

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091718\  
 Data File : VW005469.D  
 Acq On : 18 Sep 2018 08:49  
 Operator : SY/AP  
 Sample : J4936-27  
 Misc : 3.06G/5ML/MSVOA W/SOIL  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 18 11:36:44 2018  
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091618S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 15 02:32:34 2018  
 Response via : Initial Calibration

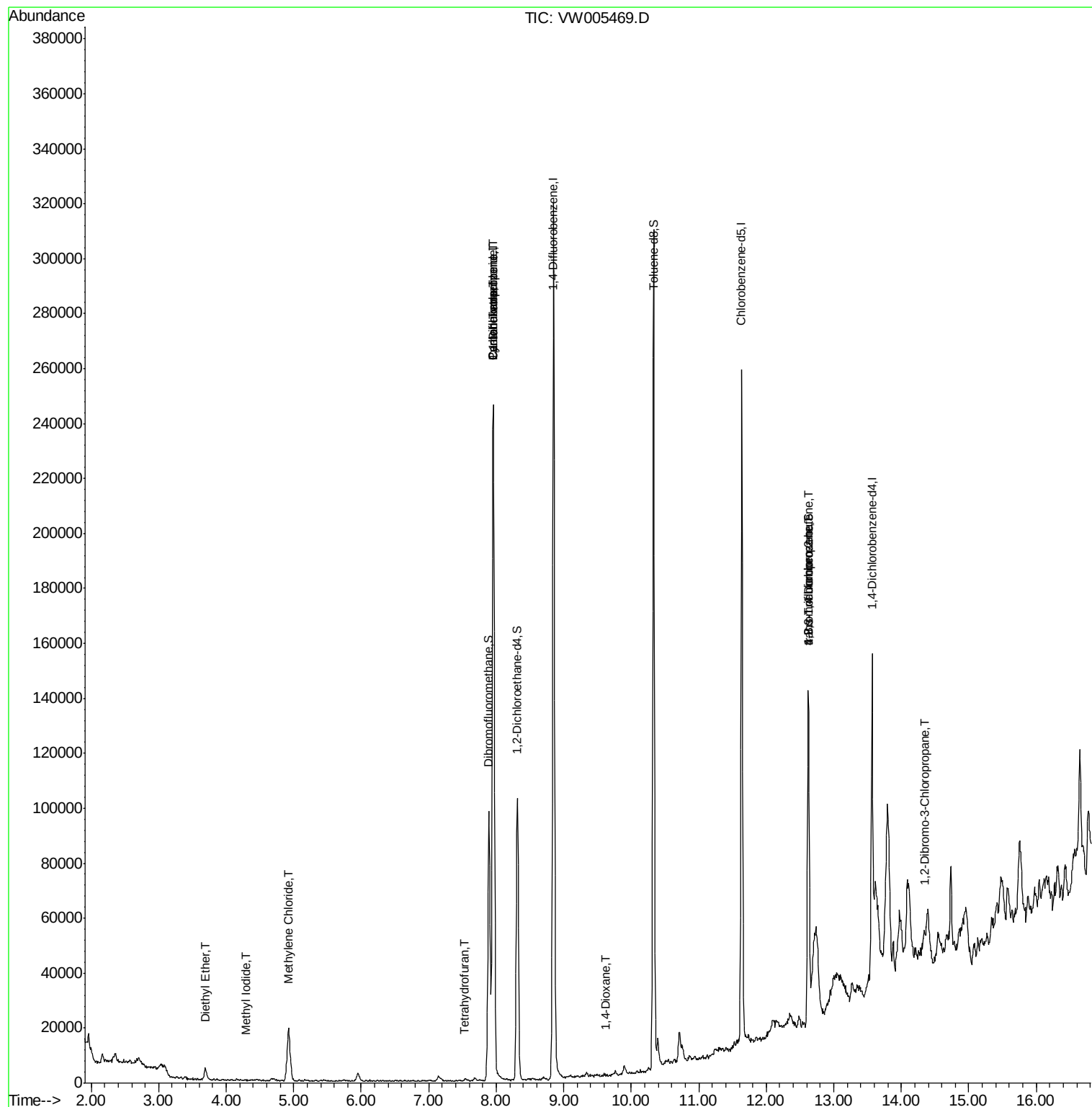
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene          | 7.96   | 168  | 185849   | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.85   | 114  | 260276   | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5           | 11.63  | 117  | 137276   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.57  | 152  | 28514    | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds    |        |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4      | 8.31   | 65   | 82448    | 42.74     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 85.48% |          |
| 35) Dibromofluoromethane       | 7.89   | 113  | 70018    | 47.98     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 95.96% |          |
| 50) Toluene-d8                 | 10.33  | 98   | 202680   | 30.33     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 60.66% |          |
| 62) 4-Bromofluorobenzene       | 12.62  | 95   | 36499    | 14.89     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 29.78% |          |
| Target Compounds               |        |      |          |           |        |          |
|                                |        |      |          |           | Qvalue |          |
| 2) Dichlorodifluoromethane     | 2.00   | 85   | 554      | Below Cal |        | 100      |
| 5) Bromomethane                | 2.78   | 94   | 439      | Below Cal | #      | 1        |
| 8) Diethyl Ether               | 3.69   | 74   | 2178     | 2.692     | ug/l   | 93       |
| 10) Methyl Iodide              | 4.29   | 142  | 49       | 4.074     | ug/l # | 38       |
| 11) Tert butyl alcohol         | 5.16   | 59   | 122      | Below Cal | #      | 71       |
| 16) Acetone                    | 4.15   | 43   | 173      | Below Cal | #      | 41       |
| 20) Methylene Chloride         | 4.92   | 84   | 13803    | 1.663     | ug/l   | 91       |
| 29) Tetrahydrofuran            | 7.54   | 42   | 318      | 1.076     | ug/l # | 61       |
| 31) Cyclohexane                | 7.96   | 56   | 4282     | 1.391     | ug/l # | 1        |
| 36) 1,1-Dichloropropene        | 7.96   | 75   | 14712    | 5.973     | ug/l # | 51       |
| 38) Carbon Tetrachloride       | 7.96   | 117  | 17920    | 6.982     | ug/l # | 17       |
| 49) 1,4-Dioxane                | 9.61   | 88   | 23       | 1.645     | ug/l # | 10       |
| 76) 1,2,3-Trichloropropane     | 12.62  | 75   | 17537    | 74.778    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.62  | 75   | 17537    | 193.979   | ug/l # | 10       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.35  | 75   | 169      | 3.015     | ug/l   | 73       |

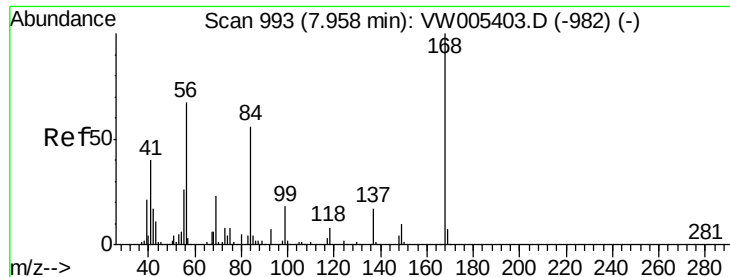
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 54 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Sep 18 11:36:44 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091618S.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 15 02:32:34 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW005469.D

Acq: 18 Sep 2018 08:49

Instrument :

MSVOA\_W

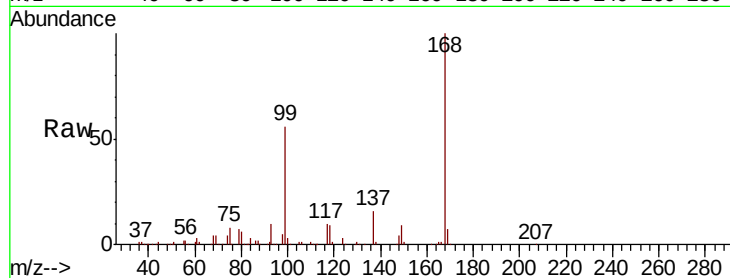
ClientSampleId :

Tot Ion:168 Resp: 185849

Ion Ratio Lower Upper

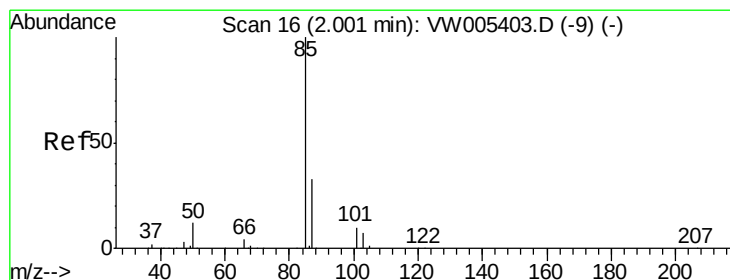
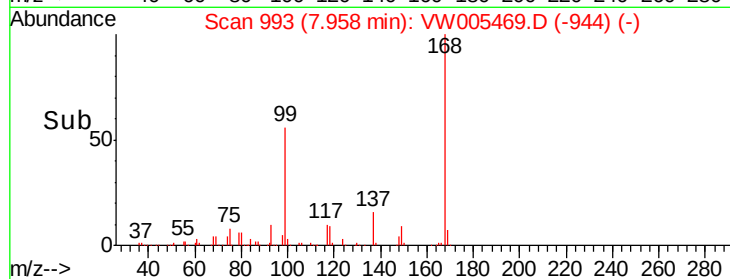
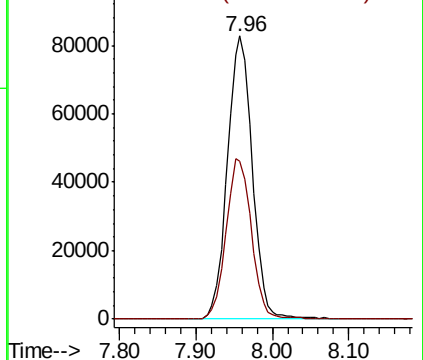
168 100

99 55.7 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW005469.D

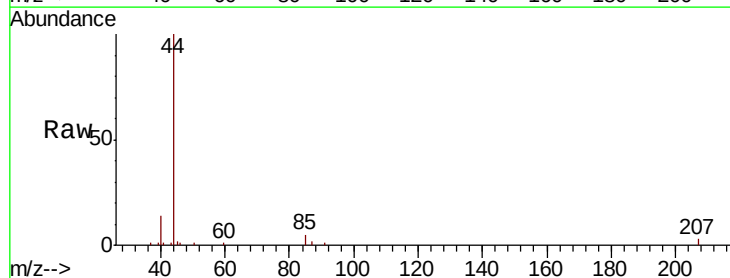
Acq: 18 Sep 2018 08:49

Tgt Ion: 85 Resp: 554

Ion Ratio Lower Upper

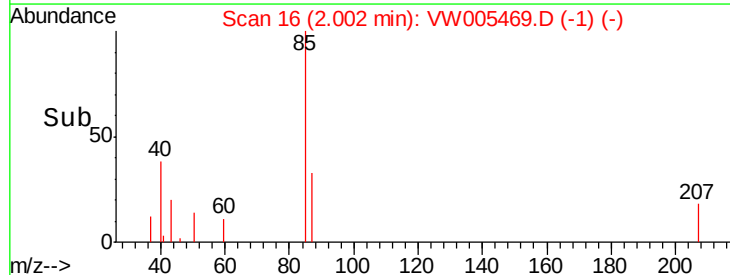
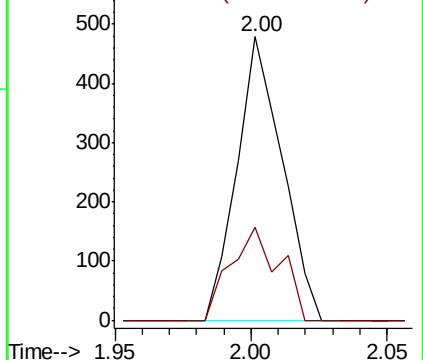
85 100

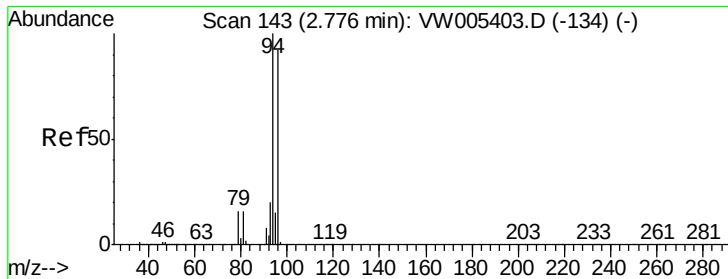
87 32.6 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW005469.D

Acq: 18 Sep 2018 08:49

Instrument :

MSVOA\_W

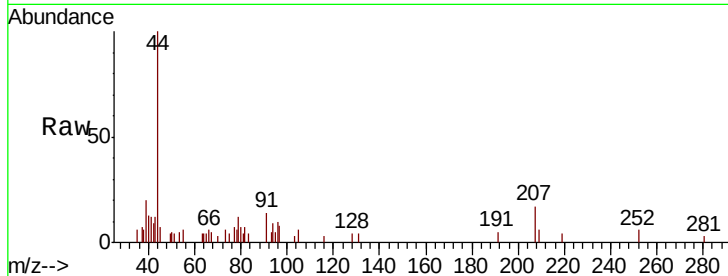
ClientSampled :

Tot Ion: 94 Resp: 439

Ion Ratio Lower Upper

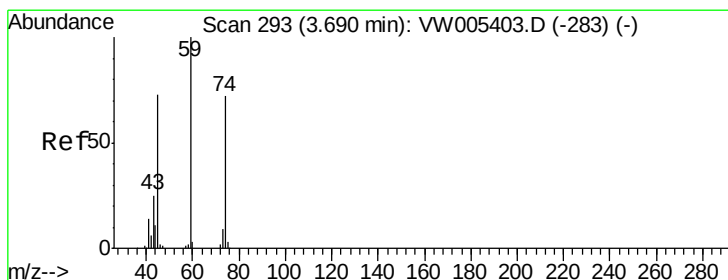
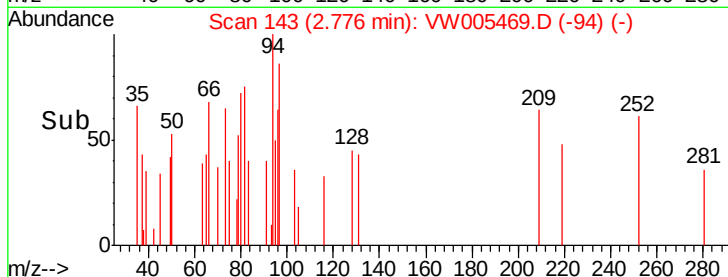
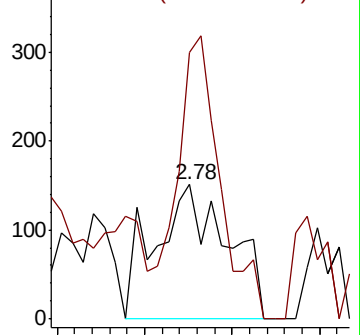
94 100

96 198.7 73.7 110.5#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#8

Diethyl Ether

Concen: 2.692 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.00 min

Lab File: VW005469.D

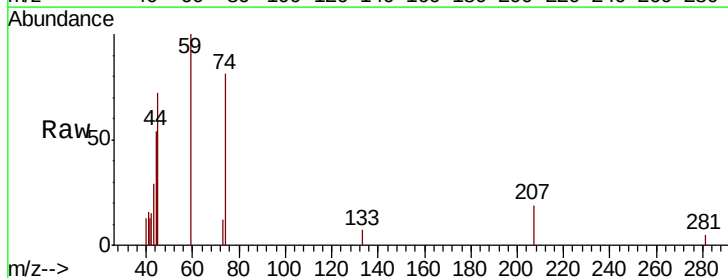
Acq: 18 Sep 2018 08:49

Tgt Ion: 74 Resp: 2178

Ion Ratio Lower Upper

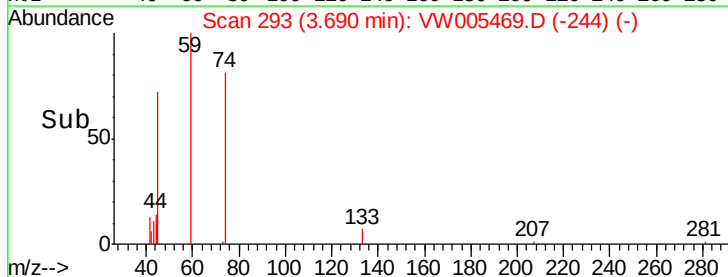
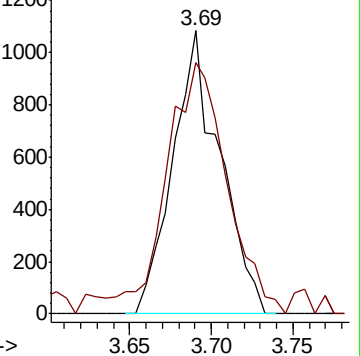
74 100

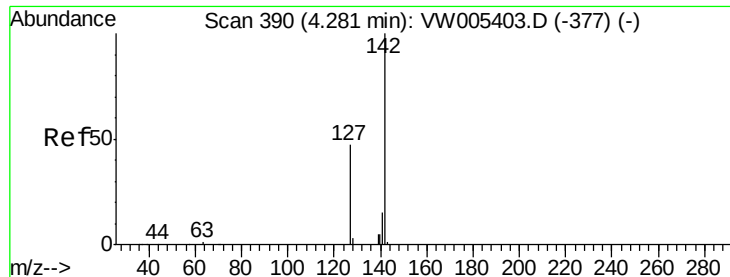
45 113.5 53.1 159.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

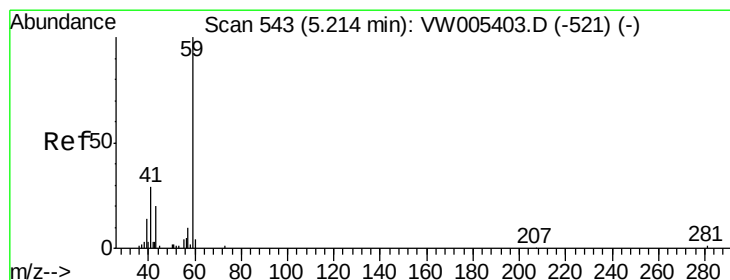
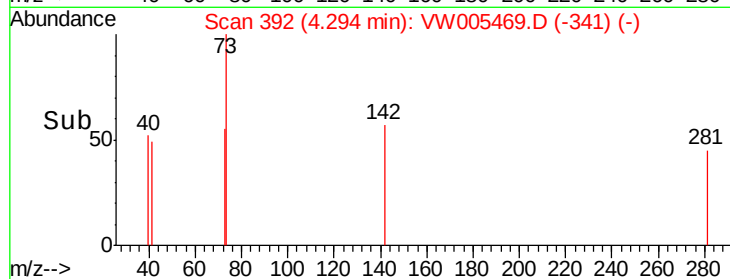
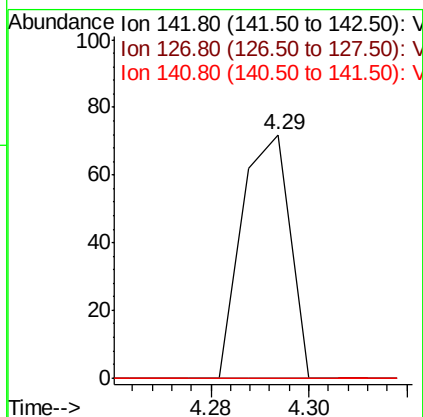
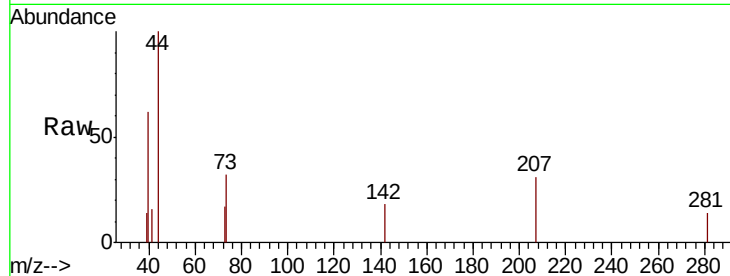




#10  
Methyl Iodide  
Concen: 4.074 ug/l  
RT: 4.29 min Scan# 392  
Delta R.T. 0.01 min  
Lab File: VW005469.D  
Acq: 18 Sep 2018 08:49

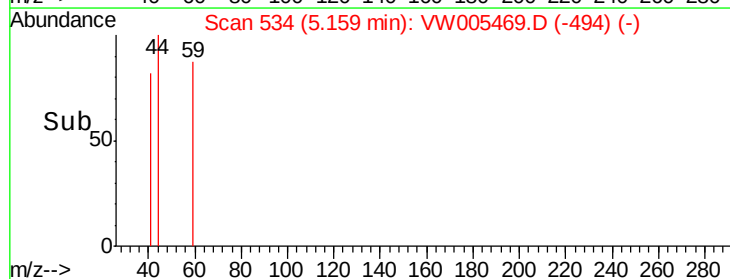
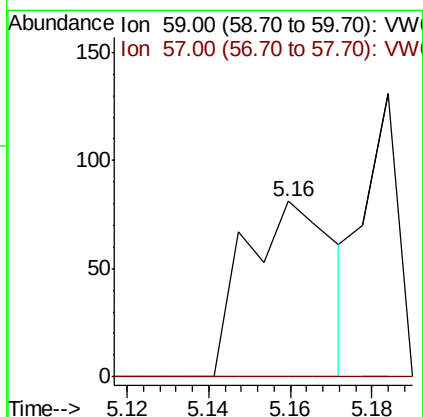
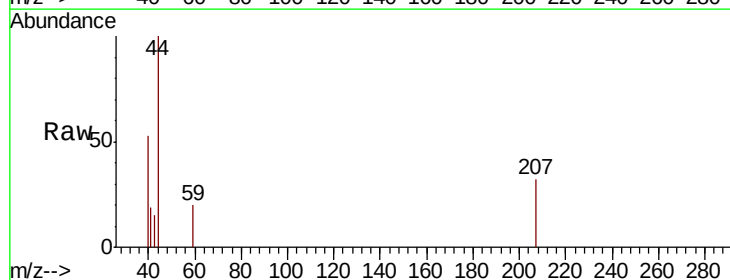
Instrument :  
MSVOA\_W  
ClientSampled :

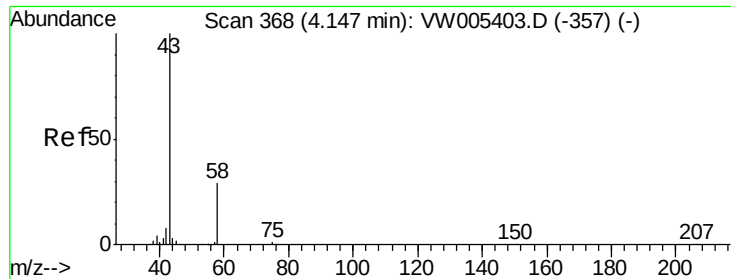
Tot Ion:142 Resp: 49  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.5 56.3#  
141 0.0 12.4 18.6#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.16 min Scan# 534  
Delta R.T. -0.05 min  
Lab File: VW005469.D  
Acq: 18 Sep 2018 08:49

Tgt Ion: 59 Resp: 122  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 13.0#





#16

Acetone

Concen: Below Cal

RT: 4.15 min Scan# 369

Delta R.T. 0.01 min

Lab File: VW005469.D

Acq: 18 Sep 2018 08:49

Instrument :

MSVOA\_W

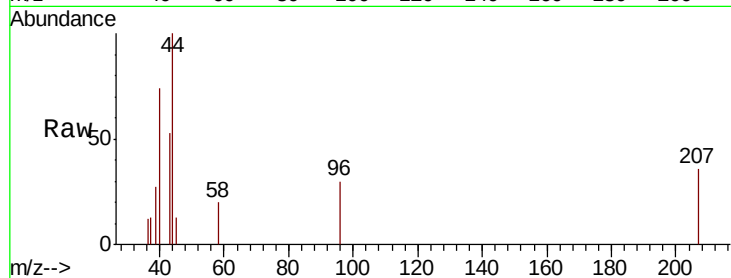
ClientSampled :

Tot Ion: 43 Resp: 173

Ion Ratio Lower Upper

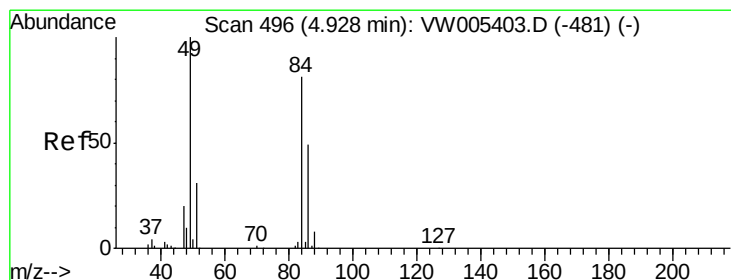
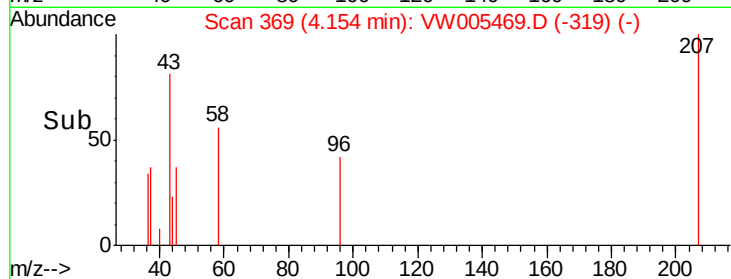
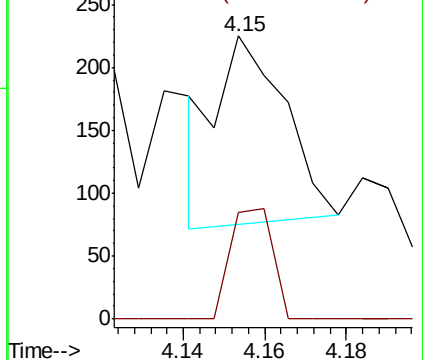
43 100

58 59.9 22.8 34.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 1.663 ug/l

RT: 4.92 min Scan# 495

Delta R.T. -0.01 min

Lab File: VW005469.D

Acq: 18 Sep 2018 08:49

Tgt Ion: 84 Resp: 13803

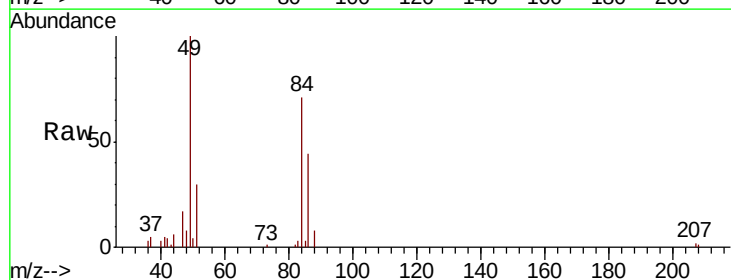
Ion Ratio Lower Upper

84 100

49 139.9 99.3 148.9

51 41.7 31.1 46.7

86 62.2 49.1 73.7

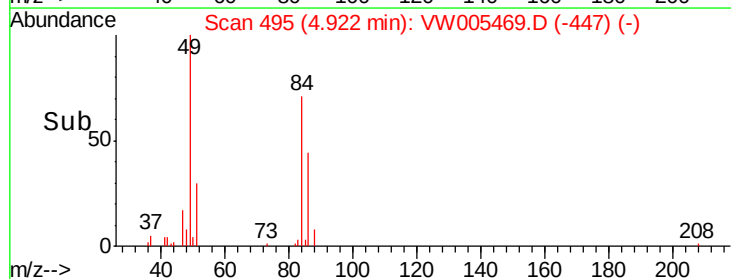
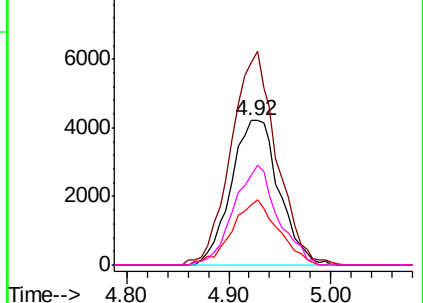


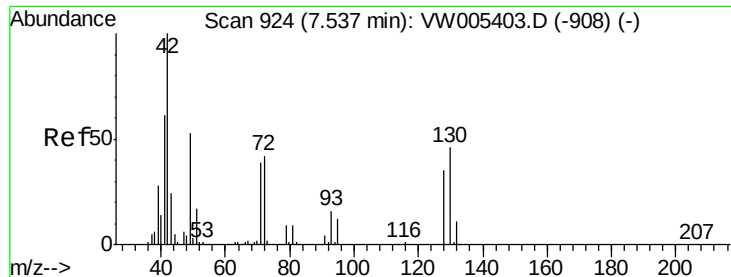
Abundance Ion 83.90 (83.60 to 84.60): VW

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





#29

Tetrahydrofuran

Concen: 1.076 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.00 min

Lab File: VW005469.D

Acq: 18 Sep 2018 08:49

Instrument :

MSVOA\_W

ClientSampleId :

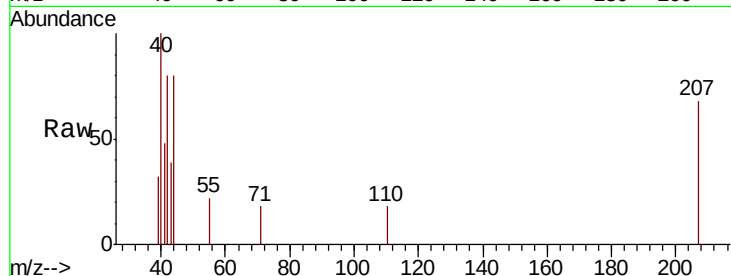
Tot Ion: 42 Resp: 318

Ion Ratio Lower Upper

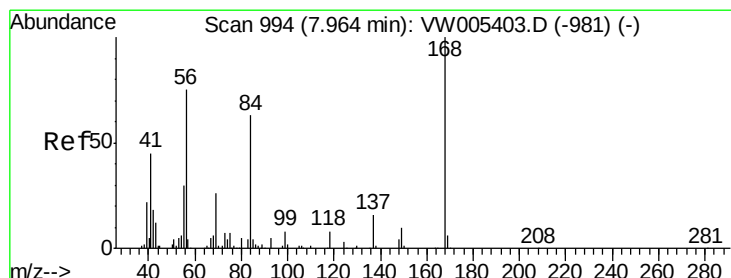
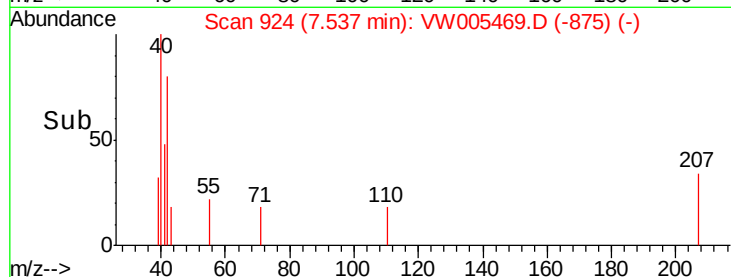
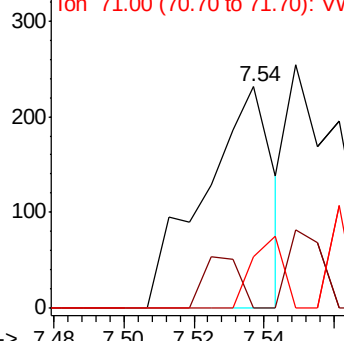
42 100

72 17.3 33.2 49.8#

71 14.8 31.0 46.6#



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: 1.391 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.01 min

Lab File: VW005469.D

Acq: 18 Sep 2018 08:49

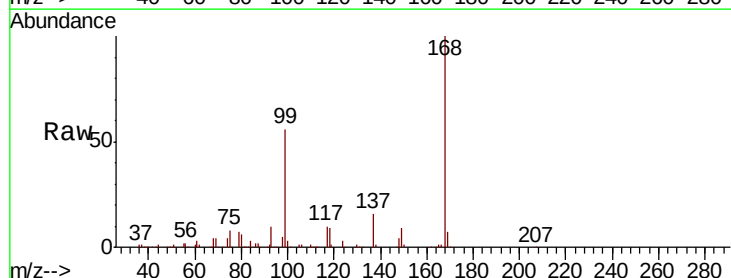
Tgt Ion: 56 Resp: 4282

Ion Ratio Lower Upper

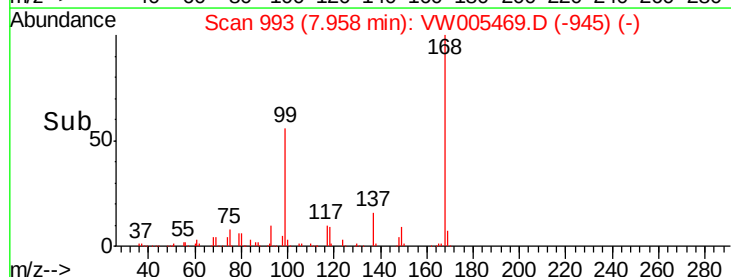
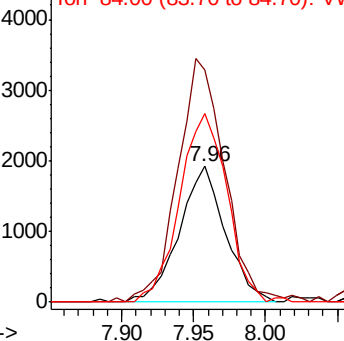
56 100

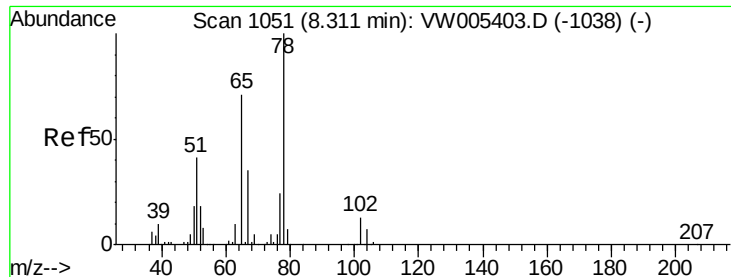
69 170.6 27.2 40.8#

84 138.2 66.7 100.1#



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

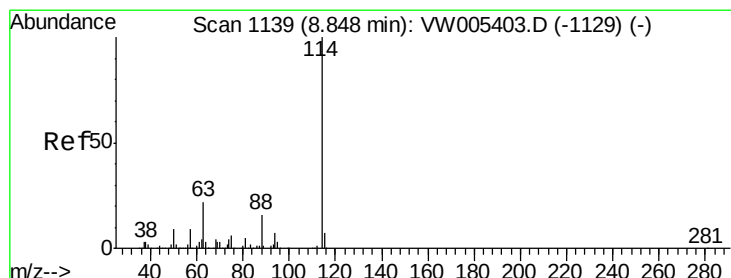
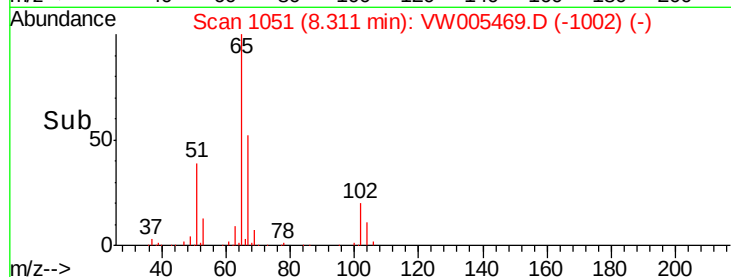
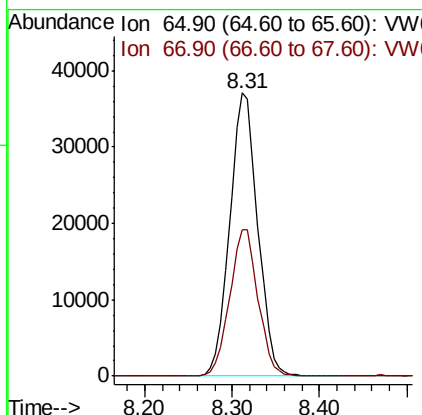
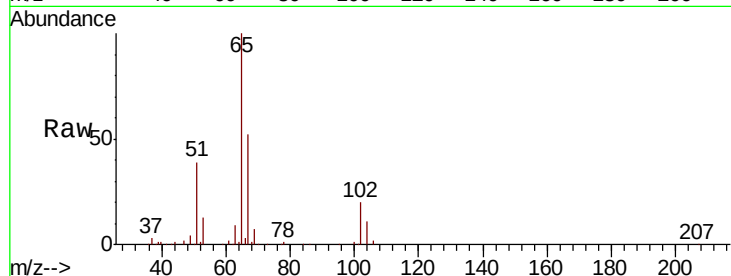




#33  
 1,2-Dichloroethane-d4  
 Concen: 42.739 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. 0.00 min  
 Lab File: VW005469.D  
 Acq: 18 Sep 2018 08:49

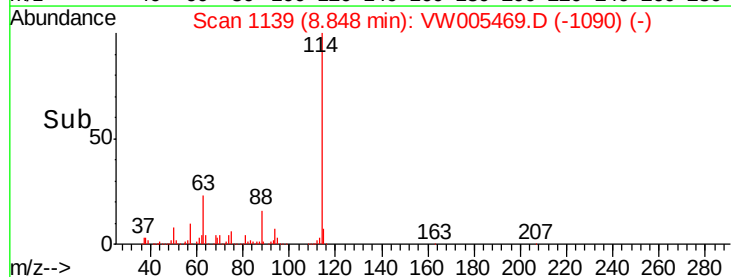
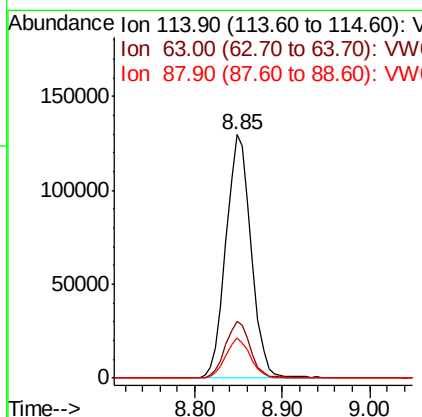
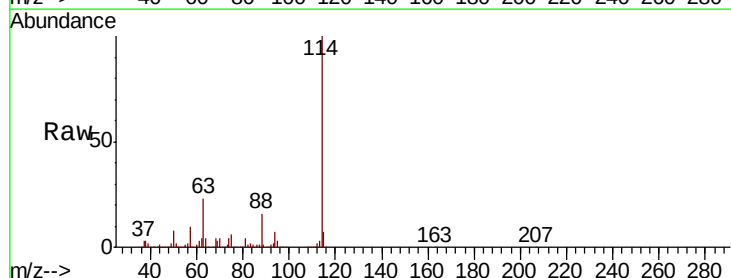
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 65 Resp: 82448  
 Ion Ratio Lower Upper  
 65 100  
 67 52.5 0.0 100.6

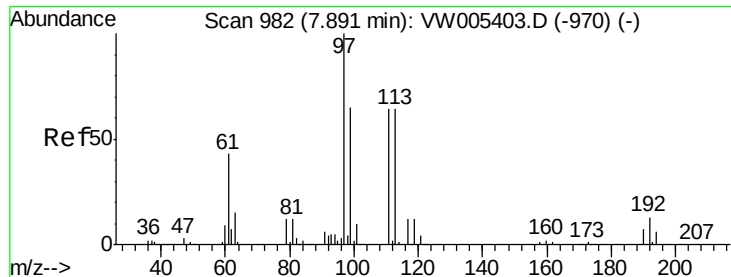


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW005469.D  
 Acq: 18 Sep 2018 08:49

Tgt Ion: 114 Resp: 260276  
 Ion Ratio Lower Upper  
 114 100  
 63 23.3 0.0 43.4  
 88 16.2 0.0 31.8



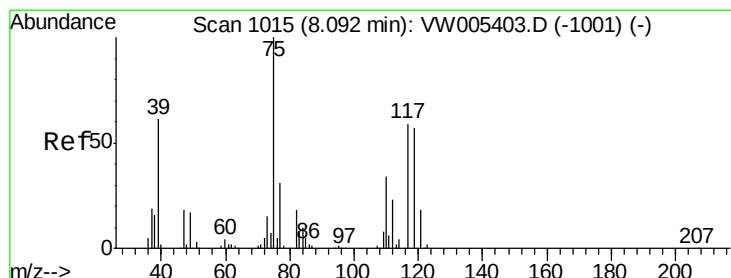
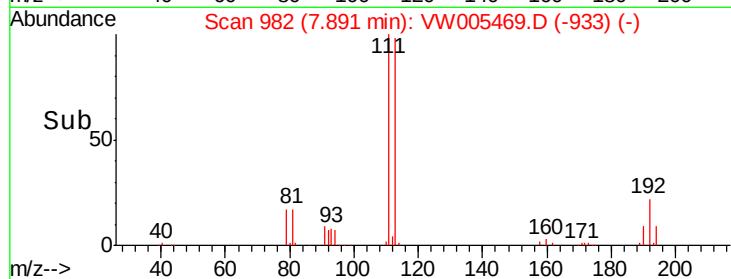
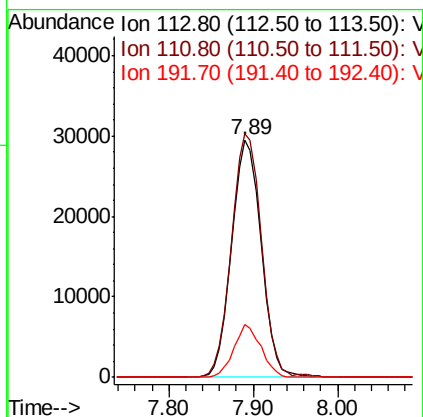
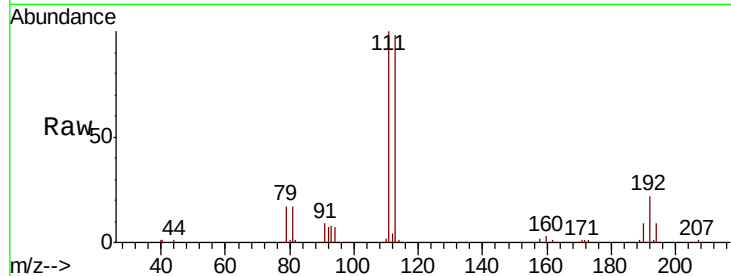




#35  
 Dibromofluoromethane  
 Concen: 47.980 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. 0.00 min  
 Lab File: VW005469.D  
 Acq: 18 Sep 2018 08:49

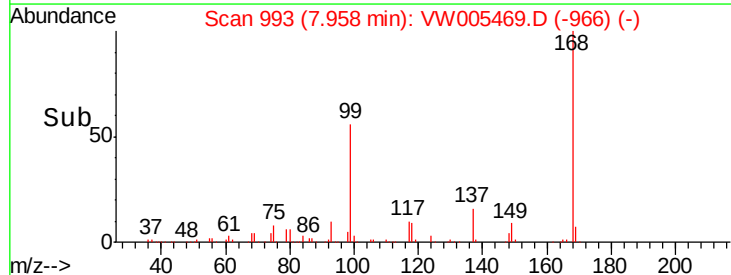
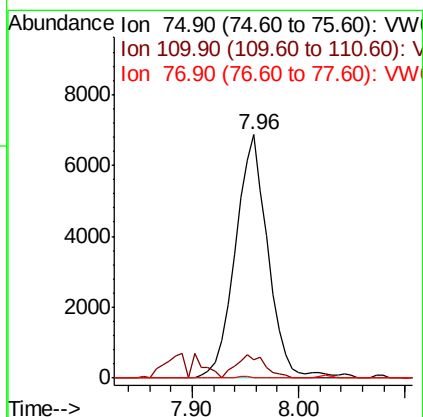
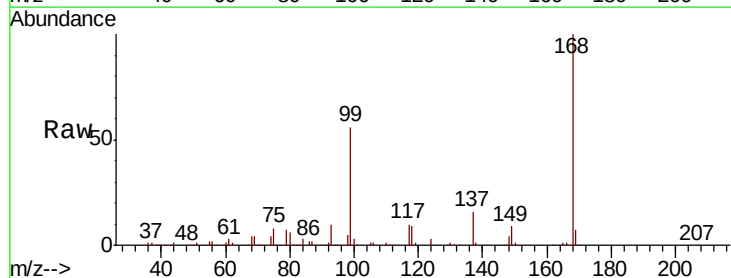
Instrument :  
 MSVOA\_W  
 ClientSampleId :

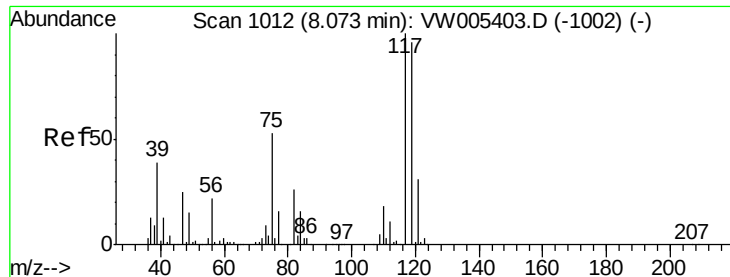
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.6 | 82.3  | 123.5 |
| 192     | 20.2  | 16.5  | 24.7  |



#36  
 1,1-Dichloropropene  
 Concen: 5.973 ug/l  
 RT: 7.96 min Scan# 993  
 Delta R.T. -0.13 min  
 Lab File: VW005469.D  
 Acq: 18 Sep 2018 08:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.6   | 16.8  | 50.4# |
| 77      | 0.3   | 24.2  | 36.4# |





#38

Carbon Tetrachloride

Concen: 6.982 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW005469.D

Acq: 18 Sep 2018 08:49

Instrument :

MSVOA\_W

ClientSampleId :

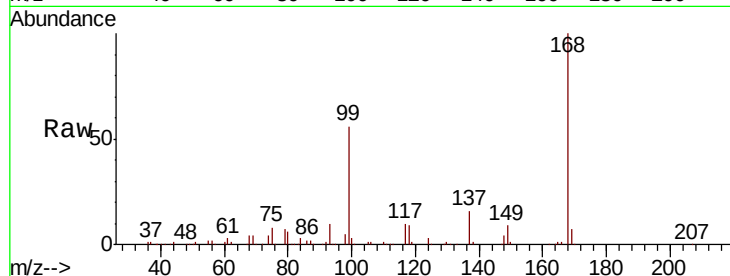
Tot Ion:117 Resp: 17920

Ion Ratio Lower Upper

117 100

119 6.4 76.8 115.2#

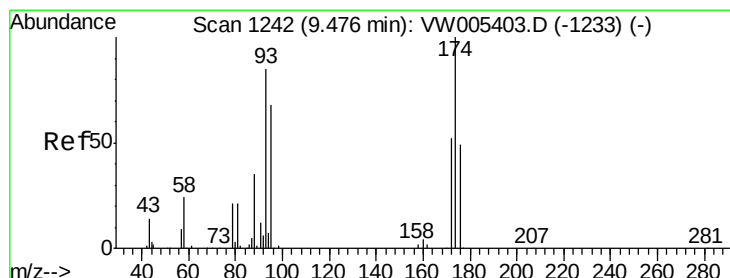
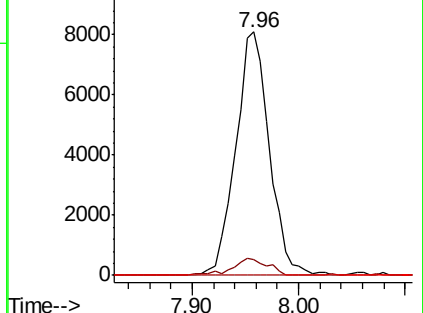
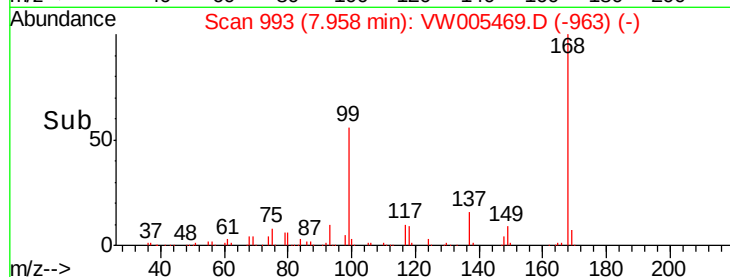
121 0.0 24.7 37.1#



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: 1.645 ug/l

RT: 9.61 min Scan# 1264

Delta R.T. 0.13 min

Lab File: VW005469.D

Acq: 18 Sep 2018 08:49

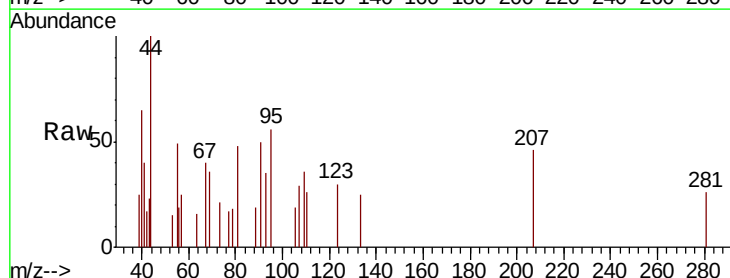
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 834.8 0.0 0.0#

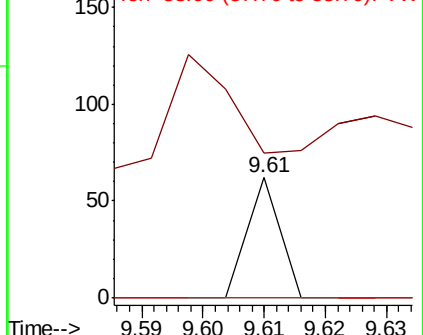
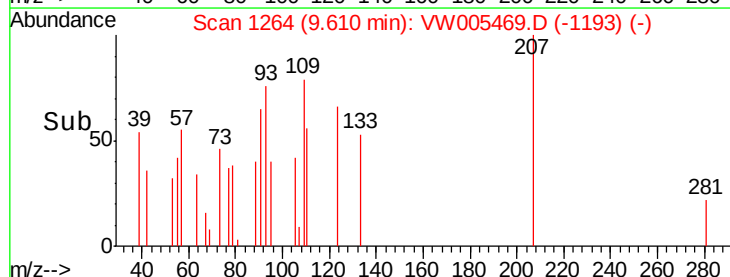
58 0.0 62.4 93.6#

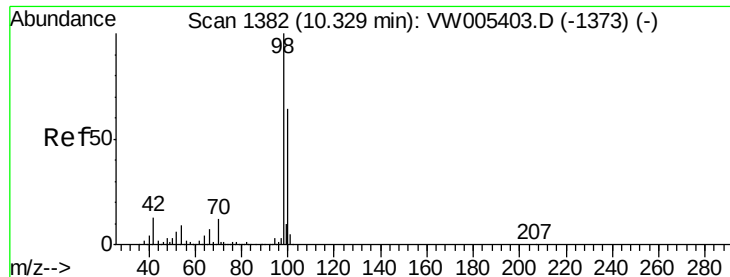


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 30.327 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW005469.D

Acq: 18 Sep 2018 08:49

Instrument :

MSVOA\_W

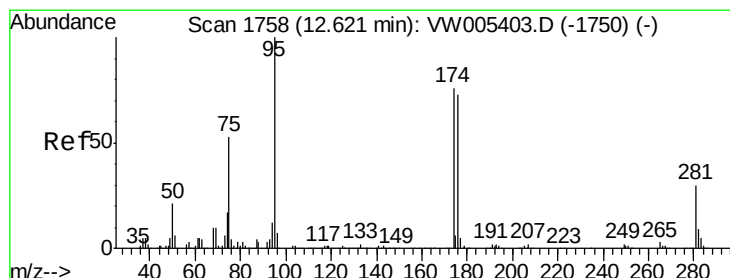
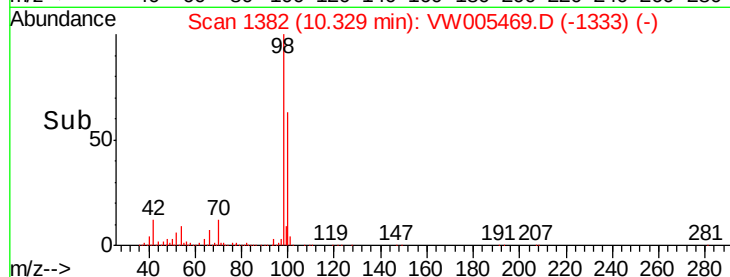
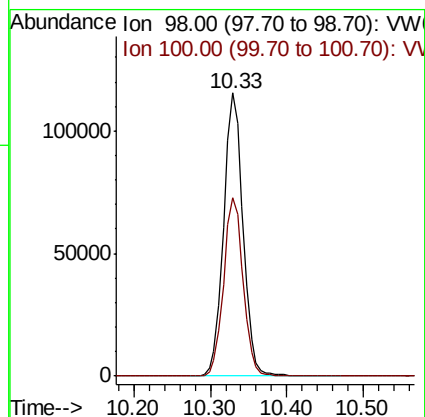
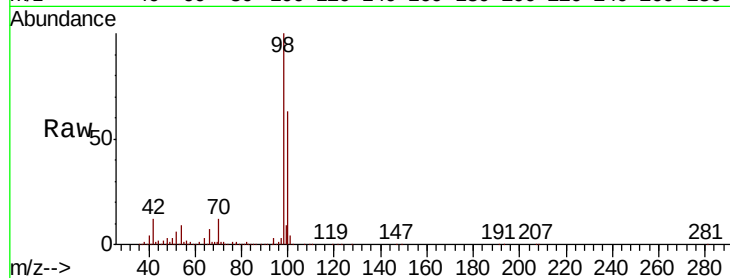
ClientSampleId :

Tot Ion: 98 Resp: 202680

Ion Ratio Lower Upper

98 100

100 63.1 51.4 77.0



#62

4-Bromofluorobenzene

Concen: 14.895 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW005469.D

Acq: 18 Sep 2018 08:49

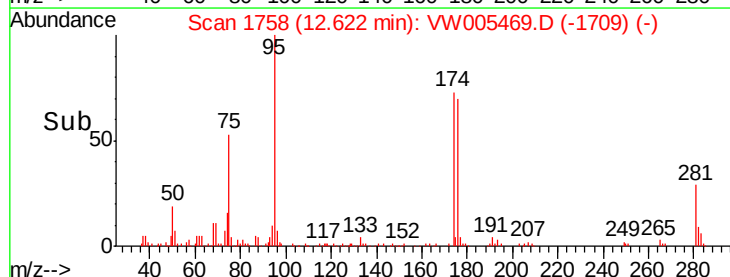
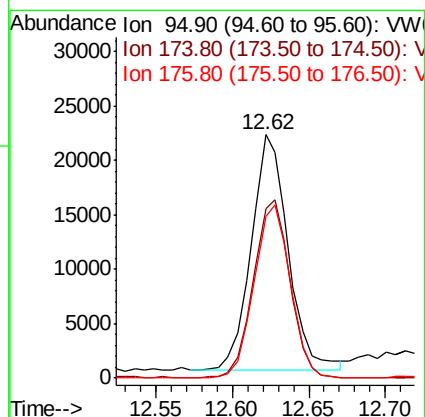
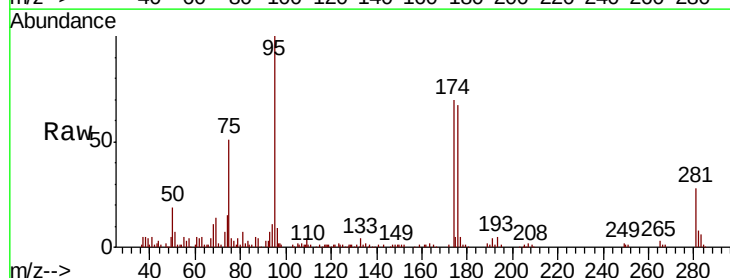
Tgt Ion: 95 Resp: 36499

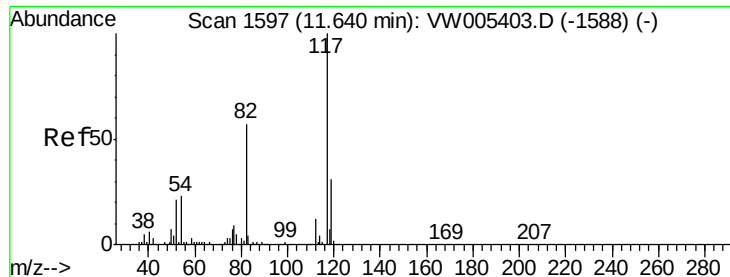
Ion Ratio Lower Upper

95 100

174 74.7 0.0 161.2

176 72.3 0.0 156.6

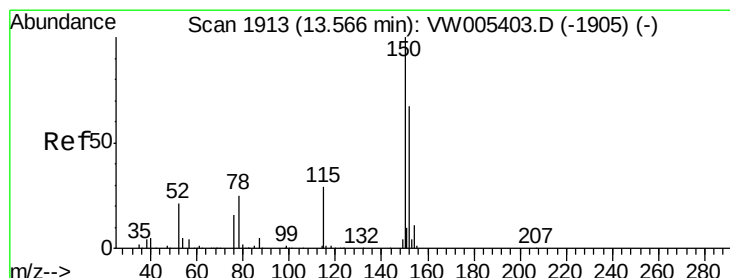
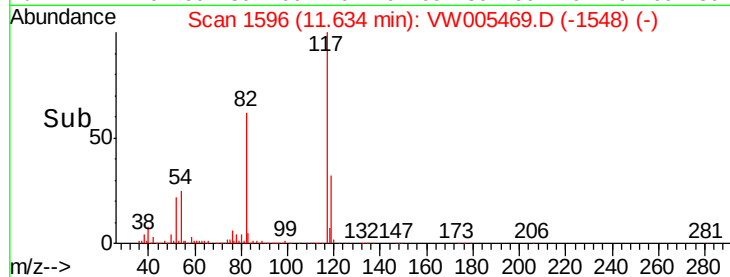
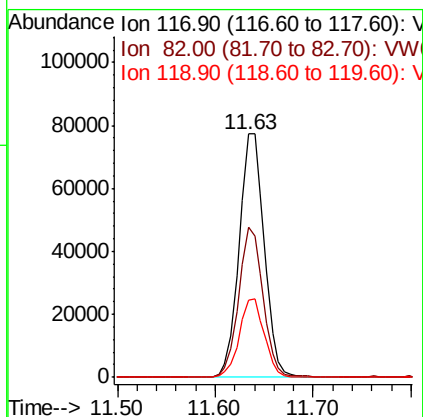
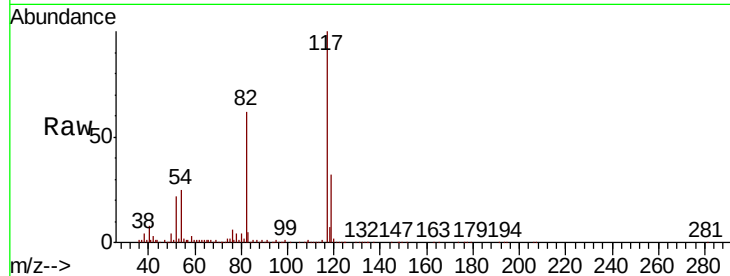




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.01 min  
Lab File: VW005469.D  
Acq: 18 Sep 2018 08:49

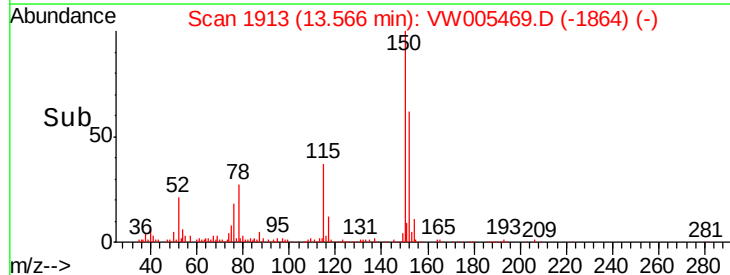
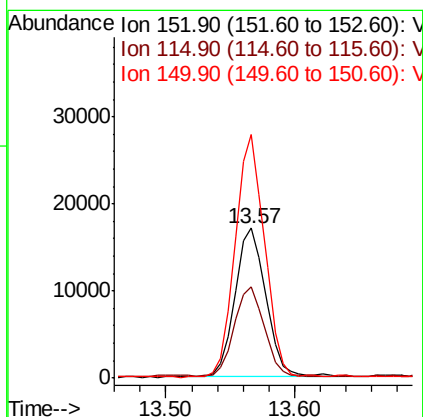
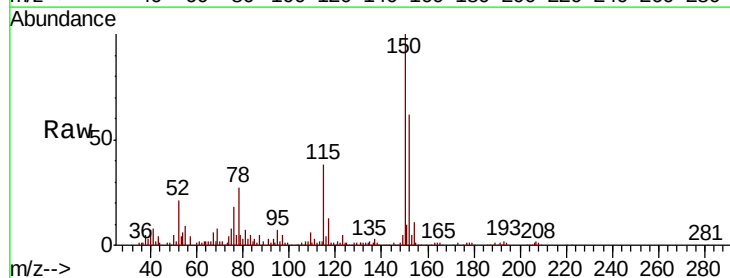
Instrument :  
MSVOA\_W  
ClientSampled :

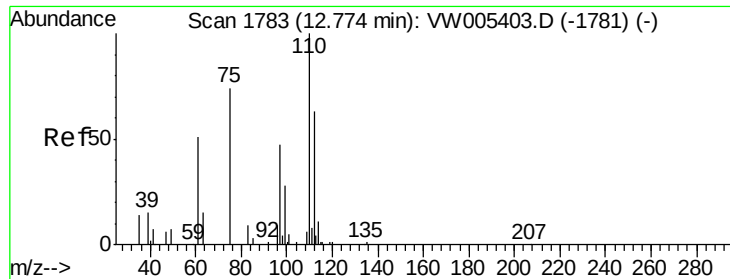
Tot Ion:117 Resp: 137276  
Ion Ratio Lower Upper  
117 100  
82 61.6 45.9 68.9  
119 31.5 24.8 37.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1913  
Delta R.T. 0.00 min  
Lab File: VW005469.D  
Acq: 18 Sep 2018 08:49

Tgt Ion:152 Resp: 28514  
Ion Ratio Lower Upper  
152 100  
115 57.9 29.5 88.5  
150 155.2 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 74.778 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005469.D

Acq: 18 Sep 2018 08:49

Instrument :

MSVOA\_W

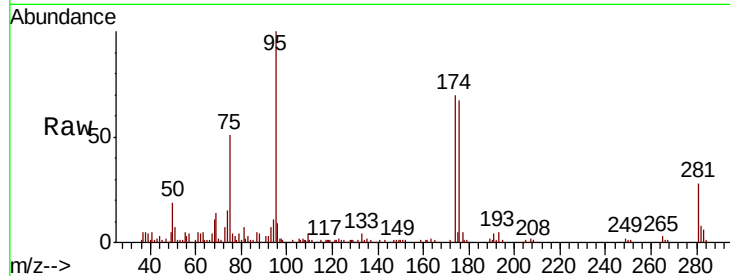
ClientSampleId :

Tot Ion: 75 Resp: 17537

Ion Ratio Lower Upper

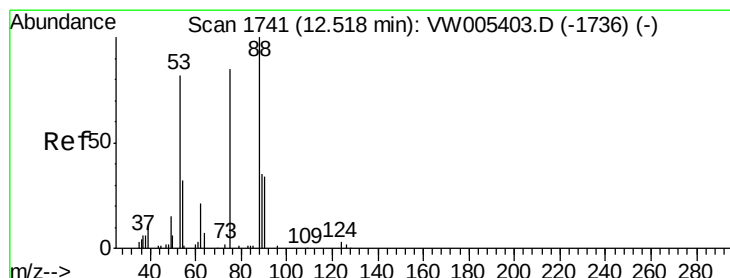
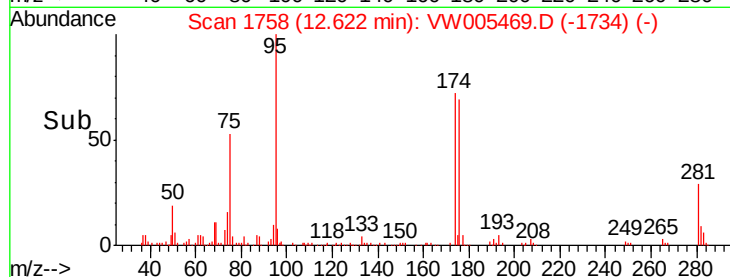
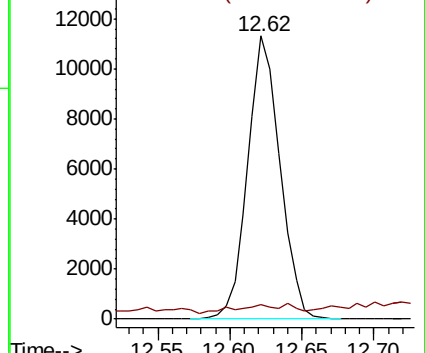
75 100

77 3.7 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: 193.979 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005469.D

Acq: 18 Sep 2018 08:49

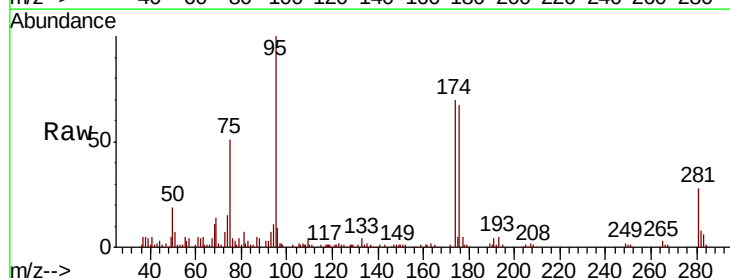
Tgt Ion: 75 Resp: 17537

Ion Ratio Lower Upper

75 100

53 2.1 83.2 124.8#

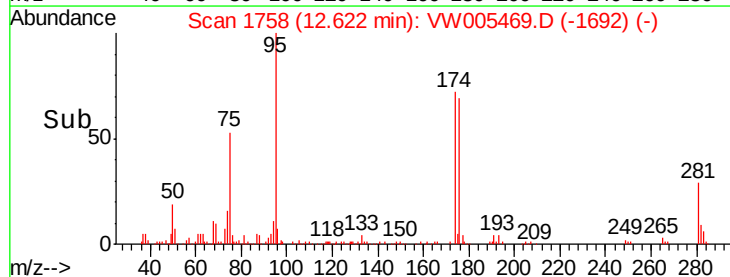
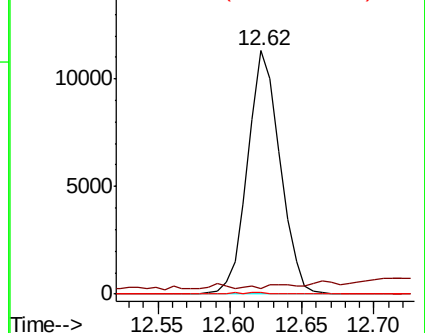
89 0.5 36.6 54.8#

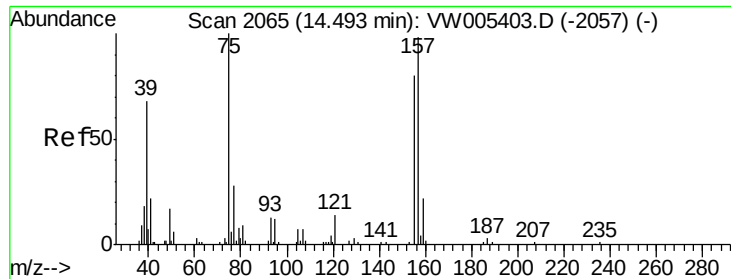


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 3.015 ug/l  
 RT: 14.35 min Scan# 2041  
 Delta R.T. -0.15 min  
 Lab File: VW005469.D  
 Acq: 18 Sep 2018 08:49

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 75 Resp: 169  
 Ion Ratio Lower Upper  
 75 100  
 155 55.6 39.0 117.0  
 157 72.2 49.9 149.6

