

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW101218\  
 Data File : VW006030.D  
 Acq On : 11 Oct 2018 15:14  
 Operator : VA/AP  
 Sample : J5450-01  
 Misc : 4.99G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VNJ218-210-282

Quant Time: Oct 11 15:48:34 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100818S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 09 02:14:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 208165   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 306325   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 278911   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 148476   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 96282    | 47.65 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.30% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 91993    | 47.04 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.08% |      |
| 50) Toluene-d8              | 10.33  | 98  | 339633   | 45.14 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.28% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 125029   | 43.67 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 87.34% |      |

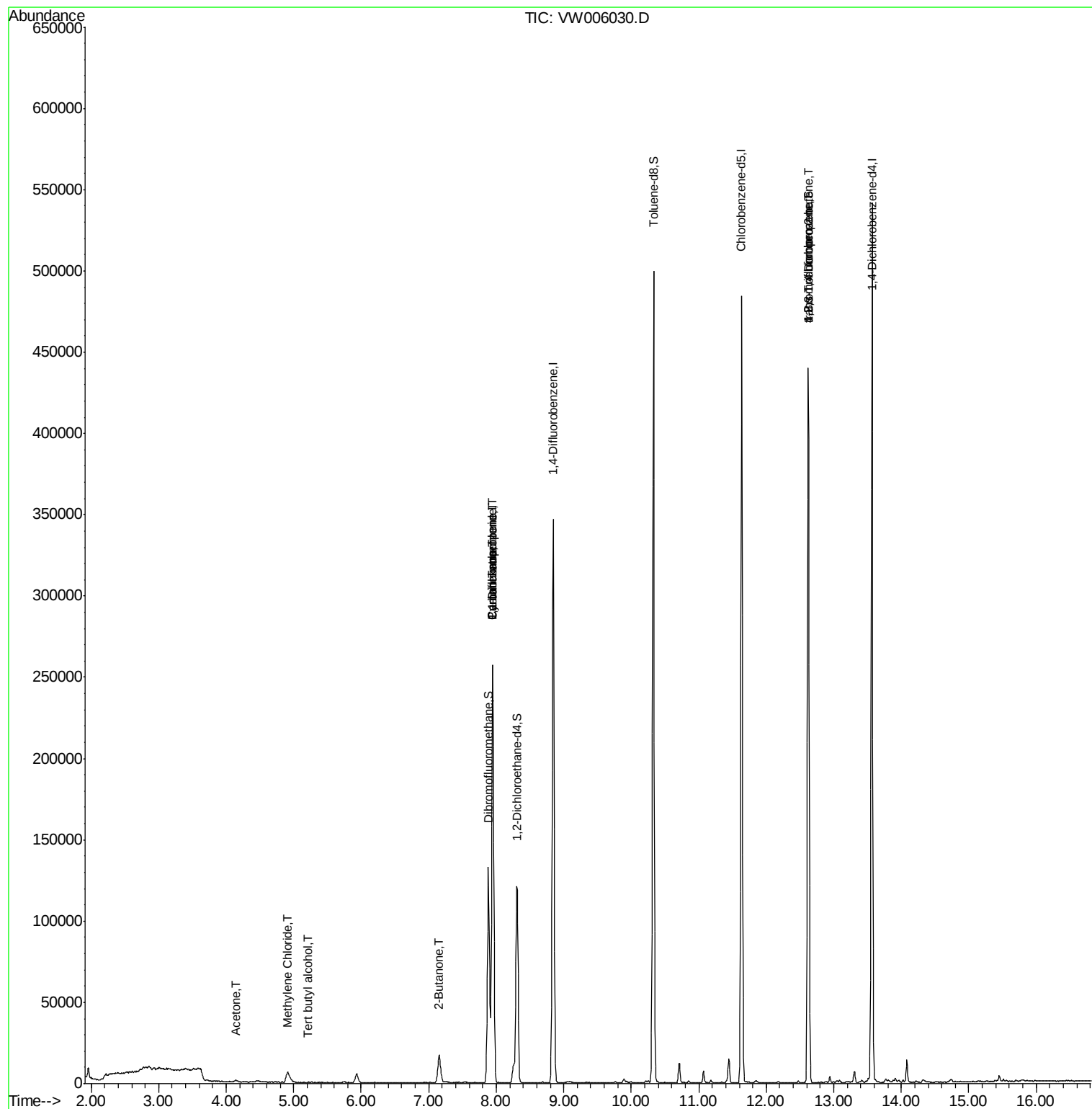
| Target Compounds               |       |     |       |        |        | Qvalue |
|--------------------------------|-------|-----|-------|--------|--------|--------|
| 11) Tert butyl alcohol         | 5.21  | 59  | 219   | 1.48   | ug/l # | 74     |
| 16) Acetone                    | 4.14  | 43  | 1999  | 4.95   | ug/l   | 93     |
| 20) Methylene Chloride         | 4.91  | 84  | 6049  | 2.99   | ug/l   | 86     |
| 25) 2-Butanone                 | 7.15  | 43  | 1108  | 1.93   | ug/l # | 49     |
| 31) Cyclohexane                | 7.95  | 56  | 3858  | 1.09   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 13717 | 4.67   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 18600 | 5.90   | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 63316 | 47.74  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 63316 | 100.78 | ug/l # | 11     |

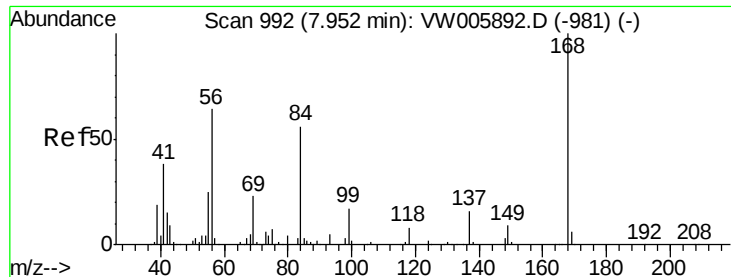
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW101218\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100818S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 09 02:14:04 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: VW006030.D

Acq: 11 Oct 2018 15:14

Instrument :

MSVOA\_W

ClientSampleId :

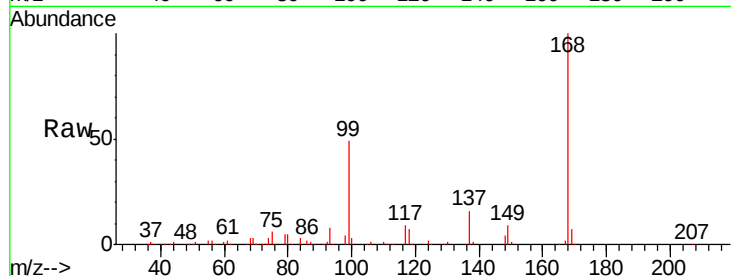
VNJ218-210-282

Tgt Ion:168 Resp: 208165

Ion Ratio Lower Upper

168 100

99 48.7 40.9 61.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

60000

40000

20000

0

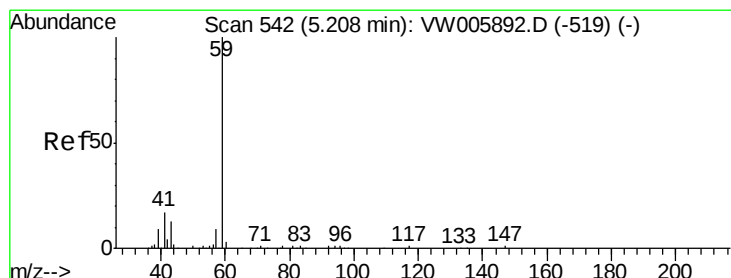
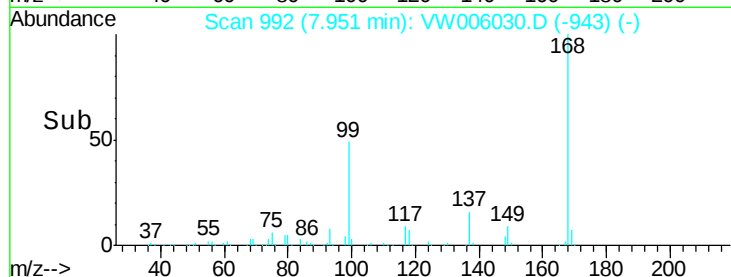
Time-->

7.80

7.90

8.00

8.10



#11

Tert butyl alcohol

Concen: 1.48 ug/l

RT: 5.21 min Scan# 543

Delta R.T. 0.01 min

Lab File: VW006030.D

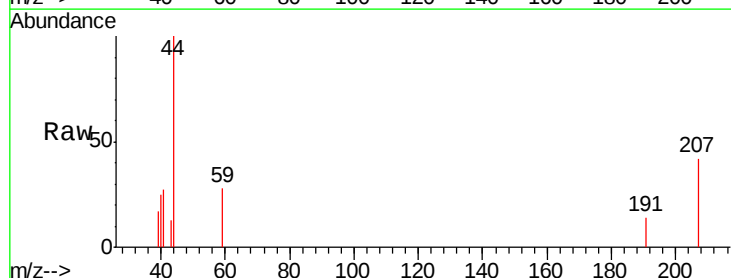
Acq: 11 Oct 2018 15:14

Tgt Ion: 59 Resp: 219

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.21

120

100

80

60

40

20

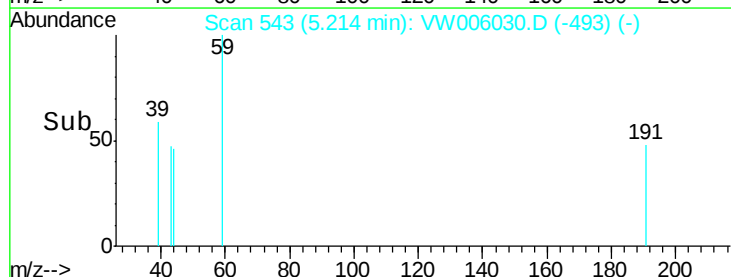
0

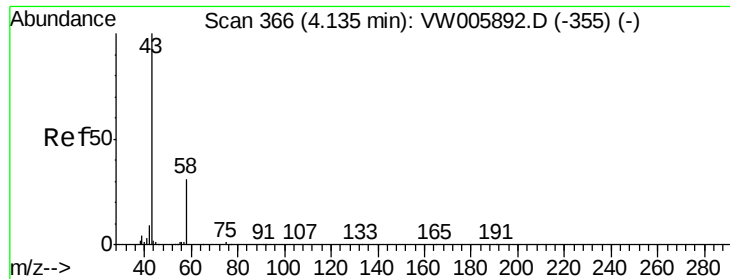
Time-->

5.15

5.20

5.25





#16

Acetone

Concen: 4.95 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW006030.D

Acq: 11 Oct 2018 15:14

Instrument :

MSVOA\_W

ClientSampleId :

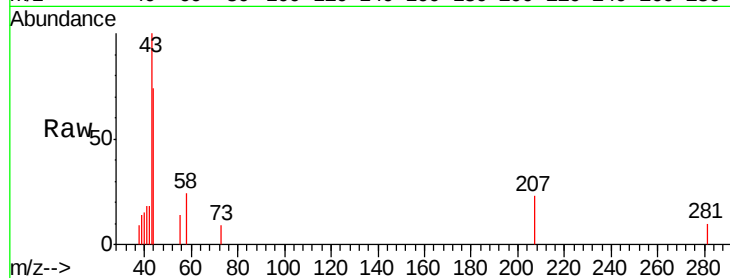
VNJ218-210-282

Tgt Ion: 43 Resp: 1999

Ion Ratio Lower Upper

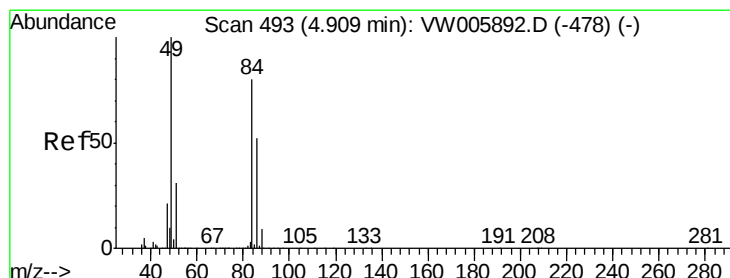
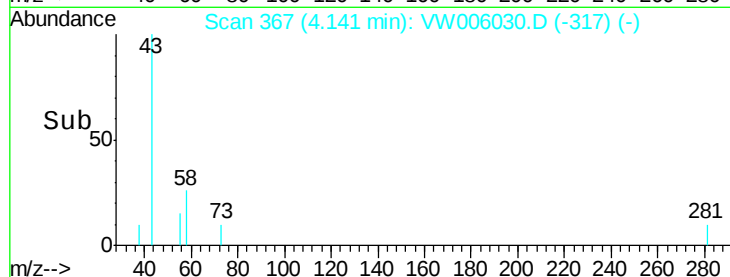
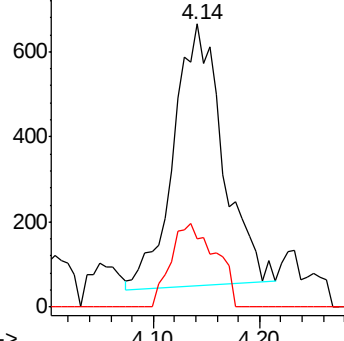
43 100

58 26.9 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 2.99 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.00 min

Lab File: VW006030.D

Acq: 11 Oct 2018 15:14

Tgt Ion: 84 Resp: 6049

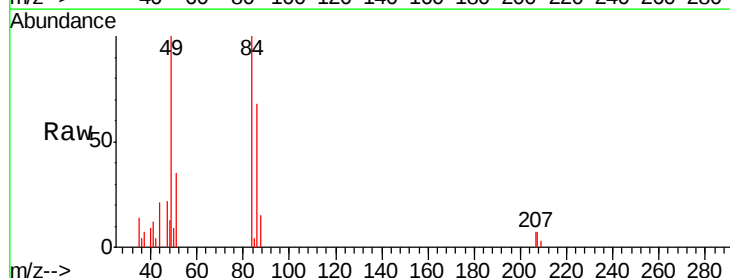
Ion Ratio Lower Upper

84 100

49 100.3 99.9 149.9

51 35.6 31.1 46.7

86 68.6 51.8 77.6

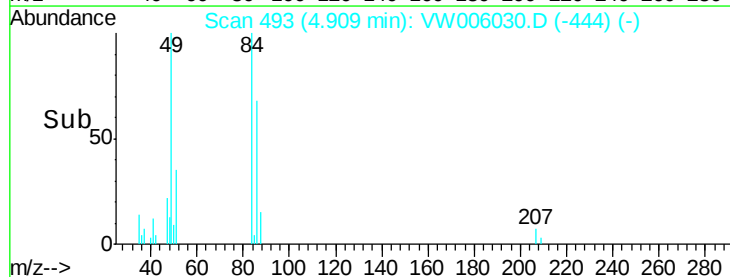
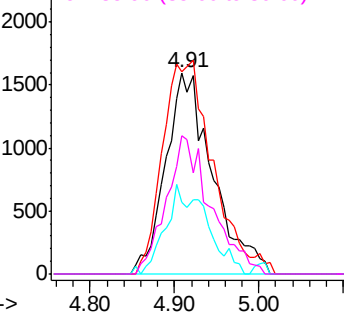


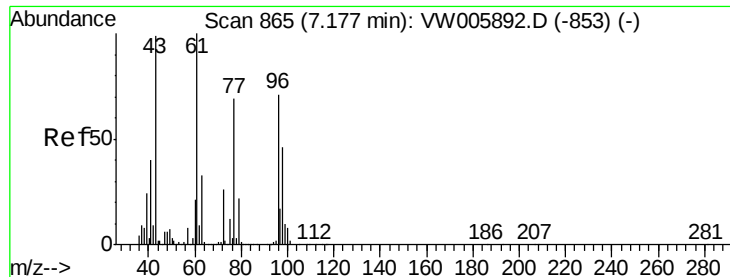
Abundance Ion 83.90 (83.60 to 84.60): VW

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: 1.93 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW006030.D

Acq: 11 Oct 2018 15:14

Instrument :

MSVOA\_W

ClientSampleId :

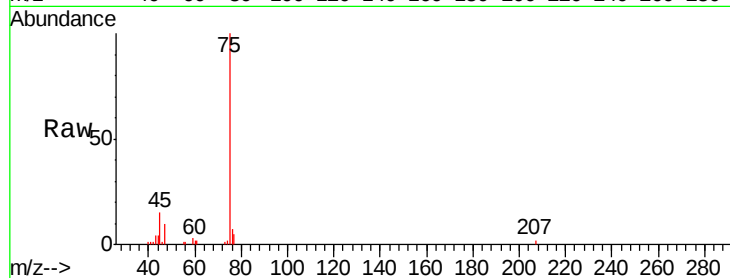
VNJ218-210-282

Tgt Ion: 43 Resp: 1108

Ion Ratio Lower Upper

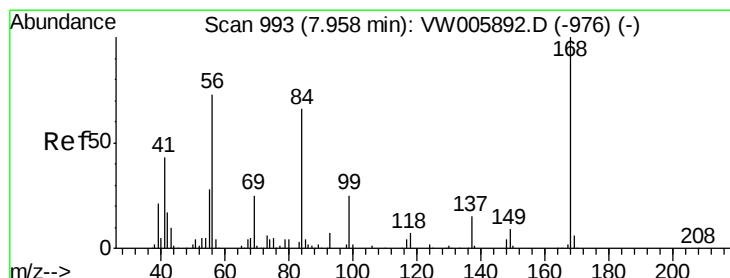
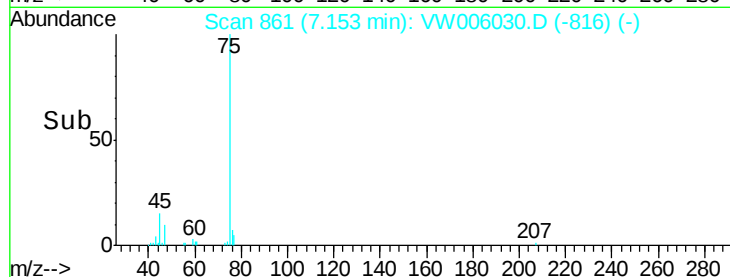
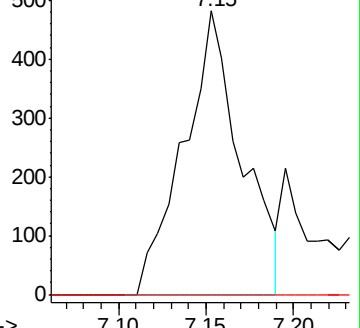
43 100

72 0.0 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#31

Cyclohexane

Concen: 1.09 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW006030.D

Acq: 11 Oct 2018 15:14

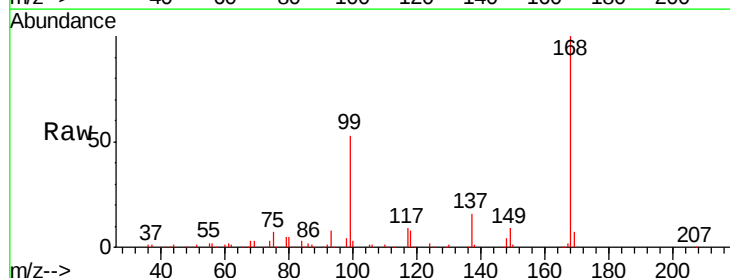
Tgt Ion: 56 Resp: 3858

Ion Ratio Lower Upper

56 100

69 162.9 27.9 41.9#

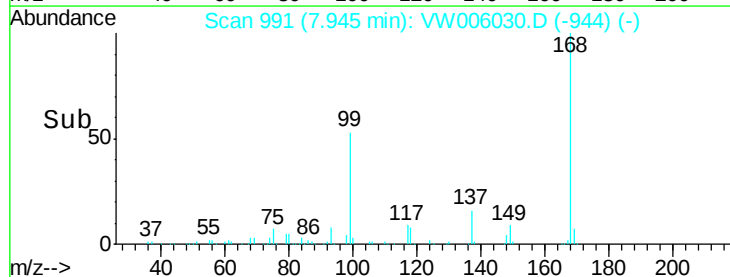
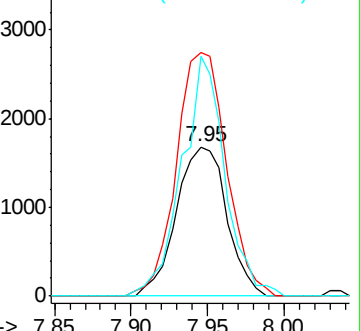
84 160.7 72.3 108.5#

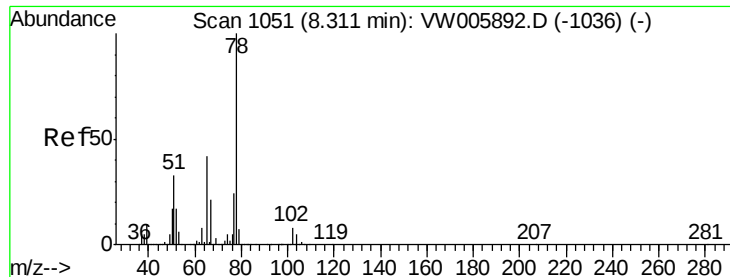


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

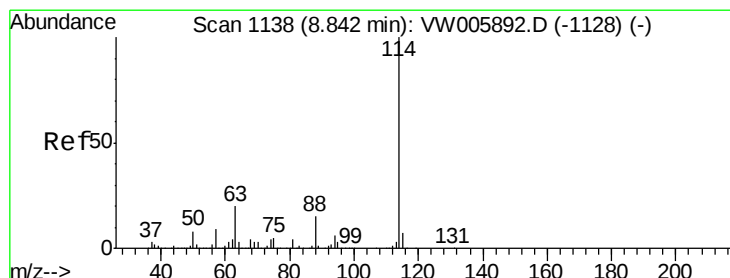
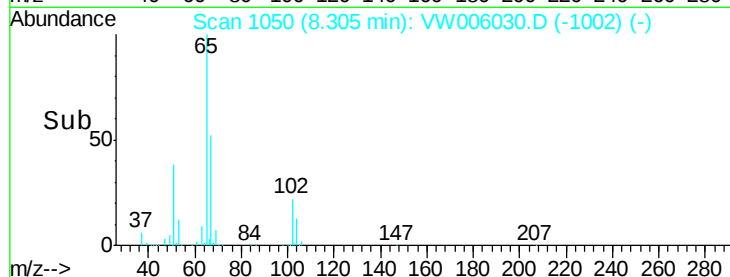
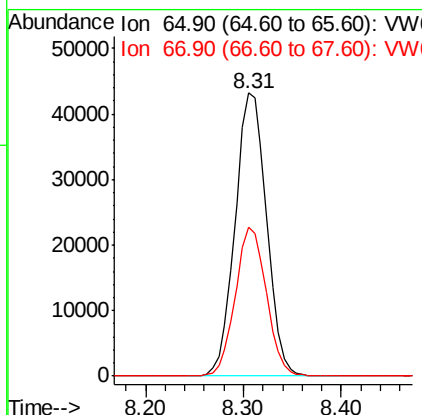
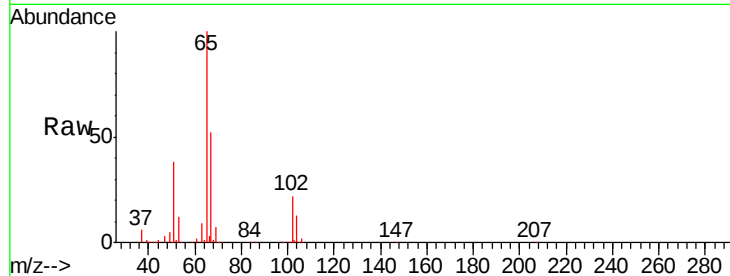




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.65 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.01 min  
 Lab File: VW006030.D  
 Acq: 11 Oct 2018 15:14

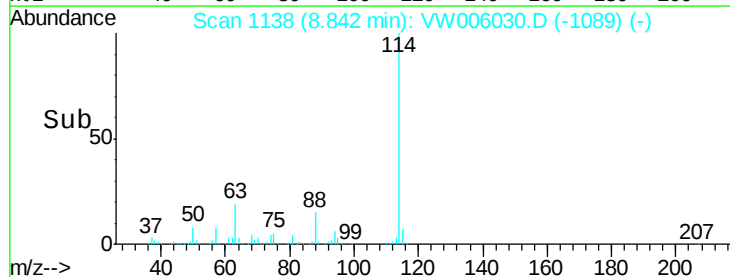
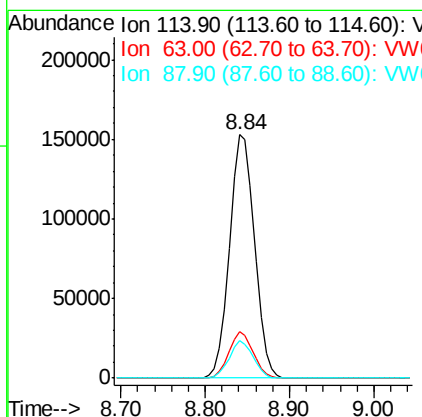
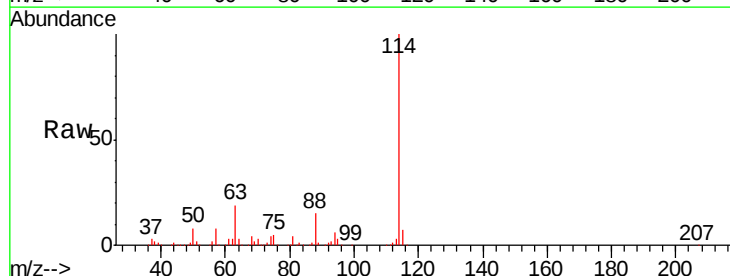
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VNJ218-210-282

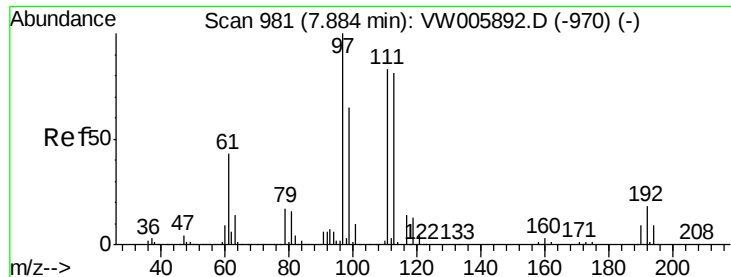
Tgt Ion: 65 Resp: 96282  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 104.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW006030.D  
 Acq: 11 Oct 2018 15:14

Tgt Ion: 114 Resp: 306325  
 Ion Ratio Lower Upper  
 114 100  
 63 19.1 0.0 39.2  
 88 15.4 0.0 30.8





#35

Dibromofluoromethane

Concen: 47.04 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW006030.D

Acq: 11 Oct 2018 15:14

Instrument :

MSVOA\_W

ClientSampleId :

VNJ218-210-282

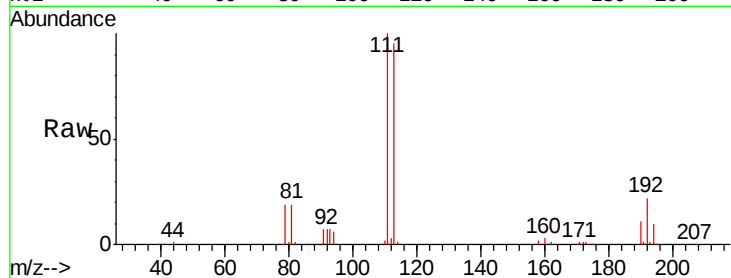
Tgt Ion:113 Resp: 91993

Ion Ratio Lower Upper

113 100

111 102.1 82.0 123.0

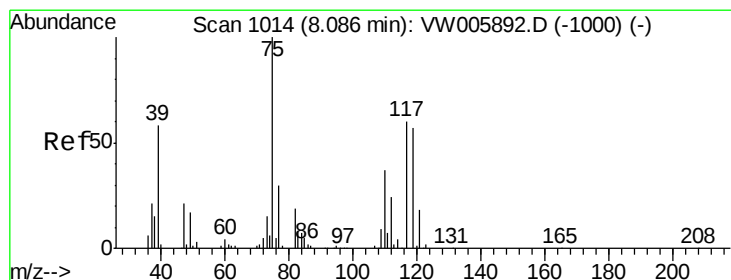
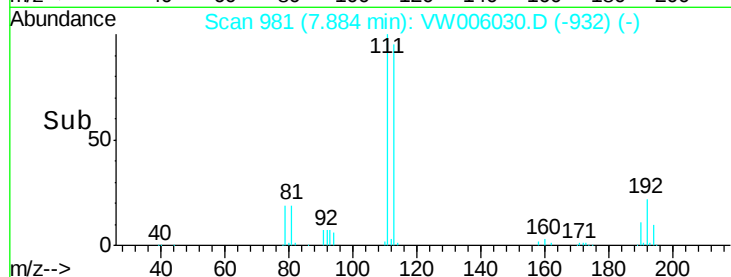
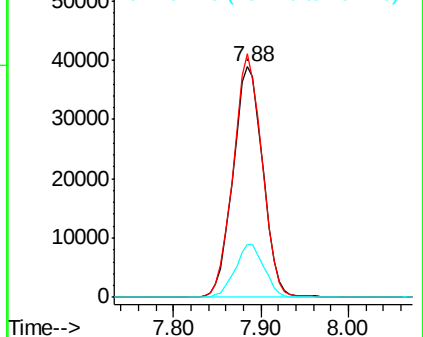
192 22.5 18.3 27.5



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: 4.67 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.14 min

Lab File: VW006030.D

Acq: 11 Oct 2018 15:14

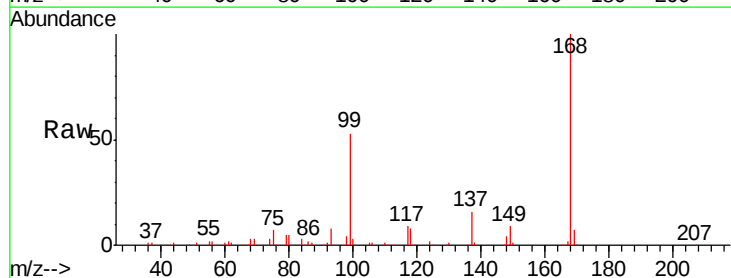
Tgt Ion: 75 Resp: 13717

Ion Ratio Lower Upper

75 100

110 10.0 18.6 56.0#

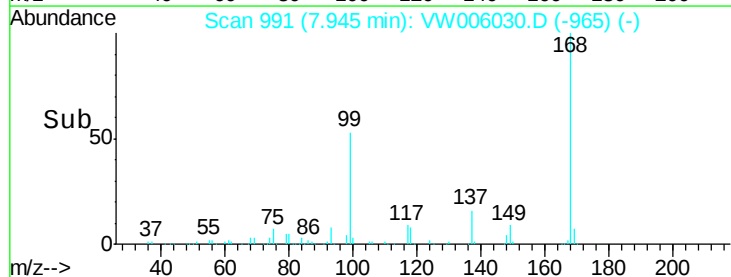
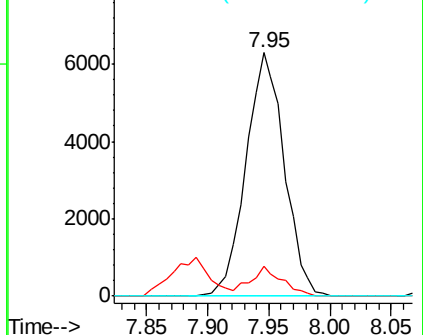
77 0.0 24.7 37.1#

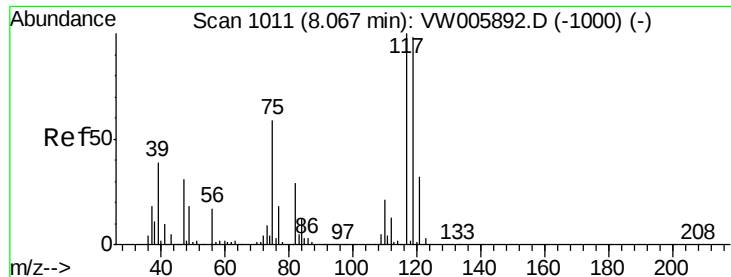


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 5.90 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW006030.D

Acq: 11 Oct 2018 15:14

Instrument :

MSVOA\_W

ClientSampleId :

VNJ218-210-282

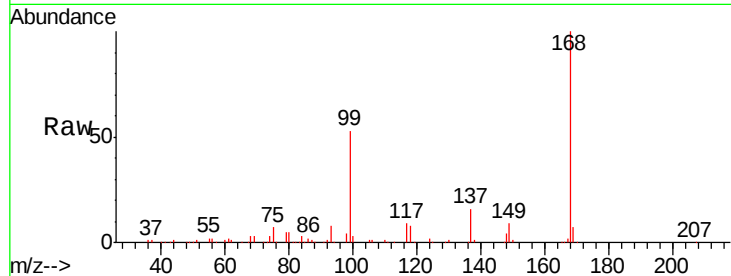
Tgt Ion:117 Resp: 18600

Ion Ratio Lower Upper

117 100

119 5.4 78.6 117.8#

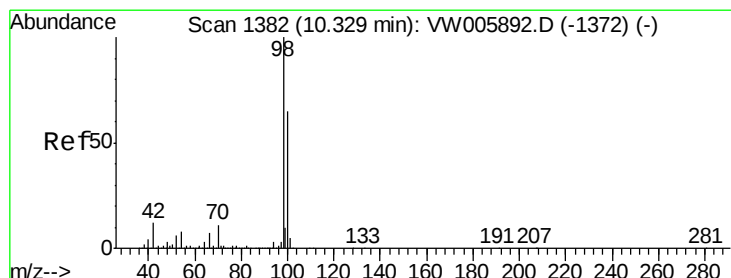
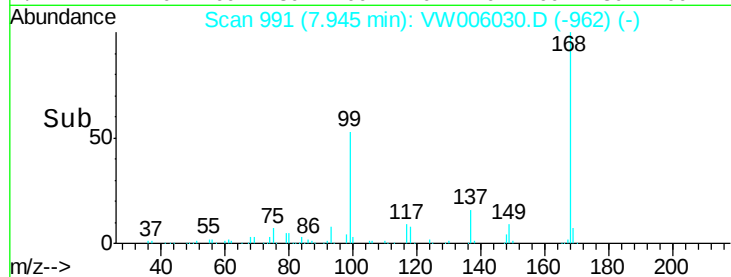
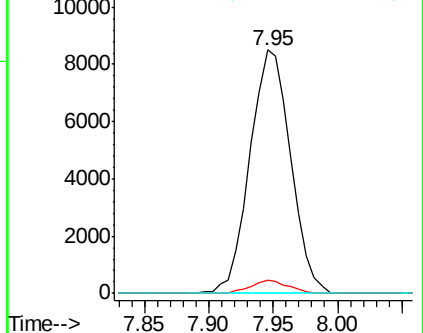
121 0.0 25.3 37.9#



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: 45.14 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW006030.D

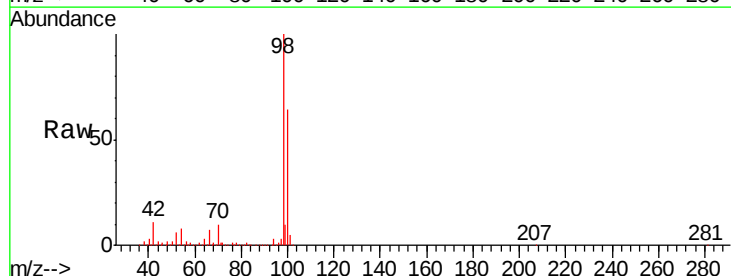
Acq: 11 Oct 2018 15:14

Tgt Ion: 98 Resp: 339633

Ion Ratio Lower Upper

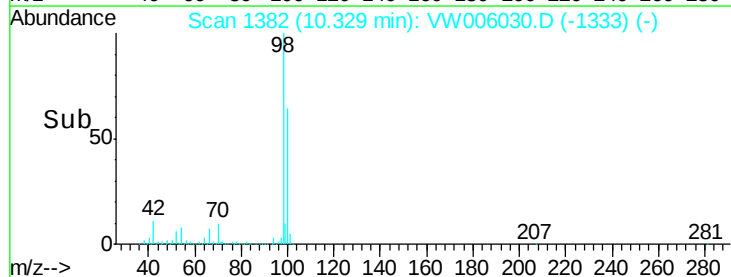
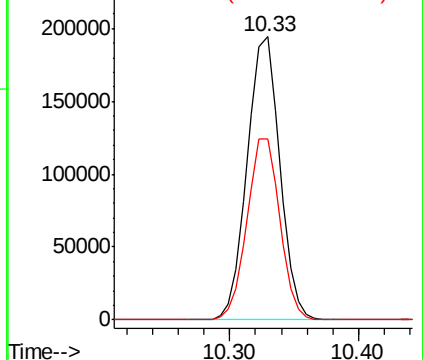
98 100

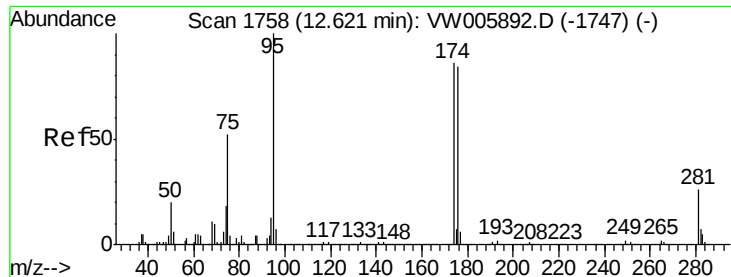
100 64.4 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 43.67 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW006030.D

Acq: 11 Oct 2018 15:14

Instrument :

MSVOA\_W

ClientSampleId :

VNJ218-210-282

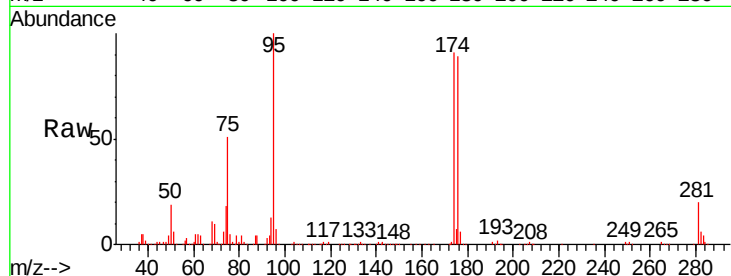
Tgt Ion: 95 Resp: 125029

Ion Ratio Lower Upper

95 100

174 93.9 0.0 176.4

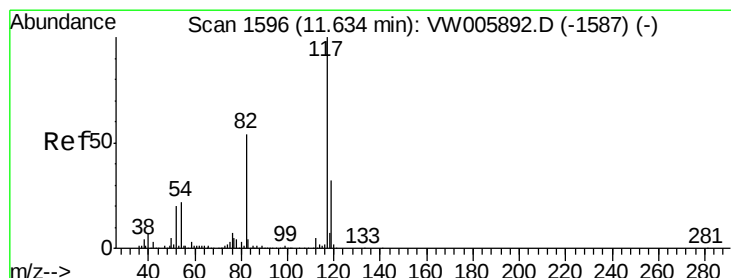
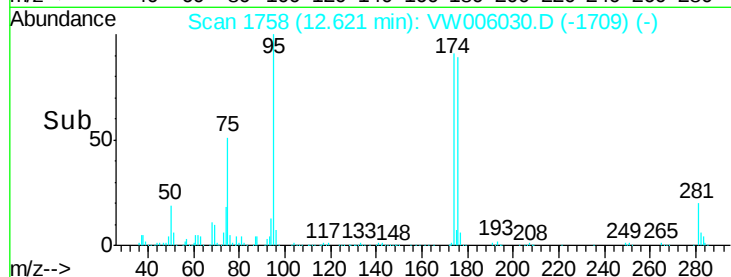
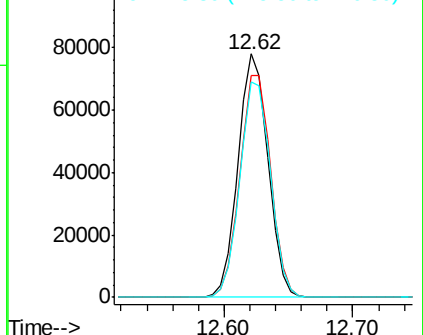
176 90.9 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW006030.D

Acq: 11 Oct 2018 15:14

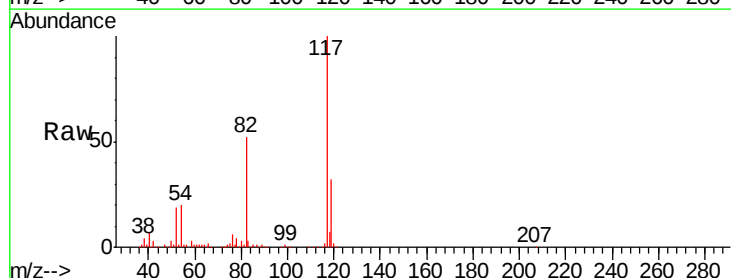
Tgt Ion: 117 Resp: 278911

Ion Ratio Lower Upper

117 100

82 51.5 43.5 65.3

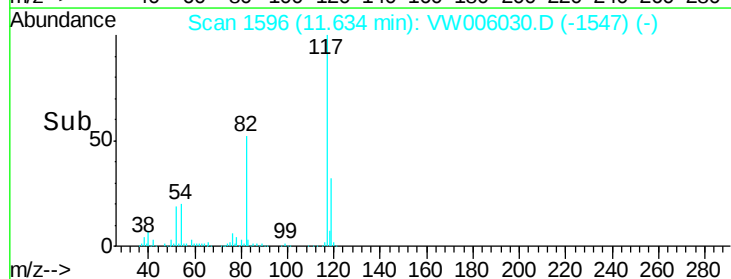
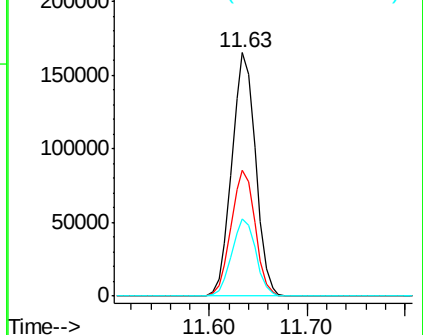
119 31.7 25.4 38.2

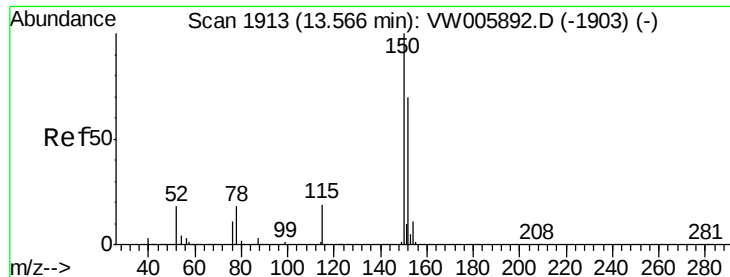


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW006030.D

Acq: 11 Oct 2018 15:14

Instrument :

MSVOA\_W

ClientSampleId :

VNJ218-210-282

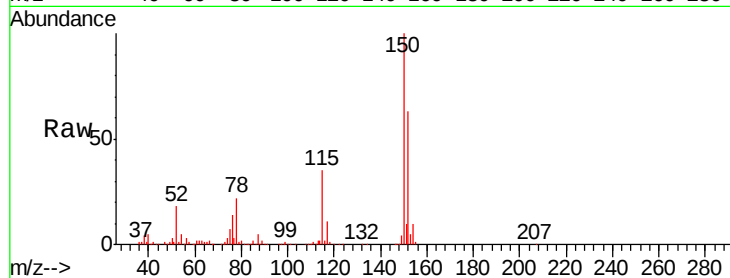
Tgt Ion:152 Resp: 148476

Ion Ratio Lower Upper

152 100

115 55.5 28.3 85.0

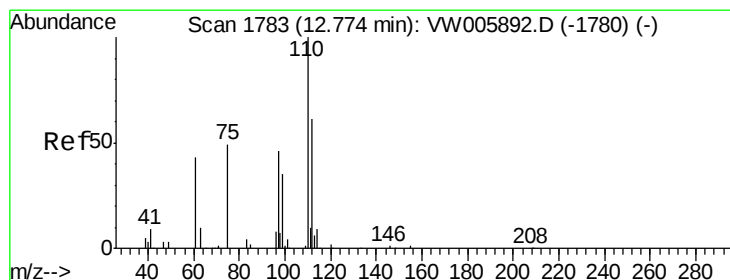
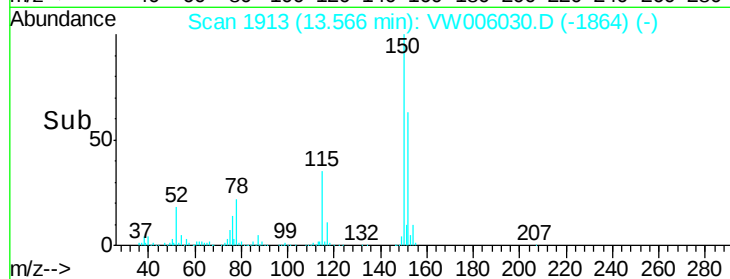
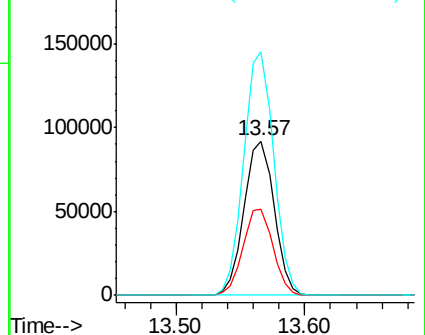
150 157.4 0.0 349.2



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: 47.74 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006030.D

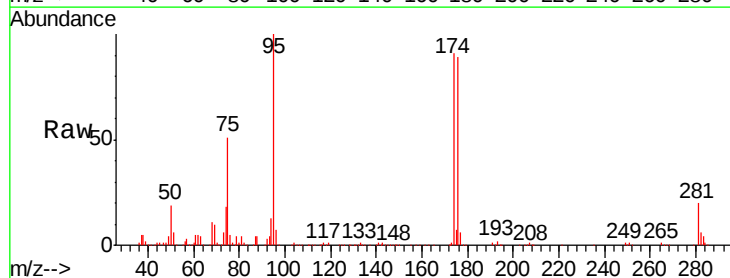
Acq: 11 Oct 2018 15:14

Tgt Ion: 75 Resp: 63316

Ion Ratio Lower Upper

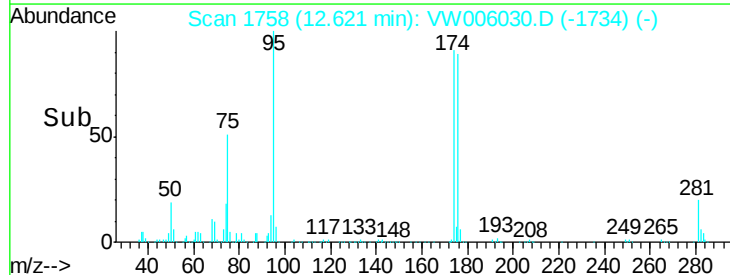
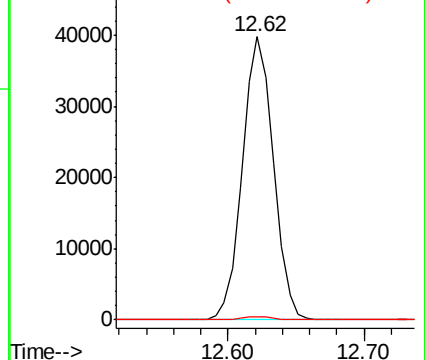
75 100

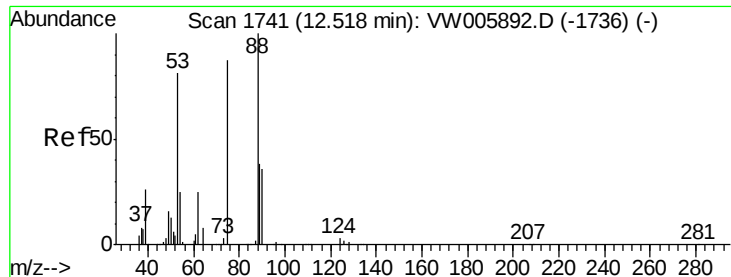
77 1.3 0.0 0.0#



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: 100.78 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006030.D

Acq: 11 Oct 2018 15:14

Instrument :

MSVOA\_W

ClientSampleId :

VNJ218-210-282

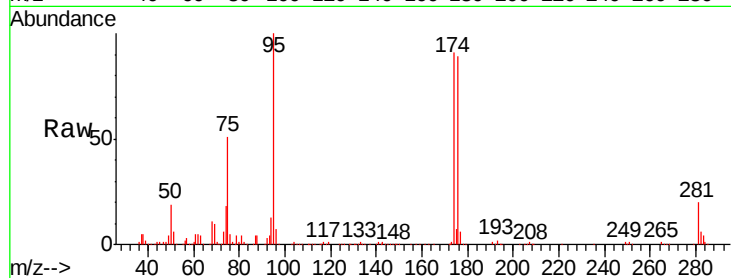
Tgt Ion: 75 Resp: 63316

Ion Ratio Lower Upper

75 100

53 0.0 76.5 114.7#

89 0.2 37.6 56.4#



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

