

Data File : VW003509.D  
Acq On : 24 Jun 2018 14:39  
Operator : SY/AP  
Sample : J3669-11  
Misc : 7.87G/5ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
WP021SB483-25-27-180620

Quant Time: Jun 24 23:26:14 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  | 178403   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 290240   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 266349   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 128351   | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 106601   | 55.17 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.34% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 90992    | 50.45 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.90% |      |
| 50) Toluene-d8            | 10.33  | 98  | 310594   | 43.43 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 86.86%  |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 109995   | 43.46 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 86.92%  |      |

Target Compounds

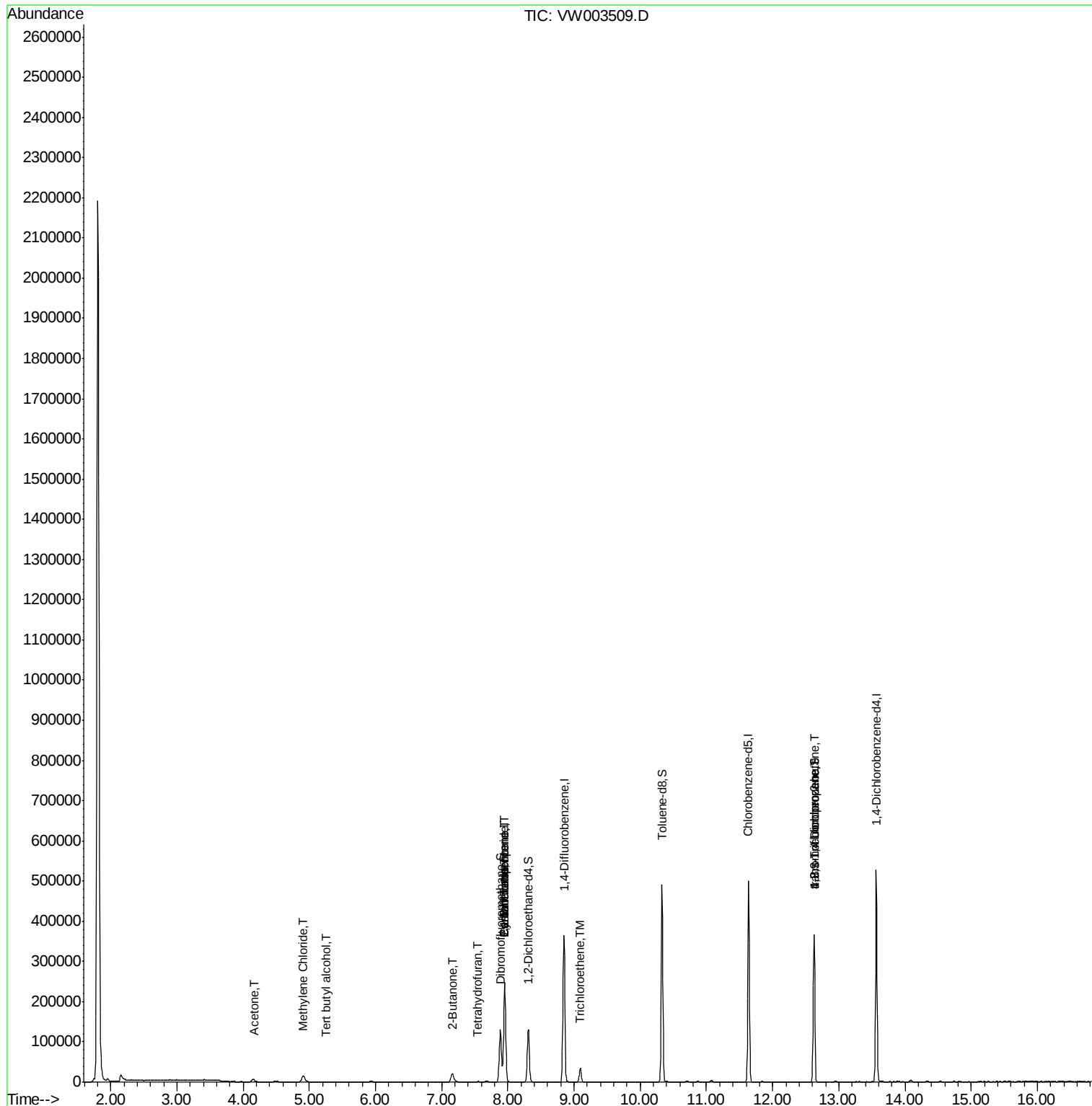
|                                |       |     |       |         |        | Qvalue |
|--------------------------------|-------|-----|-------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.26  | 59  | 131   | 1.264   | ug/l # | 10     |
| 16) Acetone                    | 4.16  | 43  | 12309 | 30.372  | ug/l   | 94     |
| 20) Methylene Chloride         | 4.91  | 84  | 11356 | 3.157   | ug/l   | 90     |
| 25) 2-Butanone                 | 7.17  | 43  | 2195  | 4.356   | ug/l # | 69     |
| 29) Tetrahydrofuran            | 7.54  | 42  | 737   | 2.393   | ug/l # | 55     |
| 31) Cyclohexane                | 7.95  | 56  | 4467  | 1.431   | ug/l # | 12     |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 14920 | 5.323   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 18351 | 6.674   | ug/l # | 17     |
| 44) Trichloroethene            | 9.09  | 130 | 12161 | 5.940   | ug/l   | 95     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75  | 60190 | 54.855  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75  | 60190 | 126.225 | ug/l # | 8      |

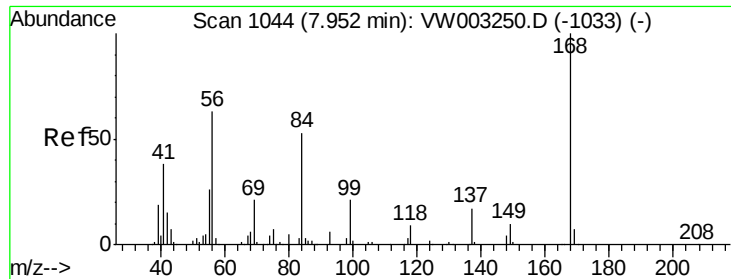
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW003509.D

Acq: 24 Jun 2018 14:39

Instrument :

MSVOA\_W

ClientSampleId :

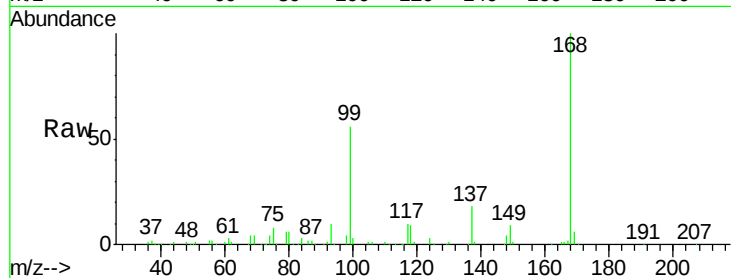
WP021SB483-25-27-180620

Tgt Ion:168 Resp: 178403

Ion Ratio Lower Upper

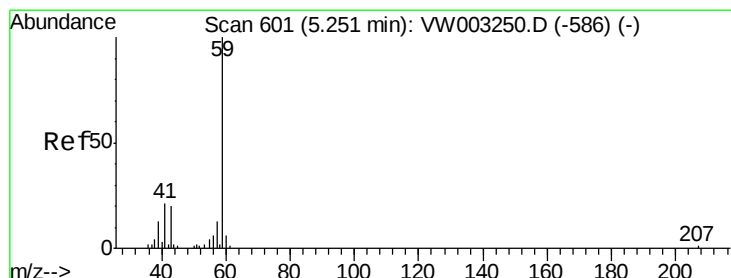
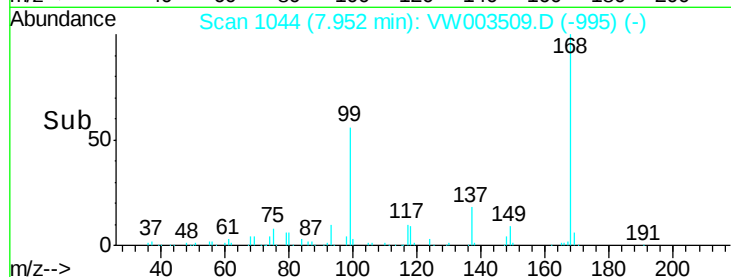
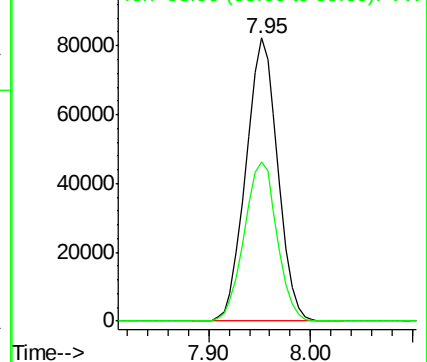
168 100

99 56.4 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.264 ug/l

RT: 5.26 min Scan# 603

Delta R.T. 0.01 min

Lab File: VW003509.D

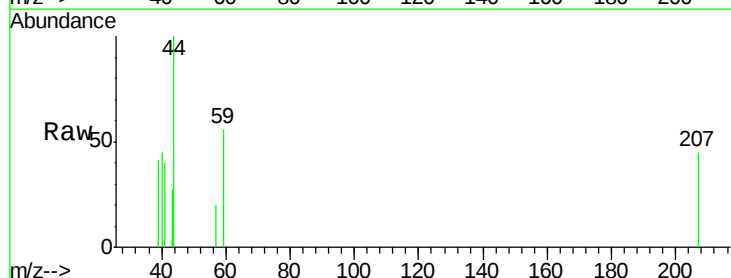
Acq: 24 Jun 2018 14:39

Tgt Ion: 59 Resp: 131

Ion Ratio Lower Upper

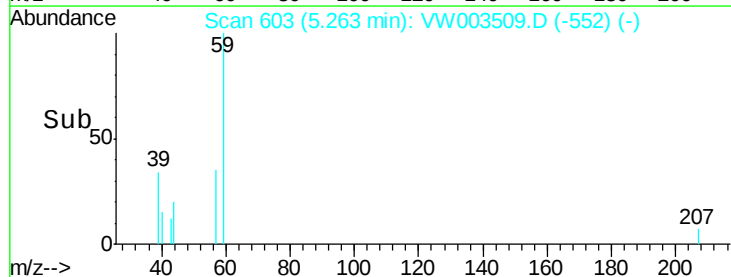
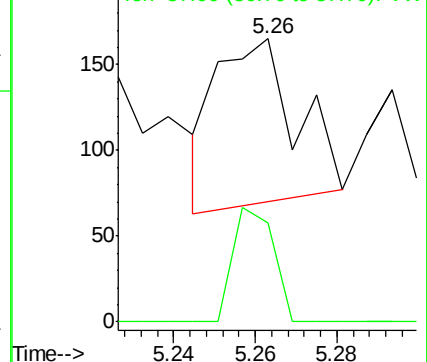
59 100

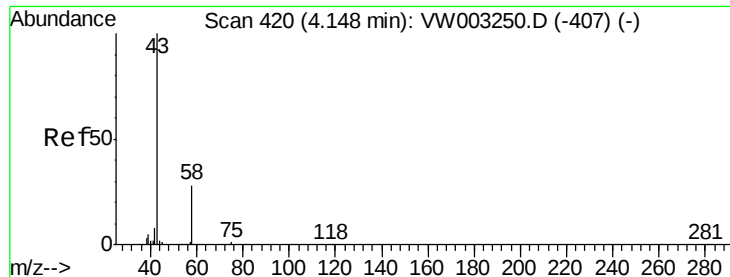
57 35.1 4.2 6.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 30.372 ug/l

RT: 4.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VW003509.D

Acq: 24 Jun 2018 14:39

Instrument :

MSVOA\_W

ClientSampleId :

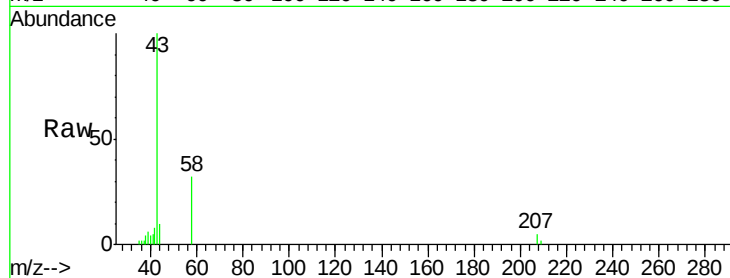
WP021SB483-25-27-180620

Tgt Ion: 43 Resp: 12309

Ion Ratio Lower Upper

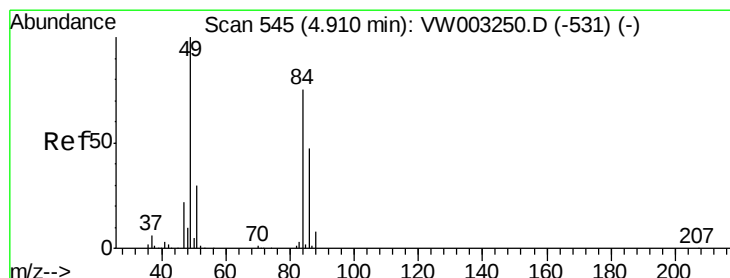
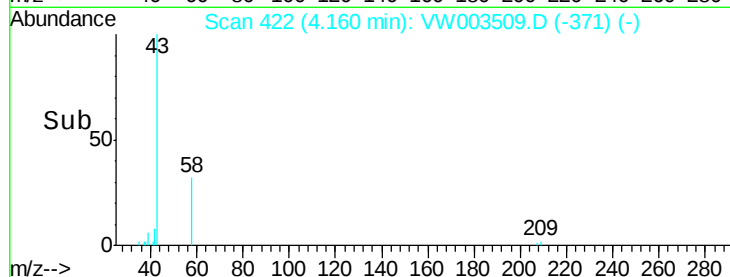
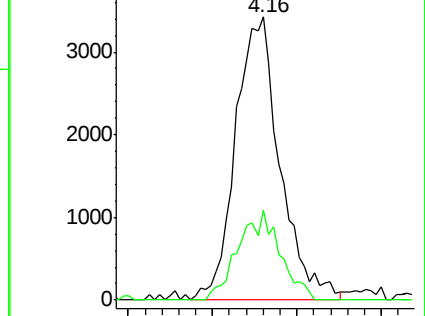
43 100

58 31.7 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 3.157 ug/l

RT: 4.91 min Scan# 545

Delta R.T. 0.00 min

Lab File: VW003509.D

Acq: 24 Jun 2018 14:39

Tgt Ion: 84 Resp: 11356

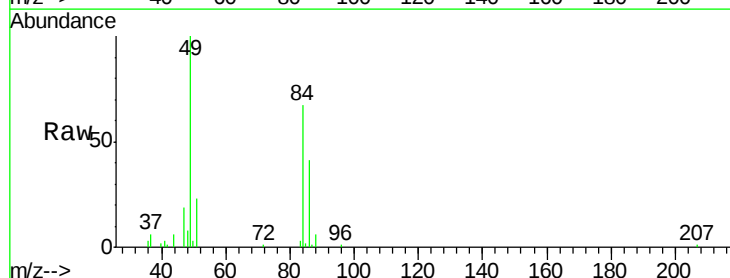
Ion Ratio Lower Upper

84 100

49 148.5 106.3 159.5

51 34.5 32.0 48.0

86 60.6 49.9 74.9

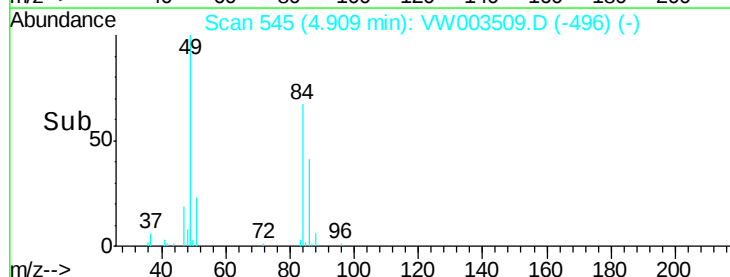
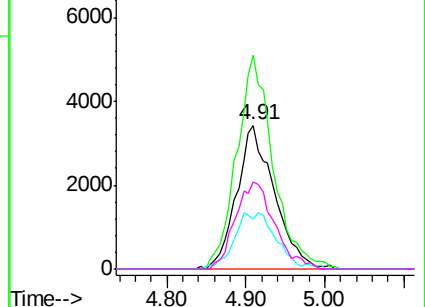


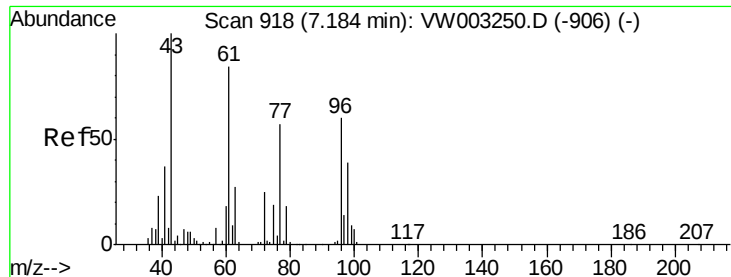
Abundance Ion 83.90 (83.60 to 84.60): VW

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: 4.356 ug/l

RT: 7.17 min Scan# 915

Delta R.T. -0.02 min

Lab File: VW003509.D

Acq: 24 Jun 2018 14:39

Instrument :

MSVOA\_W

ClientSampleId :

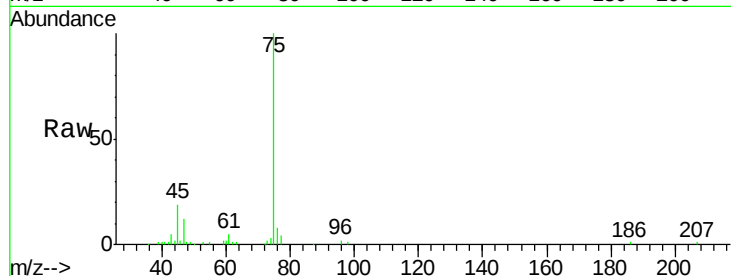
WP021SB483-25-27-180620

Tgt Ion: 43 Resp: 2195

Ion Ratio Lower Upper

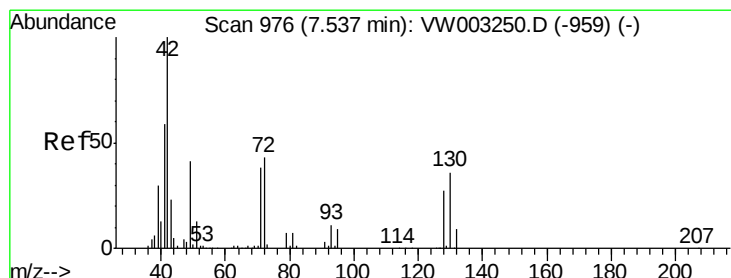
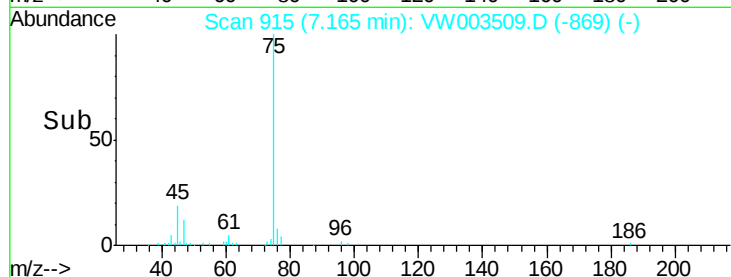
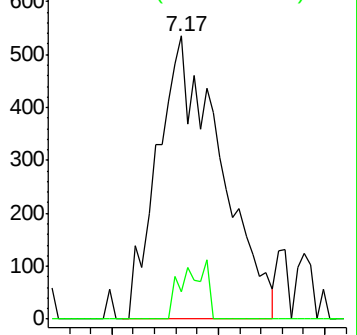
43 100

72 9.5 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#29

Tetrahydrofuran

Concen: 2.393 ug/l

RT: 7.54 min Scan# 977

Delta R.T. 0.01 min

Lab File: VW003509.D

Acq: 24 Jun 2018 14:39

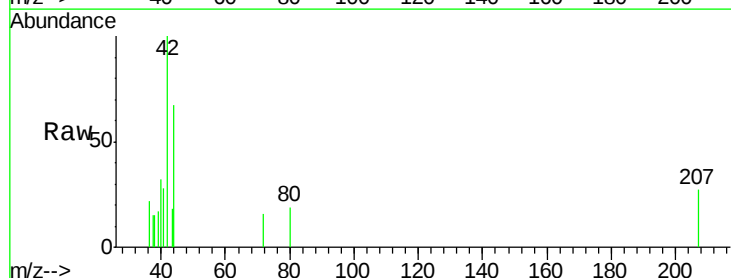
Tgt Ion: 42 Resp: 737

Ion Ratio Lower Upper

42 100

72 6.4 32.4 48.6#

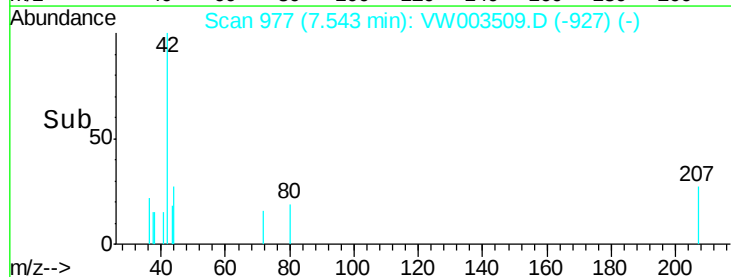
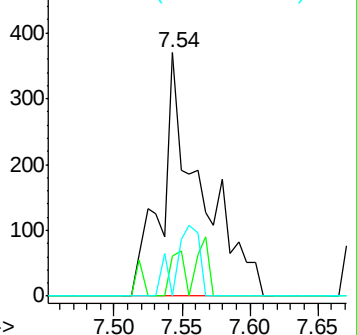
71 17.6 31.2 46.8#

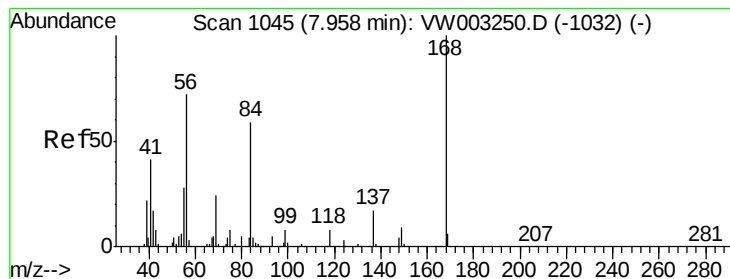


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.431 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VW003509.D

Acq: 24 Jun 2018 14:39

Instrument :

MSVOA\_W

ClientSampleId :

WP021SB483-25-27-180620

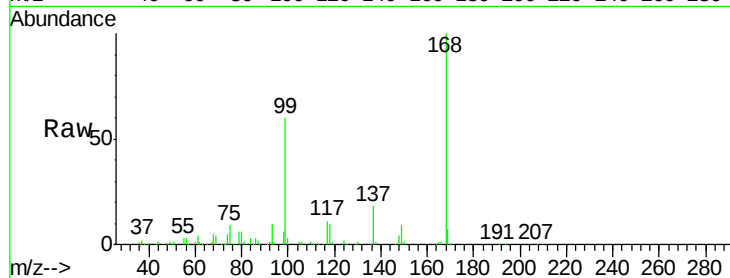
Tgt Ion: 56 Resp: 4467

Ion Ratio Lower Upper

56 100

69 154.2 26.3 39.5#

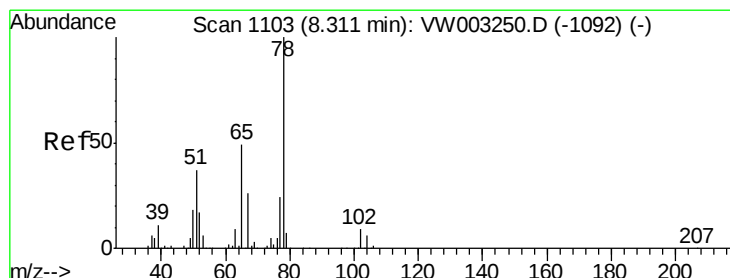
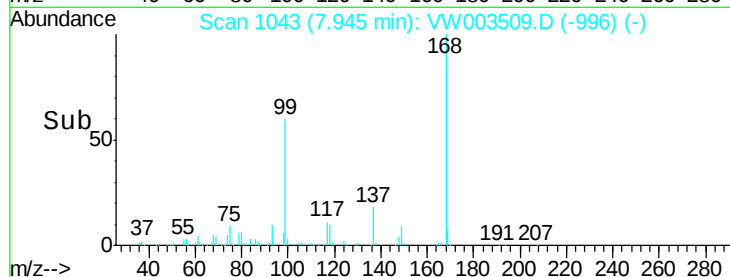
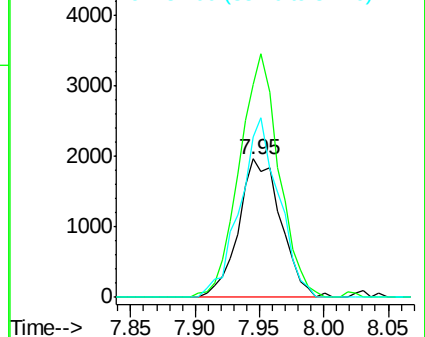
84 115.7 65.7 98.5#



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: 55.166 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. -0.00 min

Lab File: VW003509.D

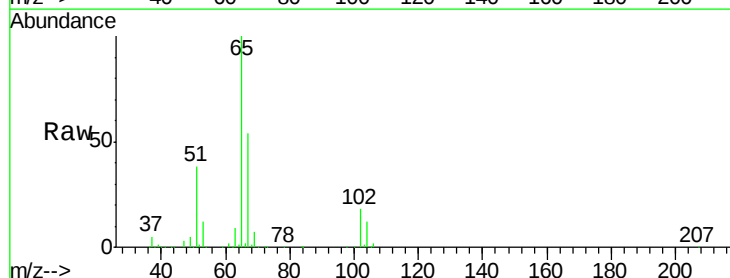
Acq: 24 Jun 2018 14:39

Tgt Ion: 65 Resp: 106601

Ion Ratio Lower Upper

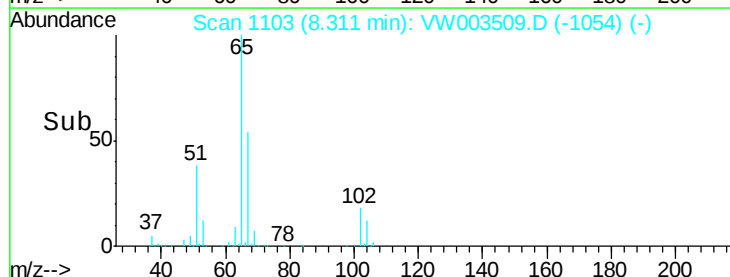
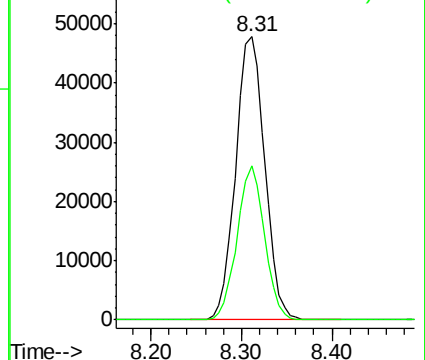
65 100

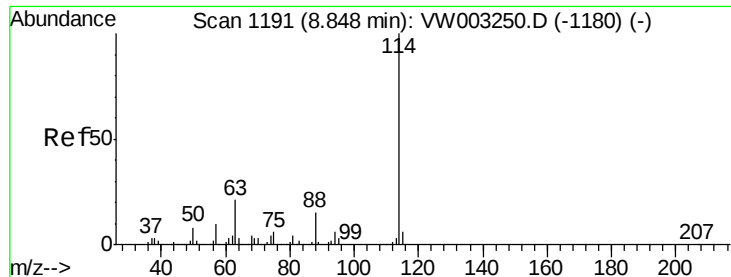
67 51.3 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

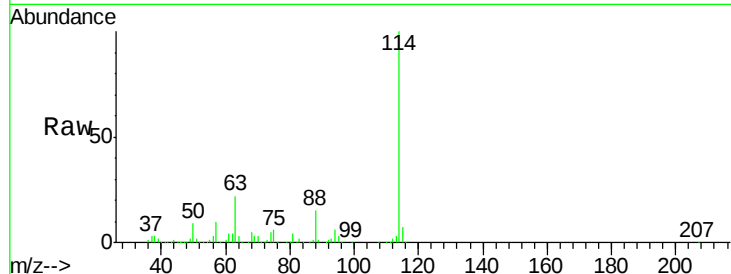




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW003509.D  
 Acq: 24 Jun 2018 14:39

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP021SB483-25-27-180620

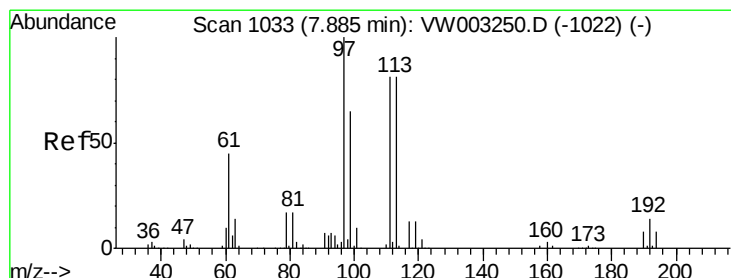
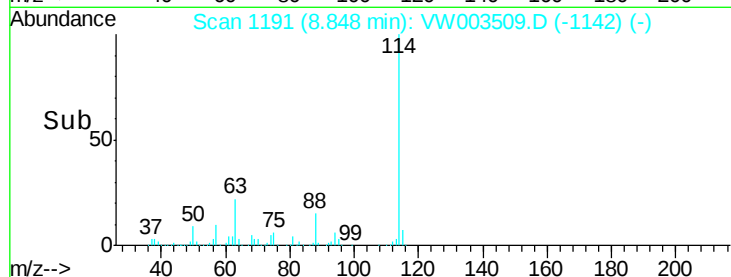
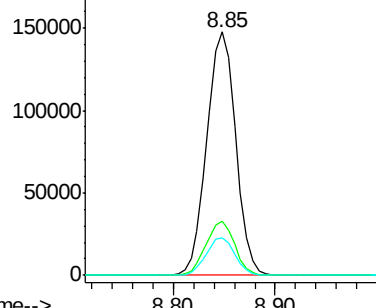
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.3  | 0.0   | 43.0  |
| 88      | 15.5  | 0.0   | 29.6  |



Abundance Ion 113.90 (113.60 to 114.60): V

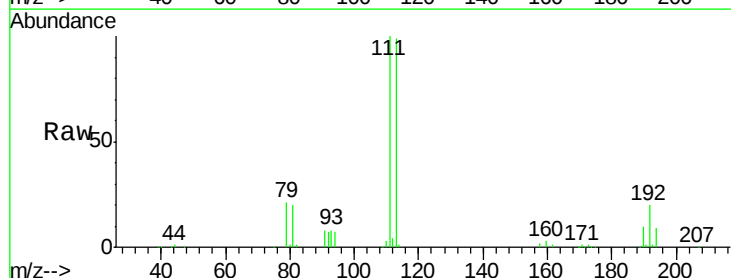
Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35  
 Dibromofluoromethane  
 Concen: 50.454 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW003509.D  
 Acq: 24 Jun 2018 14:39

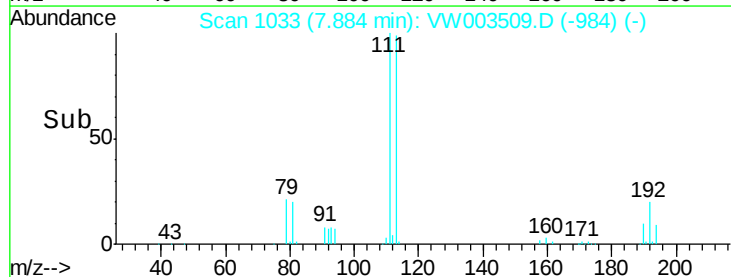
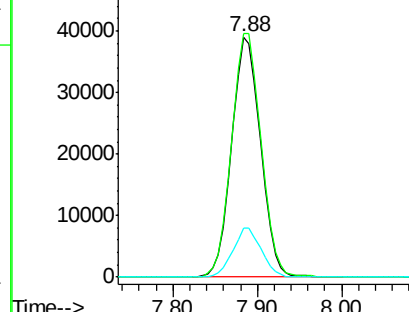
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.4 | 82.2  | 123.2 |
| 192     | 20.1  | 16.2  | 24.2  |

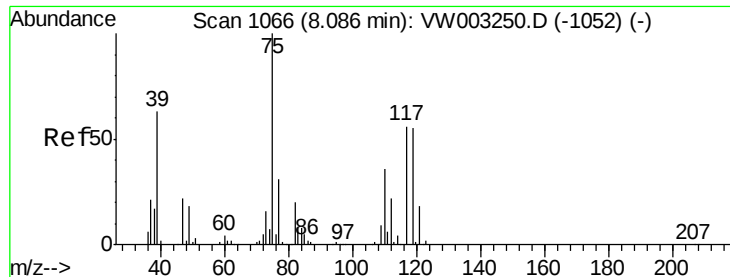


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

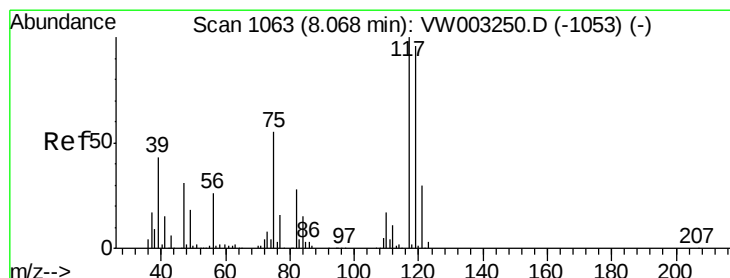
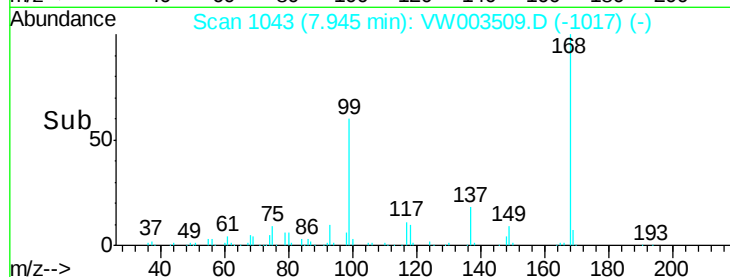
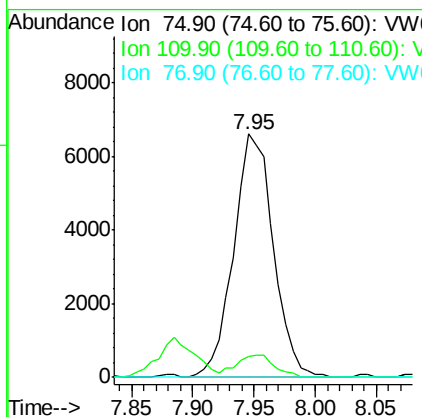
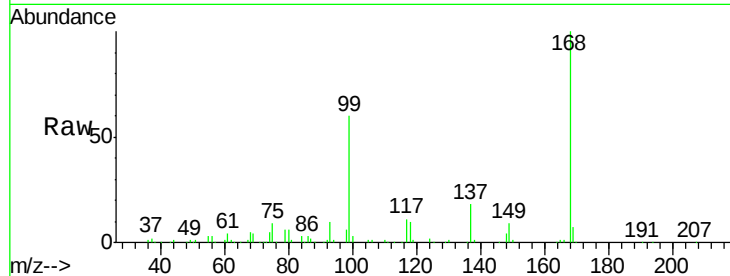




#36  
 1,1-Dichloropropene  
 Concen: 5.323 ug/l  
 RT: 7.95 min Scan# 1043  
 Delta R.T. -0.14 min  
 Lab File: VW003509.D  
 Acq: 24 Jun 2018 14:39

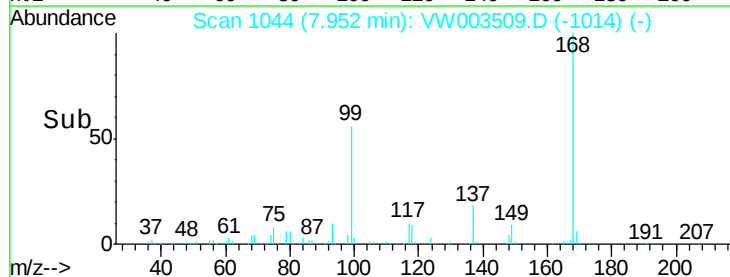
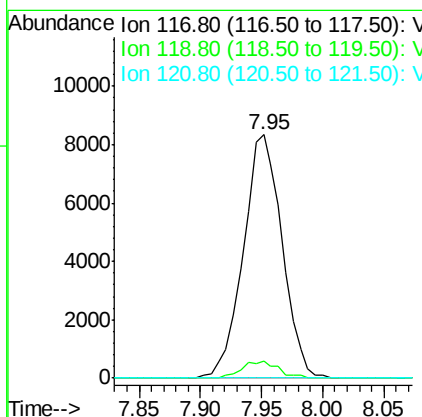
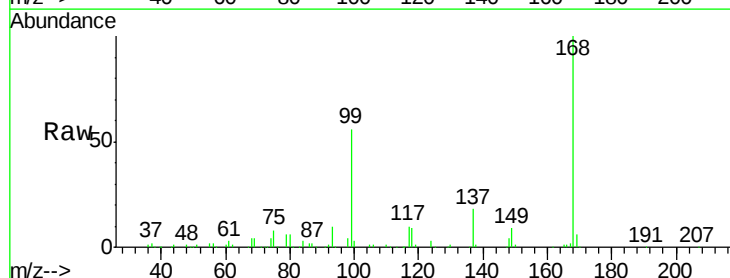
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP021SB483-25-27-180620

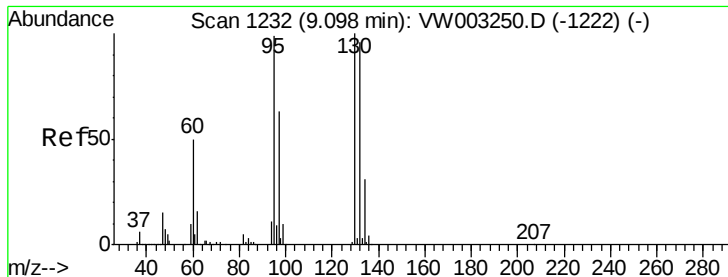
Tgt Ion: 75 Resp: 14920  
 Ion Ratio Lower Upper  
 75 100  
 110 8.9 17.1 51.3#  
 77 0.0 24.9 37.3#



#38  
 Carbon Tetrachloride  
 Concen: 6.674 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.12 min  
 Lab File: VW003509.D  
 Acq: 24 Jun 2018 14:39

Tgt Ion: 117 Resp: 18351  
 Ion Ratio Lower Upper  
 117 100  
 119 6.9 76.6 115.0#  
 121 0.0 23.9 35.9#





#44

Trichloroethene

Concen: 5.940 ug/l

RT: 9.09 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VW003509.D

Acq: 24 Jun 2018 14:39

Instrument :

MSVOA\_W

ClientSampleId :

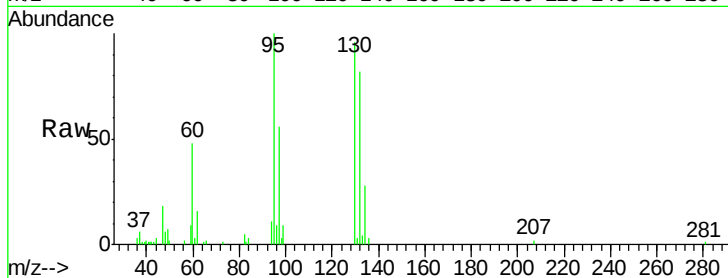
WP021SB483-25-27-180620

Tgt Ion:130 Resp: 12161

Ion Ratio Lower Upper

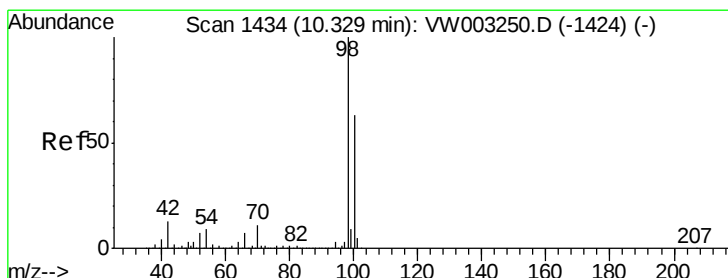
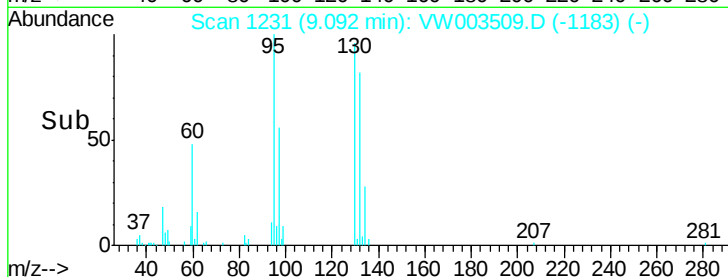
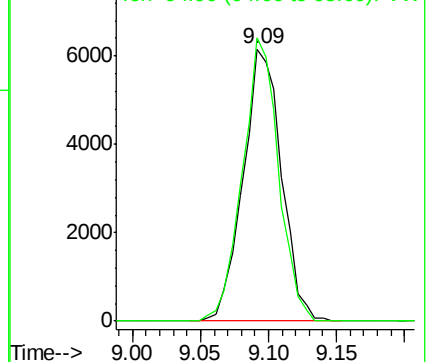
130 100

95 104.0 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW



#50

Toluene-d8

Concen: 43.433 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW003509.D

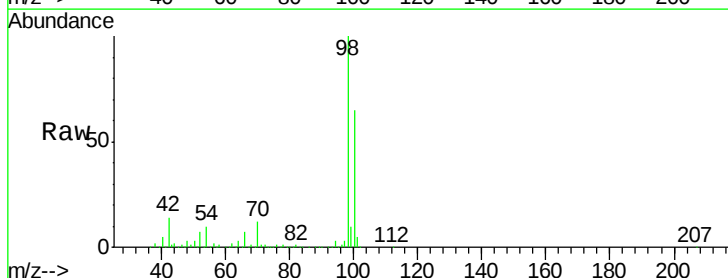
Acq: 24 Jun 2018 14:39

Tgt Ion: 98 Resp: 310594

Ion Ratio Lower Upper

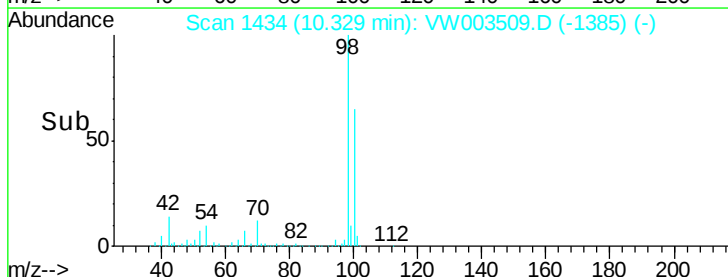
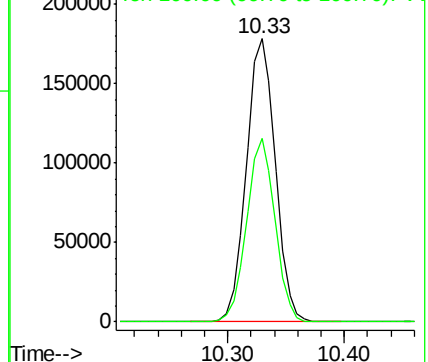
98 100

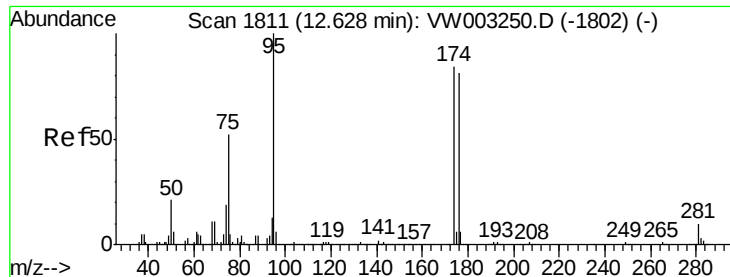
100 63.3 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 43.464 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW003509.D

Acq: 24 Jun 2018 14:39

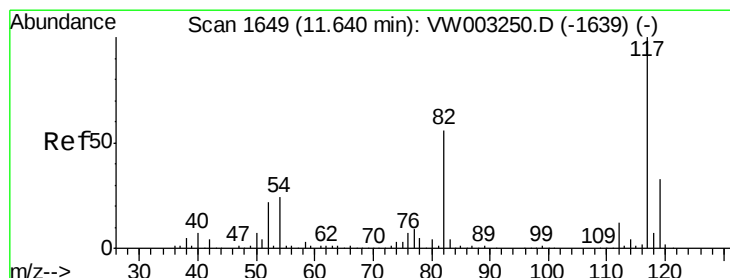
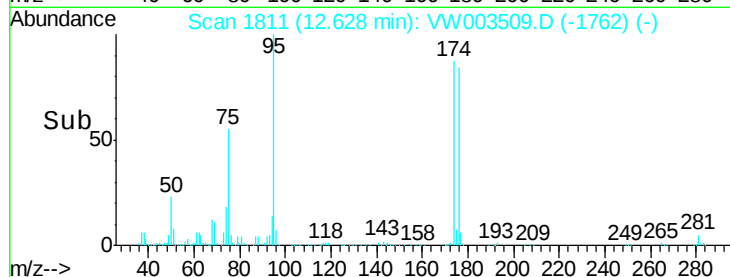
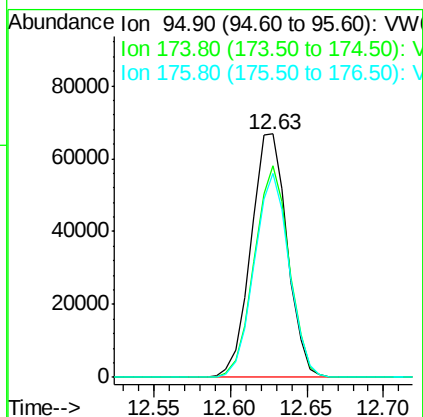
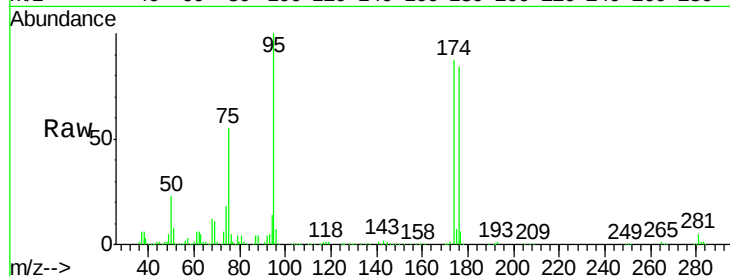
Instrument :

MSVOA\_W

ClientSampleId :

WP021SB483-25-27-180620

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 109995 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 83.7  | 0.0   | 166.4  |
| 176      | 80.7  | 0.0   | 162.0  |



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

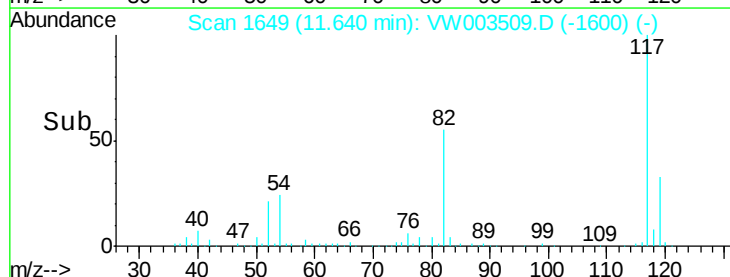
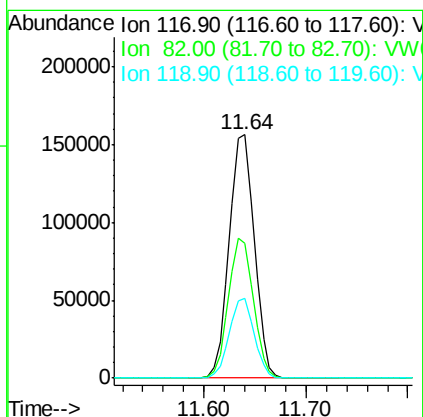
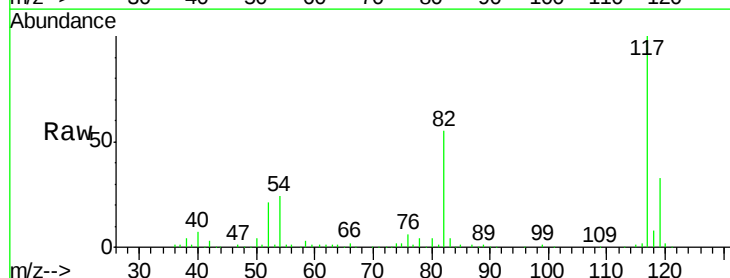
RT: 11.64 min Scan# 1649

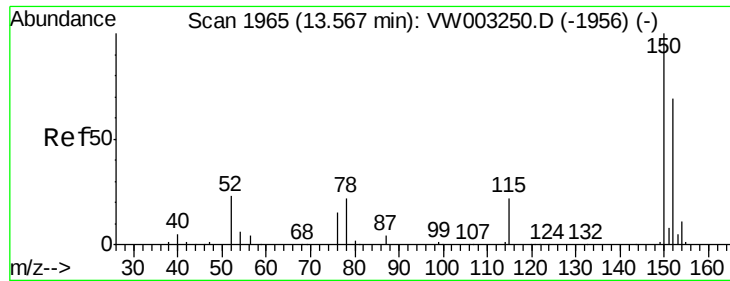
Delta R.T. -0.00 min

Lab File: VW003509.D

Acq: 24 Jun 2018 14:39

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 266349 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 55.3  | 44.6  | 67.0   |
| 119      | 32.8  | 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: VW003509.D

Acq: 24 Jun 2018 14:39

Instrument :

MSVOA\_W

ClientSampleId :

WP021SB483-25-27-180620

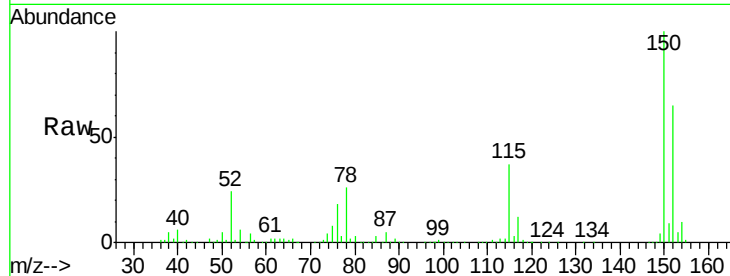
Tgt Ion:152 Resp: 128351

Ion Ratio Lower Upper

152 100

115 58.0 29.3 88.0

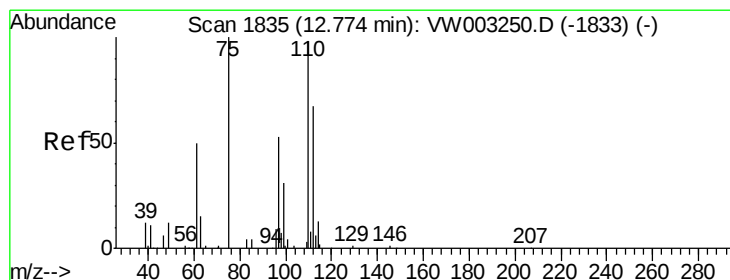
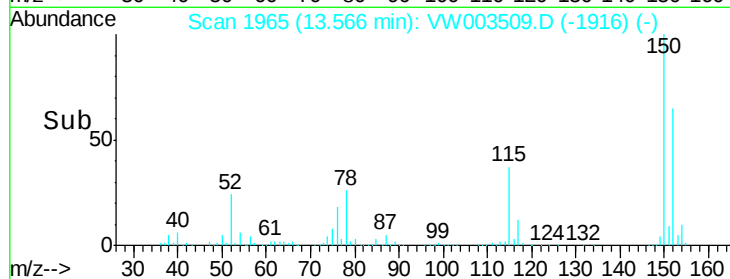
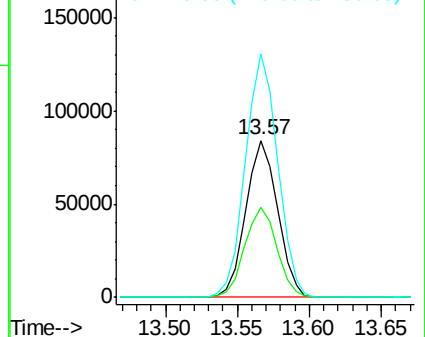
150 157.2 0.0 349.6



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: 54.855 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.15 min

Lab File: VW003509.D

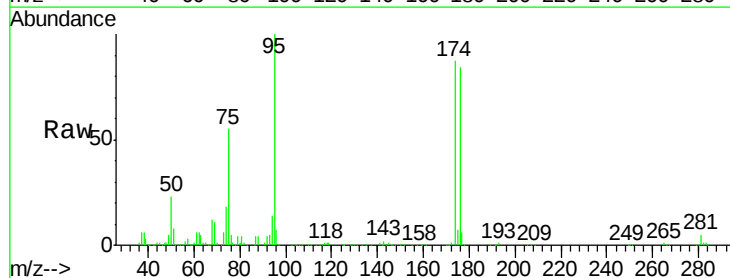
Acq: 24 Jun 2018 14:39

Tgt Ion: 75 Resp: 60190

Ion Ratio Lower Upper

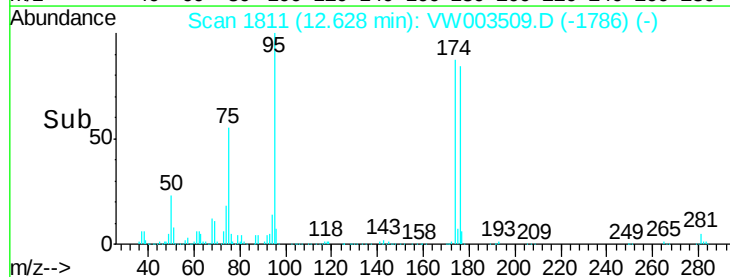
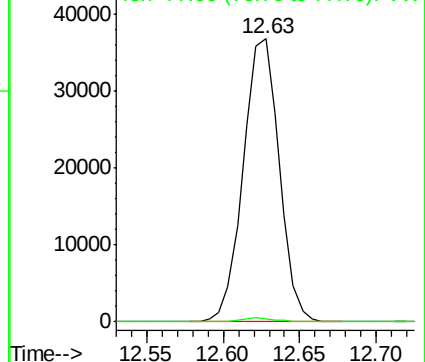
75 100

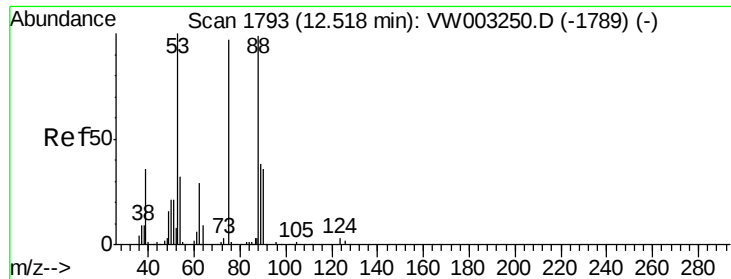
77 1.4 0.0 0.0#



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: 126.225 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.11 min

Lab File: VW003509.D

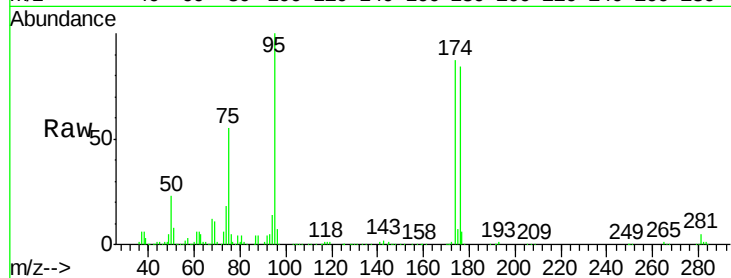
Acq: 24 Jun 2018 14:39

Instrument :

MSVOA\_W

ClientSampleId :

WP021SB483-25-27-180620



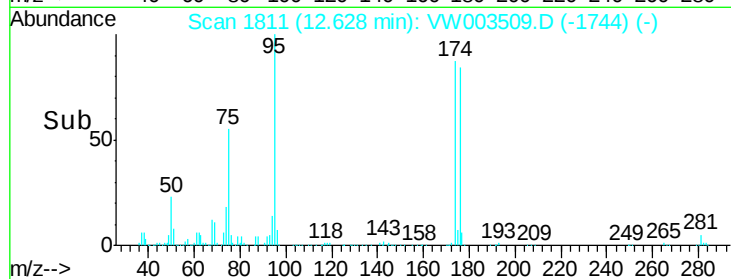
Tgt Ion: 75 Resp: 60190

Ion Ratio Lower Upper

75 100

53 0.2 82.9 124.3#

89 0.0 36.7 55.1#



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

