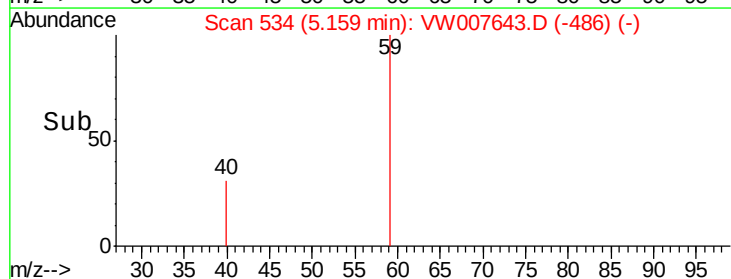
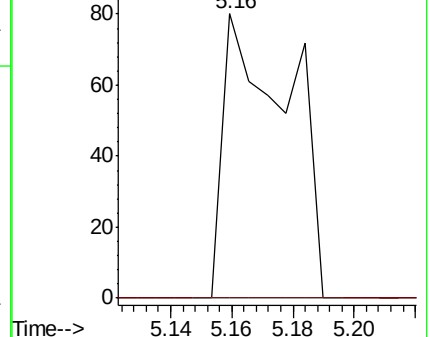
59 100

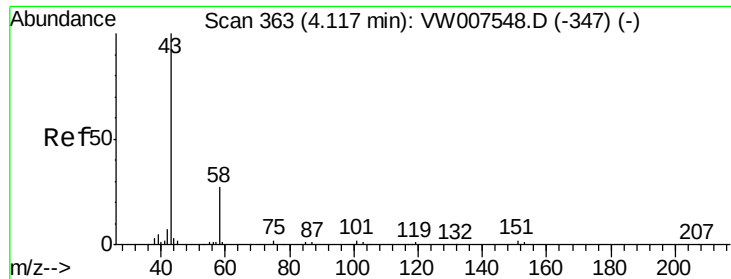
57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 9.162 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW007643.D

Acq: 17 Dec 2018 20:16

Instrument :

MSVOA\_W

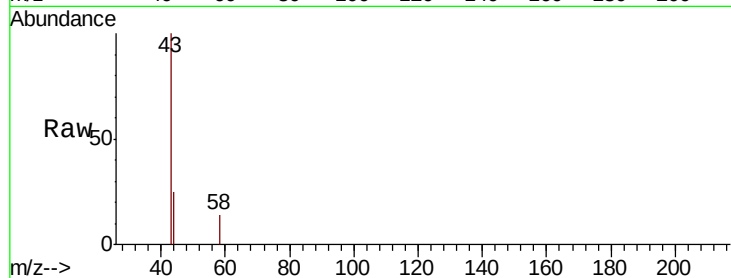
ClientSampleId :

Tot Ion: 43 Resp: 981

Ion Ratio Lower Upper

43 100

58 14.0 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.13

400

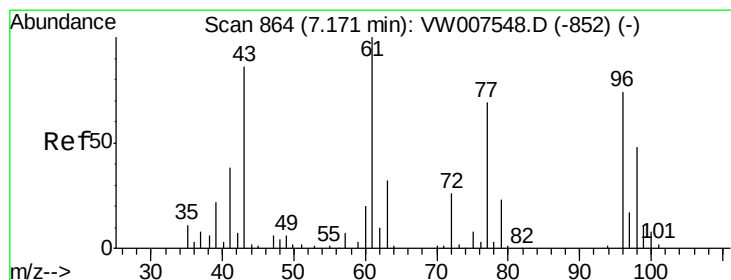
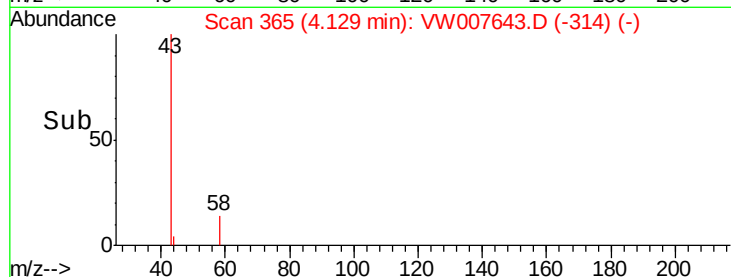
300

200

100

0

Time-->



#25

2-Butanone

Concen: 1.302 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW007643.D

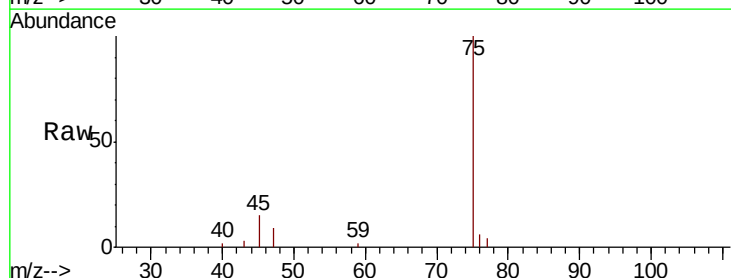
Acq: 17 Dec 2018 20:16

Tgt Ion: 43 Resp: 182

Ion Ratio Lower Upper

43 100

72 0.0 23.4 35.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.15

100

80

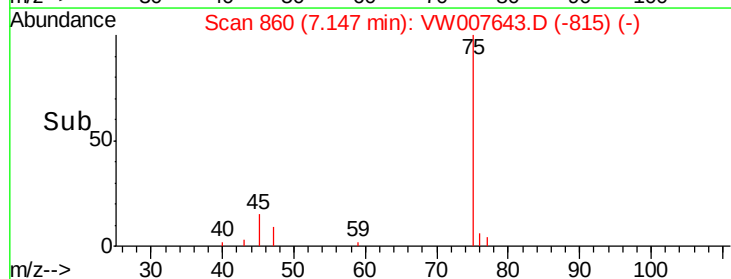
60

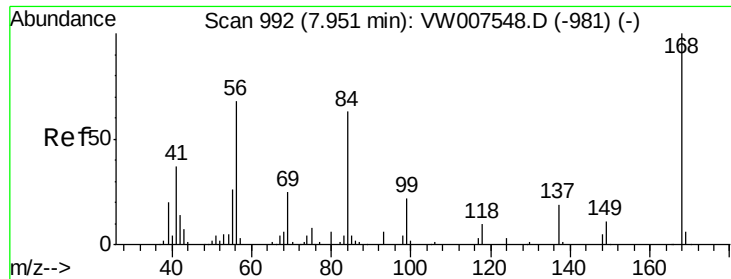
40

20

0

Time-->

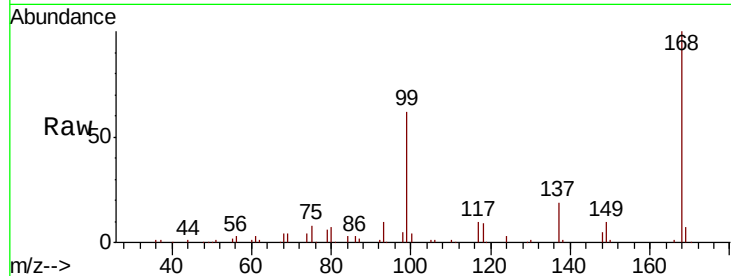




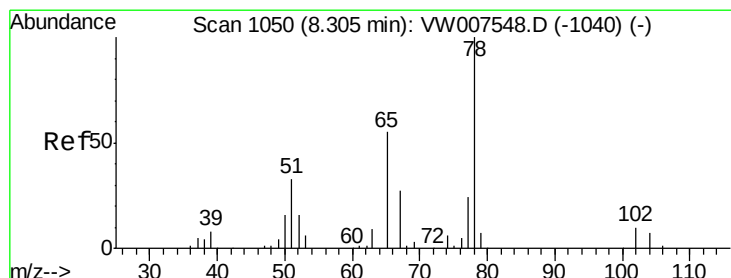
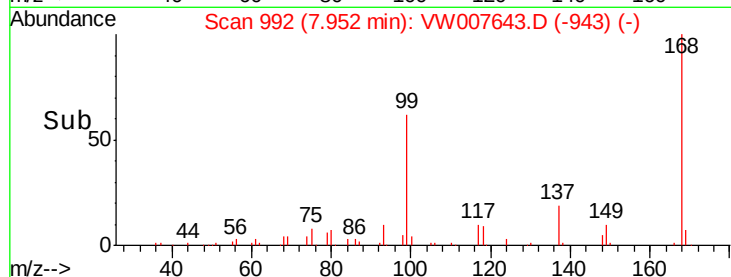
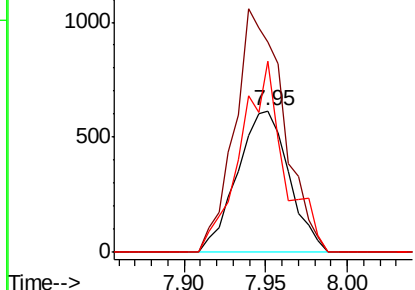
#31  
Cyclohexane  
Concen: 1.422 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. 0.00 min  
Lab File: VW007643.D  
Acq: 17 Dec 2018 20:16

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 56 Resp: 1354  
Ion Ratio Lower Upper  
56 100  
69 149.0 28.9 43.3#  
84 135.3 71.8 107.6#

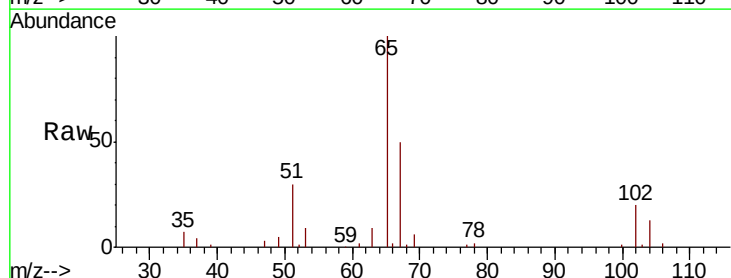


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

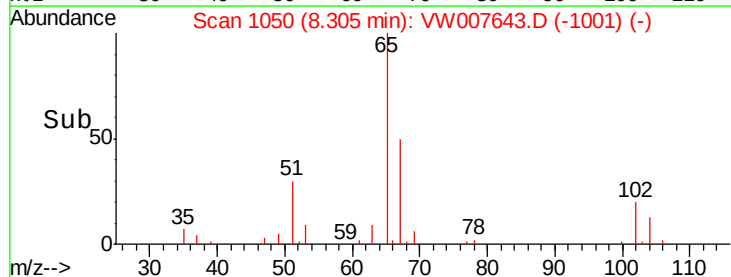
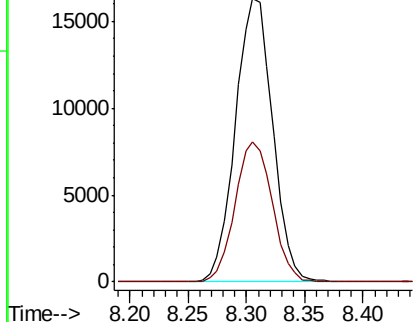


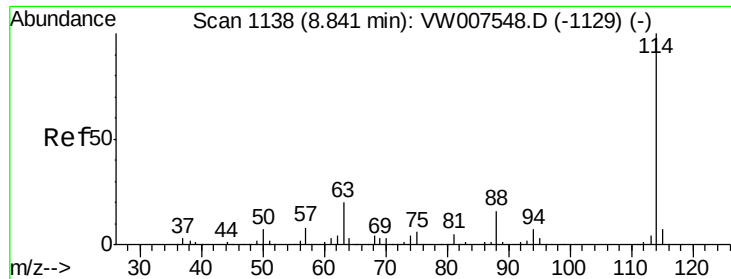
#33  
1,2-Dichloroethane-d4  
Concen: 59.480 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. 0.00 min  
Lab File: VW007643.D  
Acq: 17 Dec 2018 20:16

Tgt Ion: 65 Resp: 36461  
Ion Ratio Lower Upper  
65 100  
67 49.4 0.0 101.6



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

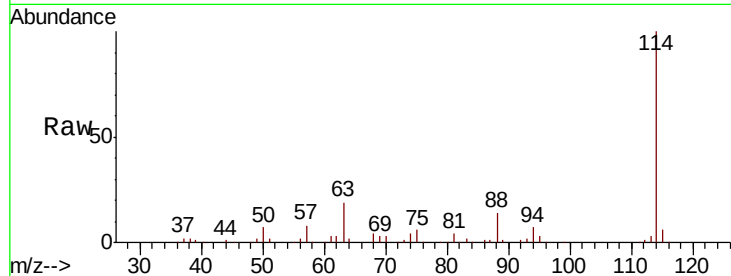




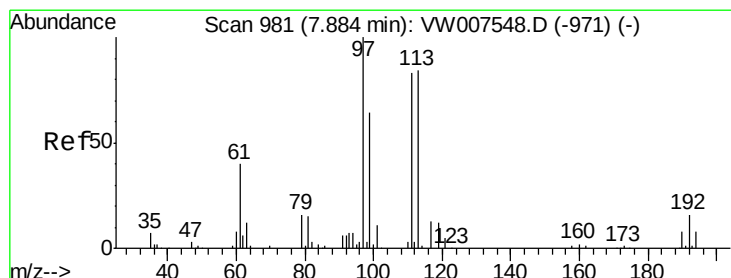
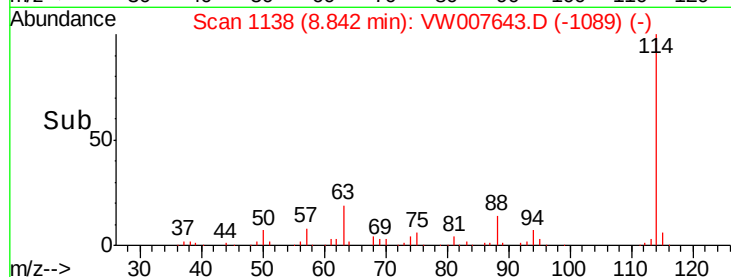
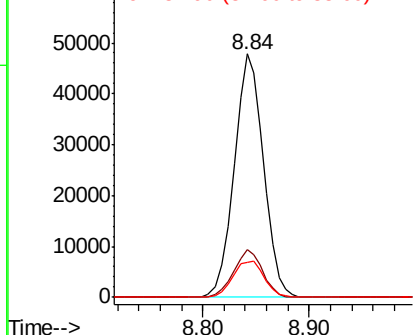
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.84 min Scan# 1138  
Delta R.T. 0.00 min  
Lab File: VW007643.D  
Acq: 17 Dec 2018 20:16

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:114 Resp: 91948  
Ion Ratio Lower Upper  
114 100  
63 19.4 0.0 39.6  
88 14.5 0.0 31.4

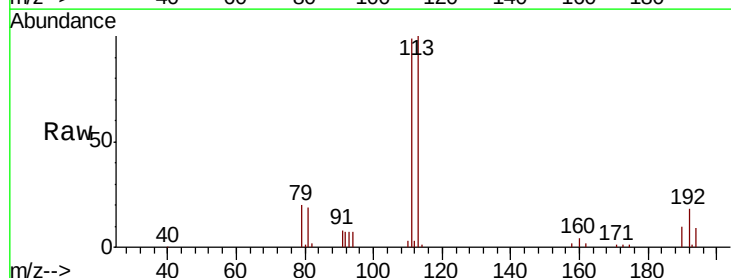


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VW  
Ion 87.90 (87.60 to 88.60): VW

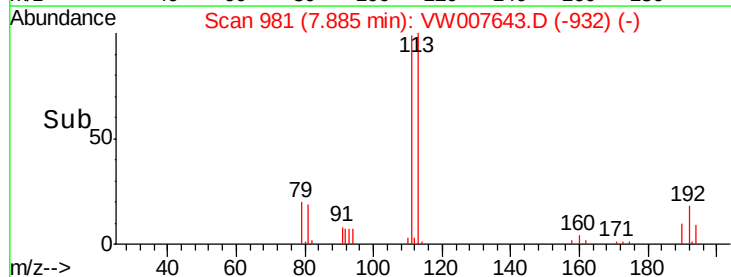
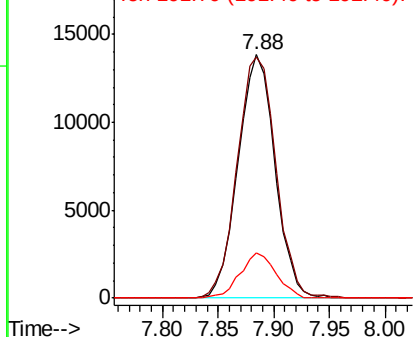


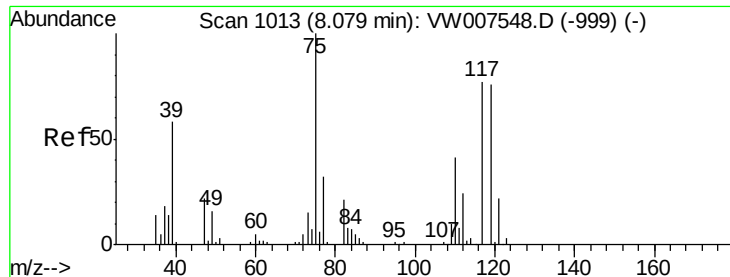
#35  
Dibromofluoromethane  
Concen: 57.241 ug/l  
RT: 7.88 min Scan# 981  
Delta R.T. 0.00 min  
Lab File: VW007643.D  
Acq: 17 Dec 2018 20:16

Tgt Ion:113 Resp: 31860  
Ion Ratio Lower Upper  
113 100  
111 104.0 81.1 121.7  
192 18.0 14.6 21.8



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

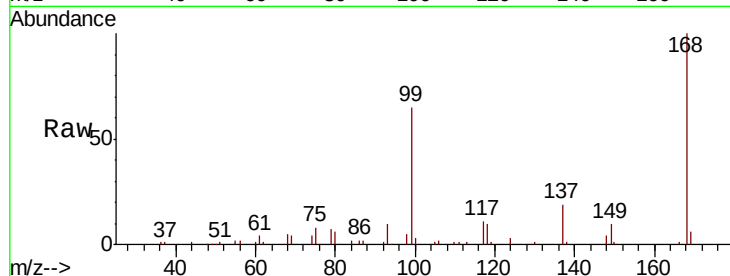




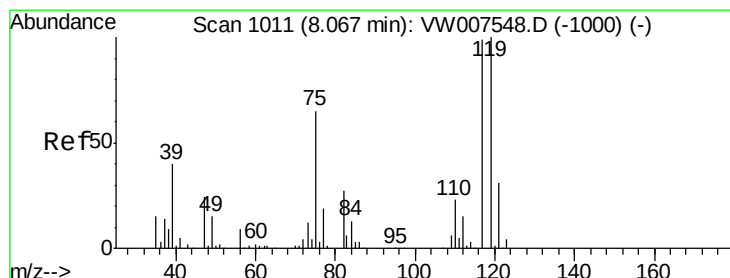
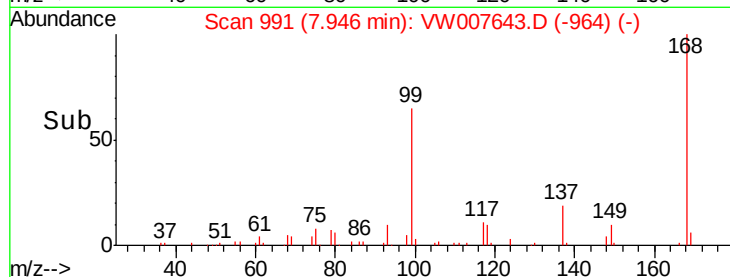
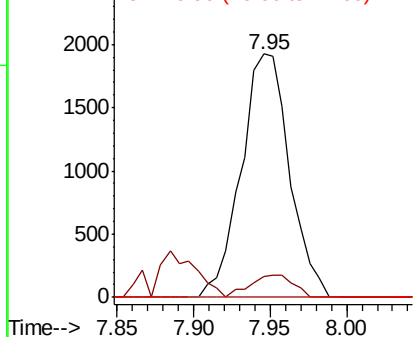
#36  
 1,1-Dichloropropene  
 Concen: 5.042 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW007643.D  
 Acq: 17 Dec 2018 20:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.2   | 18.5  | 55.5# |
| 77      | 0.0   | 25.6  | 38.4# |

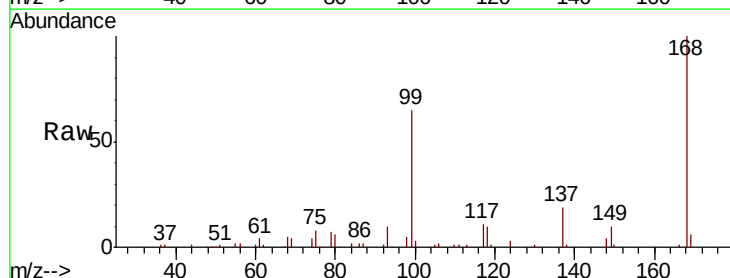


Abundance Ion 74.90 (74.60 to 75.60): VW  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VW

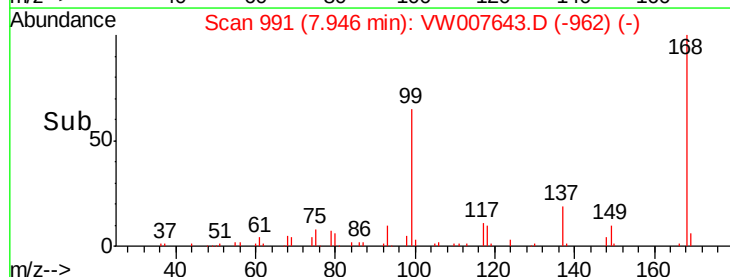
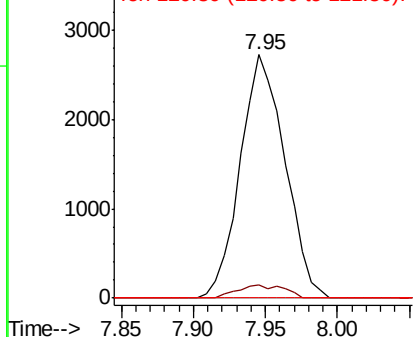


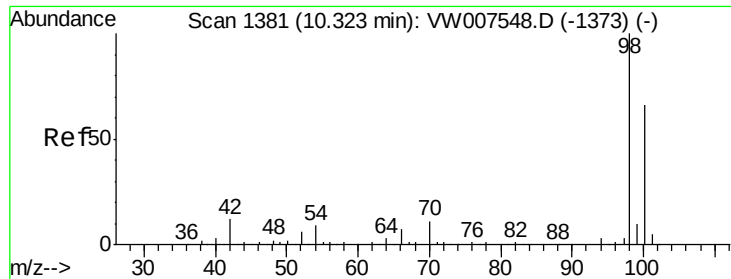
#38  
 Carbon Tetrachloride  
 Concen: 6.419 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW007643.D  
 Acq: 17 Dec 2018 20:16

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.6   | 74.3  | 111.5# |
| 121     | 0.0   | 24.3  | 36.5#  |



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

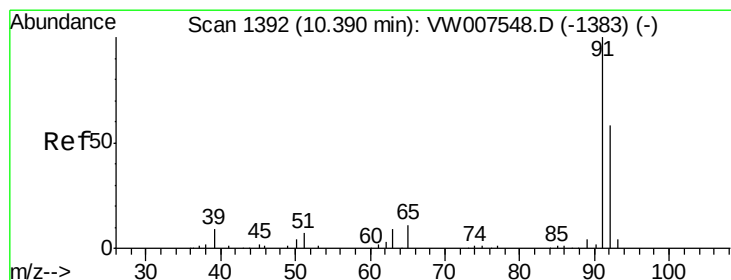
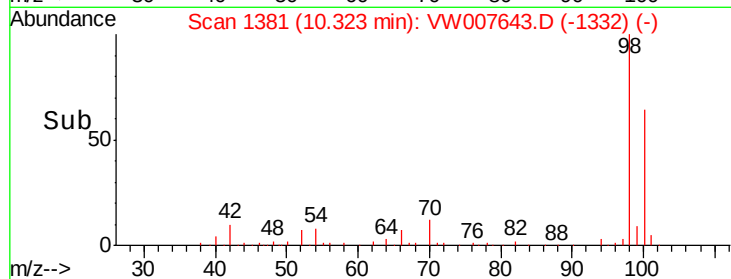
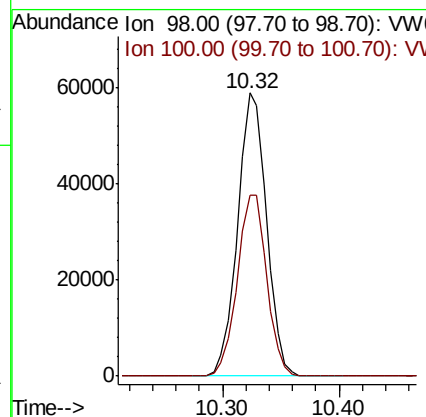
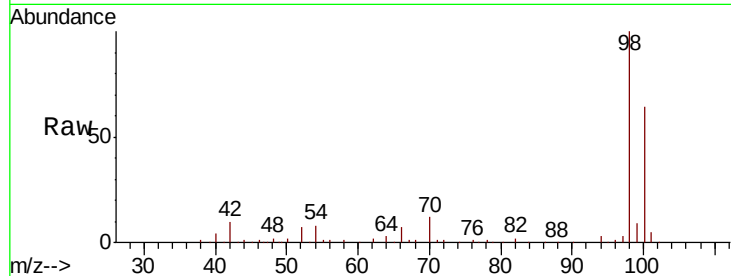




#50  
Toluene-d8  
Concen: 48.905 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW007643.D  
Acq: 17 Dec 2018 20:16

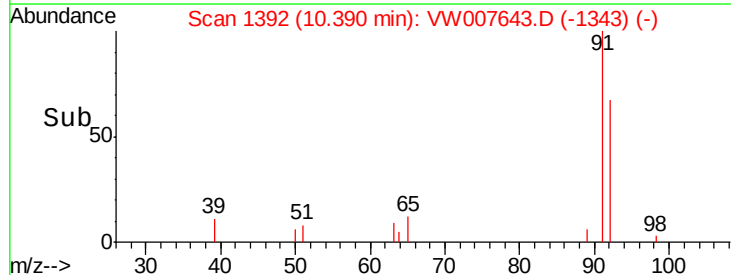
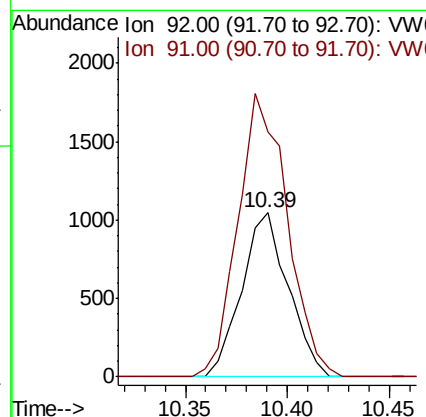
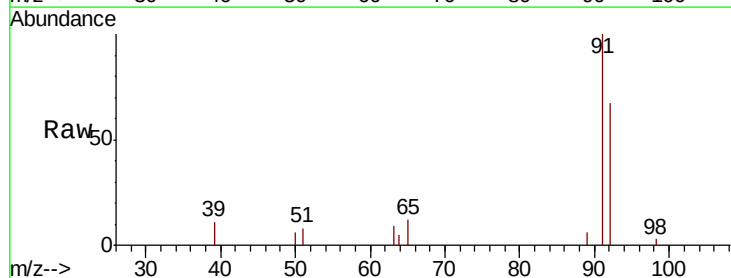
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 98 Resp: 102062  
Ion Ratio Lower Upper  
98 100  
100 65.3 51.8 77.8

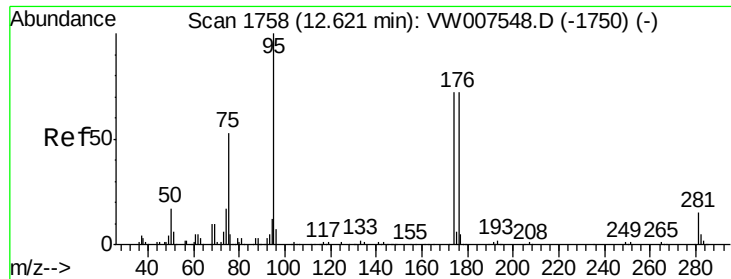


#52  
Toluene  
Concen: 1.102 ug/l  
RT: 10.39 min Scan# 1392  
Delta R.T. 0.00 min  
Lab File: VW007643.D  
Acq: 17 Dec 2018 20:16

Tgt Ion: 92 Resp: 1660  
Ion Ratio Lower Upper  
92 100  
91 182.5 136.2 204.2



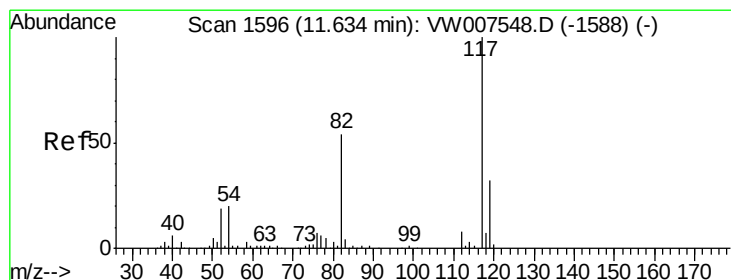
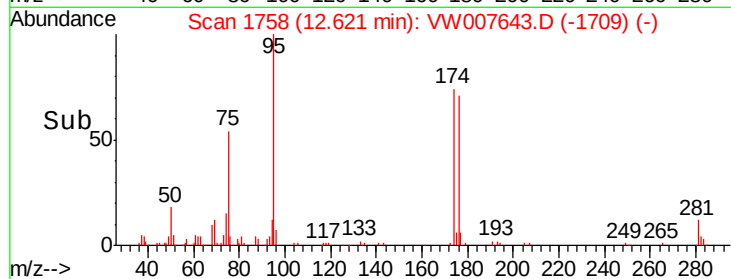
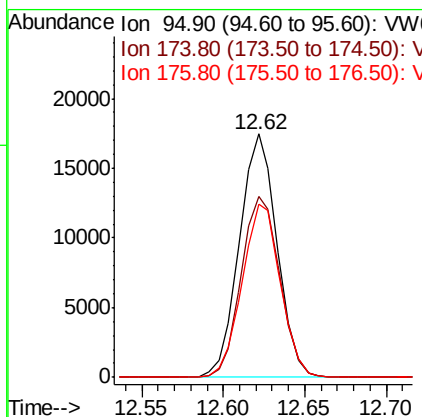
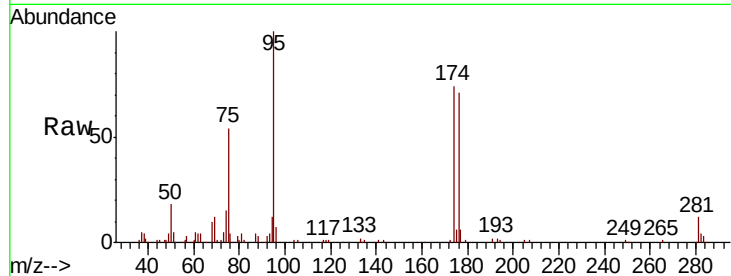




#62  
4-Bromofluorobenzene  
Concen: 36.488 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW007643.D  
Acq: 17 Dec 2018 20:16

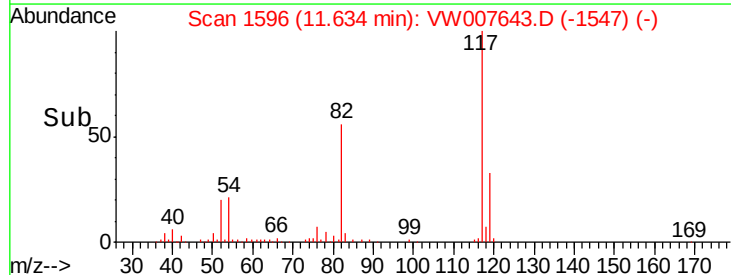
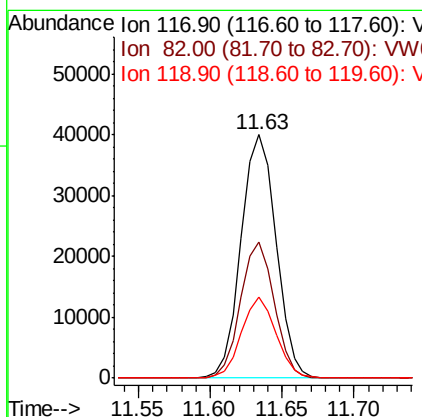
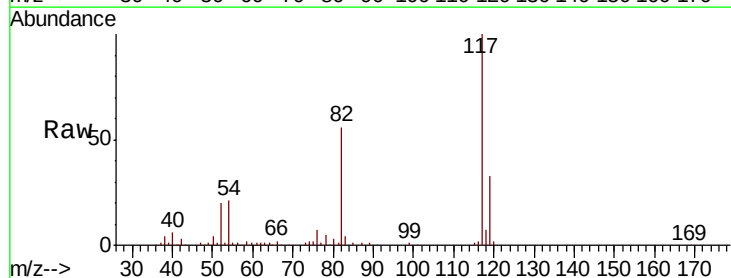
Instrument :  
MSVOA\_W  
ClientSampleId :

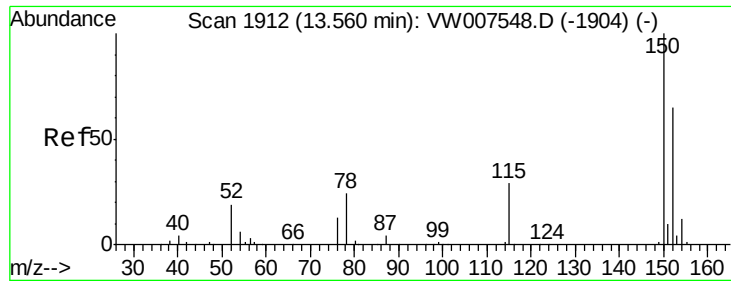
Tot Ion: 95 Resp: 27998  
Ion Ratio Lower Upper  
95 100  
174 76.1 0.0 147.2  
176 72.3 0.0 138.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW007643.D  
Acq: 17 Dec 2018 20:16

Tgt Ion: 117 Resp: 67566  
Ion Ratio Lower Upper  
117 100  
82 56.1 42.3 63.5  
119 32.8 23.0 34.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW007643.D

Acq: 17 Dec 2018 20:16

Instrument :

MSVOA\_W

ClientSampleId :

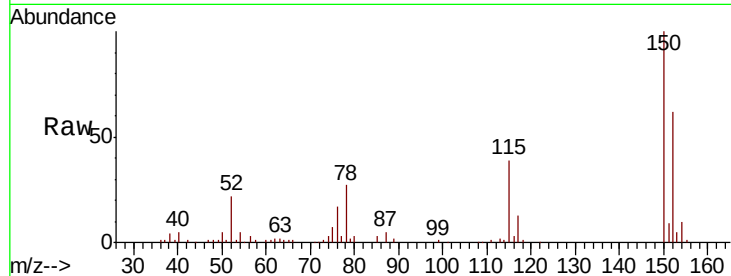
Tot Ion:152 Resp: 21774

Ion Ratio Lower Upper

152 100

115 61.1 31.4 94.2

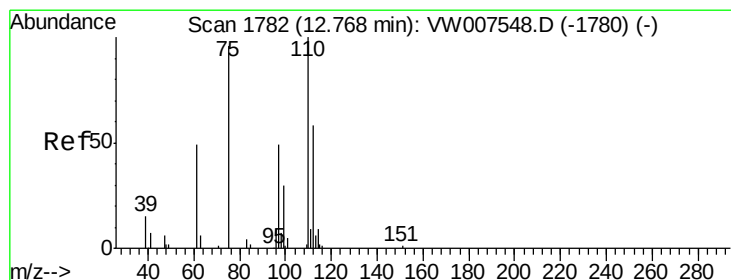
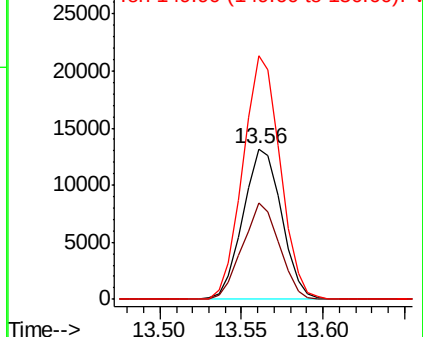
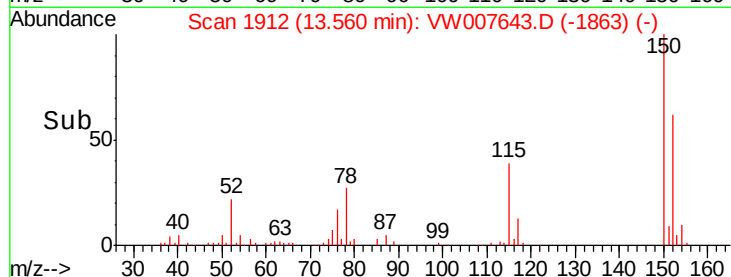
150 156.2 0.0 358.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 79.317 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007643.D

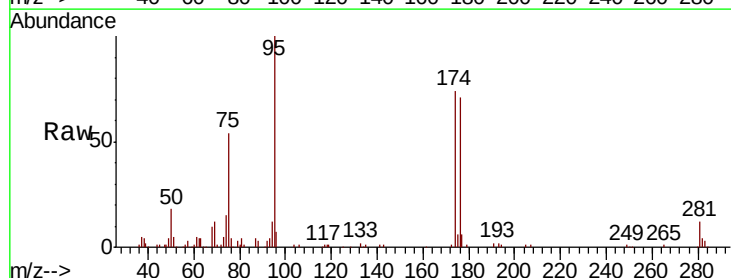
Acq: 17 Dec 2018 20:16

Tgt Ion: 75 Resp: 14240

Ion Ratio Lower Upper

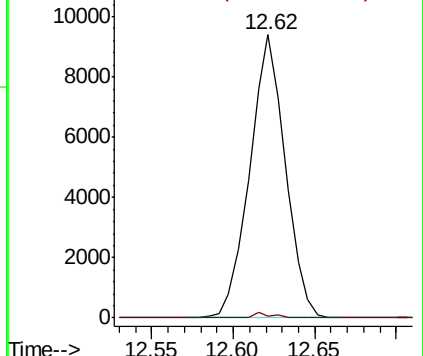
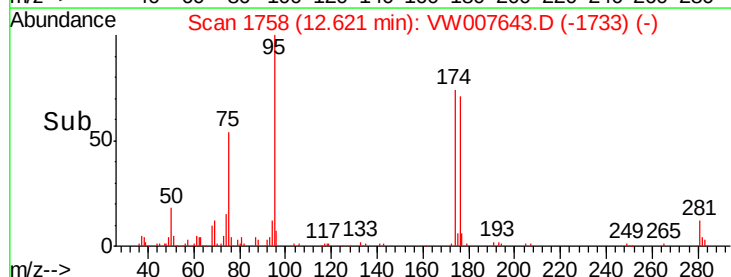
75 100

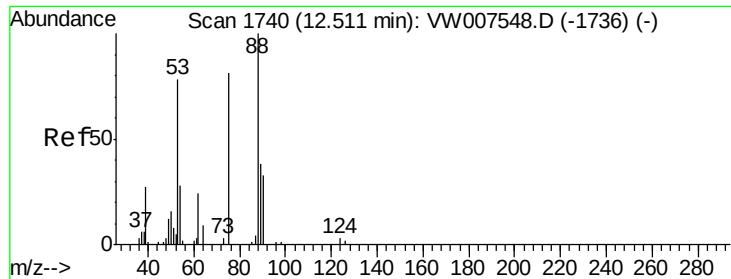
77 0.8 166.9 500.8#



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: 175.212 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.10 min  
 Lab File: VW007643.D  
 Acq: 17 Dec 2018 20:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 75 Resp: 14240  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 84.9 127.3#  
 89 0.0 40.3 60.5#

