

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071718\  
 Data File : VW003987.D  
 Acq On : 17 Jul 2018 16:10  
 Operator : VA/AP  
 Sample : J3943-01RE  
 Misc : 5.08G/5ML/MSVOA W/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C-1RE

Quant Time: Jul 18 04:49:45 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W071618S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 16 15:06:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 172474   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 301587   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 282707   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 139103   | 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   | 117259   | 60.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 121.64% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 98766    | 51.04 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.08% |          |
| 50) Toluene-d8              | 10.33 | 98   | 333464   | 44.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.82%  |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 116710   | 43.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.22%  |          |

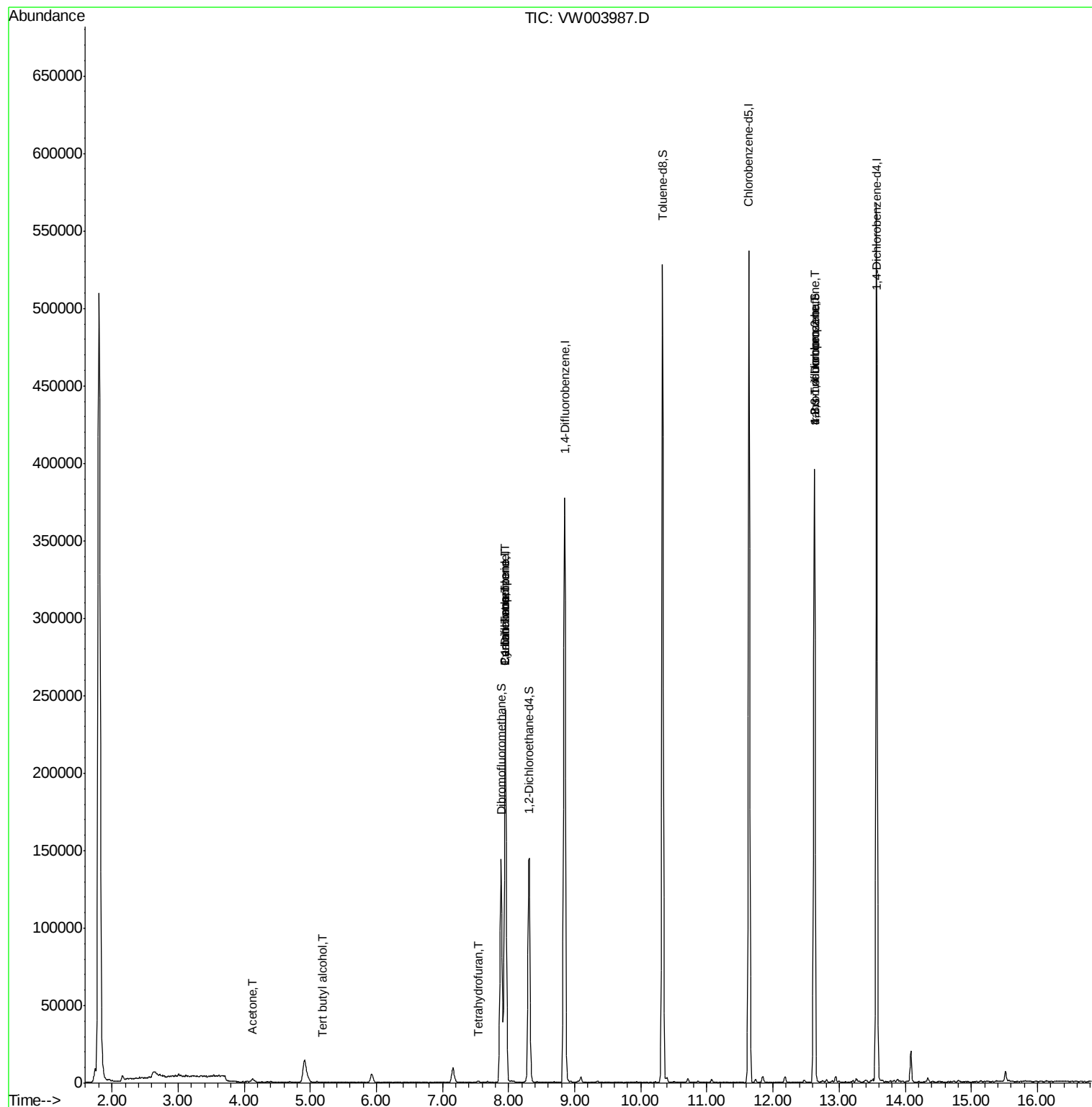
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.19  | 59   | 257      | 1.931     | ug/l # | 72     |
| 16) Acetone                    | 4.12  | 43   | 4000     | 8.634     | ug/l   | 93     |
| 20) Methylene Chloride         | 4.92  | 84   | 13034    | Below Cal |        | 94     |
| 29) Tetrahydrofuran            | 7.55  | 42   | 776      | 1.998     | ug/l # | 78     |
| 31) Cyclohexane                | 7.95  | 56   | 4503     | 1.408     | ug/l # | 13     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 15177    | 4.891     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 17433    | 6.013     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 63623    | 46.071    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 63623    | 101.908   | ug/l # | 11     |

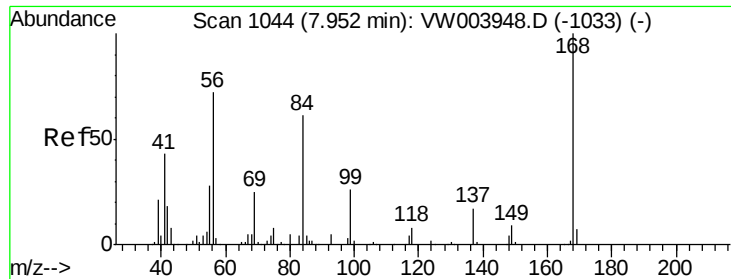
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW071718\  
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW003987.D

Acq: 17 Jul 2018 16:10

Instrument :

MSVOA\_W

ClientSampled :

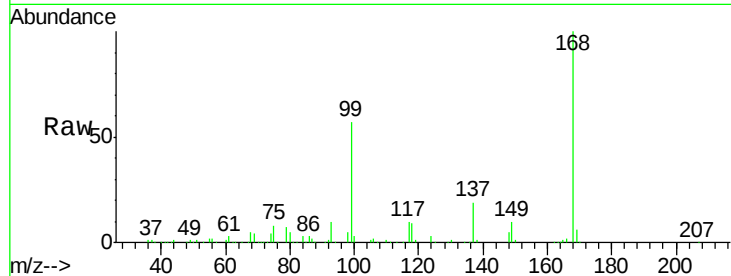
C-1RE

Tot Ion:168 Resp: 172474

Ion Ratio Lower Upper

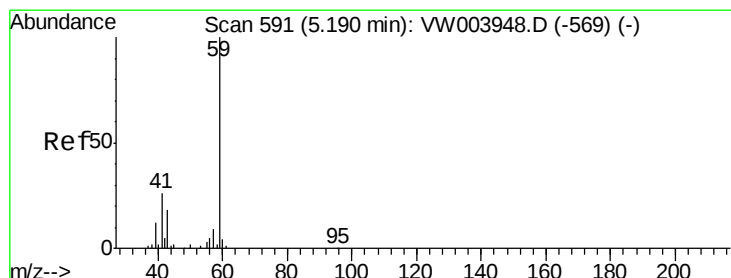
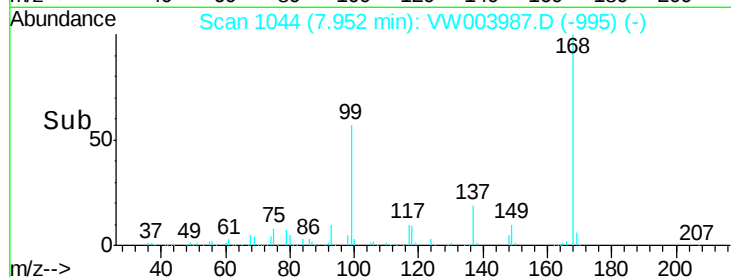
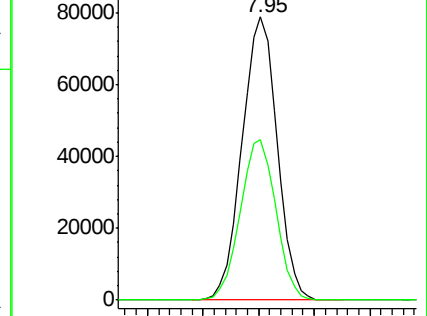
168 100

99 56.6 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.931 ug/l

RT: 5.19 min Scan# 591

Delta R.T. -0.00 min

Lab File: VW003987.D

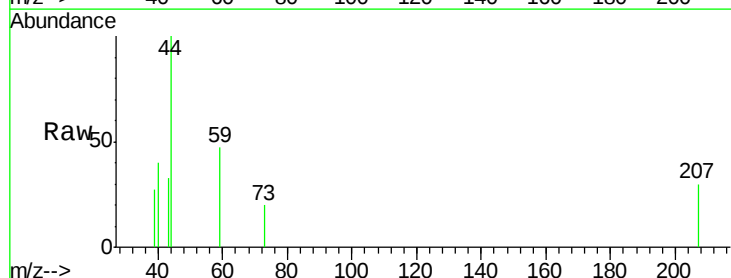
Acq: 17 Jul 2018 16:10

Tgt Ion: 59 Resp: 257

Ion Ratio Lower Upper

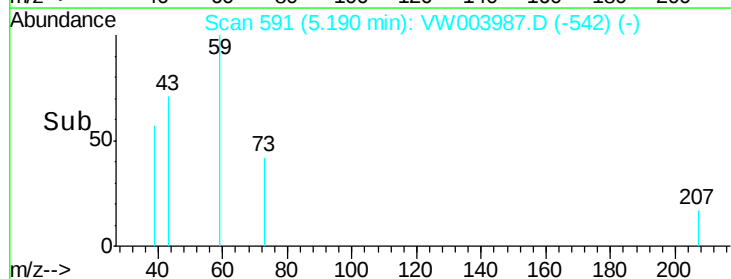
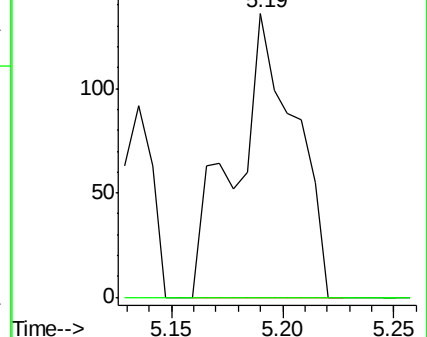
59 100

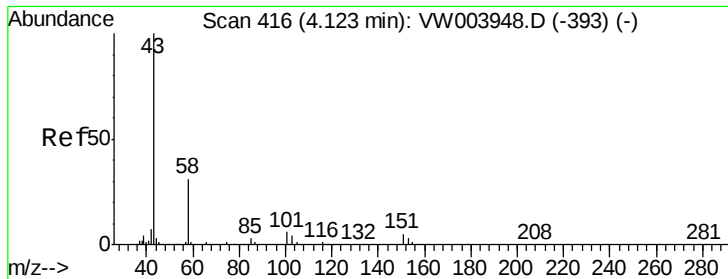
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 8.634 ug/l

RT: 4.12 min Scan# 416

Delta R.T. -0.00 min

Lab File: VW003987.D

Acq: 17 Jul 2018 16:10

Instrument :

MSVOA\_W

ClientSampled :

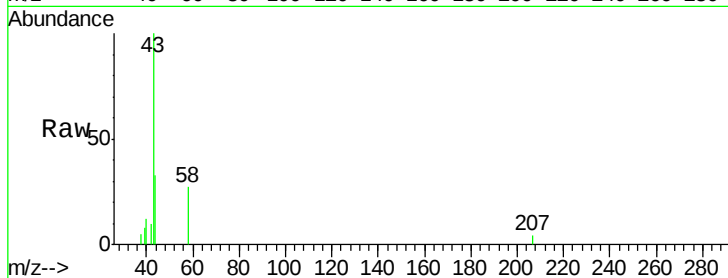
C-1RE

Tot Ion: 43 Resp: 4000

Ion Ratio Lower Upper

43 100

58 26.9 24.5 36.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

1500

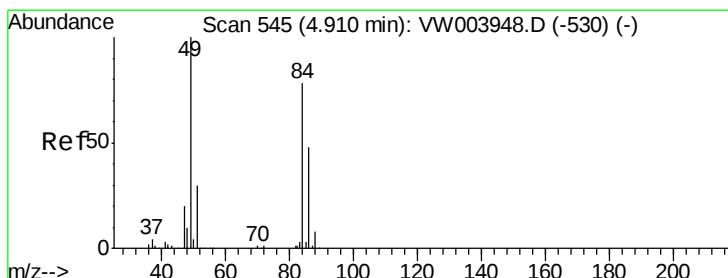
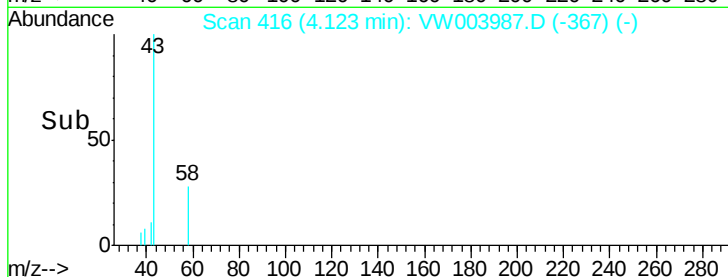
1000

500

0

4.12

Time--> 4.00 4.10 4.20



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 546

Delta R.T. 0.01 min

Lab File: VW003987.D

Acq: 17 Jul 2018 16:10

Tgt Ion: 84 Resp: 13034

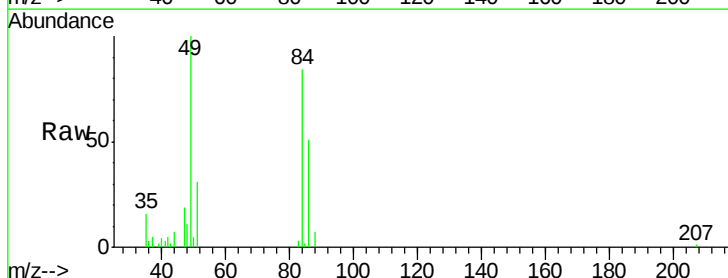
Ion Ratio Lower Upper

84 100

49 118.8 102.9 154.3

51 37.2 30.9 46.3

86 60.9 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

6000

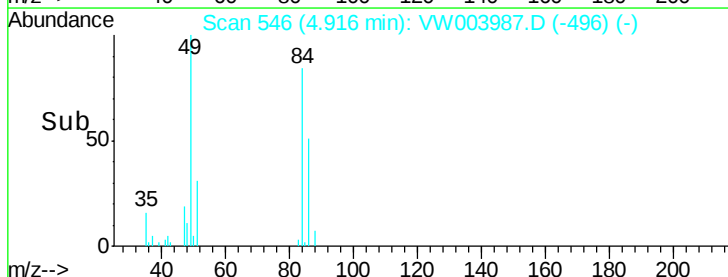
4000

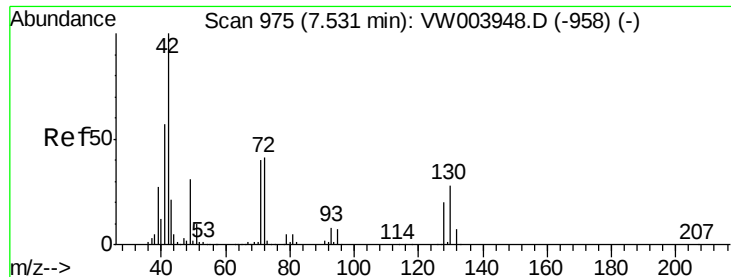
2000

0

4.92

Time--> 4.80 4.90 5.00 5.10

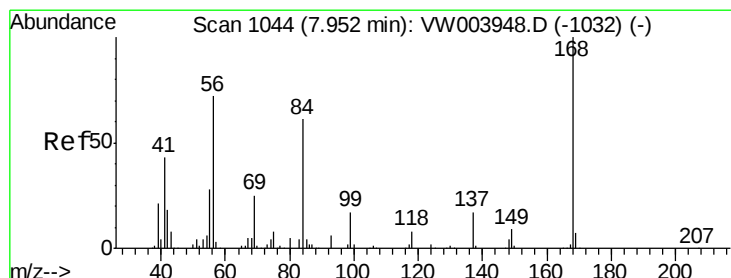
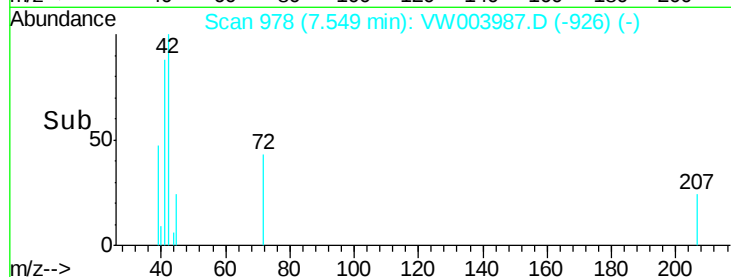
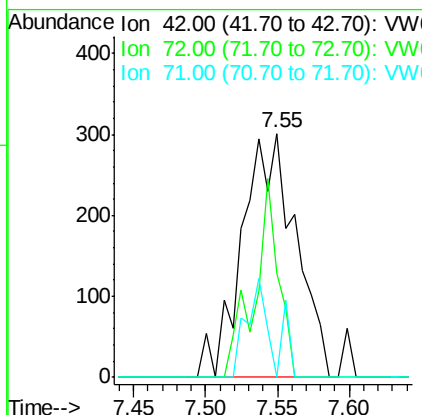
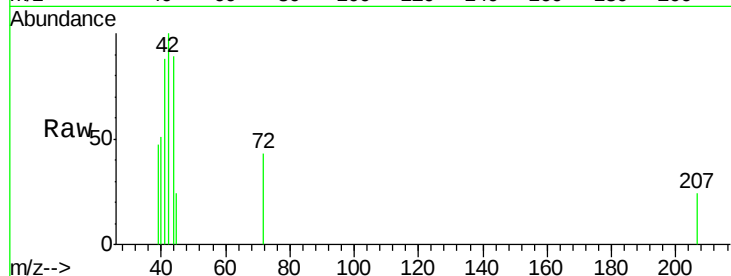




#29  
Tetrahydrofuran  
Concen: 1.998 ug/l  
RT: 7.55 min Scan# 978  
Delta R.T. 0.02 min  
Lab File: VW003987.D  
Acq: 17 Jul 2018 16:10

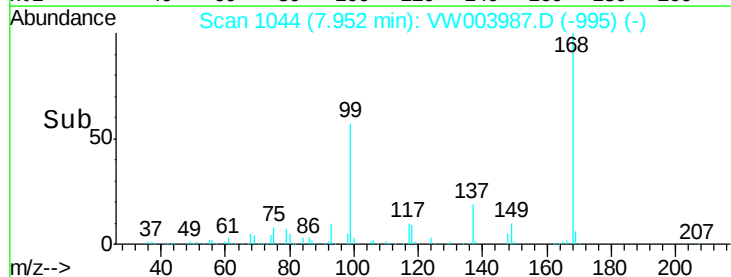
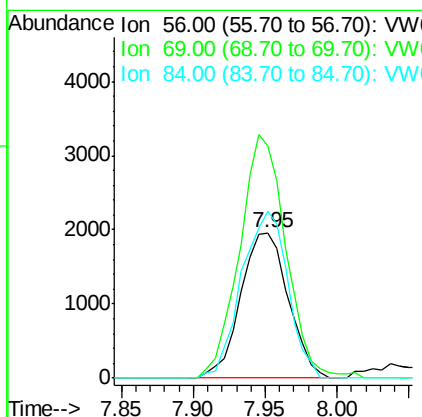
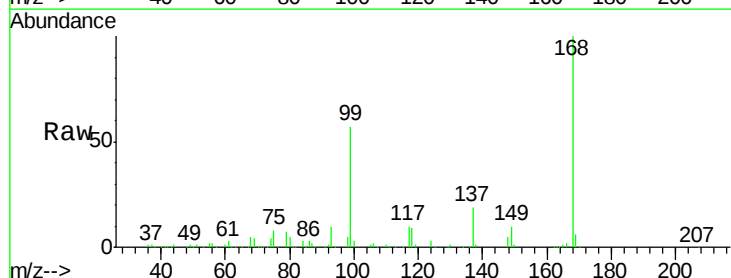
Instrument :  
MSVOA\_W  
ClientSampleId :  
C-1RE

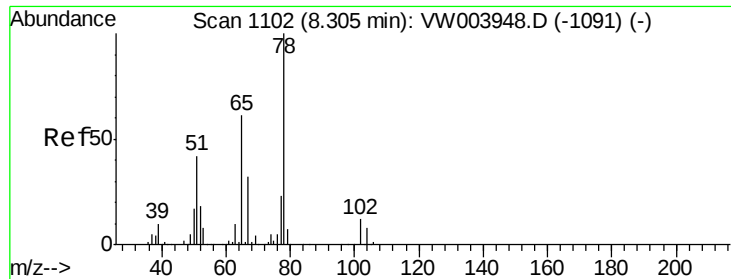
Tot Ion: 42 Resp: 776  
Ion Ratio Lower Upper  
42 100  
72 36.9 32.6 48.8  
71 15.1 30.5 45.7#



#31  
Cyclohexane  
Concen: 1.408 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. -0.00 min  
Lab File: VW003987.D  
Acq: 17 Jul 2018 16:10

Tgt Ion: 56 Resp: 4503  
Ion Ratio Lower Upper  
56 100  
69 159.4 27.8 41.8#  
84 114.5 67.2 100.8#

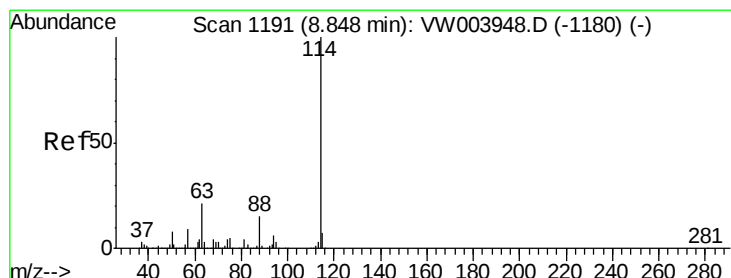
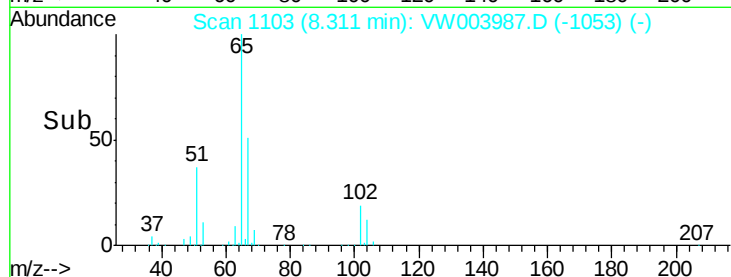
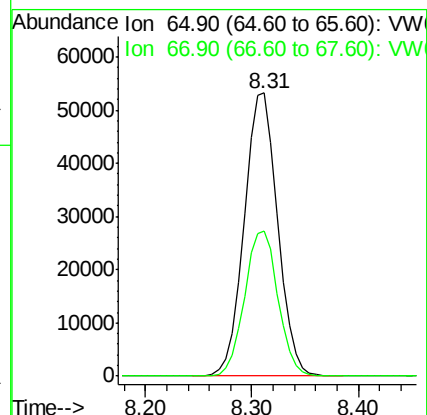
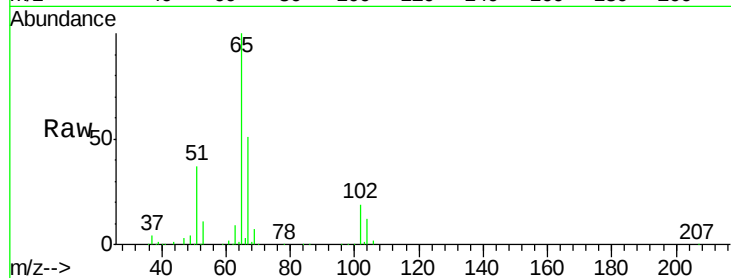




#33  
 1,2-Dichloroethane-d4  
 Concen: 60.822 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. 0.01 min  
 Lab File: VW003987.D  
 Acq: 17 Jul 2018 16:10

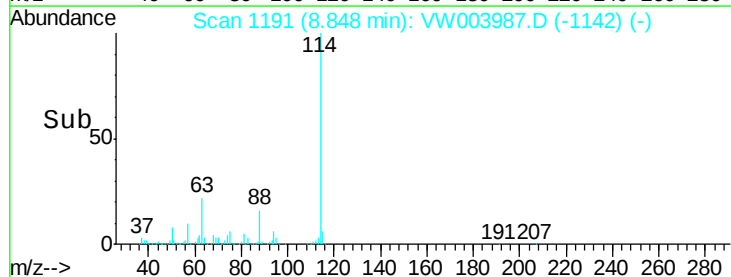
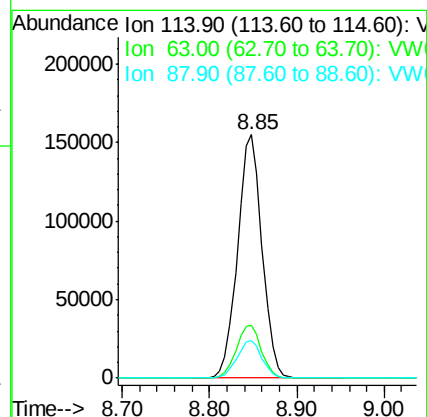
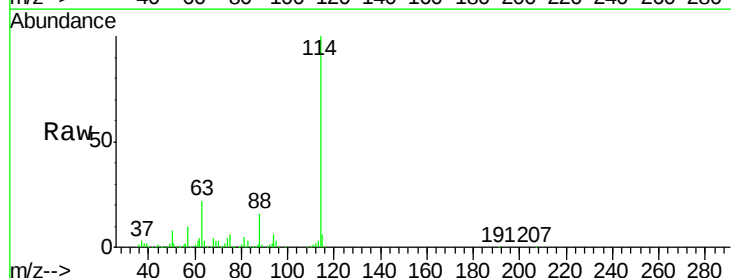
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 C-1RE

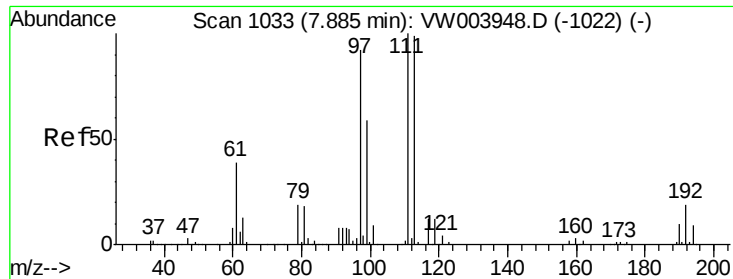
Tot Ion: 65 Resp: 117259  
 Ion Ratio Lower Upper  
 65 100  
 67 51.4 0.0 105.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW003987.D  
 Acq: 17 Jul 2018 16:10

Tgt Ion: 114 Resp: 301587  
 Ion Ratio Lower Upper  
 114 100  
 63 21.9 0.0 42.8  
 88 15.6 0.0 30.4

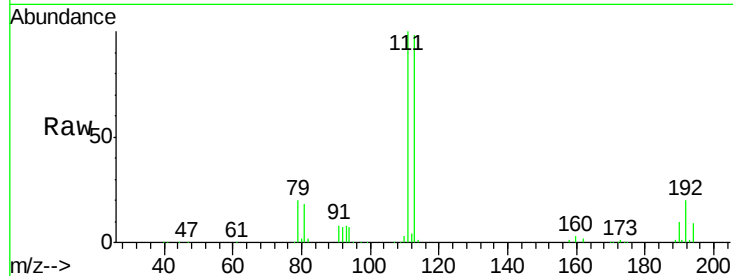




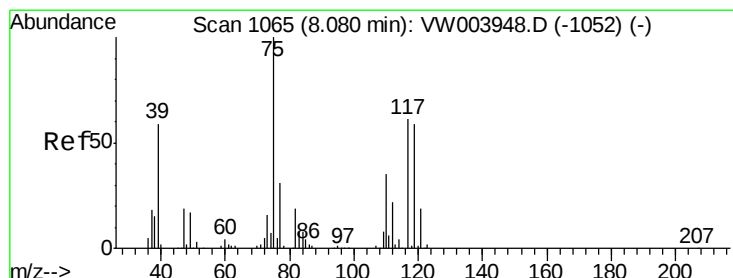
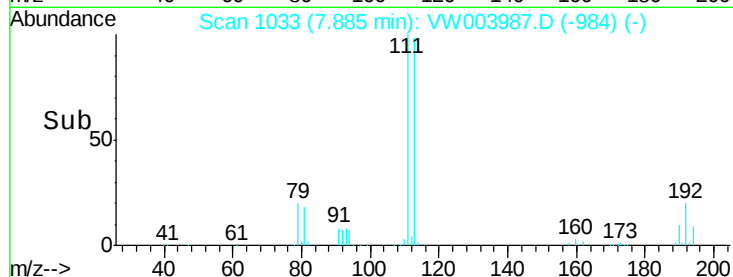
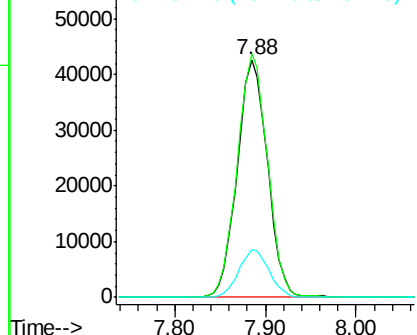
#35  
 Dibromofluoromethane  
 Concen: 51.040 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW003987.D  
 Acq: 17 Jul 2018 16:10

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 C-1RE

Tot Ion:113 Resp: 98766  
 Ion Ratio Lower Upper  
 113 100  
 111 103.0 81.3 121.9  
 192 20.1 15.8 23.6

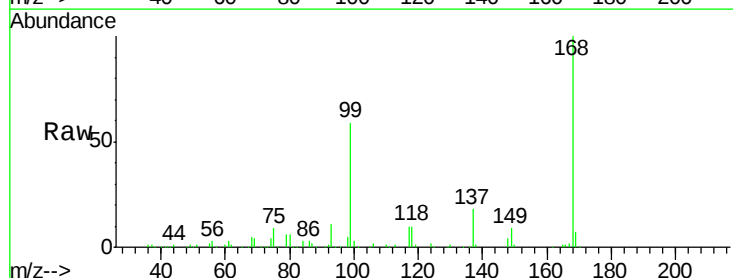


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

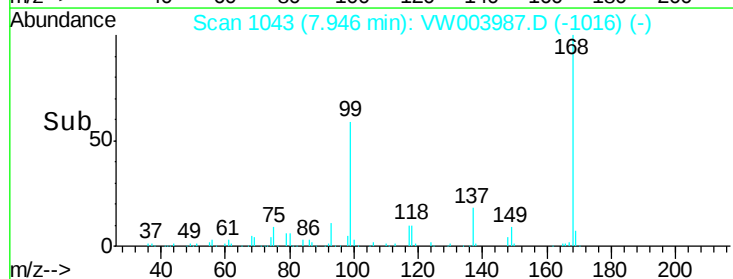
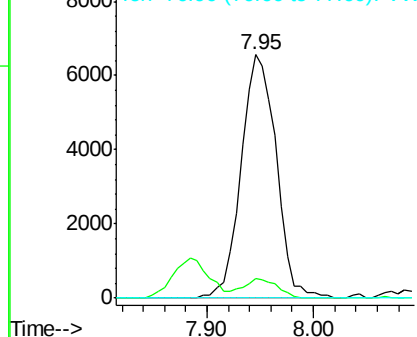


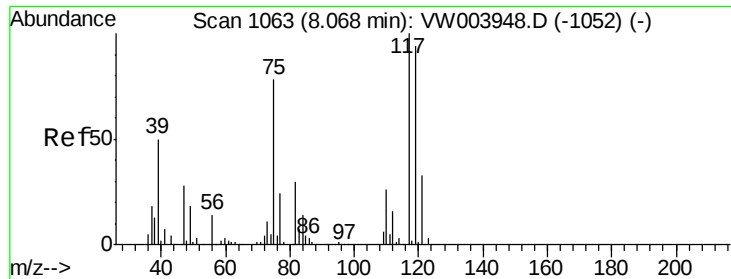
#36  
 1,1-Dichloropropene  
 Concen: 4.891 ug/l  
 RT: 7.95 min Scan# 1043  
 Delta R.T. -0.13 min  
 Lab File: VW003987.D  
 Acq: 17 Jul 2018 16:10

Tgt Ion: 75 Resp: 15177  
 Ion Ratio Lower Upper  
 75 100  
 110 7.6 17.0 51.0#  
 77 0.0 24.9 37.3#



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

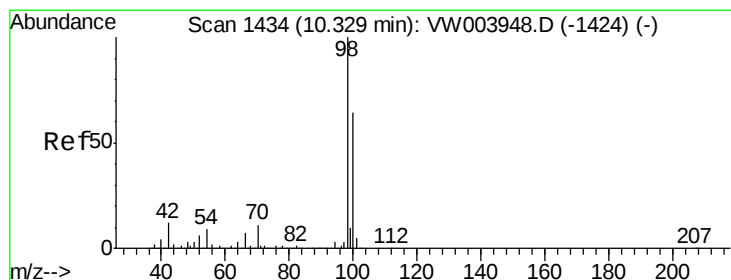
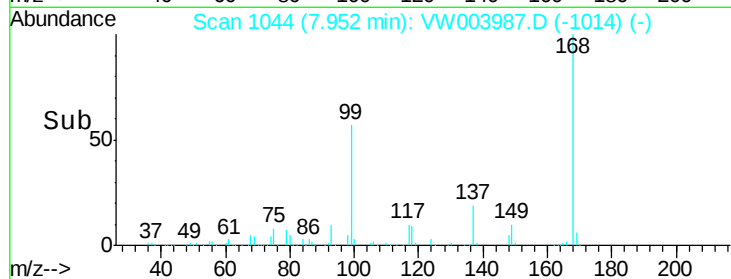
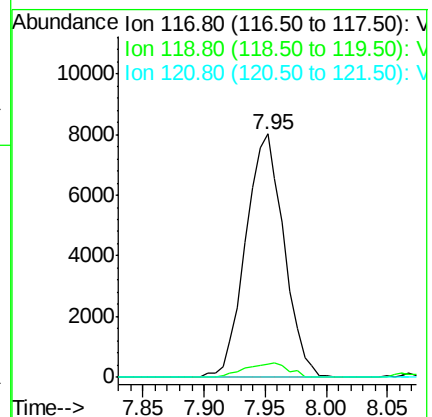
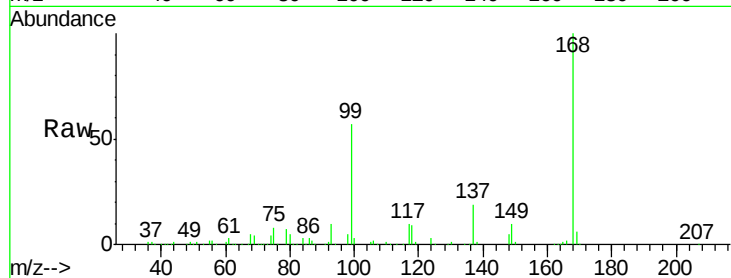




#38  
Carbon Tetrachloride  
Concen: 6.013 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. -0.12 min  
Lab File: VW003987.D  
Acq: 17 Jul 2018 16:10

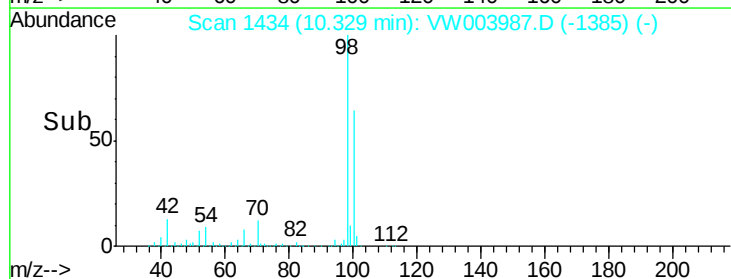
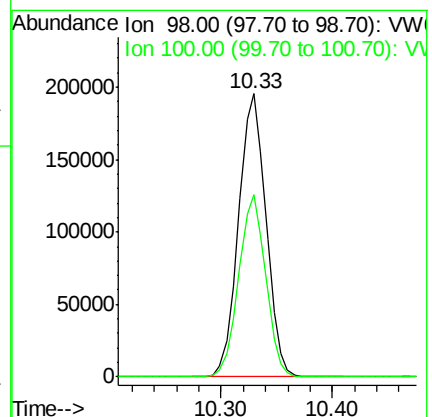
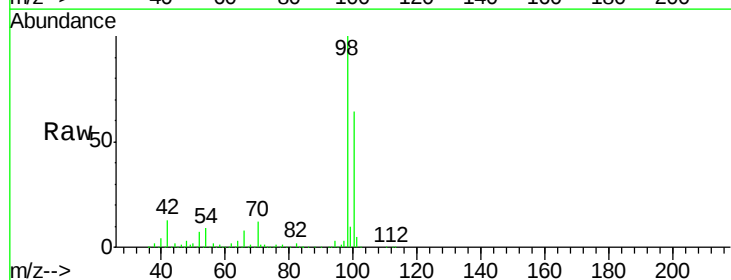
Instrument :  
MSVOA\_W  
ClientSampleId :  
C-1RE

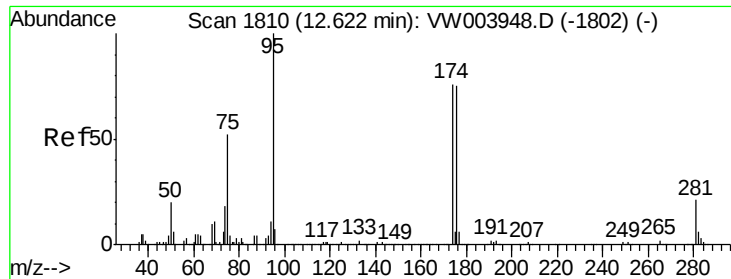
Tot Ion:117 Resp: 17433  
Ion Ratio Lower Upper  
117 100  
119 5.3 75.3 112.9#  
121 0.0 26.0 39.0#



#50  
Toluene-d8  
Concen: 44.412 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. -0.00 min  
Lab File: VW003987.D  
Acq: 17 Jul 2018 16:10

Tgt Ion: 98 Resp: 333464  
Ion Ratio Lower Upper  
98 100  
100 63.1 51.2 76.8

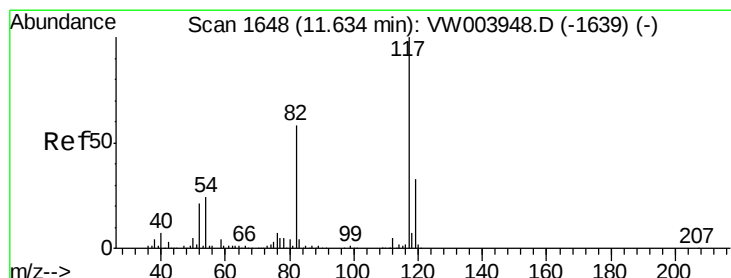
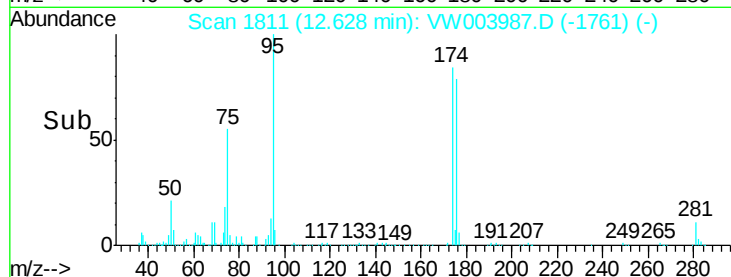
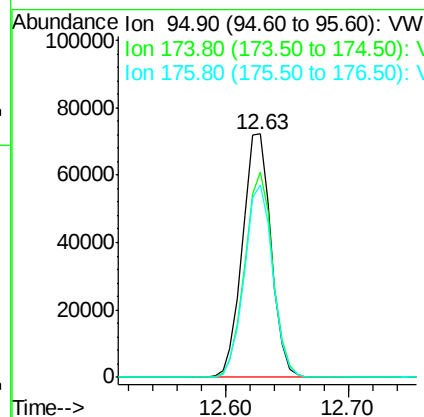
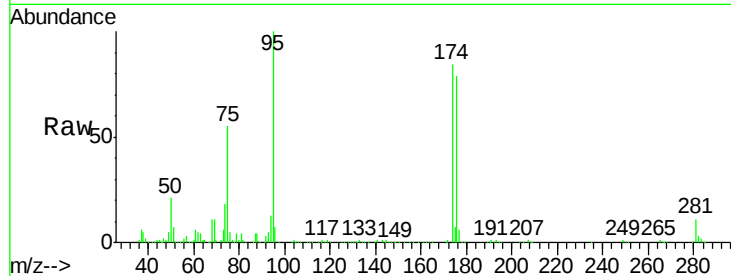




#62  
4-Bromofluorobenzene  
Concen: 43.105 ug/l  
RT: 12.63 min Scan# 1811  
Delta R.T. 0.01 min  
Lab File: VW003987.D  
Acq: 17 Jul 2018 16:10

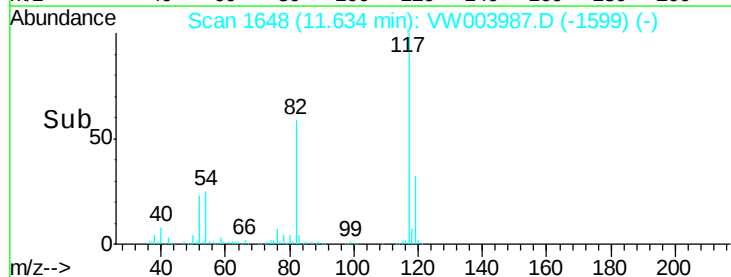
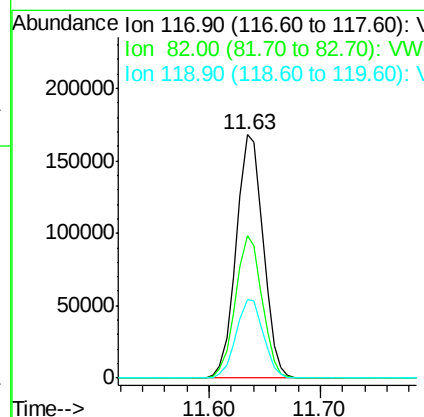
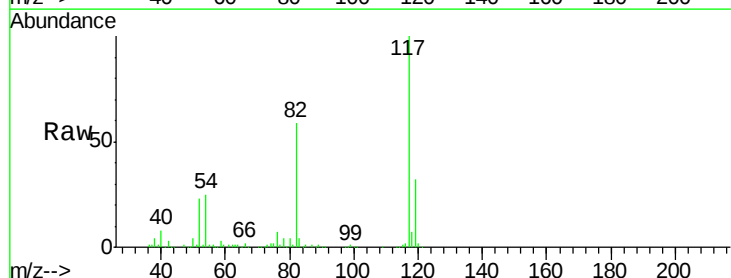
Instrument :  
MSVOA\_W  
ClientSampleId :  
C-1RE

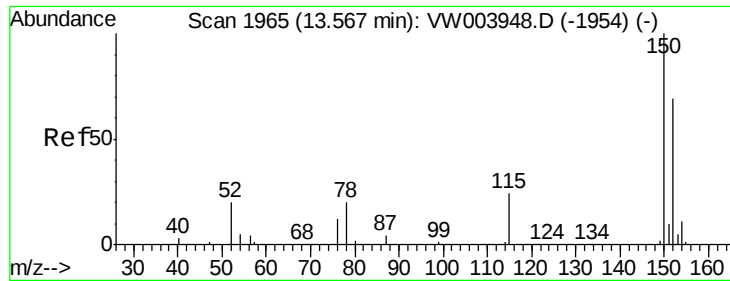
Tot Ion: 95 Resp: 116710  
Ion Ratio Lower Upper  
95 100  
174 82.4 0.0 160.2  
176 78.6 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW003987.D  
Acq: 17 Jul 2018 16:10

Tgt Ion: 117 Resp: 282707  
Ion Ratio Lower Upper  
117 100  
82 58.5 46.5 69.7  
119 32.4 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VW003987.D

Acq: 17 Jul 2018 16:10

Instrument :

MSVOA\_W

ClientSampleId :

C-1RE

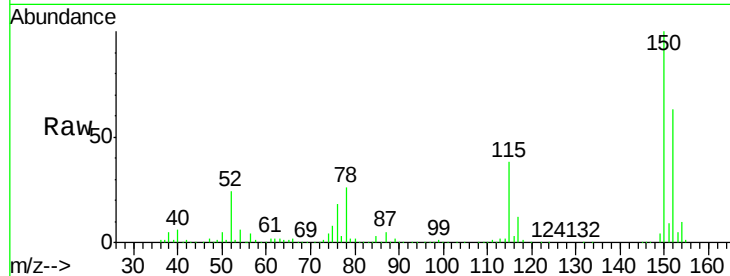
Tot Ion:152 Resp: 139103

Ion Ratio Lower Upper

152 100

115 59.1 29.2 87.6

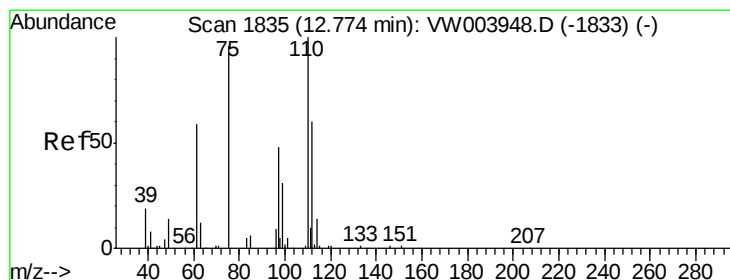
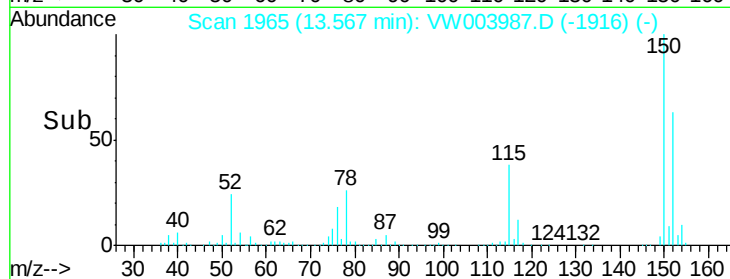
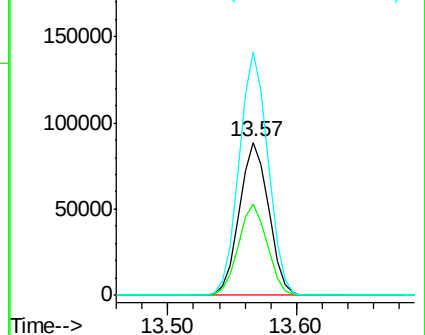
150 157.4 0.0 345.2



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: 46.071 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.15 min

Lab File: VW003987.D

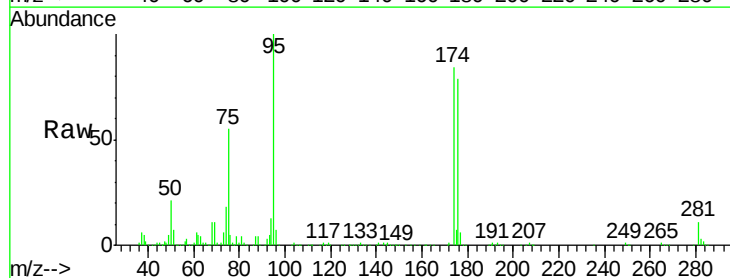
Acq: 17 Jul 2018 16:10

Tgt Ion: 75 Resp: 63623

Ion Ratio Lower Upper

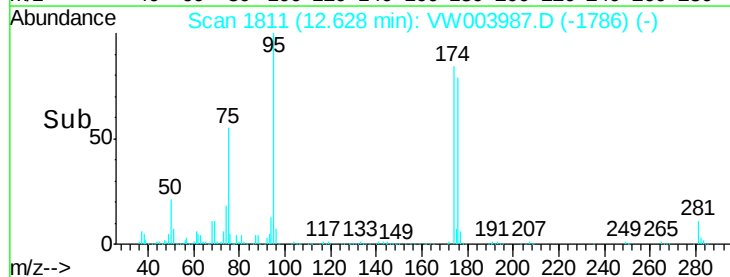
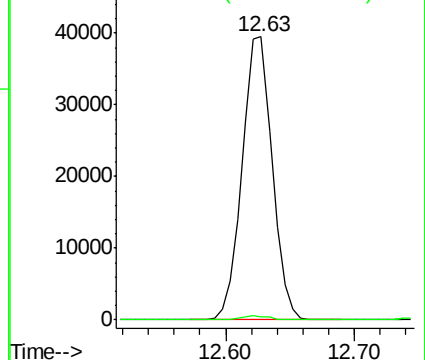
75 100

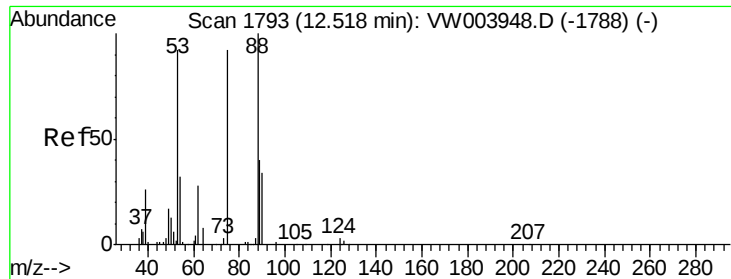
77 1.3 0.0 0.0#



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: 101.908 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.11 min

Lab File: VW003987.D

Acq: 17 Jul 2018 16:10

Instrument :

MSVOA\_W

ClientSampleId :

C-1RE

Tot Ion: 75 Resp: 63623

Ion Ratio Lower Upper

75 100

53 0.3 77.6 116.4#

89 0.0 36.6 54.8#

