

Data File : VW002356.D

Acq On : 10 May 2018 04:15

Operator : JC/SY

Sample : J2730-07

Misc : 5.94G/5ML/MSVOA\_W/SOIL

ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
EPE-F-6A(60-62)

Quant Time: May 10 05:52:55 2018

Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W050818S.M

Quant Title : SW846 8260

QLast Update : Tue May 08 03:57:58 2018

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 176815   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 286158   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 251460   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 124998   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 85869    | 45.73 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.46% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 80916    | 44.12 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 88.24% |      |
| 50) Toluene-d8            | 10.33  | 98  | 246050   | 35.18 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 70.36% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 98265    | 38.88 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 77.76% |      |

## Target Compounds

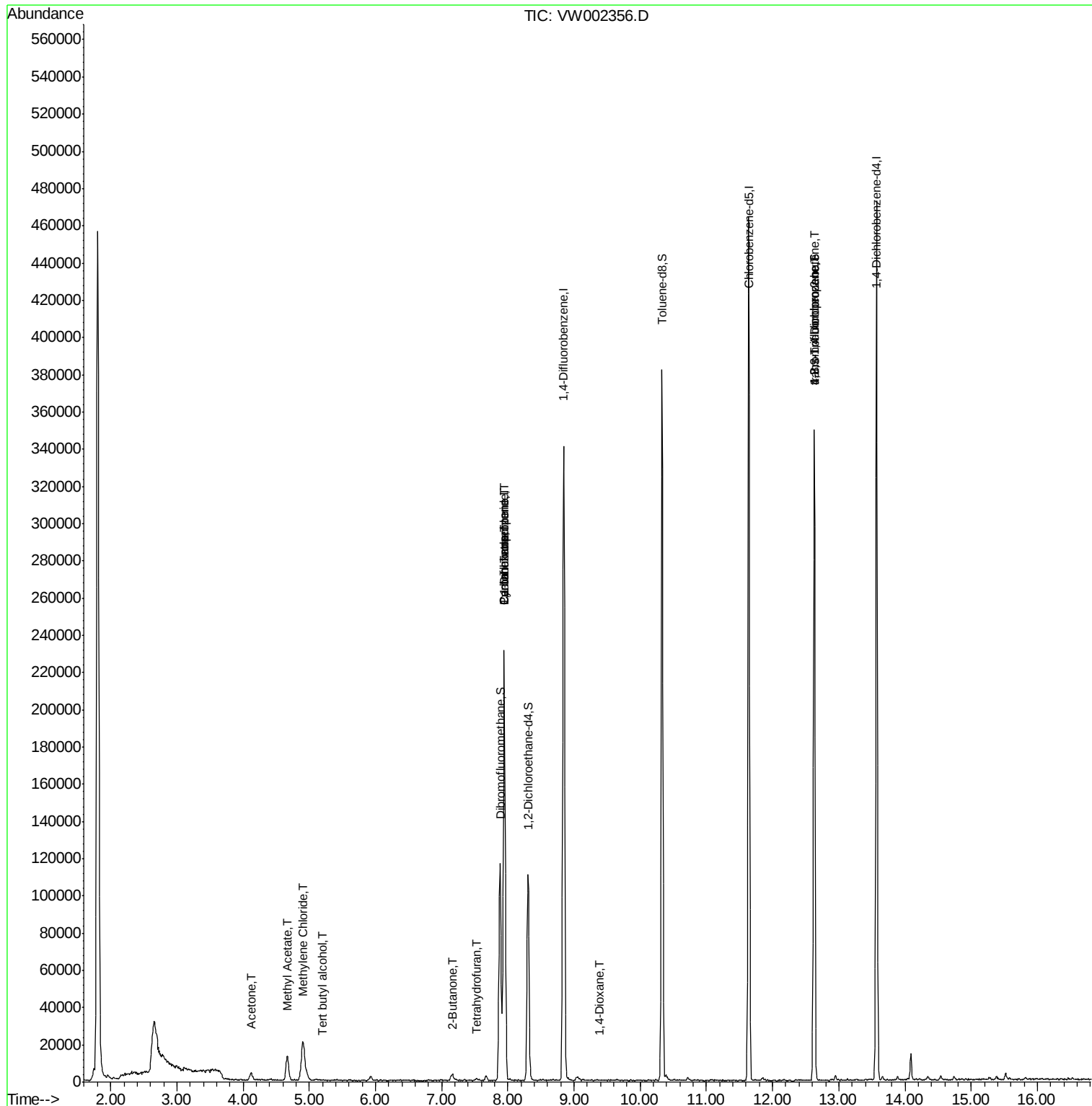
|                                |       |     |       |        |        | Qvalue |
|--------------------------------|-------|-----|-------|--------|--------|--------|
| 11) Tert butyl alcohol         | 5.20  | 59  | 351   | 2.57   | ug/l # | 85     |
| 16) Acetone                    | 4.13  | 43  | 6999  | 19.09  | ug/l   | 97     |
| 18) Methyl Acetate             | 4.67  | 43  | 24424 | 22.20  | ug/l   | 98     |
| 20) Methylene Chloride         | 4.90  | 84  | 19667 | 11.12  | ug/l   | 96     |
| 25) 2-Butanone                 | 7.17  | 43  | 561   | 1.03   | ug/l   | 93     |
| 29) Tetrahydrofuran            | 7.53  | 42  | 362   | 1.01   | ug/l   | 96     |
| 31) Cyclohexane                | 7.95  | 56  | 3791  | 1.36   | ug/l # | 15     |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 13400 | 5.18   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 16431 | 6.57   | ug/l # | 16     |
| 49) 1,4-Dioxane                | 9.38  | 88  | 89    | 5.29   | ug/l # | 11     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75  | 49258 | 44.44  | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75  | 49258 | 117.06 | ug/l # | 10     |

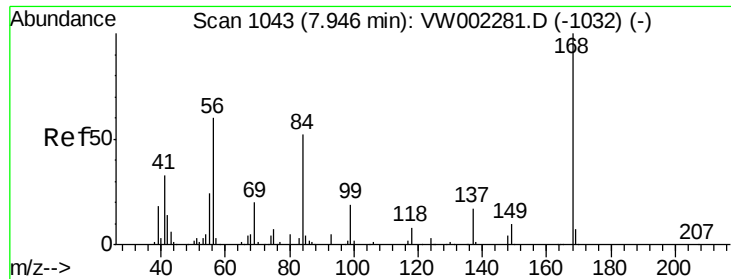
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue May 08 03:57:58 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.00 min

Lab File: VW002356.D

Acq: 10 May 2018 04:15

Instrument :

MSVOA\_W

ClientSampleId :

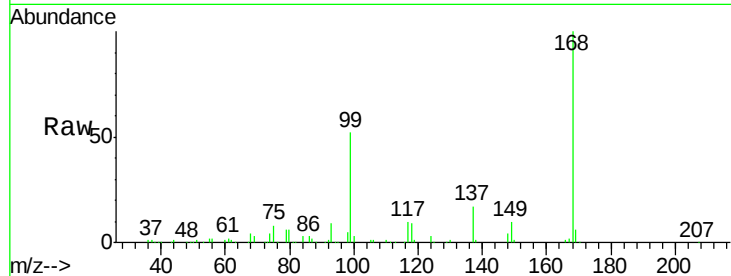
EPE-F-6A(60-62)

Tgt Ion:168 Resp: 176815

Ion Ratio Lower Upper

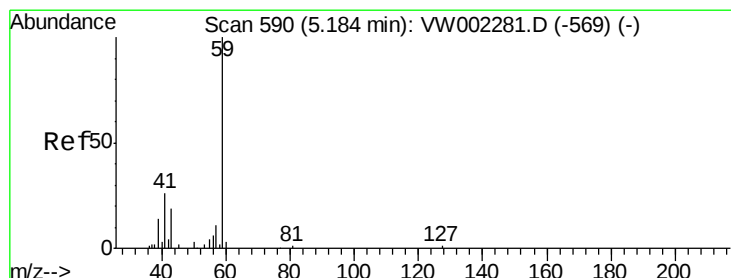
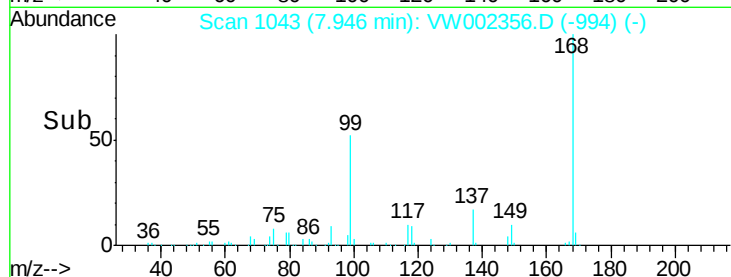
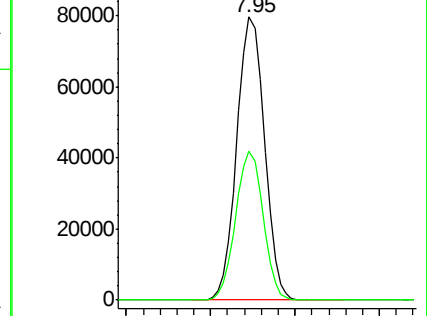
168 100

99 52.5 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 2.57 ug/l

RT: 5.20 min Scan# 592

Delta R.T. 0.01 min

Lab File: VW002356.D

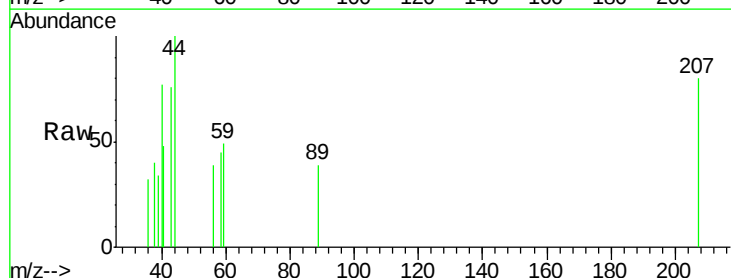
Acq: 10 May 2018 04:15

Tgt Ion: 59 Resp: 351

Ion Ratio Lower Upper

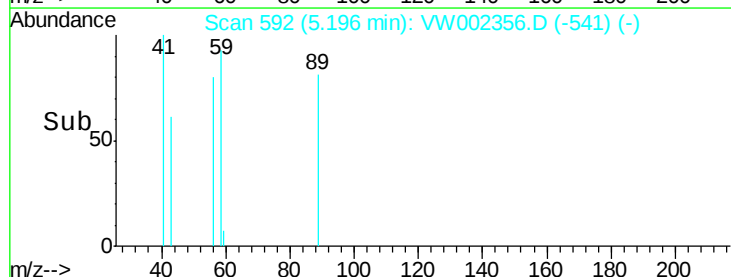
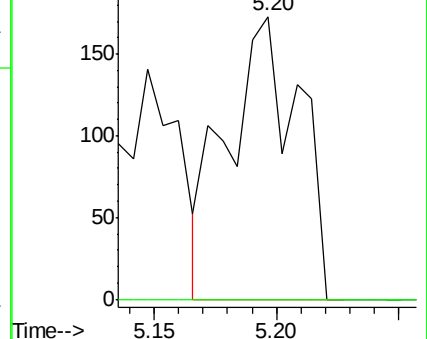
59 100

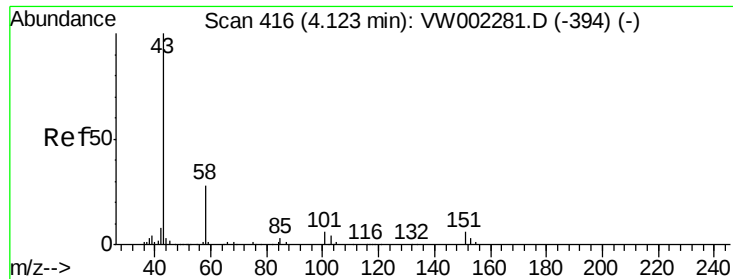
57 0.0 3.9 5.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 19.09 ug/l

RT: 4.13 min Scan# 417

Delta R.T. 0.01 min

Lab File: VW002356.D

Acq: 10 May 2018 04:15

Instrument :

MSVOA\_W

ClientSampleId :

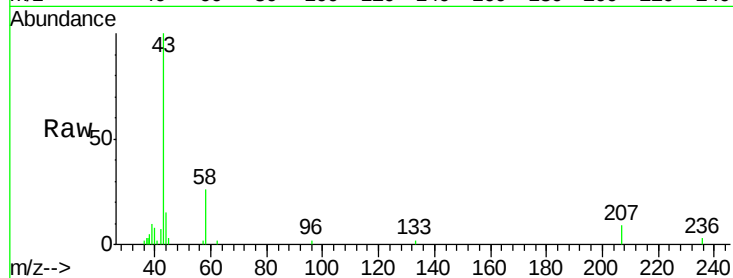
EPE-F-6A(60-62)

Tgt Ion: 43 Resp: 6999

Ion Ratio Lower Upper

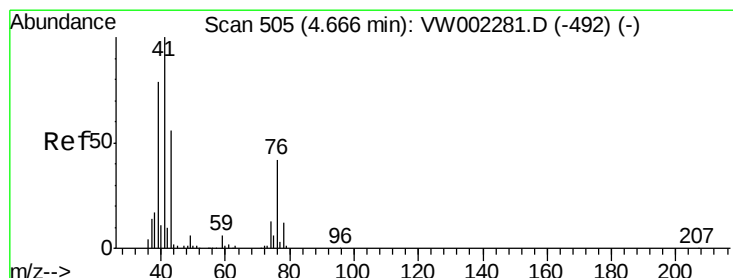
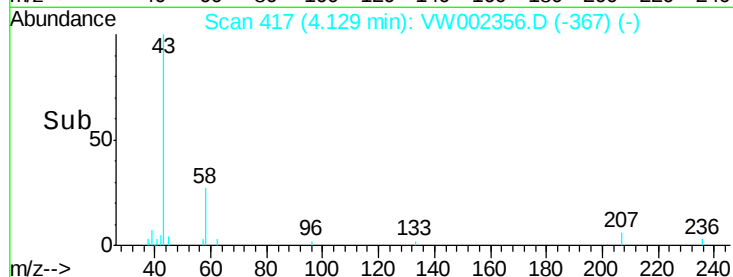
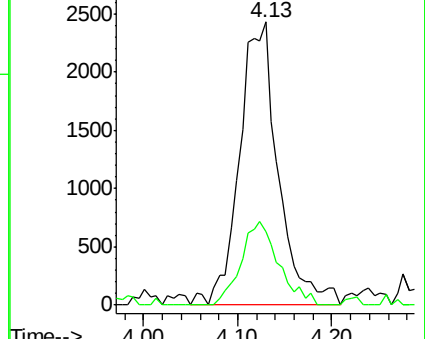
43 100

58 26.1 22.2 33.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#18

Methyl Acetate

Concen: 22.20 ug/l

RT: 4.67 min Scan# 505

Delta R.T. -0.00 min

Lab File: VW002356.D

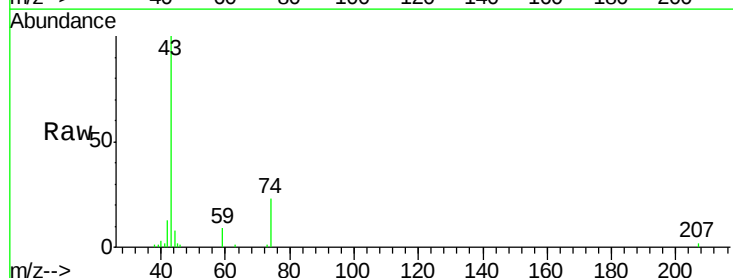
Acq: 10 May 2018 04:15

Tgt Ion: 43 Resp: 24424

Ion Ratio Lower Upper

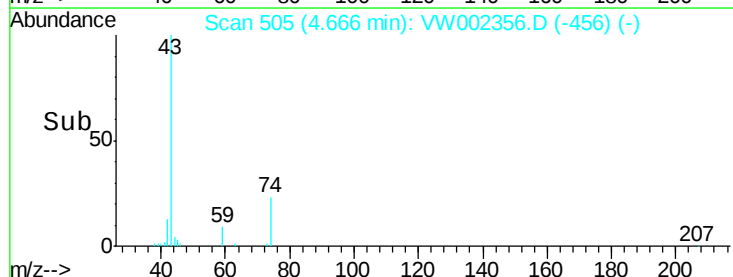
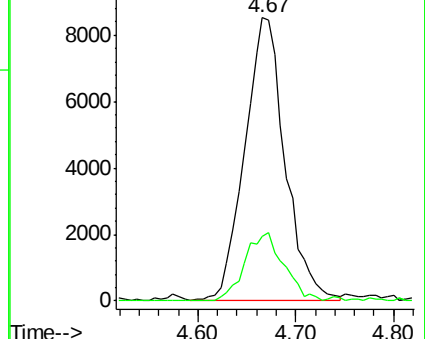
43 100

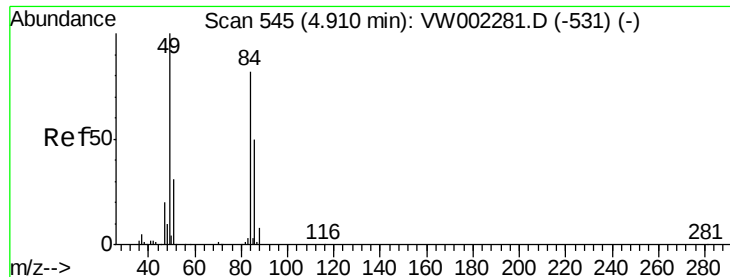
74 23.2 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW





#20

Methylene Chloride

Concen: 11.12 ug/l

RT: 4.90 min Scan# 544

Delta R.T. -0.01 min

Lab File: VW002356.D

Acq: 10 May 2018 04:15

Instrument :

MSVOA\_W

ClientSampleId :

EPE-F-6A(60-62)

Tgt Ion: 84 Resp: 19667

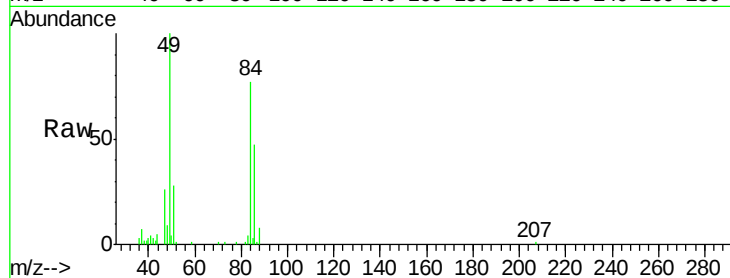
Ion Ratio Lower Upper

84 100

49 128.4 97.7 146.5

51 36.6 30.2 45.4

86 61.5 48.9 73.3

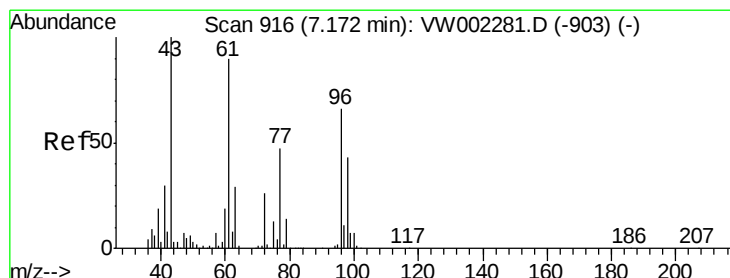
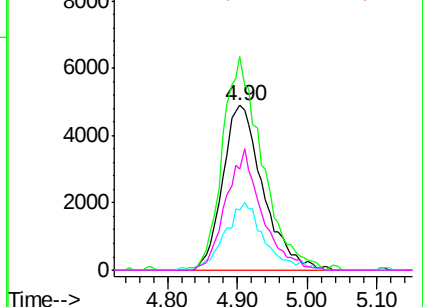
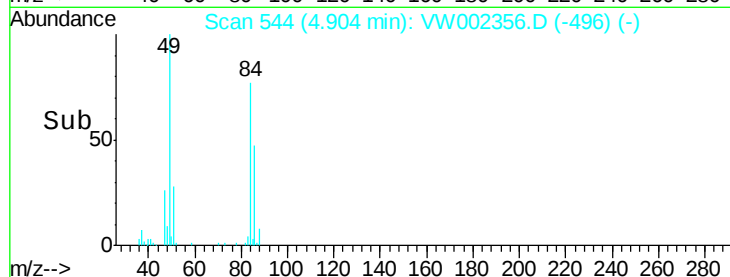


Abundance Ion 83.90 (83.60 to 84.60): VW

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: 1.03 ug/l

RT: 7.17 min Scan# 915

Delta R.T. -0.01 min

Lab File: VW002356.D

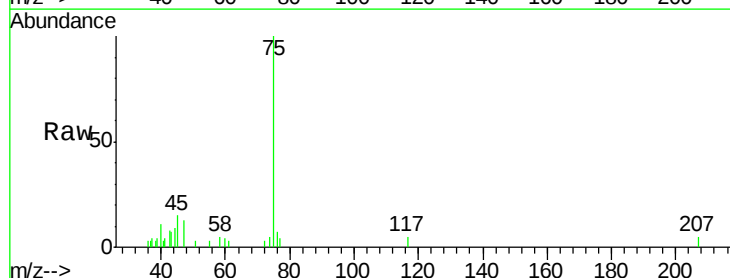
Acq: 10 May 2018 04:15

Tgt Ion: 43 Resp: 561

Ion Ratio Lower Upper

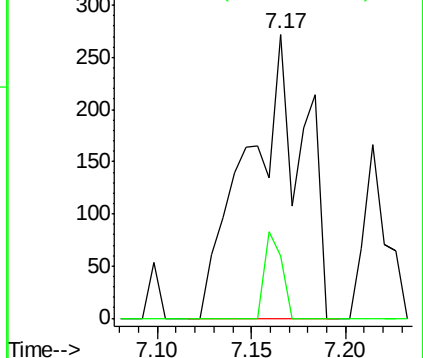
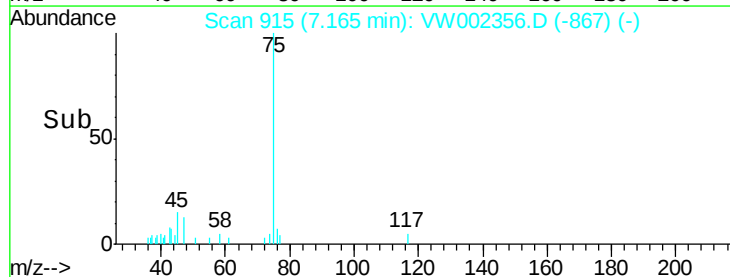
43 100

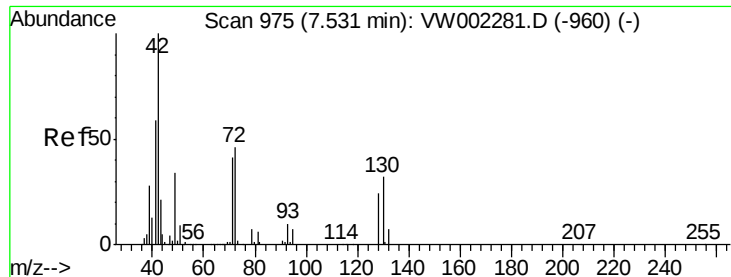
72 22.1 20.6 31.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

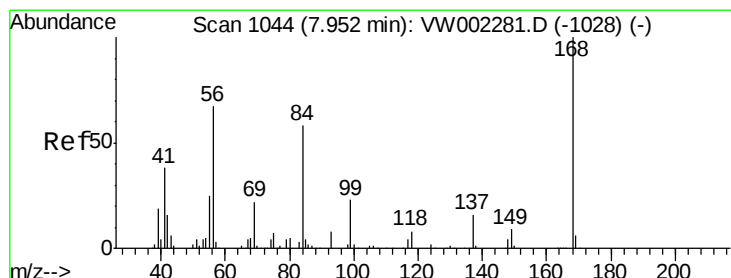
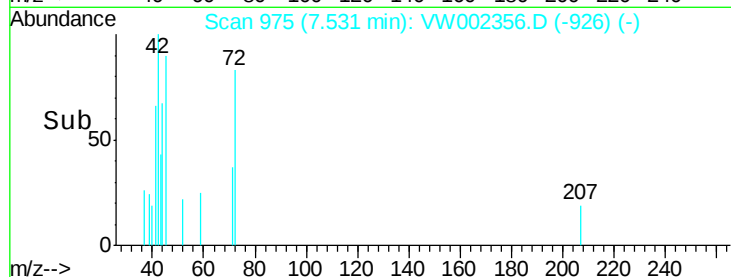
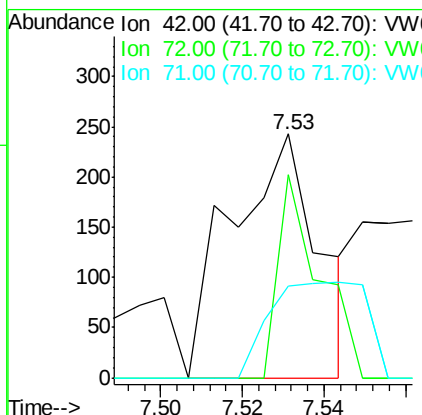
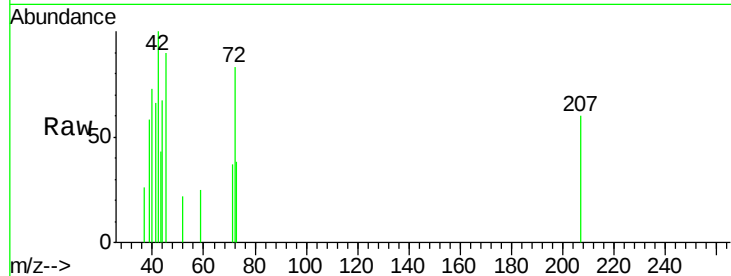




#29  
Tetrahydrofuran  
Concen: 1.01 ug/l  
RT: 7.53 min Scan# 975  
Delta R.T. -0.00 min  
Lab File: VW002356.D  
Acq: 10 May 2018 04:15

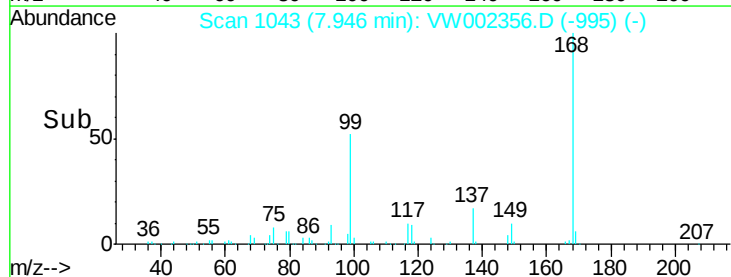
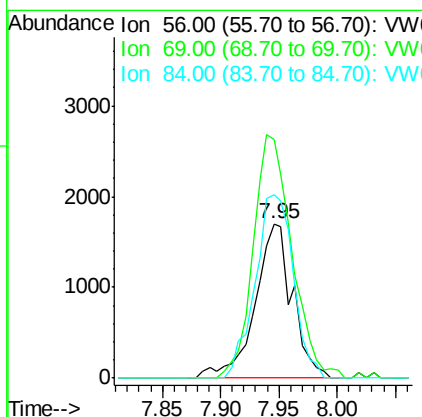
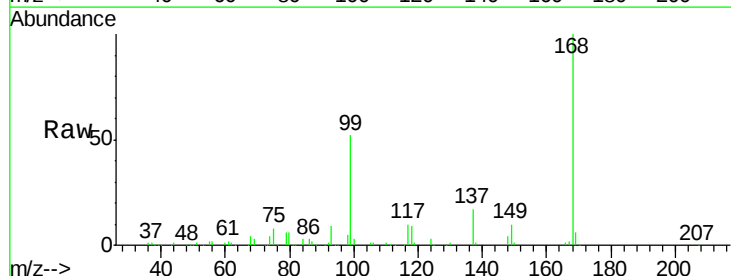
Instrument :  
MSVOA\_W  
ClientSampleId :  
EPE-F-6A(60-62)

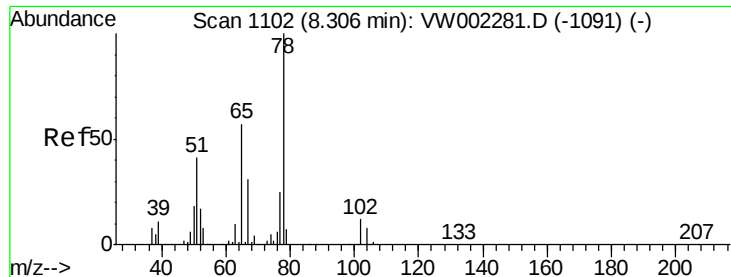
Tgt Ion: 42 Resp: 362  
Ion Ratio Lower Upper  
42 100  
72 39.5 34.5 51.7  
71 43.4 33.0 49.6



#31  
Cyclohexane  
Concen: 1.36 ug/l  
RT: 7.95 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: VW002356.D  
Acq: 10 May 2018 04:15

Tgt Ion: 56 Resp: 3791  
Ion Ratio Lower Upper  
56 100  
69 155.1 26.2 39.4#  
84 119.0 69.2 103.8#

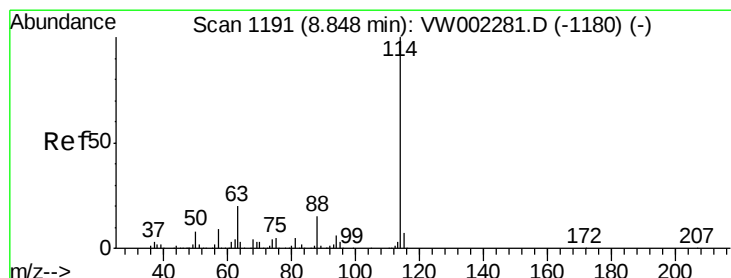
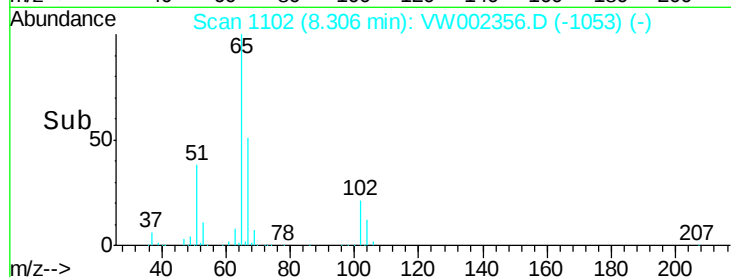
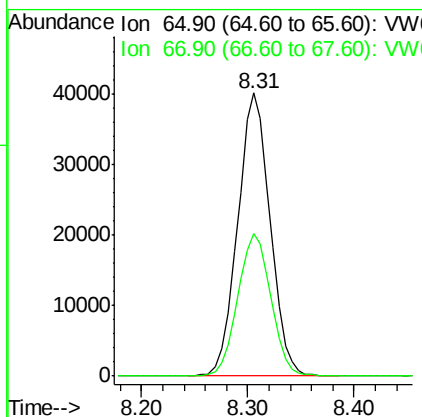
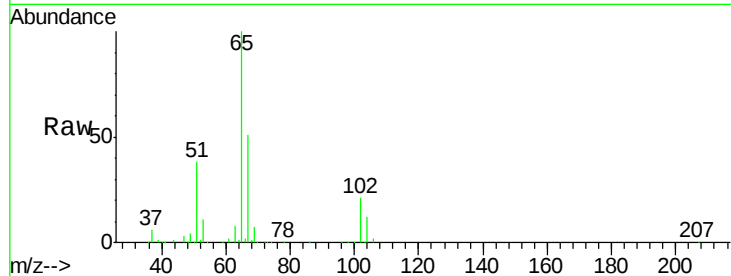




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.73 ug/l  
 RT: 8.31 min Scan# 1102  
 Delta R.T. -0.00 min  
 Lab File: VW002356.D  
 Acq: 10 May 2018 04:15

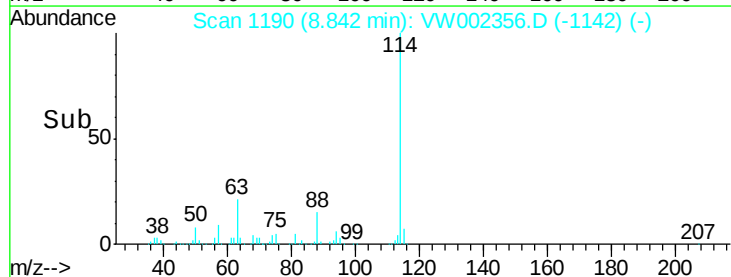
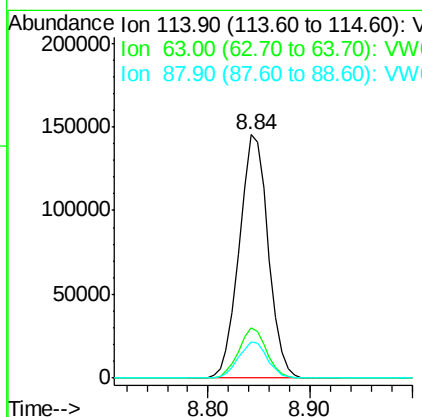
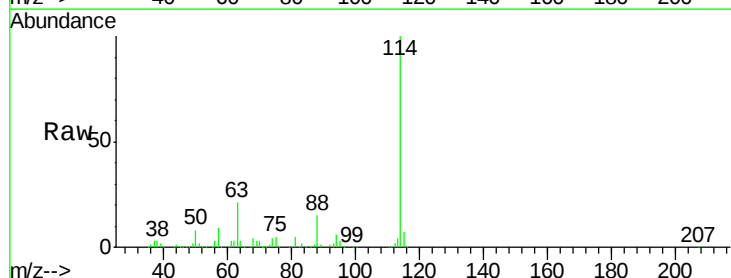
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EPE-F-6A(60-62)

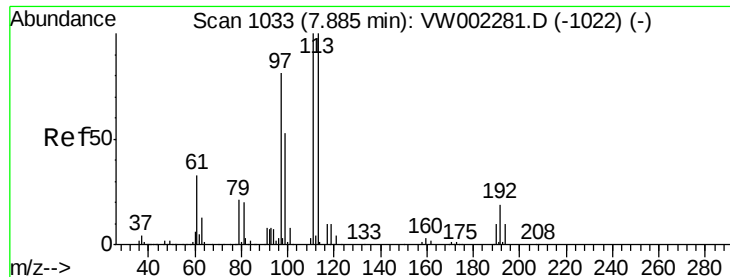
Tgt Ion: 65 Resp: 85869  
 Ion Ratio Lower Upper  
 65 100  
 67 51.6 0.0 107.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.84 min Scan# 1190  
 Delta R.T. -0.01 min  
 Lab File: VW002356.D  
 Acq: 10 May 2018 04:15

Tgt Ion: 114 Resp: 286158  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 39.0  
 88 14.9 0.0 29.6





#35

Dibromofluoromethane

Concen: 44.12 ug/l

RT: 7.88 min Scan# 1032

Delta R.T. -0.01 min

Lab File: VW002356.D

Acq: 10 May 2018 04:15

Instrument :

MSVOA\_W

ClientSampleId :

EPE-F-6A(60-62)

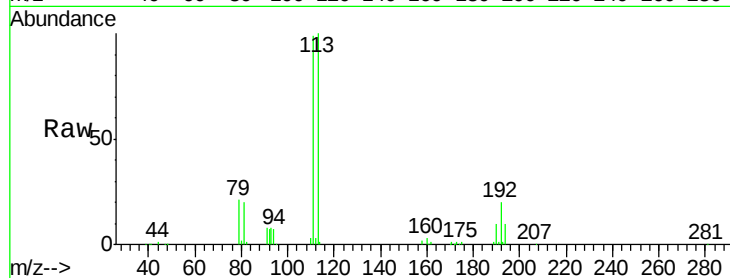
Tgt Ion:113 Resp: 80916

Ion Ratio Lower Upper

113 100

111 101.9 81.5 122.3

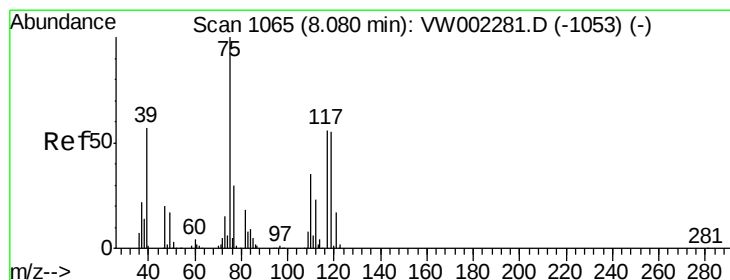
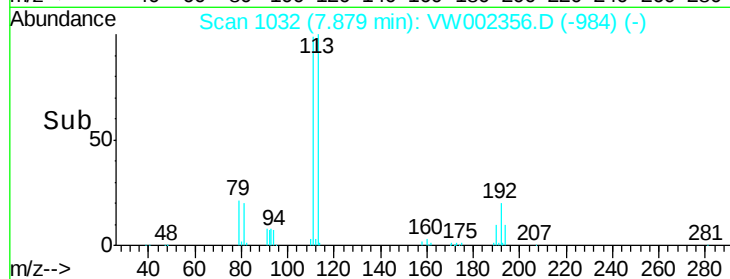
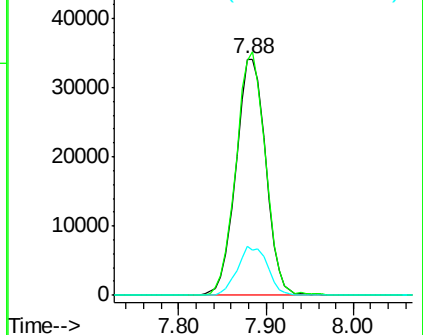
192 20.8 16.4 24.6



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: 5.18 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.13 min

Lab File: VW002356.D

Acq: 10 May 2018 04:15

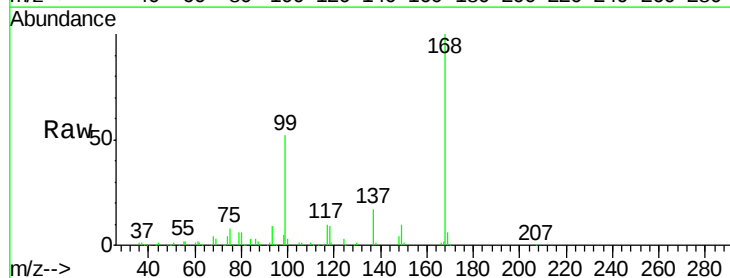
Tgt Ion: 75 Resp: 13400

Ion Ratio Lower Upper

75 100

110 8.4 18.1 54.1#

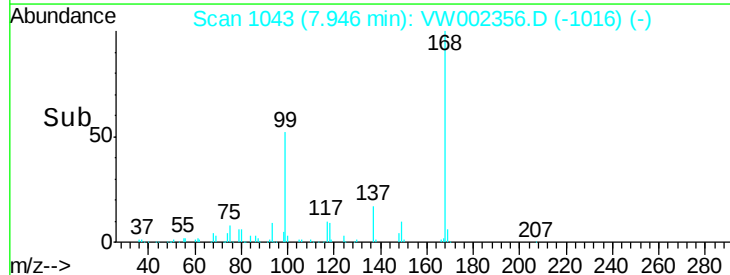
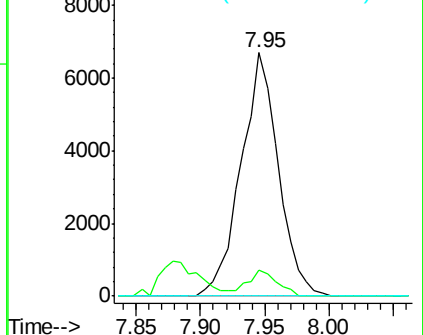
77 0.0 24.5 36.7#

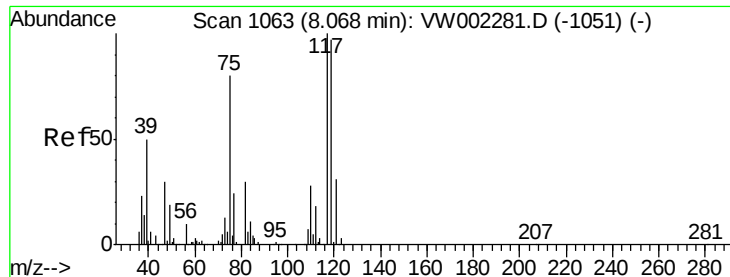


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.57 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.12 min

Lab File: VW002356.D

Acq: 10 May 2018 04:15

Instrument :

MSVOA\_W

ClientSampled :

EPE-F-6A(60-62)

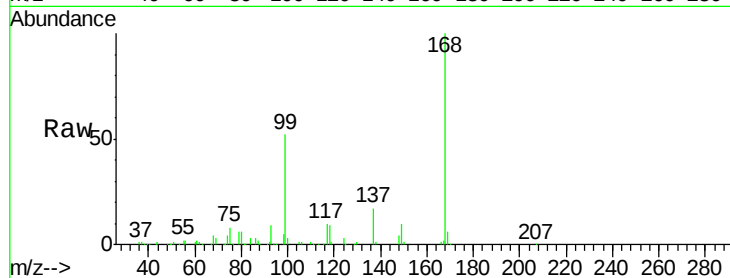
Tgt Ion:117 Resp: 16431

Ion Ratio Lower Upper

117 100

119 5.9 77.5 116.3#

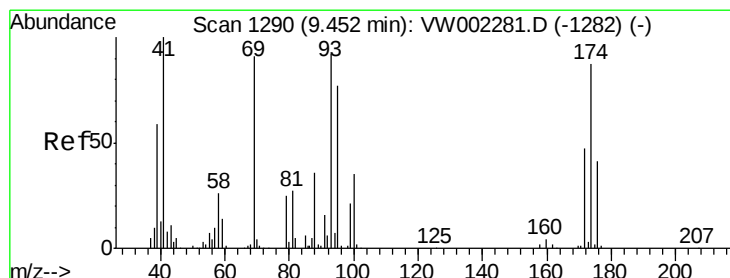
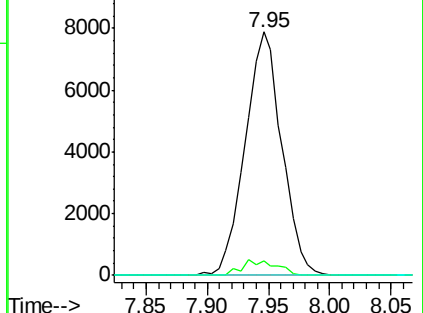
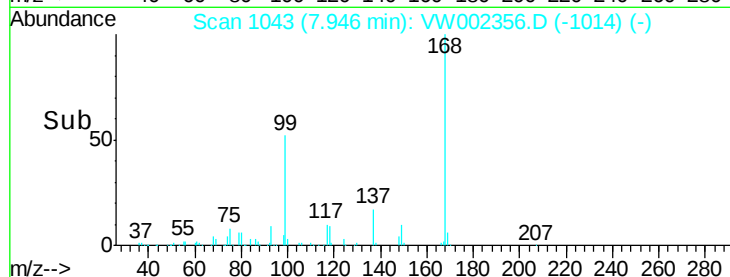
121 0.0 24.4 36.6#



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



#49

1,4-Dioxane

Concen: 5.29 ug/l

RT: 9.38 min Scan# 1278

Delta R.T. -0.07 min

Lab File: VW002356.D

Acq: 10 May 2018 04:15

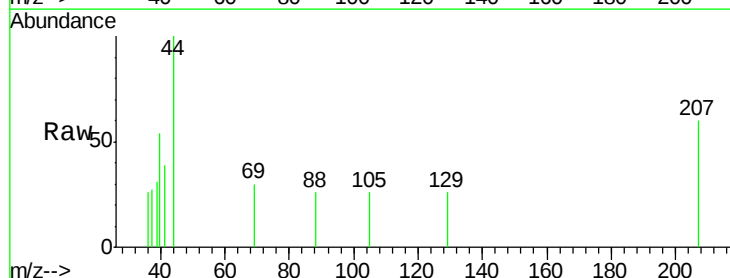
Tgt Ion: 88 Resp: 89

Ion Ratio Lower Upper

88 100

43 87.6 26.3 39.5#

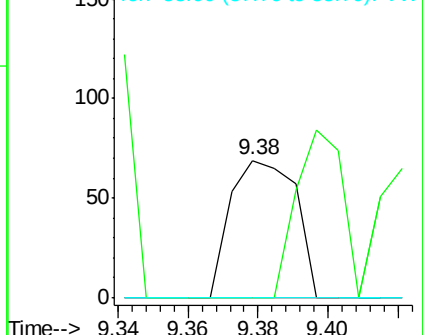
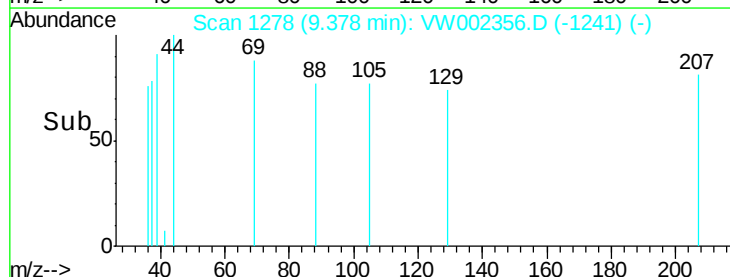
58 0.0 56.0 84.0#

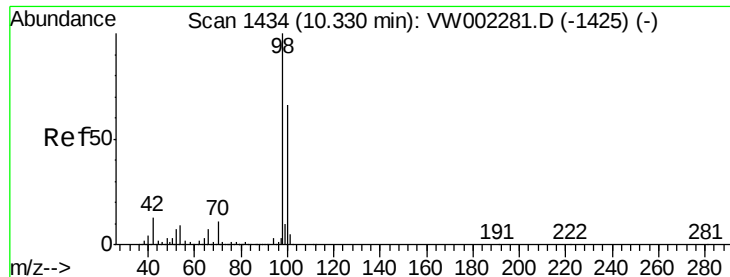


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 35.18 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW002356.D

Acq: 10 May 2018 04:15

Instrument :

MSVOA\_W

ClientSampleId :

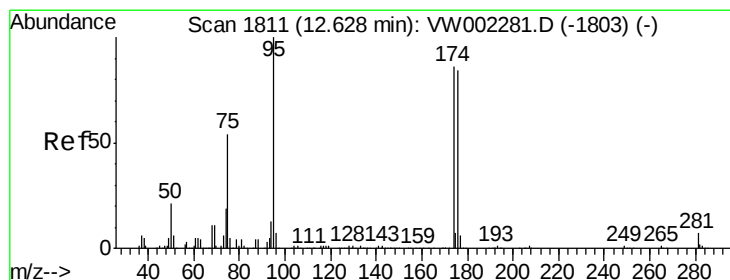
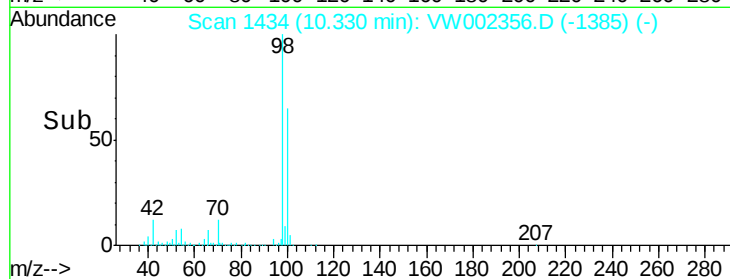
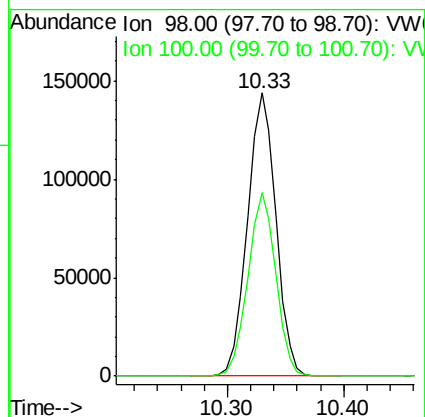
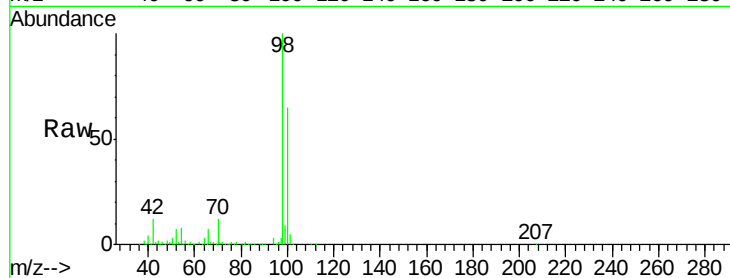
EPE-F-6A(60-62)

Tgt Ion: 98 Resp: 246050

Ion Ratio Lower Upper

98 100

100 63.6 51.4 77.2



#62

4-Bromofluorobenzene

Concen: 38.88 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW002356.D

Acq: 10 May 2018 04:15

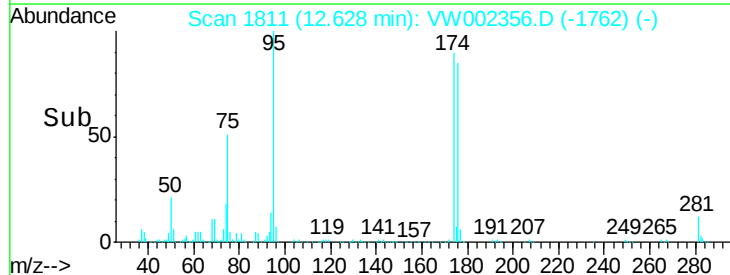
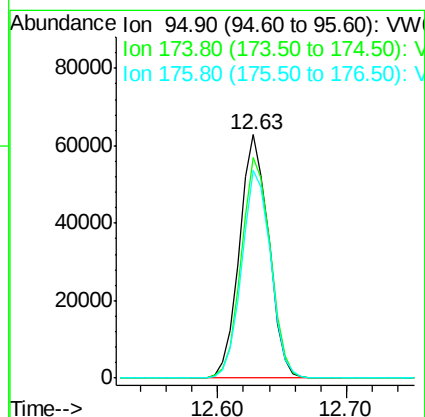
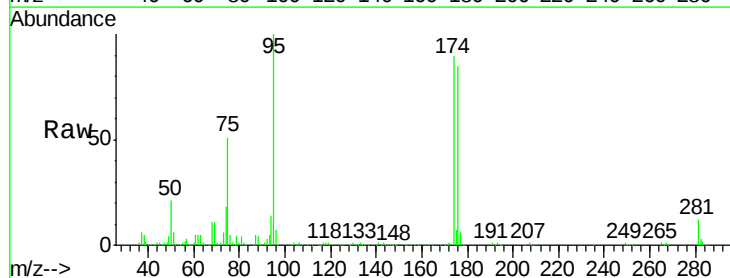
Tgt Ion: 95 Resp: 98265

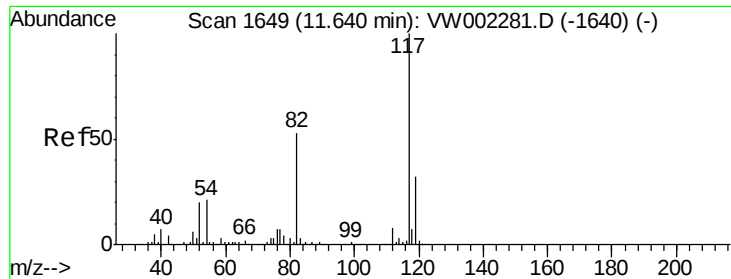
Ion Ratio Lower Upper

95 100

174 90.8 0.0 176.8

176 84.4 0.0 170.4

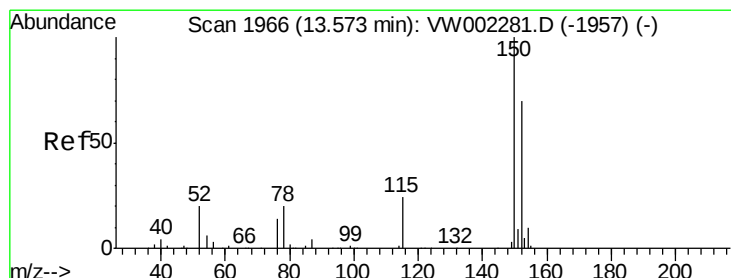
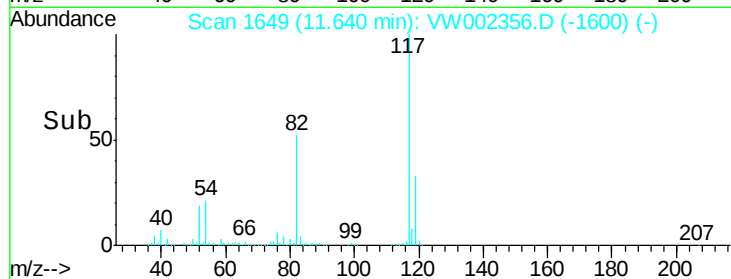
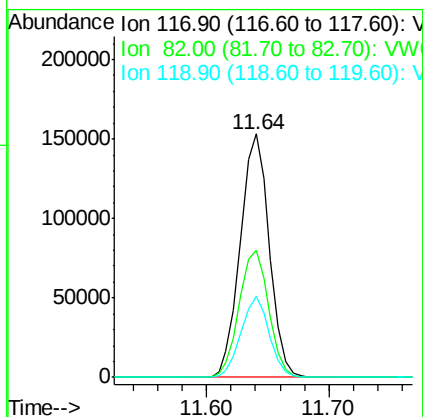
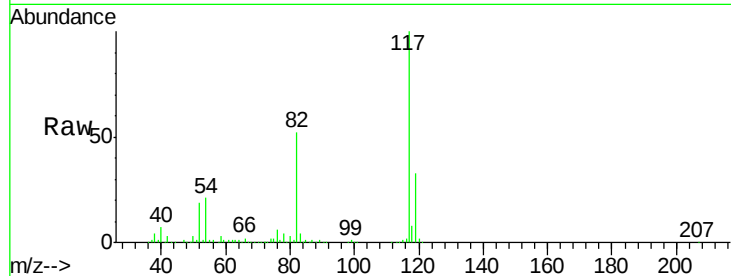




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. -0.00 min  
Lab File: VW002356.D  
Acq: 10 May 2018 04:15

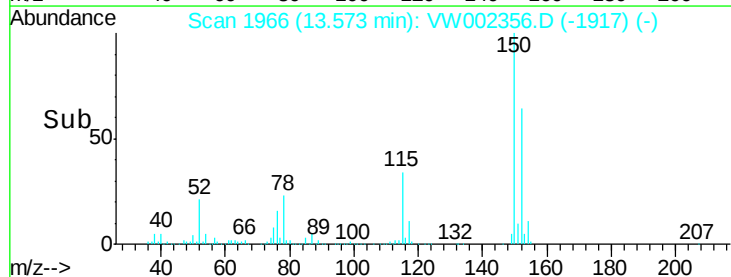
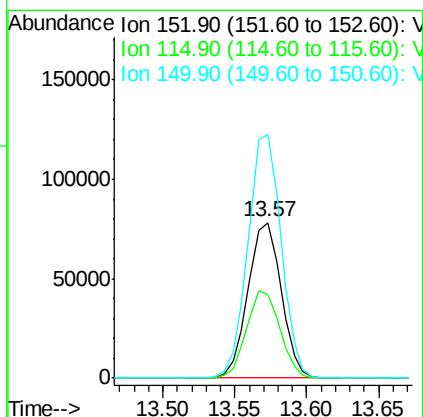
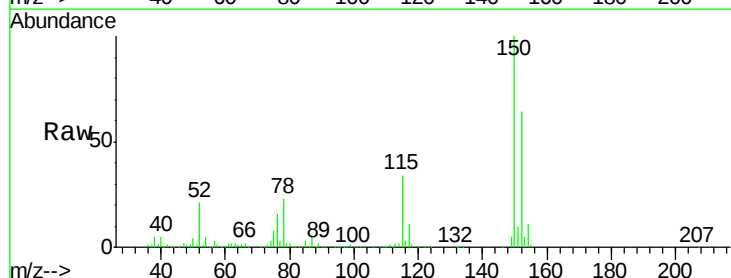
Instrument :  
MSVOA\_W  
ClientSampleId :  
EPE-F-6A(60-62)

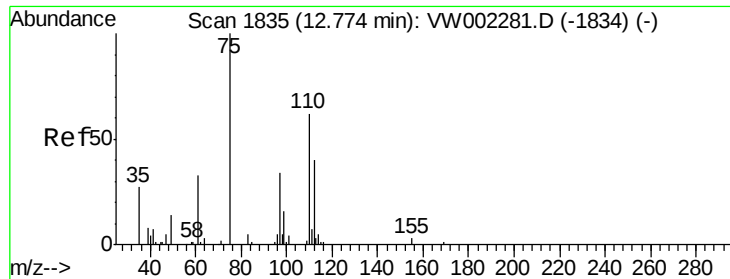
Tgt Ion:117 Resp: 251460  
Ion Ratio Lower Upper  
117 100  
82 52.2 42.6 63.8  
119 33.2 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.57 min Scan# 1966  
Delta R.T. -0.00 min  
Lab File: VW002356.D  
Acq: 10 May 2018 04:15

Tgt Ion:152 Resp: 124998  
Ion Ratio Lower Upper  
152 100  
115 56.2 28.5 85.5  
150 156.3 0.0 342.6

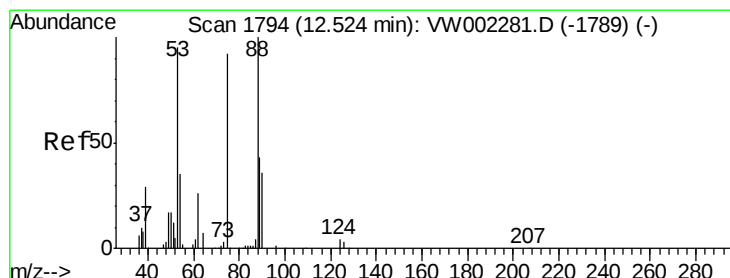
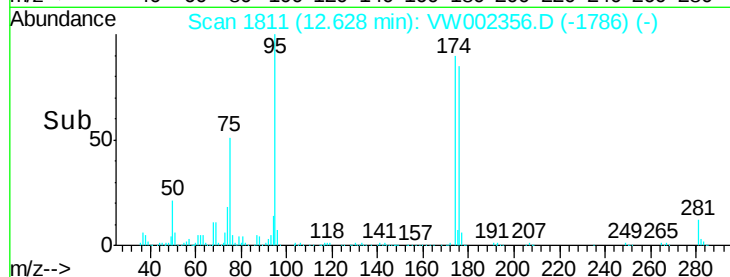
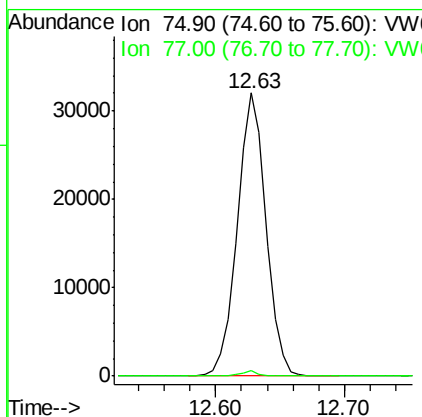
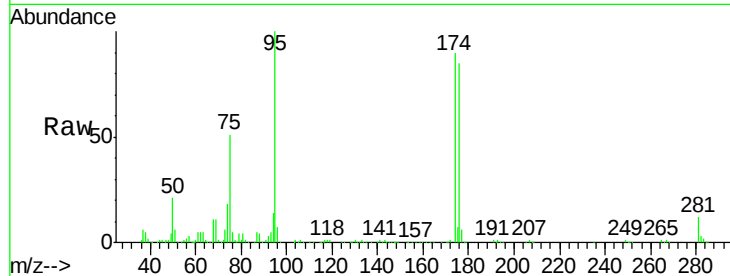




#76  
 1,2,3-Trichloropropane  
 Concen: 44.44 ug/l  
 RT: 12.63 min Scan# 1811  
 Delta R.T. -0.15 min  
 Lab File: VW002356.D  
 Acq: 10 May 2018 04:15

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EPE-F-6A(60-62)

Tgt Ion: 75 Resp: 49258  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 187.5 562.6#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 117.06 ug/l  
 RT: 12.63 min Scan# 1811  
 Delta R.T. 0.10 min  
 Lab File: VW002356.D  
 Acq: 10 May 2018 04:15

Tgt Ion: 75 Resp: 49258  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 79.9 119.9#  
 89 0.1 37.6 56.4#

