

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW110318\  
 Data File : VW006596.D  
 Acq On : 02 Nov 2018 08:55  
 Operator : SY/AP  
 Sample : J5759-13RE  
 Misc : 4.99G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-4RE

Quant Time: Nov 02 11:41:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W110218S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 01 03:48:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 225981   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 356338   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 298780   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 122387   | 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   | 95208    | 49.01 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.02% |          |
| 35) Dibromofluoromethane    | 7.96  | 113  | 428      | 0.19  | ug/l   | 0.07     |
| Spiked Amount               |       |      | Recovery | =     | 0.38%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 317473   | 37.29 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 74.58% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 94509    | 30.62 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 61.24% |          |

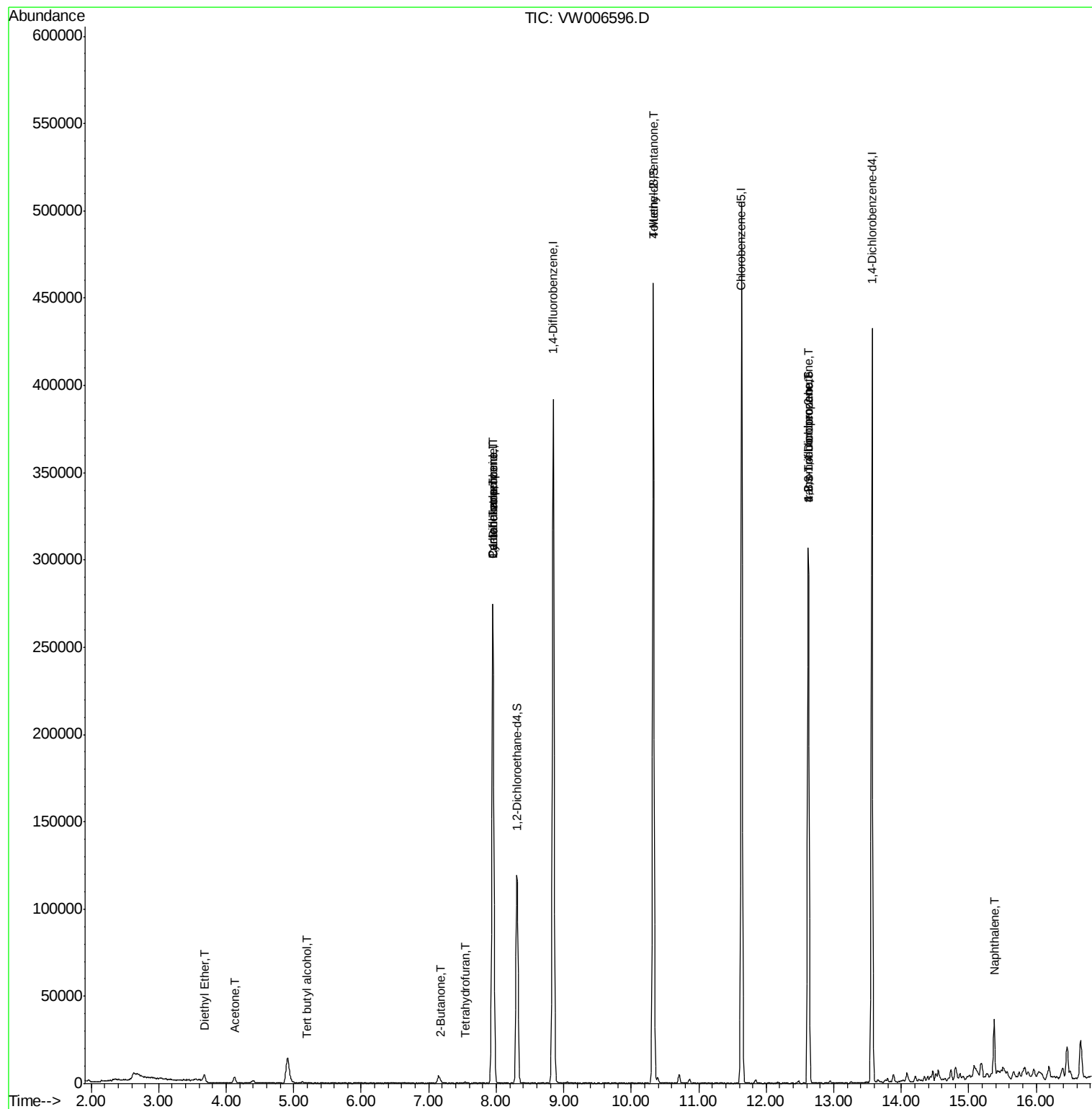
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 8) Diethyl Ether               | 3.67  | 74   | 2300     | 2.35   | ug/l   | 80     |
| 11) Tert butyl alcohol         | 5.19  | 59   | 149      | 1.42   | ug/l # | 84     |
| 16) Acetone                    | 4.12  | 43   | 5906     | 18.83  | ug/l   | 100    |
| 25) 2-Butanone                 | 7.18  | 43   | 651      | 1.45   | ug/l # | 46     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 361      | 1.28   | ug/l # | 47     |
| 31) Cyclohexane                | 7.95  | 56   | 3850     | 1.24   | ug/l # | 4      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 14395    | 4.59   | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 19592    | 5.98   | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 10.32 | 43   | 1221     | 1.10   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 46525    | 48.72  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 46525    | 122.12 | ug/l # | 11     |
| 95) Naphthalene                | 15.38 | 128  | 28744    | 6.50   | ug/l   | 98     |

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

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QLast Update : Thu Nov 01 03:48:08 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006596.D

Acq: 02 Nov 2018 08:55

Instrument :

MSVOA\_W

ClientSampleId :

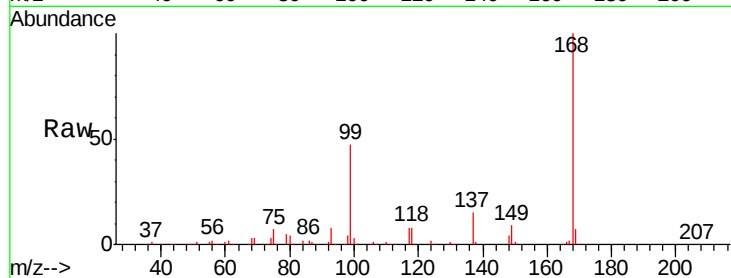
TP-4RE

Tgt Ion:168 Resp: 225981

Ion Ratio Lower Upper

168 100

99 46.7 37.4 56.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

60000

40000

20000

0

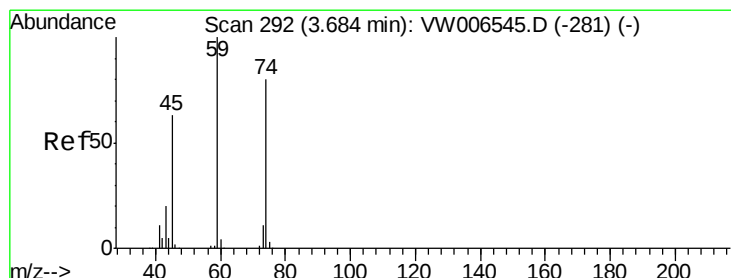
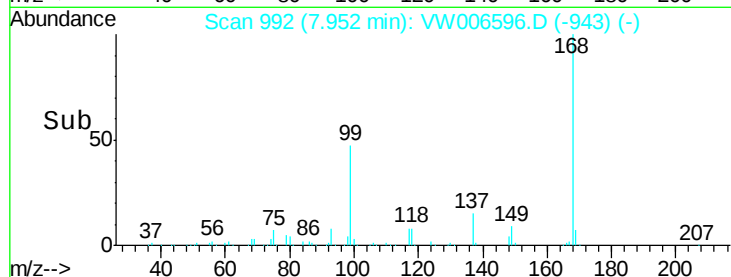
Time-->

7.80

7.90

8.00

8.10



#8

Diethyl Ether

Concen: 2.35 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW006596.D

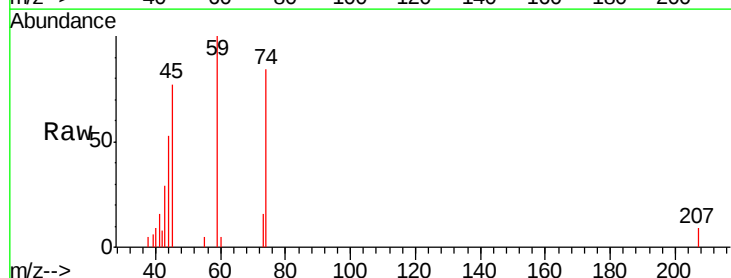
Acq: 02 Nov 2018 08:55

Tgt Ion: 74 Resp: 2300

Ion Ratio Lower Upper

74 100

45 100.5 41.1 123.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

1000

800

600

400

200

0

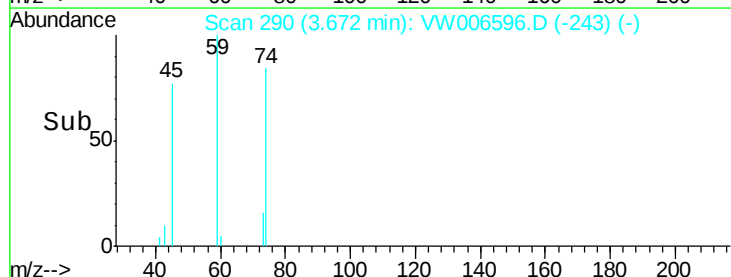
Time-->

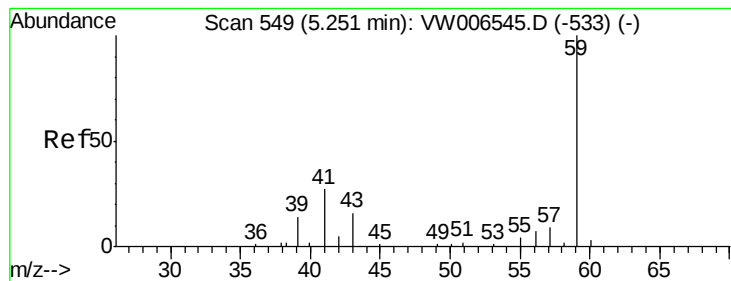
3.60

3.65

3.70

3.75



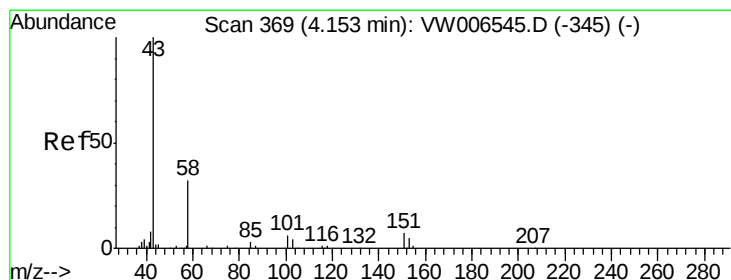
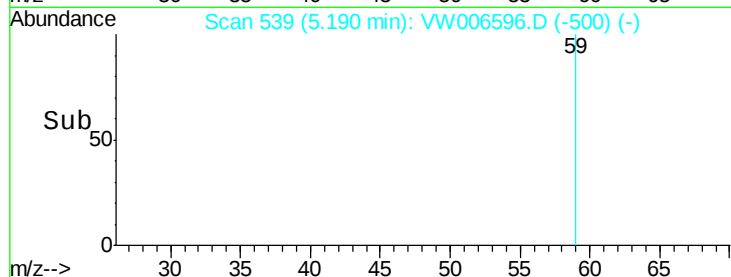
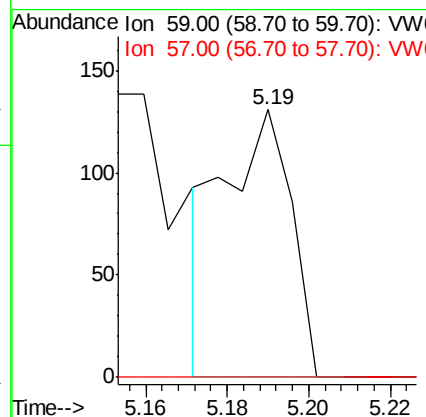
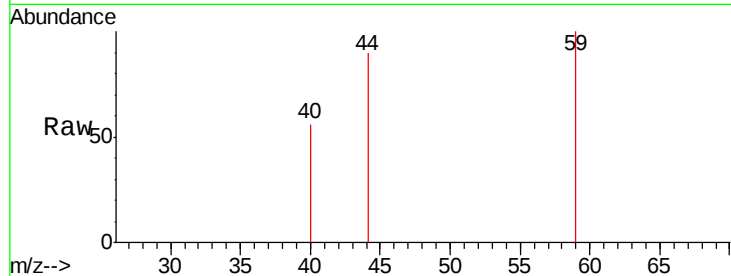


#11

Tert butyl alcohol  
 Concen: 1.42 ug/l  
 RT: 5.19 min Scan# 539  
 Delta R.T. -0.06 min  
 Lab File: VW006596.D  
 Acq: 02 Nov 2018 08:55

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 TP-4RE

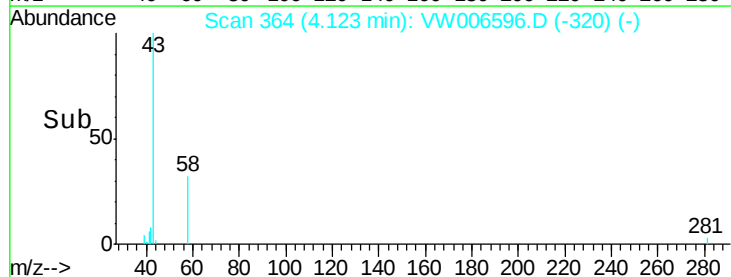
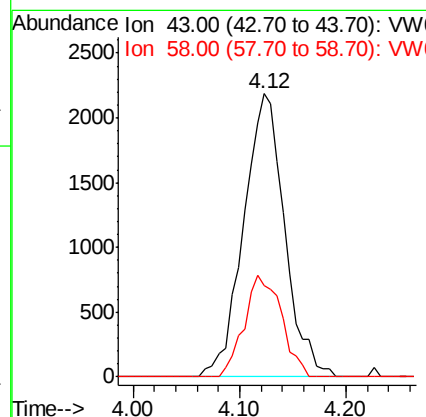
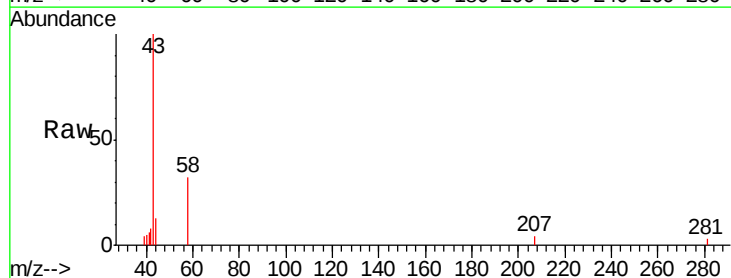
Tgt Ion: 59 Resp: 149  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 4.3 6.5#

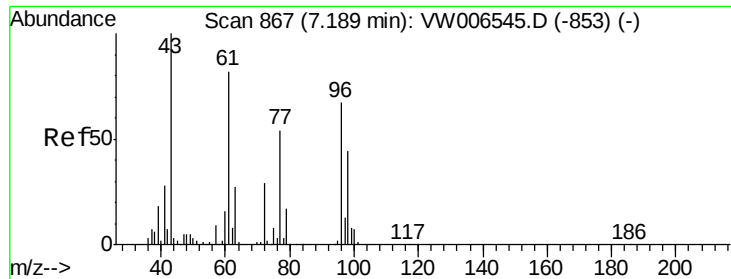


#16

Acetone  
 Concen: 18.83 ug/l  
 RT: 4.12 min Scan# 364  
 Delta R.T. -0.03 min  
 Lab File: VW006596.D  
 Acq: 02 Nov 2018 08:55

Tgt Ion: 43 Resp: 5906  
 Ion Ratio Lower Upper  
 43 100  
 58 32.2 25.8 38.8

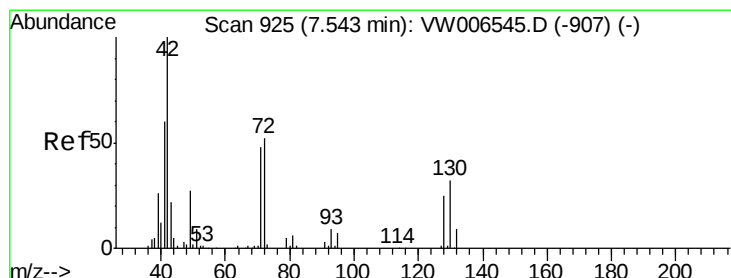
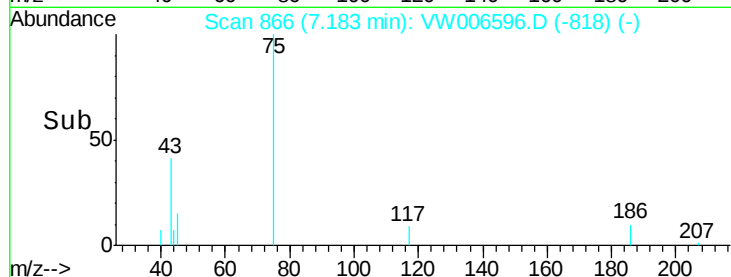
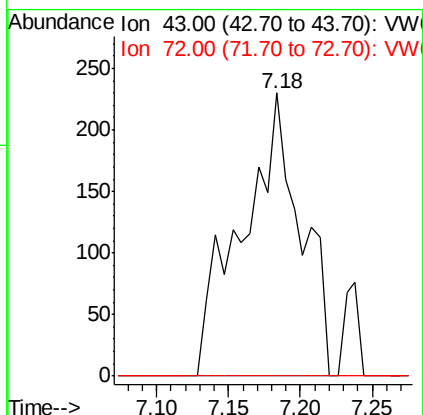
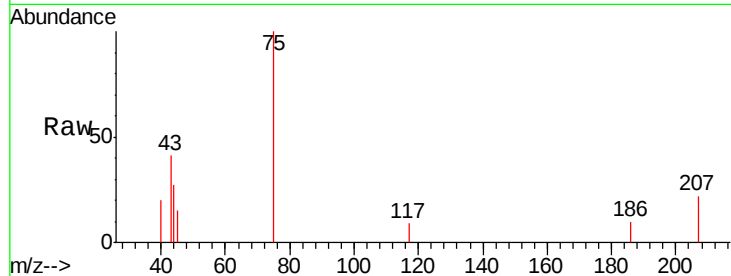




#25  
2-Butanone  
Concen: 1.45 ug/l  
RT: 7.18 min Scan# 866  
Delta R.T. -0.01 min  
Lab File: VW006596.D  
Acq: 02 Nov 2018 08:55

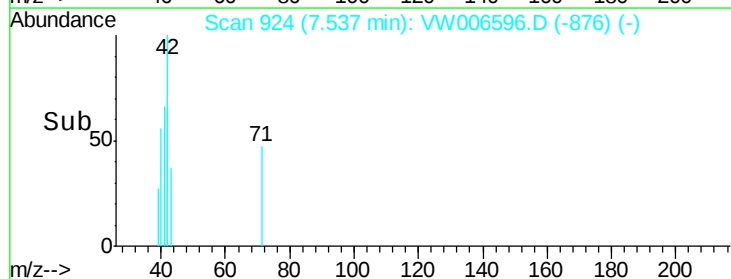
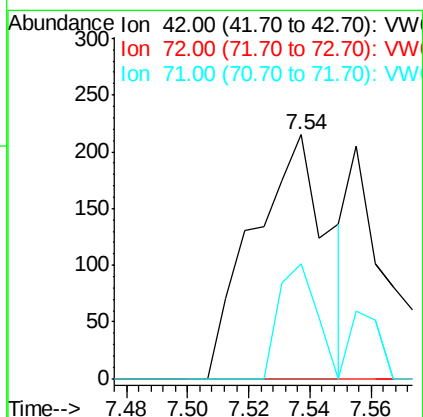
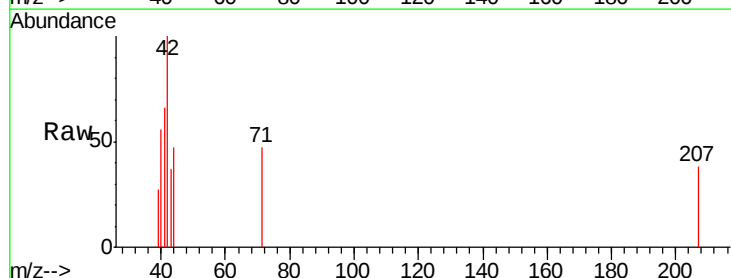
Instrument :  
MSVOA\_W  
ClientSampled :  
TP-4RE

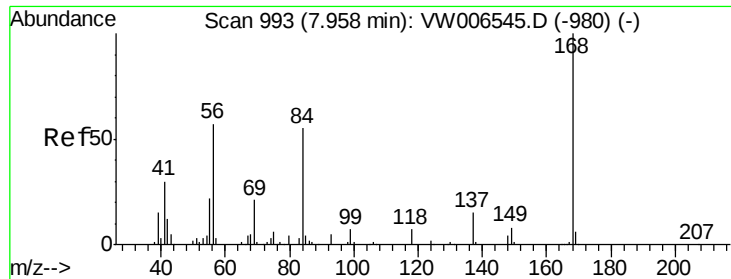
Tgt Ion: 43 Resp: 651  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.2 34.8#



#29  
Tetrahydrofuran  
Concen: 1.28 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. -0.01 min  
Lab File: VW006596.D  
Acq: 02 Nov 2018 08:55

Tgt Ion: 42 Resp: 361  
Ion Ratio Lower Upper  
42 100  
72 0.0 39.2 58.8#  
71 24.1 37.6 56.4#

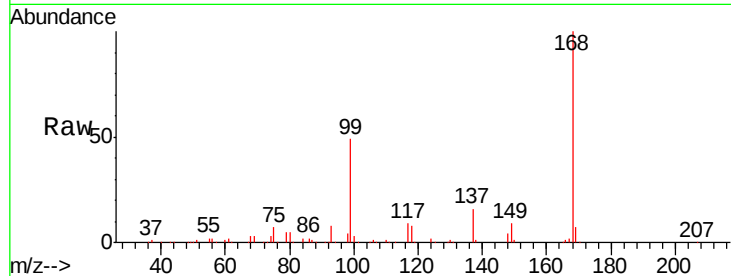




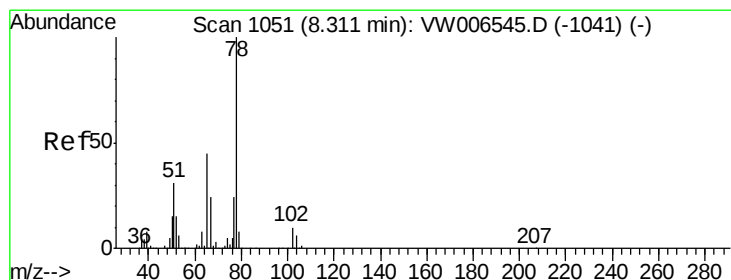
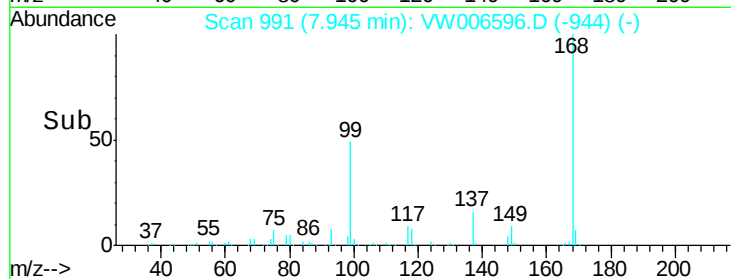
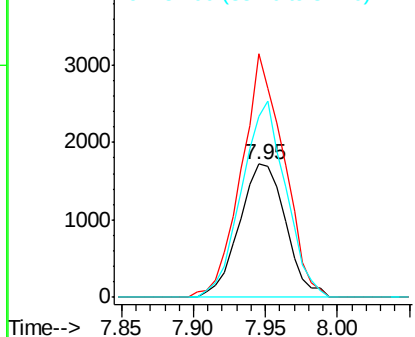
#31  
Cyclohexane  
Concen: 1.24 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW006596.D  
Acq: 02 Nov 2018 08:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-4RE

Tgt Ion: 56 Resp: 3850  
Ion Ratio Lower Upper  
56 100  
69 183.0 29.0 43.4#  
84 135.9 77.8 116.6#

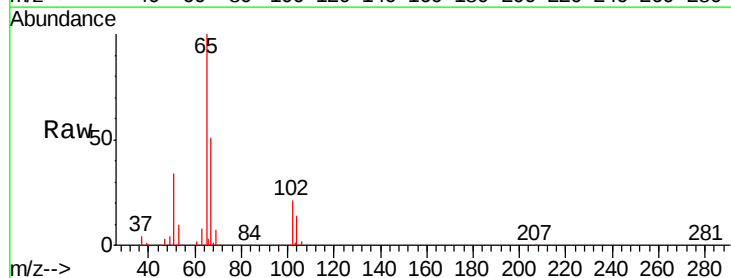


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

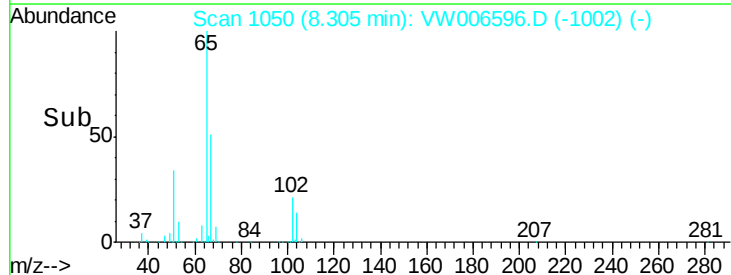
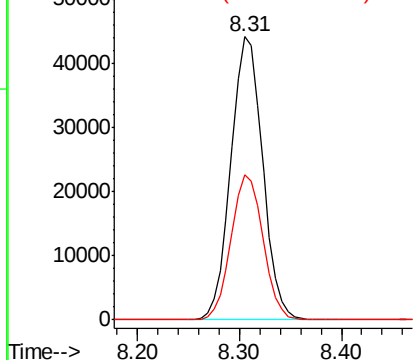


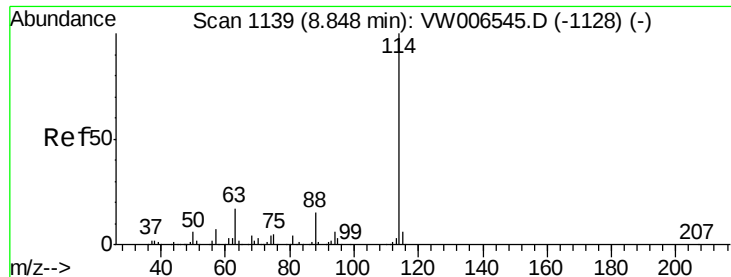
#33  
1,2-Dichloroethane-d4  
Concen: 49.01 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. -0.01 min  
Lab File: VW006596.D  
Acq: 02 Nov 2018 08:55

Tgt Ion: 65 Resp: 95208  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 104.4



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

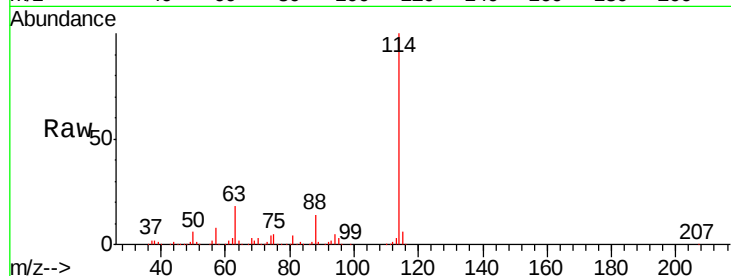




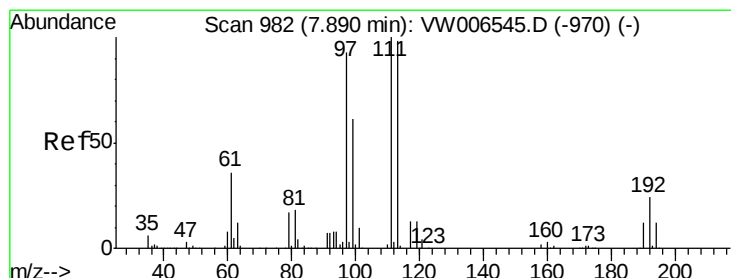
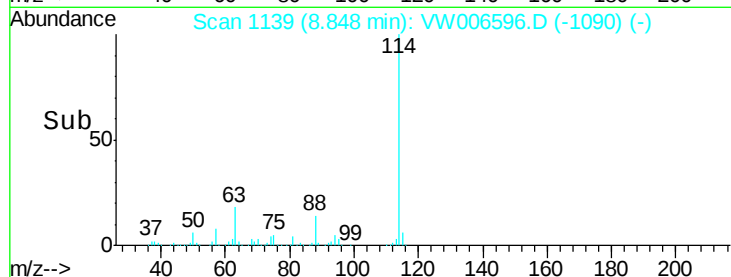
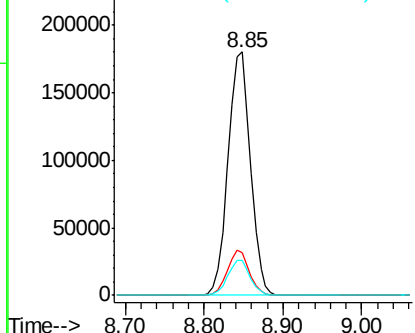
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW006596.D  
 Acq: 02 Nov 2018 08:55

Instrument :  
 MSVOA\_W  
 ClientSampleID :  
 TP-4RE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 17.6  | 0.0   | 34.4  |
| 88      | 14.5  | 0.0   | 29.0  |

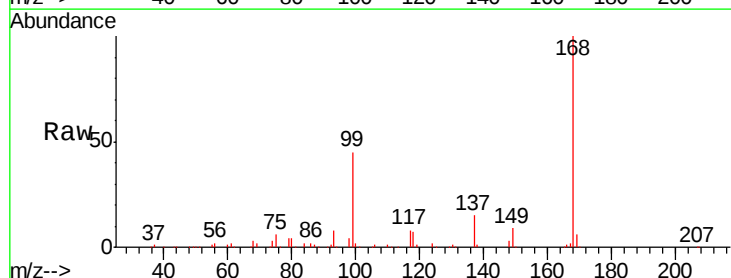


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

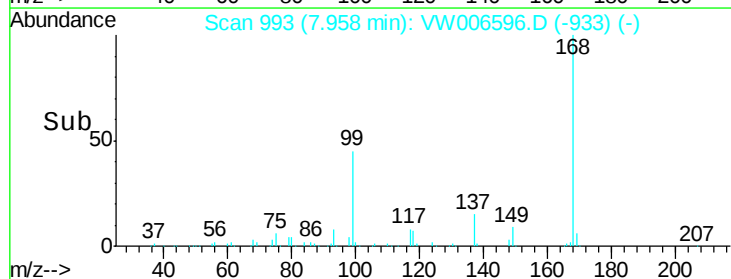
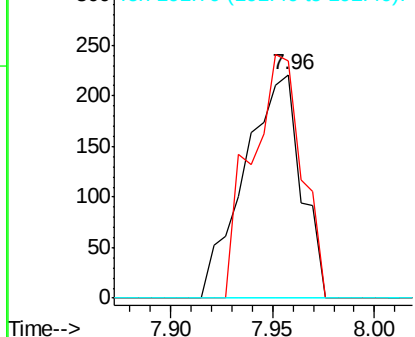


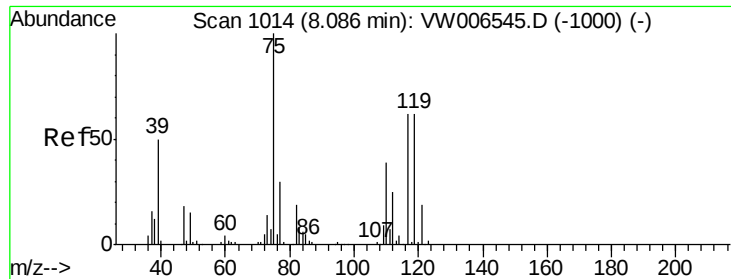
#35  
 Dibromofluoromethane  
 Concen: 0.19 ug/l  
 RT: 7.96 min Scan# 993  
 Delta R.T. 0.07 min  
 Lab File: VW006596.D  
 Acq: 02 Nov 2018 08:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 97.0  | 82.2  | 123.2 |
| 192     | 0.0   | 19.0  | 28.6# |



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

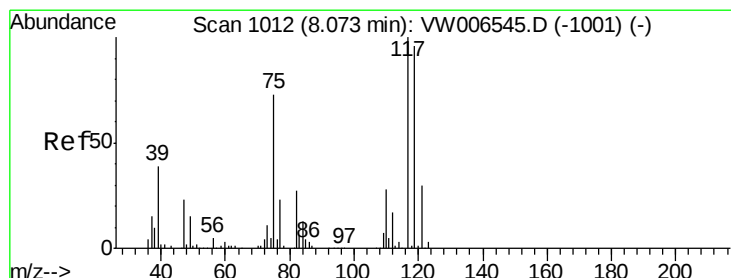
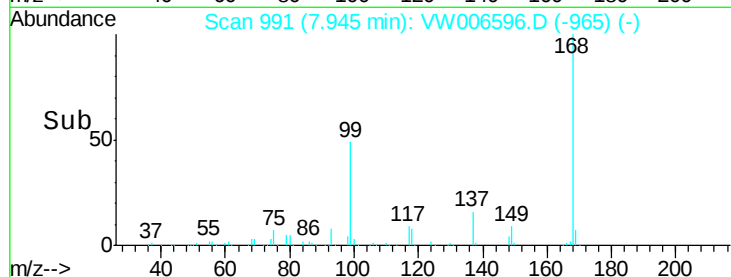
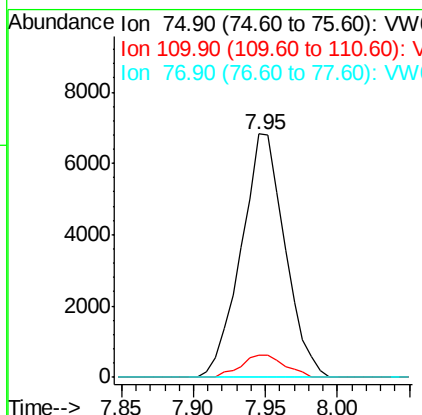
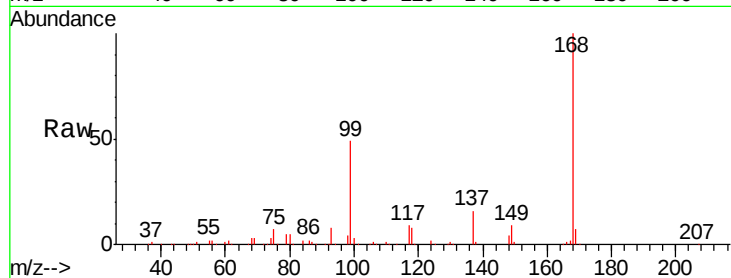




#36  
 1,1-Dichloropropene  
 Concen: 4.59 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.14 min  
 Lab File: VW006596.D  
 Acq: 02 Nov 2018 08:55

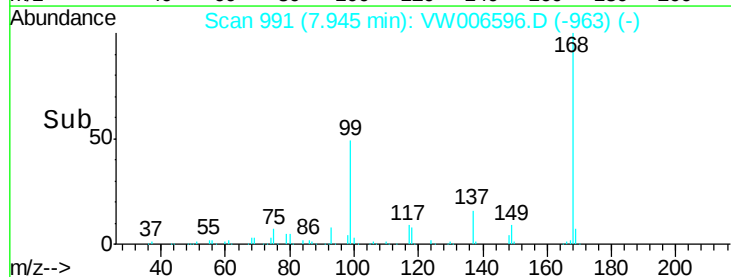
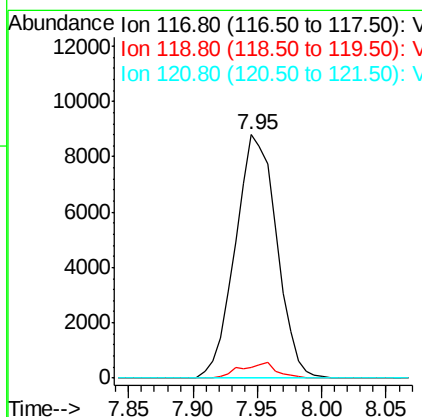
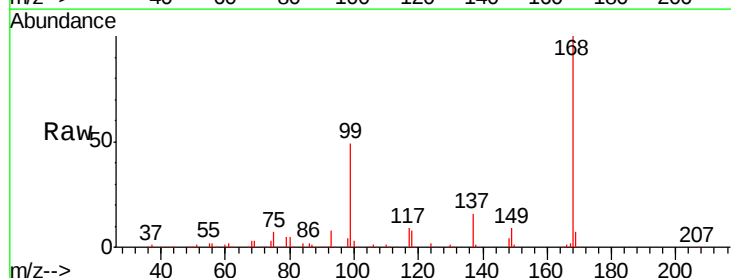
Instrument :  
 MSVOA\_W  
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 TP-4RE

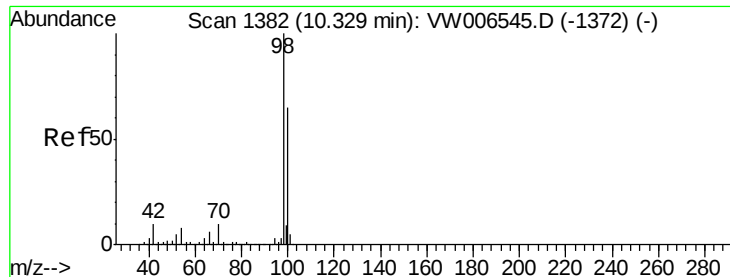
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.1   | 19.5  | 58.5# |
| 77      | 0.0   | 24.6  | 37.0# |



#38  
 Carbon Tetrachloride  
 Concen: 5.98 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW006596.D  
 Acq: 02 Nov 2018 08:55

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.2   | 76.3  | 114.5# |
| 121     | 0.0   | 24.1  | 36.1#  |





#50

Toluene-d8

Concen: 37.29 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.01 min

Lab File: VW006596.D

Acq: 02 Nov 2018 08:55

Instrument :

MSVOA\_W

ClientSampleId :

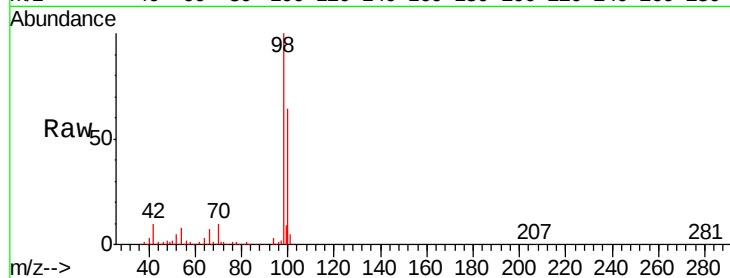
TP-4RE

Tgt Ion: 98 Resp: 317473

Ion Ratio Lower Upper

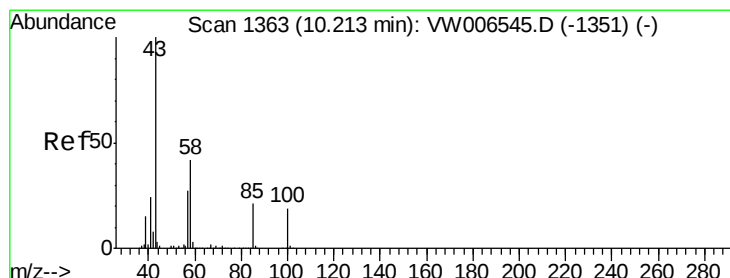
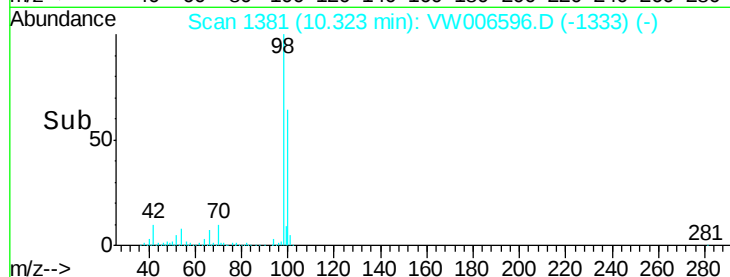
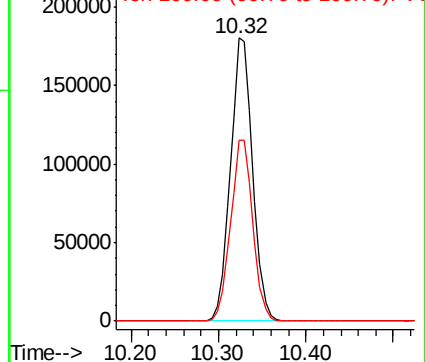
98 100

100 64.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 1.10 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.11 min

Lab File: VW006596.D

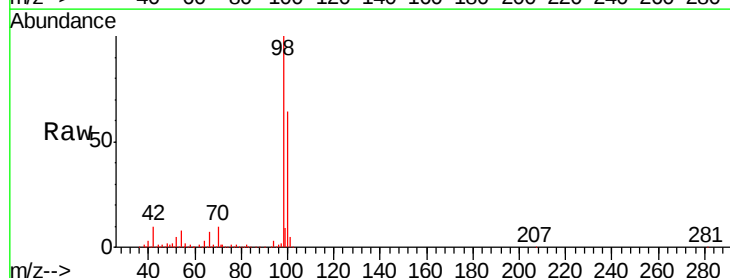
Acq: 02 Nov 2018 08:55

Tgt Ion: 43 Resp: 1221

Ion Ratio Lower Upper

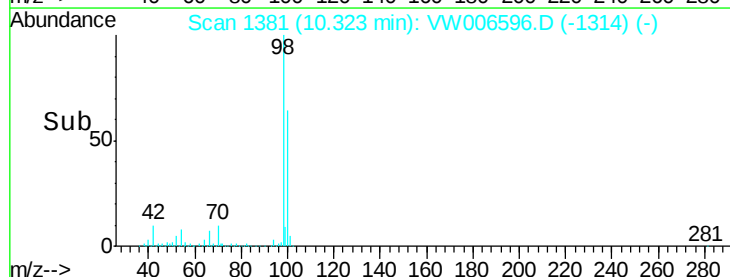
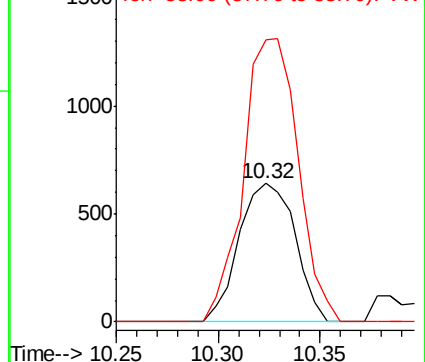
43 100

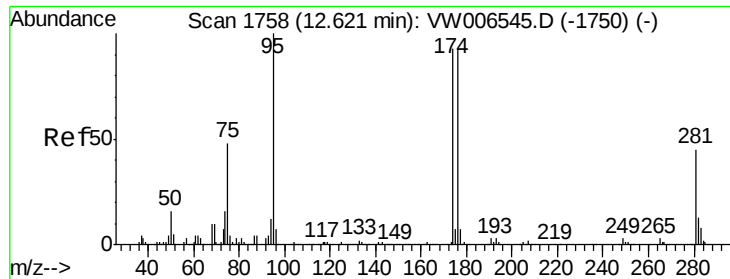
58 199.8 33.4 50.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

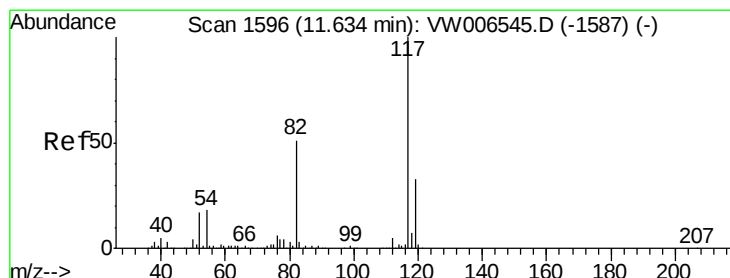
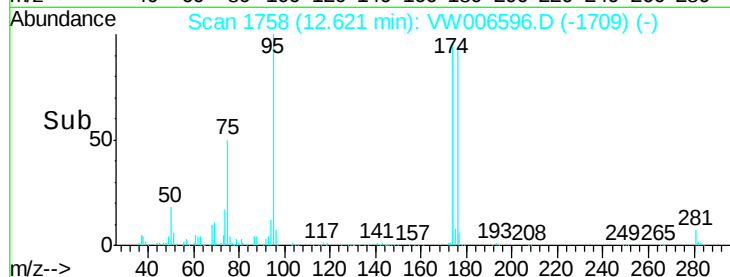
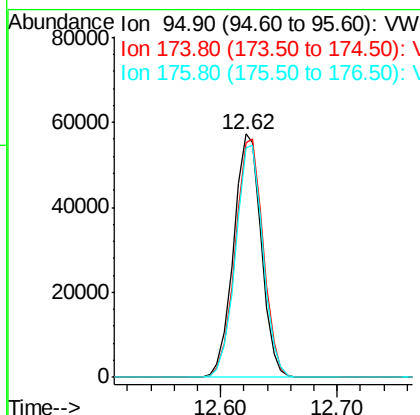
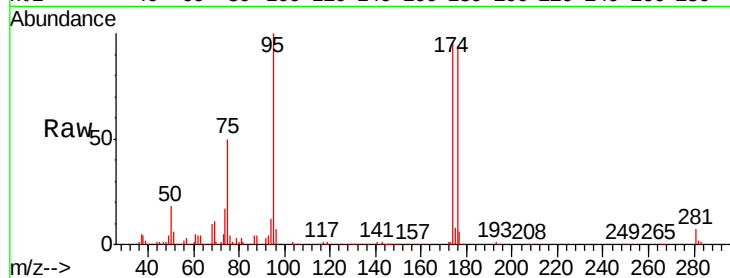




#62  
4-Bromofluorobenzene  
Concen: 30.62 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW006596.D  
Acq: 02 Nov 2018 08:55

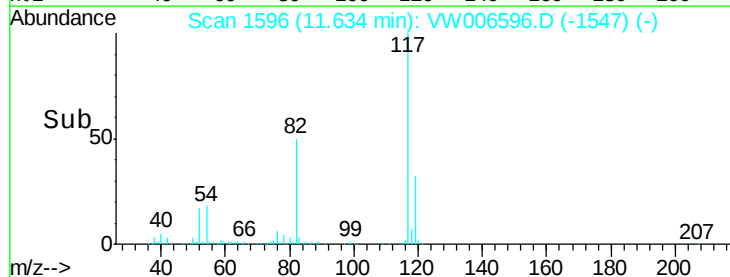
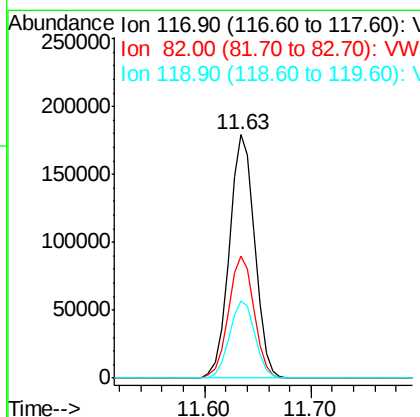
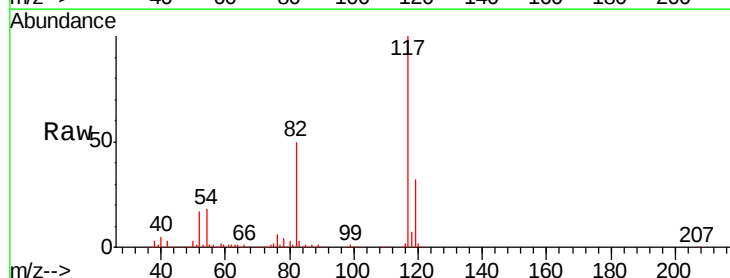
Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-4RE

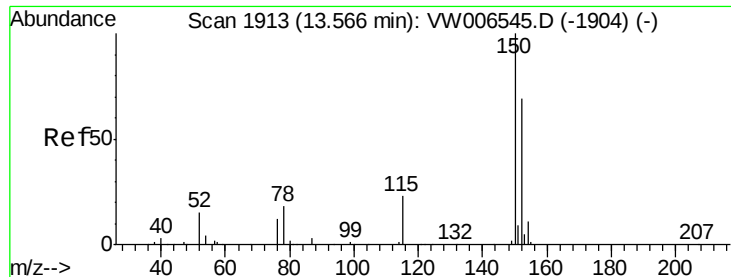
Tgt Ion: 95 Resp: 94509  
Ion Ratio Lower Upper  
95 100  
174 98.8 0.0 192.4  
176 94.4 0.0 187.4



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW006596.D  
Acq: 02 Nov 2018 08:55

Tgt Ion: 117 Resp: 298780  
Ion Ratio Lower Upper  
117 100  
82 50.0 40.8 61.2  
119 31.6 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW006596.D

Acq: 02 Nov 2018 08:55

Instrument :

MSVOA\_W

ClientSampleId :

TP-4RE

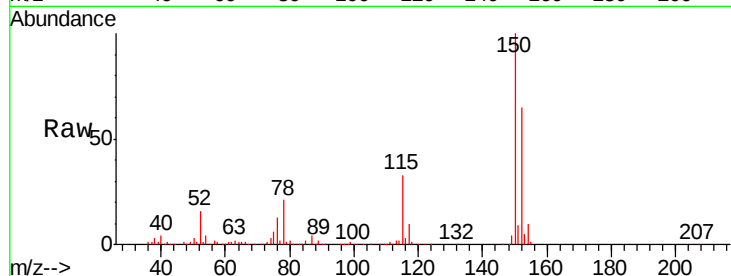
Tgt Ion:152 Resp: 122387

Ion Ratio Lower Upper

152 100

115 53.7 26.6 79.8

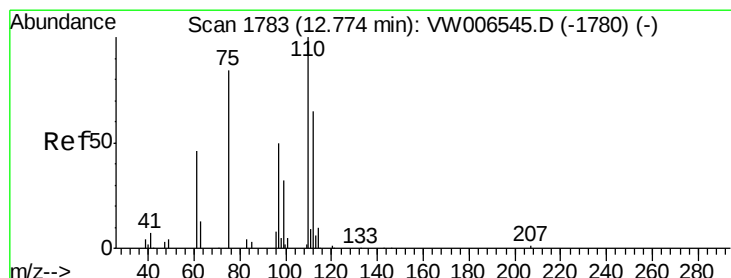
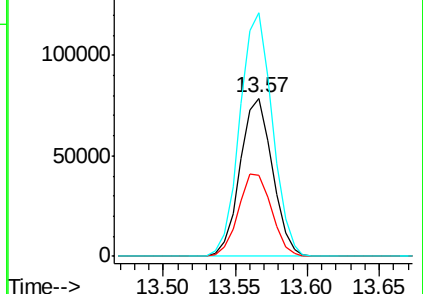
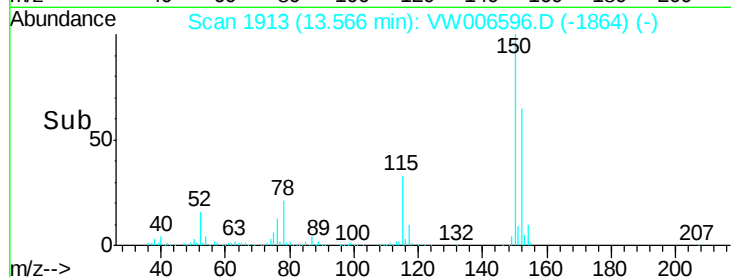
150 155.4 0.0 344.6



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: 48.72 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006596.D

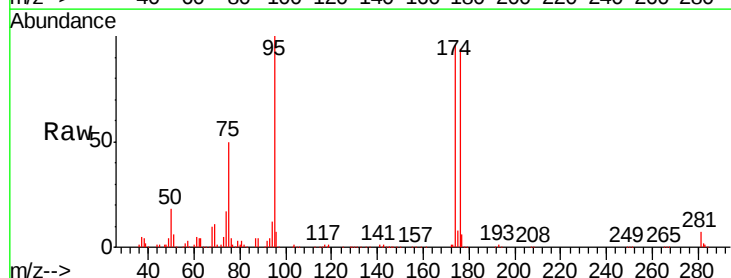
Acq: 02 Nov 2018 08:55

Tgt Ion: 75 Resp: 46525

Ion Ratio Lower Upper

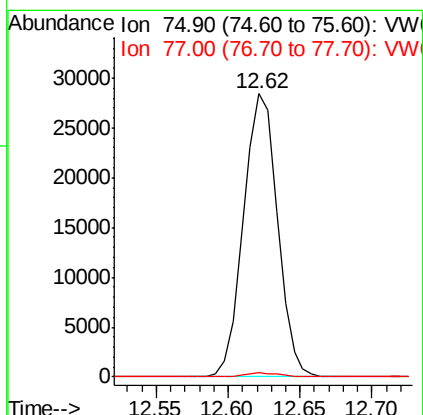
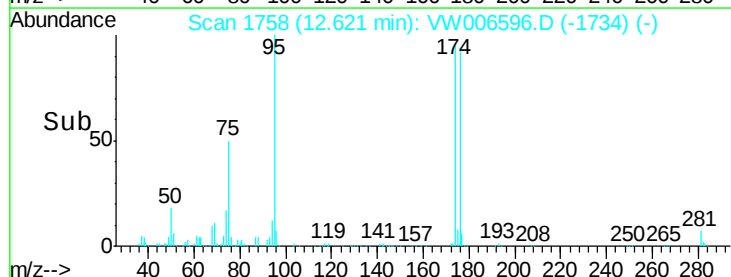
75 100

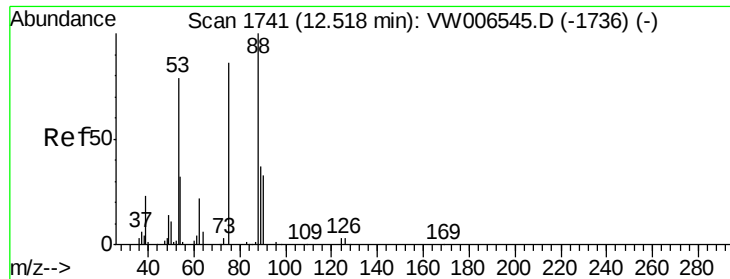
77 1.3 0.0 0.0#



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: 122.12 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006596.D

Acq: 02 Nov 2018 08:55

Instrument :

MSVOA\_W

ClientSampleId :

TP-4RE

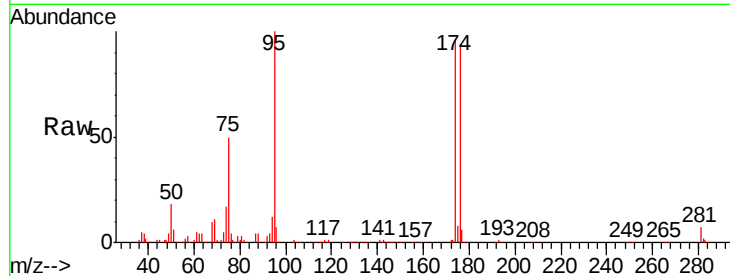
Tgt Ion: 75 Resp: 46525

Ion Ratio Lower Upper

75 100

53 0.0 77.2 115.8#

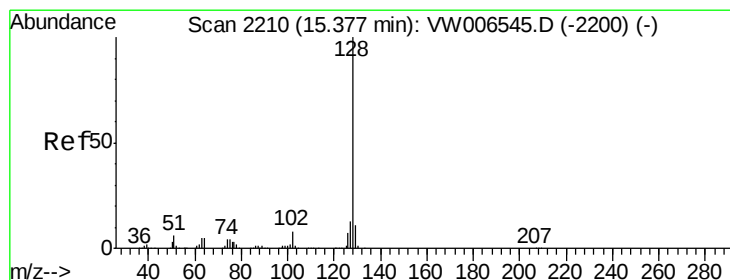
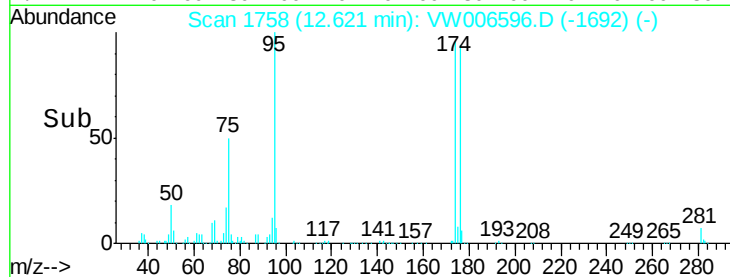
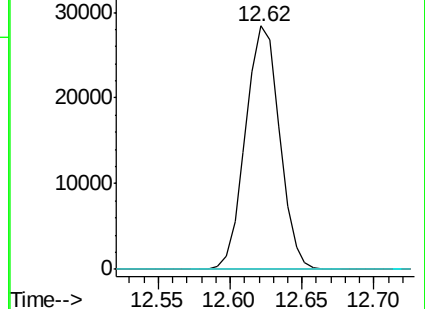
89 0.0 38.6 58.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#95

Naphthalene

Concen: 6.50 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW006596.D

Acq: 02 Nov 2018 08:55

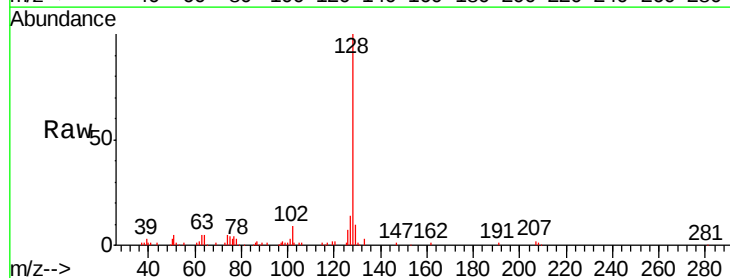
Tgt Ion: 128 Resp: 28744

Ion Ratio Lower Upper

128 100

127 13.7 10.3 15.5

129 11.8 8.7 13.1



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

