

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100418\  
 Data File : VW005841.D  
 Acq On : 04 Oct 2018 07:29  
 Operator : SY/AP  
 Sample : VW1004SBL01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1004SBL01

Quant Time: Oct 04 09:12:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100418S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 04 07:08:57 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 168996   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 270947   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 269512   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 135535   | 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   | 113145   | 55.19 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 110.38% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 92052    | 51.83 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.66% |          |
| 50) Toluene-d8              | 10.33 | 98   | 374280   | 53.08 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 106.16% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 129972   | 49.87 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.74%  |          |

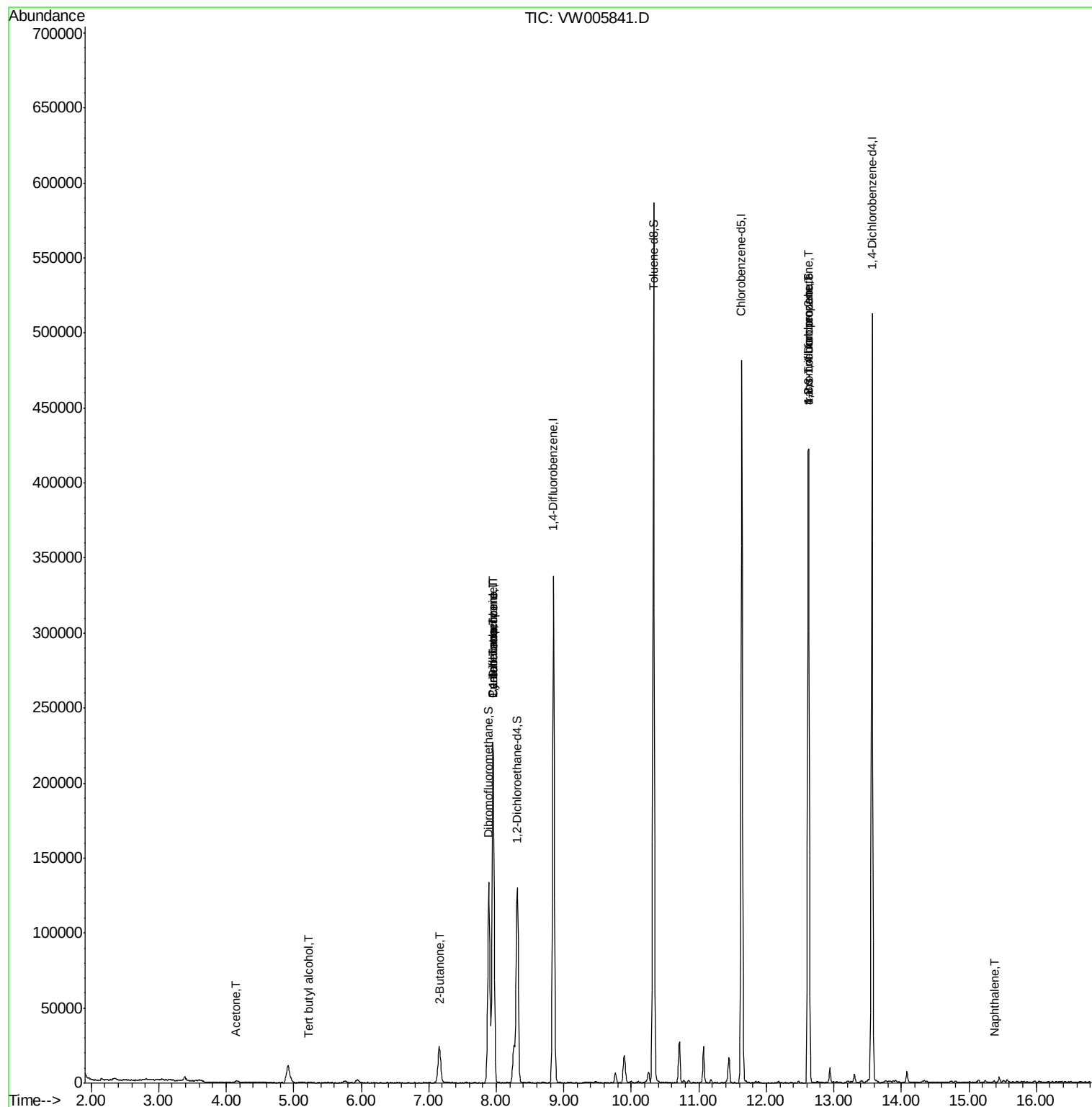
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.23  | 59   | 342      | 2.759     | ug/l # | 82     |
| 16) Acetone                    | 4.14  | 43   | 3004     | 8.780     | ug/l   | 99     |
| 20) Methylene Chloride         | 4.92  | 84   | 8872     | Below Cal |        | 92     |
| 25) 2-Butanone                 | 7.16  | 43   | 1540     | 3.200     | ug/l # | 73     |
| 31) Cyclohexane                | 7.95  | 56   | 3753     | 1.338     | ug/l # | 23     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 12980    | 4.819     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 16228    | 5.408     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 67779    | 55.026    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 67779    | 139.096   | ug/l # | 8      |
| 95) Naphthalene                | 15.38 | 128  | 948      | 2.271     | ug/l # | 92     |

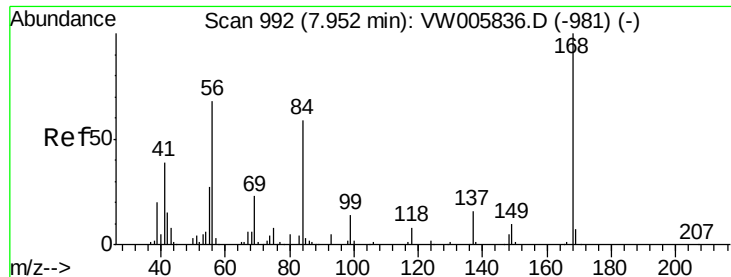
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100418\  
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Sample : VW1004SBL01  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
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Quant Time: Oct 04 09:12:51 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100418S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 04 07:08:57 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW005841.D

Acq: 04 Oct 2018 07:29

Instrument :

MSVOA\_W

ClientSampleId :

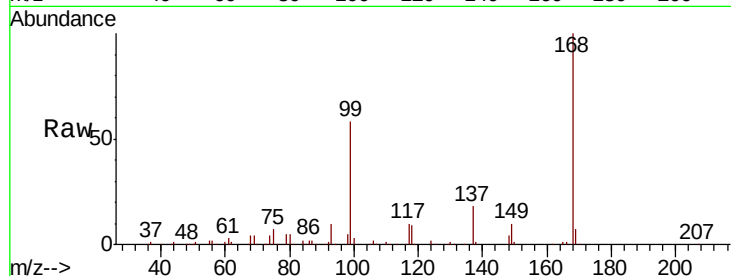
VW1004SBL01

Tot Ion:168 Resp: 168996

Ion Ratio Lower Upper

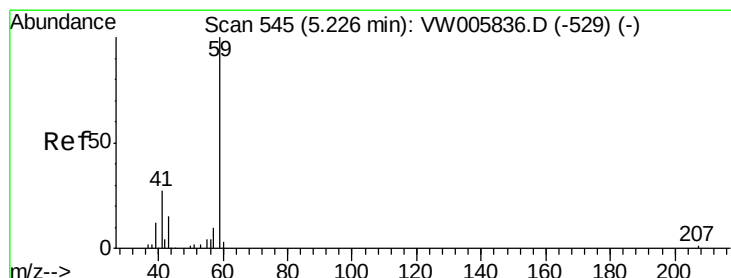
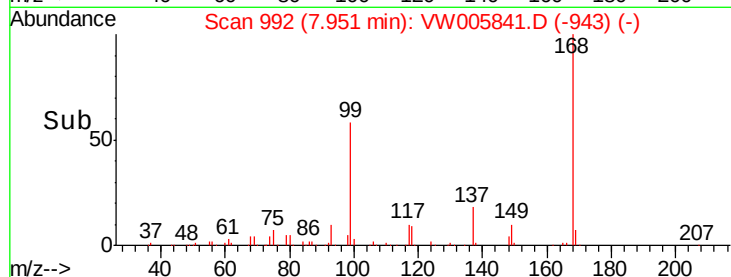
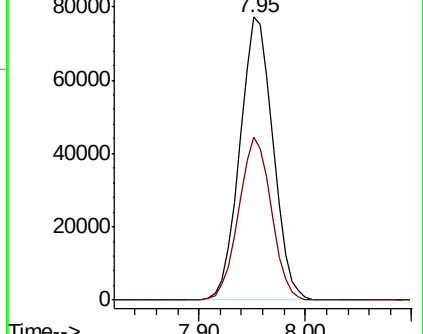
168 100

99 57.5 45.4 68.2



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 2.759 ug/l

RT: 5.23 min Scan# 545

Delta R.T. 0.00 min

Lab File: VW005841.D

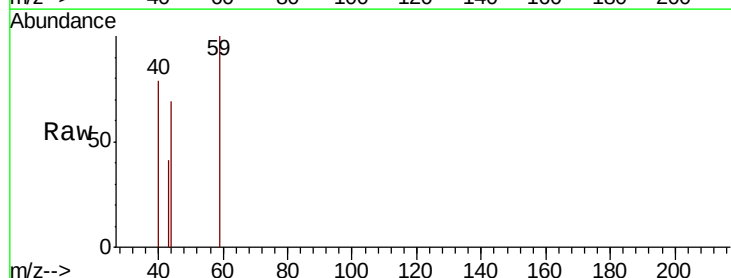
Acq: 04 Oct 2018 07:29

Tgt Ion: 59 Resp: 342

Ion Ratio Lower Upper

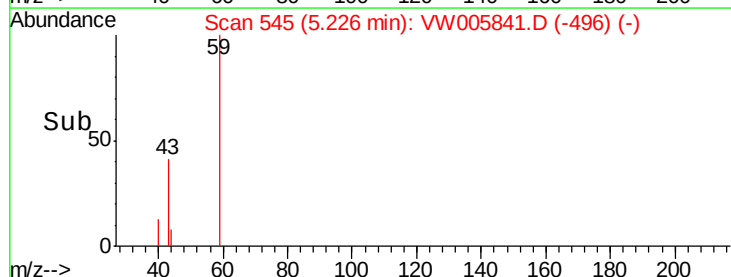
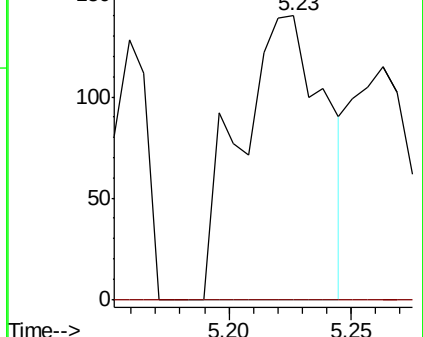
59 100

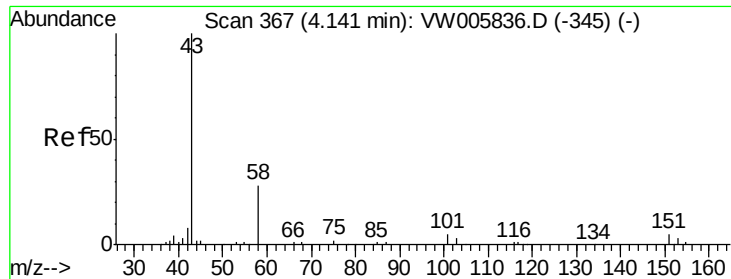
57 0.0 4.9 7.3#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

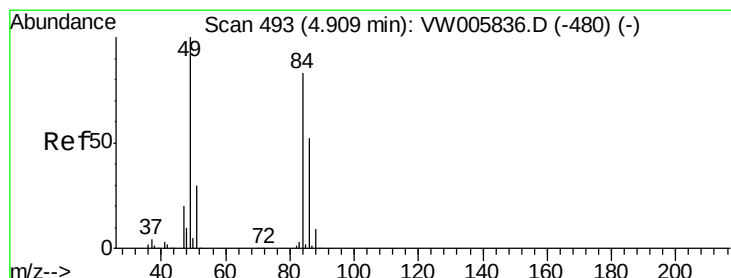
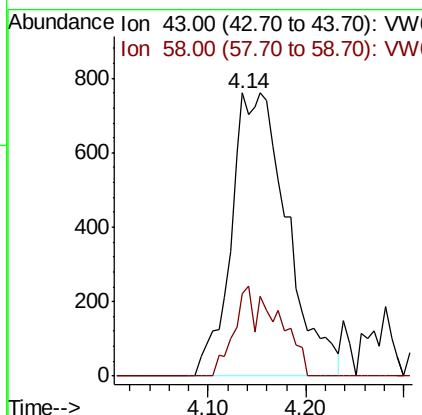
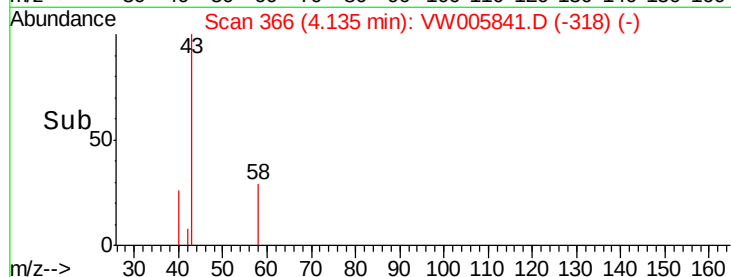
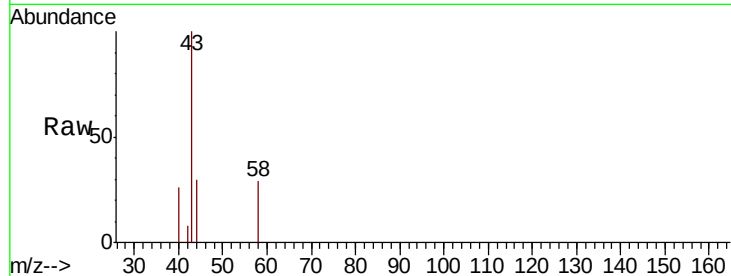




#16  
Acetone  
Concen: 8.780 ug/l  
RT: 4.14 min Scan# 366  
Delta R.T. -0.01 min  
Lab File: VW005841.D  
Acq: 04 Oct 2018 07:29

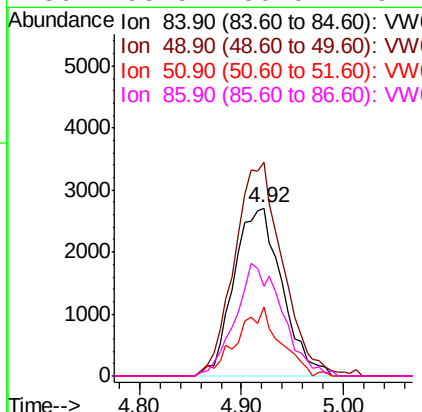
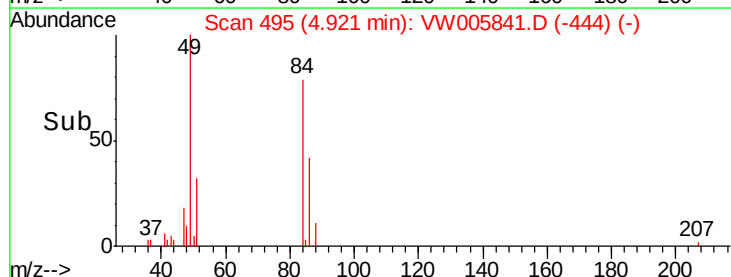
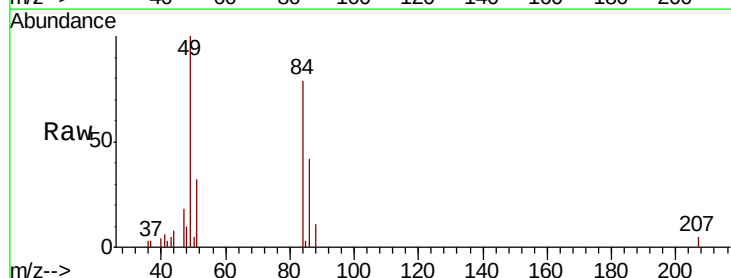
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1004SBL01

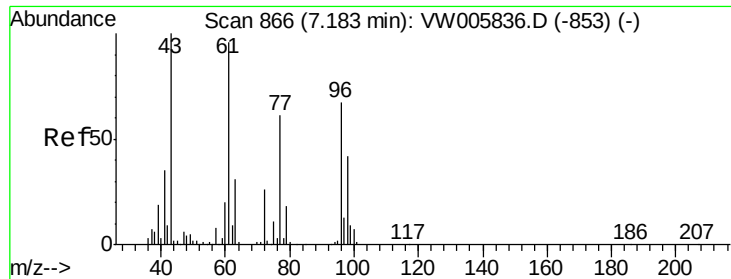
Tot Ion: 43 Resp: 3004  
Ion Ratio Lower Upper  
43 100  
58 29.1 23.0 34.4



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.92 min Scan# 495  
Delta R.T. 0.01 min  
Lab File: VW005841.D  
Acq: 04 Oct 2018 07:29

Tgt Ion: 84 Resp: 8872  
Ion Ratio Lower Upper  
84 100  
49 127.1 96.8 145.2  
51 40.8 28.8 43.2  
86 53.5 50.5 75.7





#25

2-Butanone

Concen: 3.200 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.02 min

Lab File: VW005841.D

Acq: 04 Oct 2018 07:29

Instrument :

MSVOA\_W

ClientSampleId :

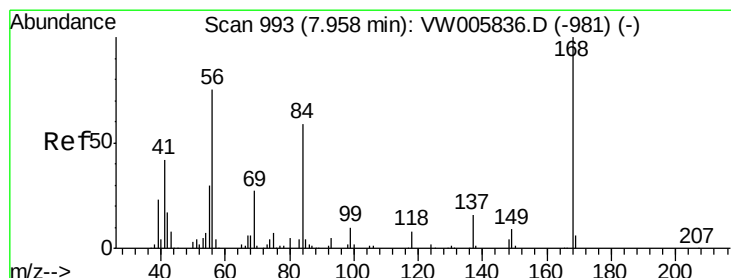
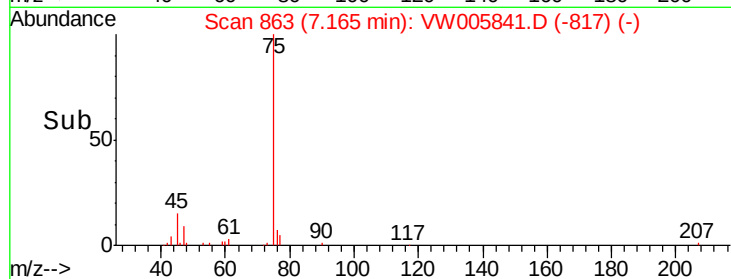
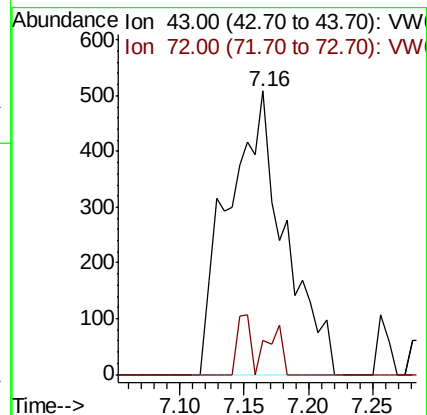
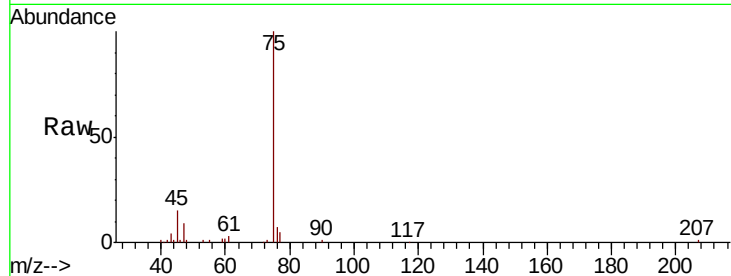
VW1004SBL01

Tot Ion: 43 Resp: 1540

Ion Ratio Lower Upper

43 100

72 12.2 20.9 31.3#



#31

Cyclohexane

Concen: 1.338 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW005841.D

Acq: 04 Oct 2018 07:29

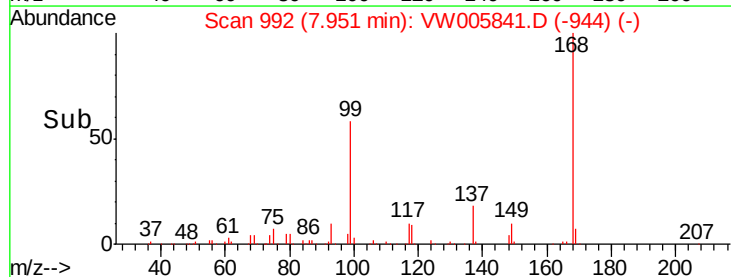
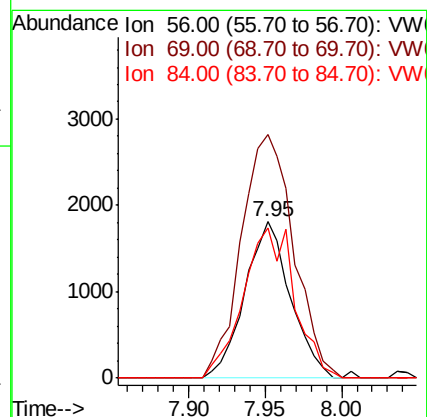
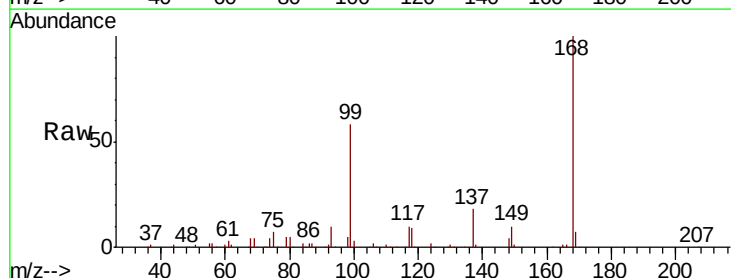
Tgt Ion: 56 Resp: 3753

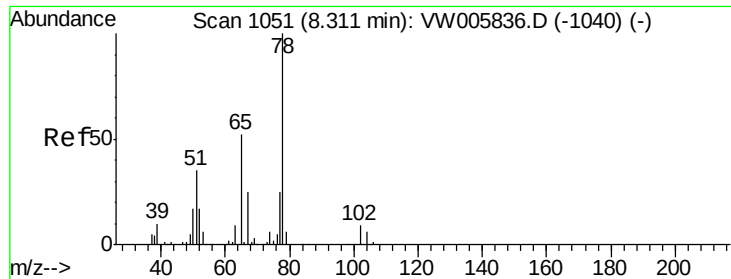
Ion Ratio Lower Upper

56 100

69 156.0 29.0 43.4#

84 96.5 63.5 95.3#

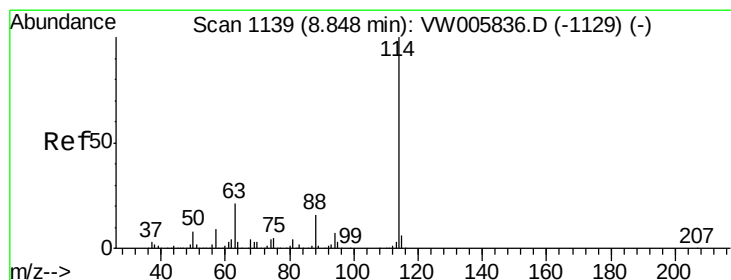
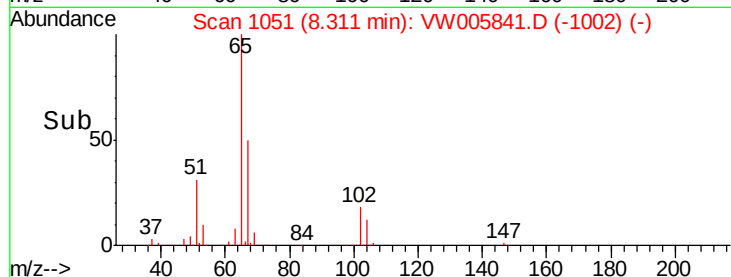
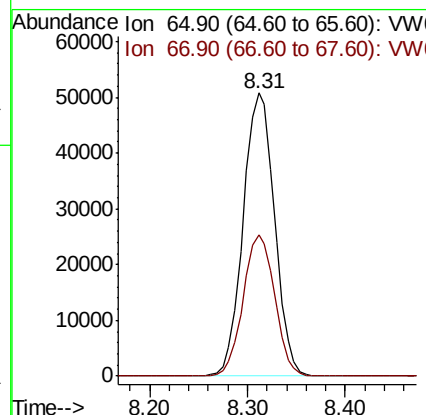
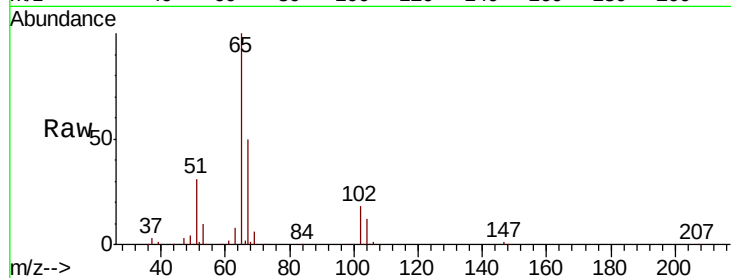




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.188 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. -0.00 min  
 Lab File: VW005841.D  
 Acq: 04 Oct 2018 07:29

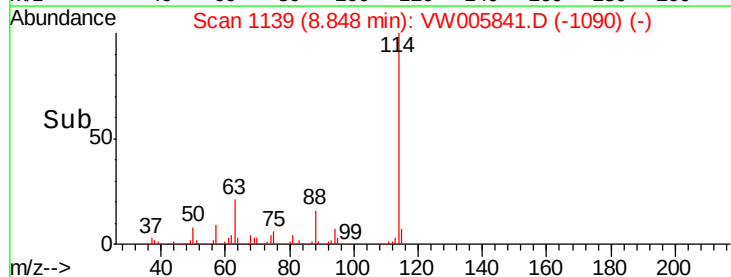
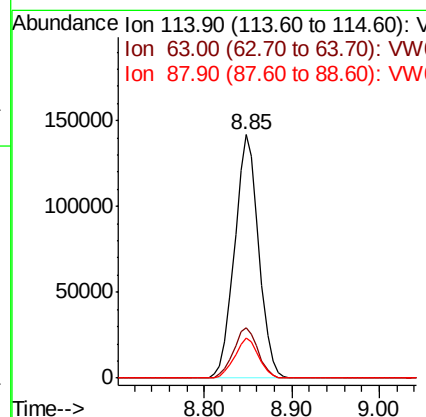
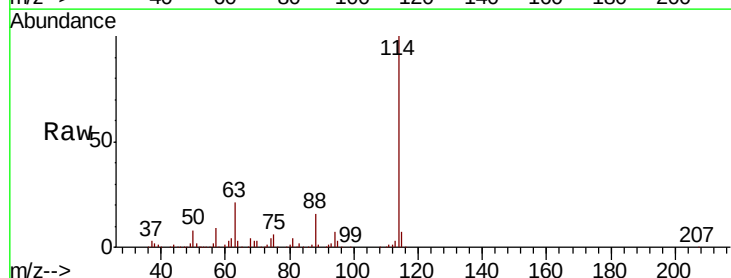
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1004SBL01

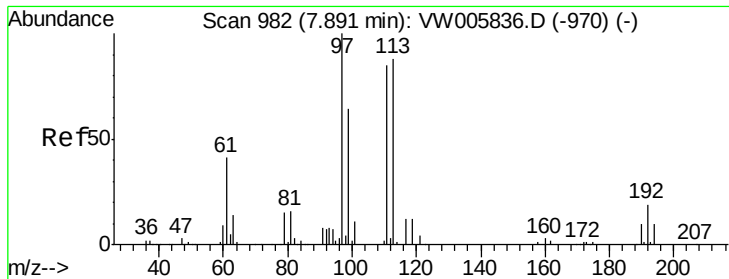
Tot Ion: 65 Resp: 113145  
 Ion Ratio Lower Upper  
 65 100  
 67 50.2 0.0 98.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. -0.00 min  
 Lab File: VW005841.D  
 Acq: 04 Oct 2018 07:29

Tgt Ion: 114 Resp: 270947  
 Ion Ratio Lower Upper  
 114 100  
 63 20.9 0.0 42.0  
 88 16.3 0.0 31.2





#35

Dibromofluoromethane

Concen: 51.834 ug/l

RT: 7.89 min Scan# 982

Delta R.T. -0.00 min

Lab File: VW005841.D

Acq: 04 Oct 2018 07:29

Instrument :

MSVOA\_W

ClientSampleId :

VW1004SBL01

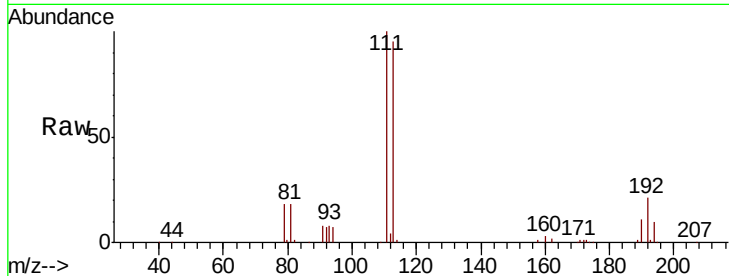
Tot Ion:113 Resp: 92052

Ion Ratio Lower Upper

113 100

111 103.2 81.4 122.2

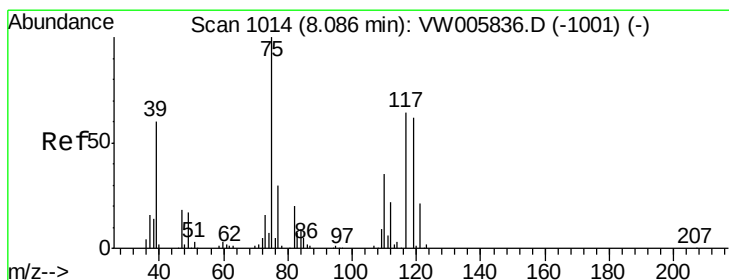
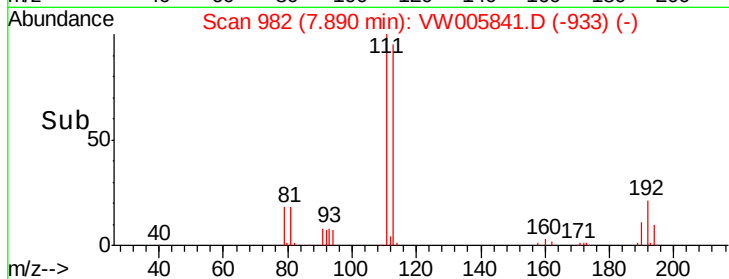
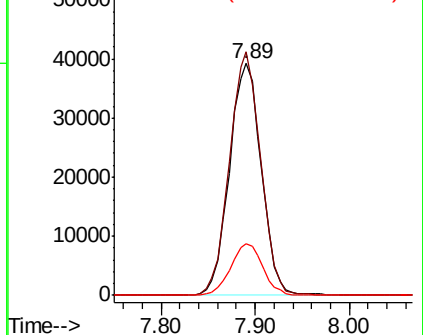
192 22.2 17.3 25.9



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: 4.819 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW005841.D

Acq: 04 Oct 2018 07:29

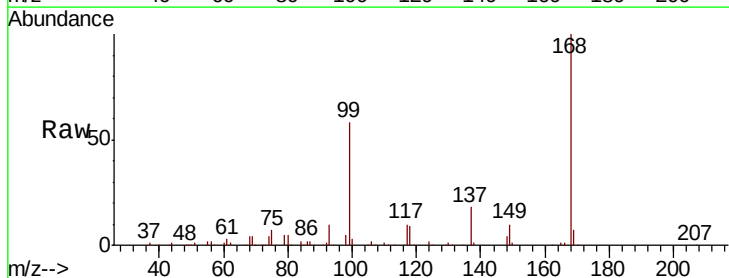
Tgt Ion: 75 Resp: 12980

Ion Ratio Lower Upper

75 100

110 9.4 17.5 52.6#

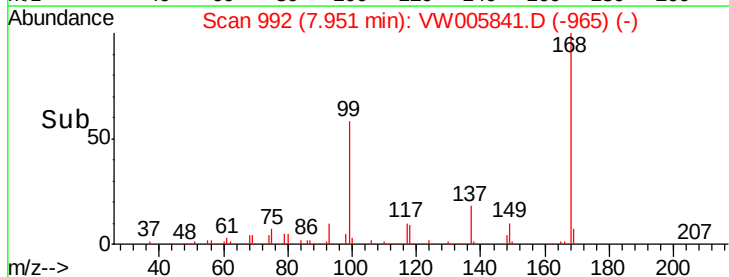
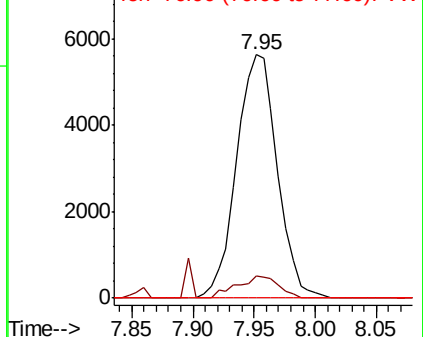
77 0.0 24.8 37.2#

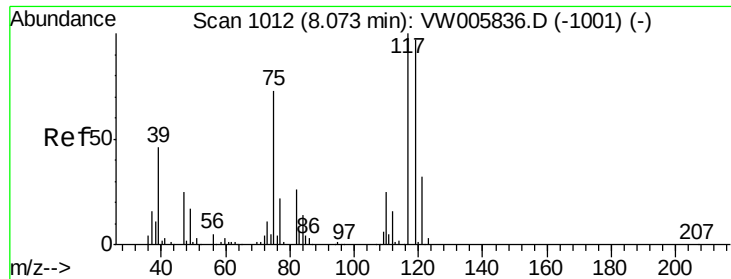


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

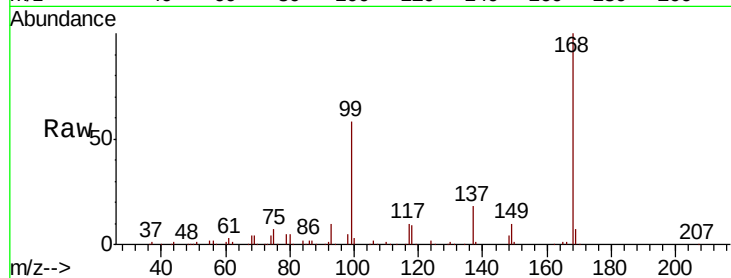




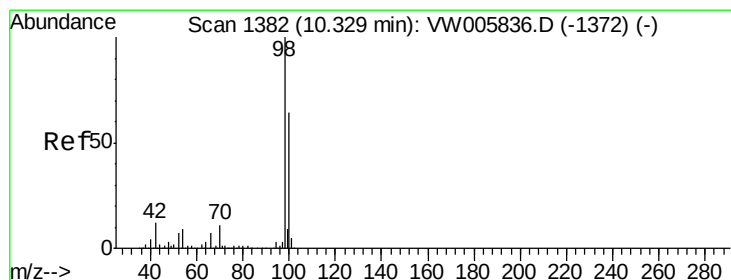
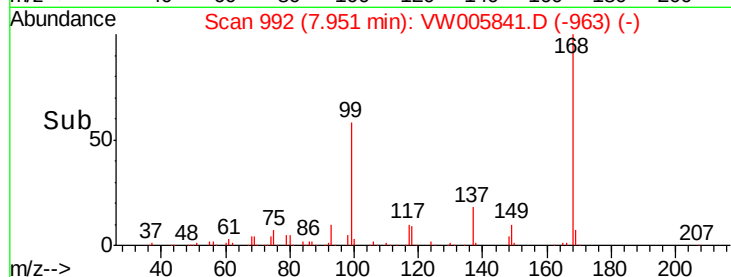
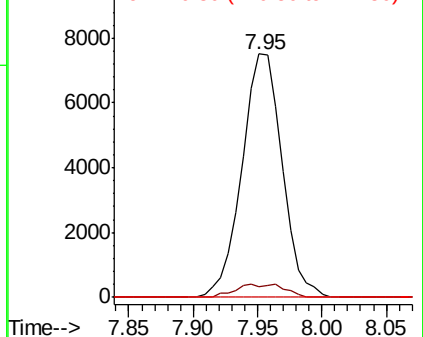
#38  
Carbon Tetrachloride  
Concen: 5.408 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW005841.D  
Acq: 04 Oct 2018 07:29

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1004SBL01

Tot Ion:117 Resp: 16228  
Ion Ratio Lower Upper  
117 100  
119 4.4 77.9 116.9#  
121 0.0 25.2 37.8#

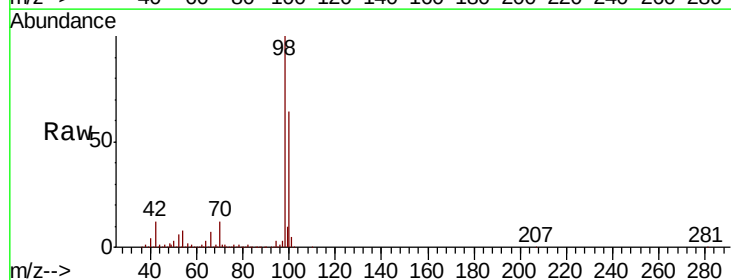


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

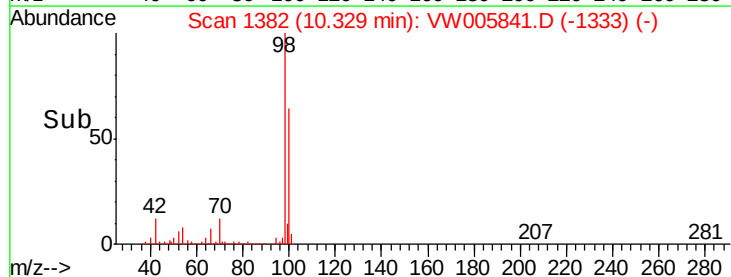
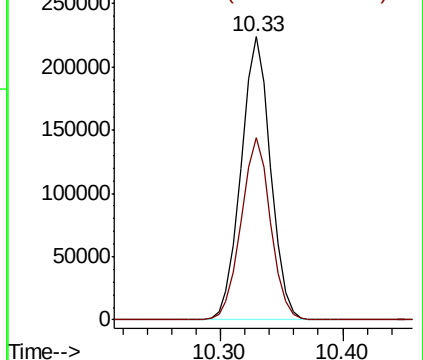


#50  
Toluene-d8  
Concen: 53.077 ug/l  
RT: 10.33 min Scan# 1382  
Delta R.T. -0.00 min  
Lab File: VW005841.D  
Acq: 04 Oct 2018 07:29

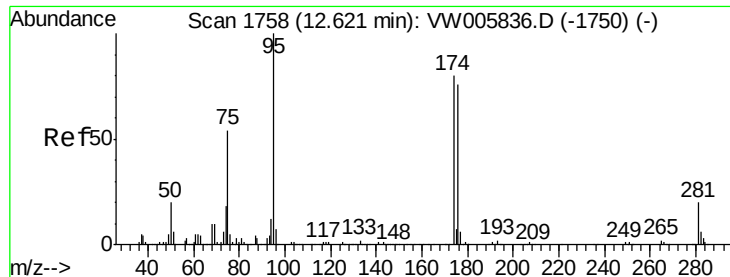
Tgt Ion: 98 Resp: 374280  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW  
Ion 100.00 (99.70 to 100.70): VW



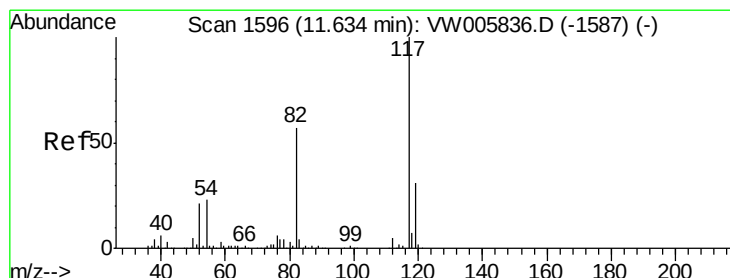
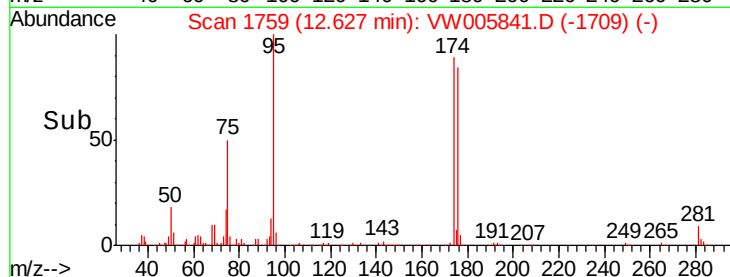
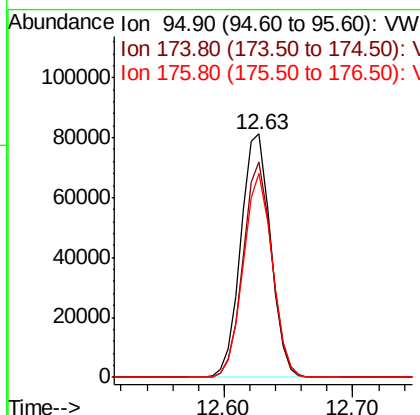
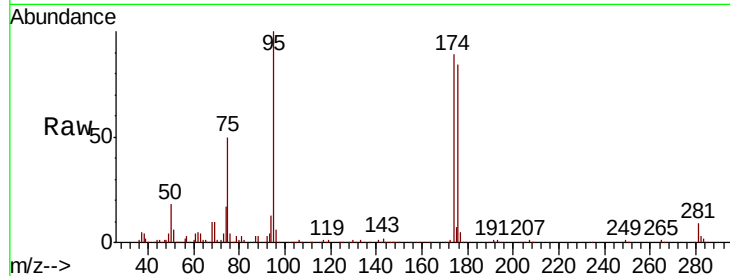




#62  
4-Bromofluorobenzene  
Concen: 49.874 ug/l  
RT: 12.63 min Scan# 1759  
Delta R.T. 0.01 min  
Lab File: VW005841.D  
Acq: 04 Oct 2018 07:29

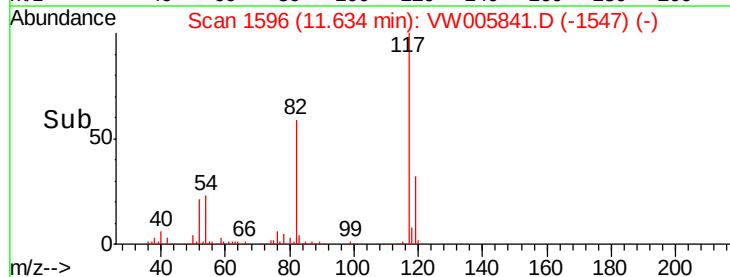
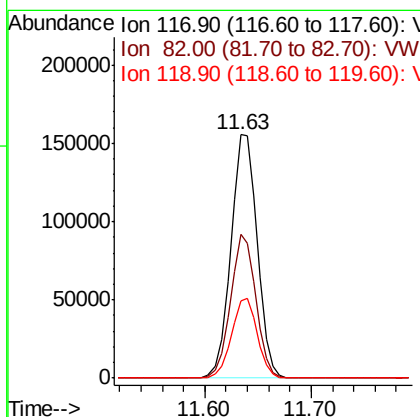
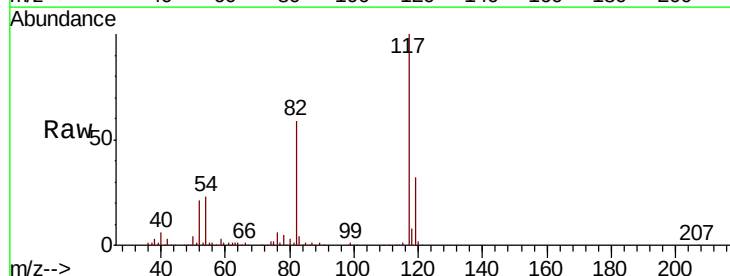
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW1004SBL01

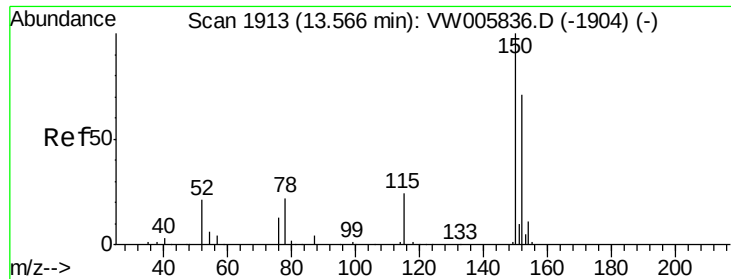
Tot Ion: 95 Resp: 129972  
Ion Ratio Lower Upper  
95 100  
174 85.2 0.0 169.0  
176 81.3 0.0 164.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW005841.D  
Acq: 04 Oct 2018 07:29

Tgt Ion: 117 Resp: 269512  
Ion Ratio Lower Upper  
117 100  
82 59.0 45.6 68.4  
119 31.9 25.0 37.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW005841.D

Acq: 04 Oct 2018 07:29

Instrument :

MSVOA\_W

ClientSampleId :

VW1004SBL01

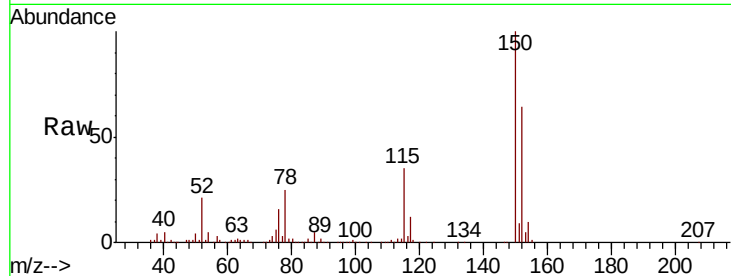
Tot Ion:152 Resp: 135535

Ion Ratio Lower Upper

152 100

115 58.0 29.8 89.4

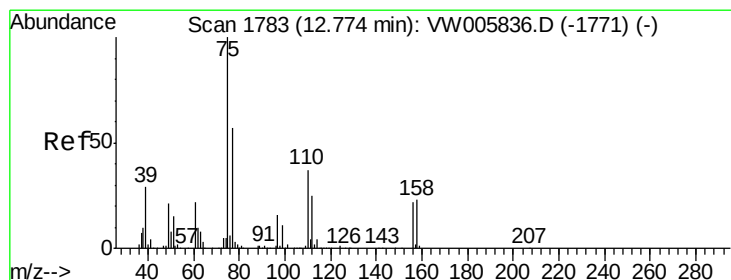
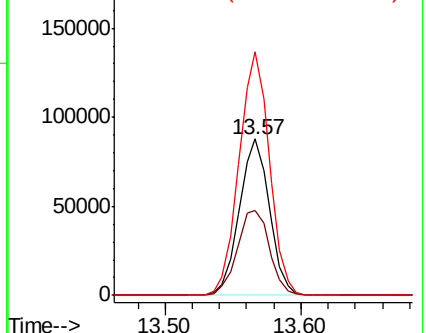
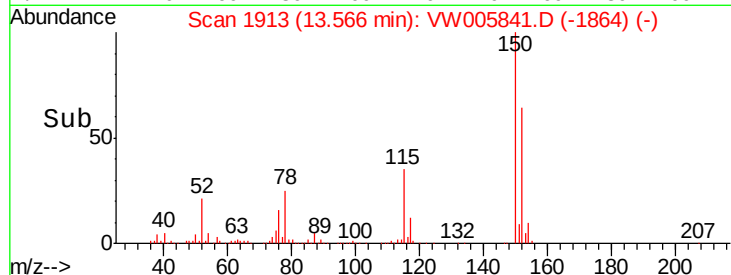
150 157.1 0.0 349.4



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: 55.026 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005841.D

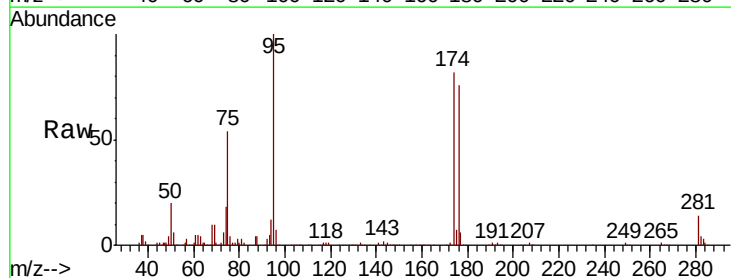
Acq: 04 Oct 2018 07:29

Tgt Ion: 75 Resp: 67779

Ion Ratio Lower Upper

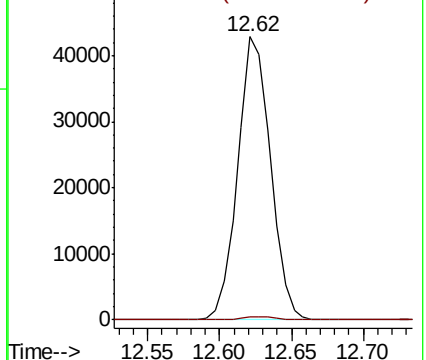
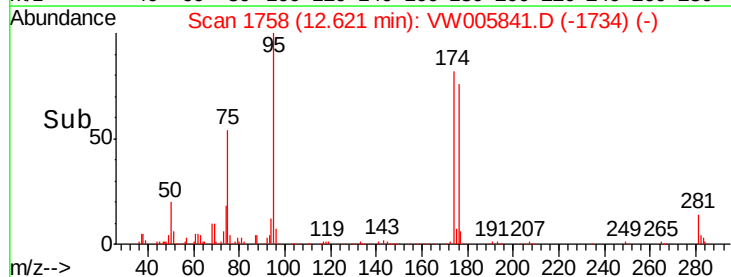
75 100

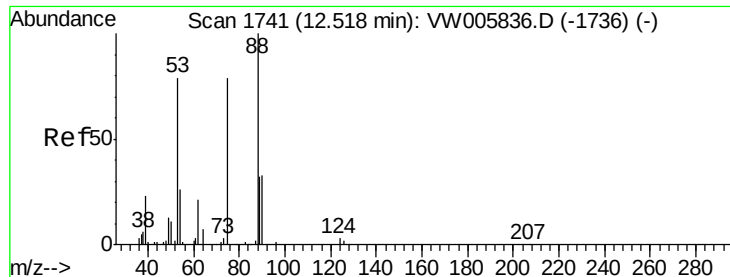
77 1.3 0.0 0.0#



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: 139.096 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005841.D

Acq: 04 Oct 2018 07:29

Instrument :

MSVOA\_W

ClientSampleId :

VW1004SBL01

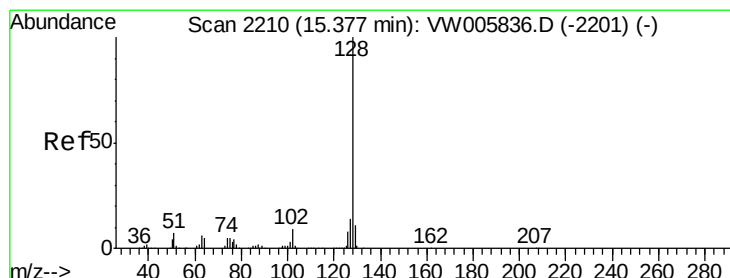
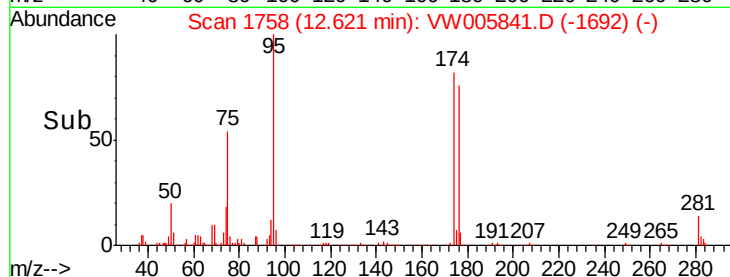
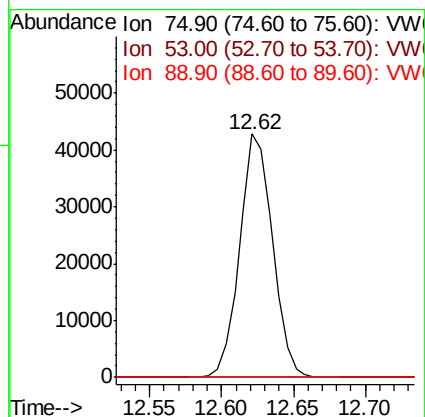
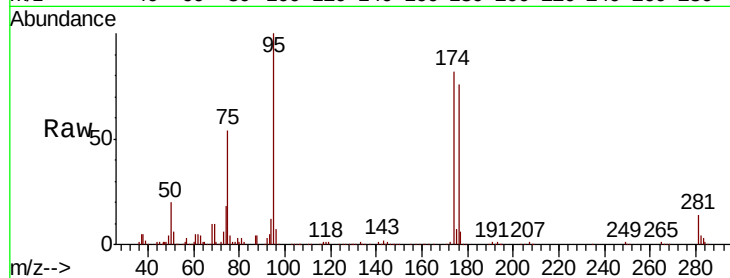
Tot Ion: 75 Resp: 67779

Ion Ratio Lower Upper

75 100

53 0.2 83.7 125.5#

89 0.0 37.5 56.3#



#95

Naphthalene

Concen: 2.271 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW005841.D

Acq: 04 Oct 2018 07:29

Tgt Ion: 128 Resp: 948

Ion Ratio Lower Upper

128 100

127 11.0 10.9 16.3

129 7.2 8.9 13.3#

