

Data File : VW006829.D  
Acq On : 13 Nov 2018 02:44  
Operator : SY/AP  
Sample : J5909-07  
Misc : 7.57G/5ML/MSVOA\_W/SOIL  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-15-S

Quant Time: Nov 13 03:36:14 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W111218S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 12 14:58:58 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 330894   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 438016   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 386992   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 156473   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 119493   | 49.40 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.80% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 114430   | 43.87 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 87.74% |      |
| 50) Toluene-d8            | 10.33  | 98  | 443840   | 41.06 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 82.12% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 132869   | 33.37 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 66.74% |      |

#### Target Compounds

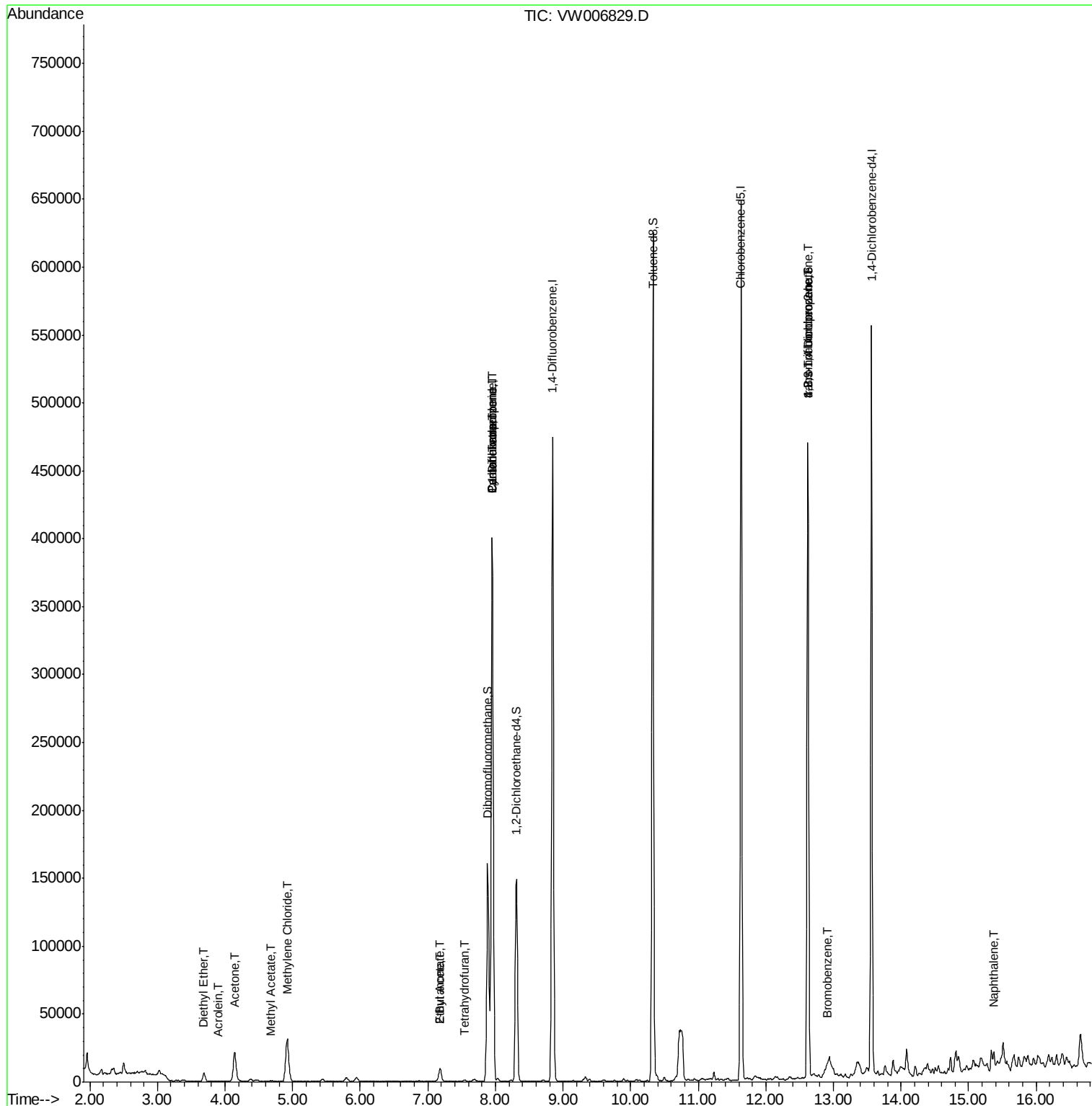
|                                |       |     |       |         |        | Qvalue |
|--------------------------------|-------|-----|-------|---------|--------|--------|
| 8) Diethyl Ether               | 3.69  | 74  | 3592  | 2.805   | ug/l   | 88     |
| 13) Acrolein                   | 3.89  | 56  | 310   | 1.867   | ug/l # | 81     |
| 16) Acetone                    | 4.14  | 43  | 40906 | 117.752 | ug/l   | 98     |
| 18) Methyl Acetate             | 4.67  | 43  | 1285  | 1.081   | ug/l # | 87     |
| 20) Methylene Chloride         | 4.92  | 84  | 26380 | 3.507   | ug/l   | 94     |
| 25) 2-Butanone                 | 7.18  | 43  | 14220 | 24.204  | ug/l   | 93     |
| 29) Tetrahydrofuran            | 7.54  | 42  | 781   | 2.077   | ug/l # | 73     |
| 31) Cyclohexane                | 7.95  | 56  | 5580  | 1.204   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 19706 | 4.808   | ug/l # | 46     |
| 37) Ethyl Acetate              | 7.18  | 43  | 14220 | 10.609  | ug/l # | 66     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 28564 | 6.412   | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 64497 | 57.196  | ug/l # | 100    |
| 77) Bromobenzene               | 12.91 | 156 | 6385  | 2.332   | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 64497 | 141.479 | ug/l # | 13     |
| 95) Naphthalene                | 15.37 | 128 | 11225 | 2.045   | ug/l # | 96     |

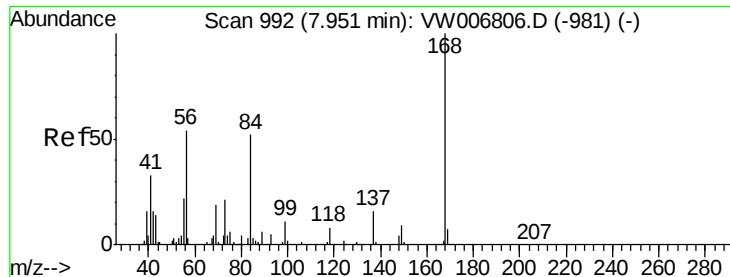
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Mon Nov 12 14:58:58 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: VW006829.D

Acq: 13 Nov 2018 02:44

Instrument :

MSVOA\_W

ClientSampleId :

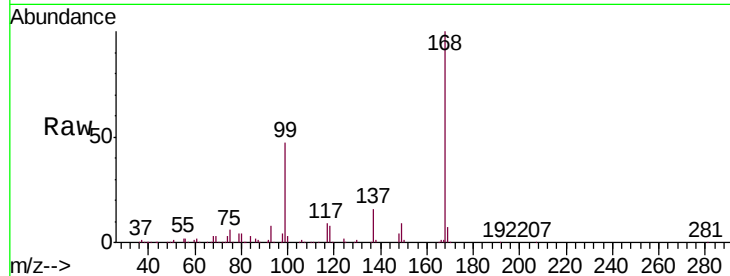
SB-15-S

Tgt Ion:168 Resp: 330894

Ion Ratio Lower Upper

168 100

99 46.8 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

150000

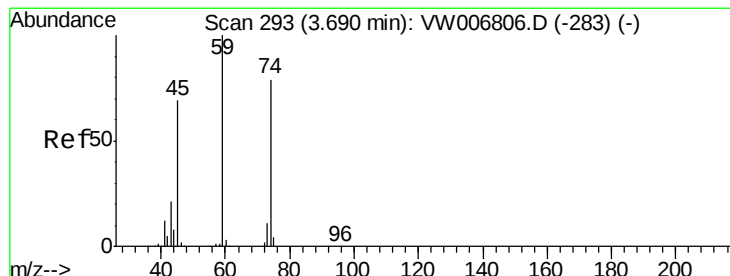
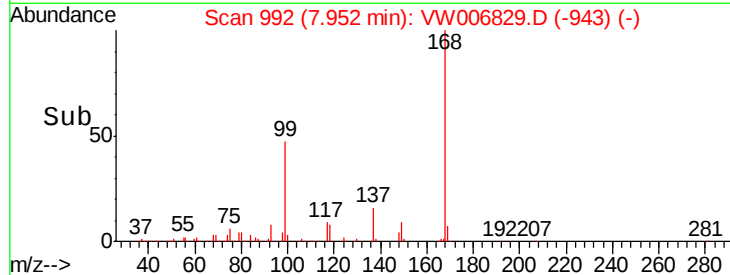
100000

50000

0

7.80 7.90 8.00 8.10

Time-->



#8

Diethyl Ether

Concen: 2.805 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.00 min

Lab File: VW006829.D

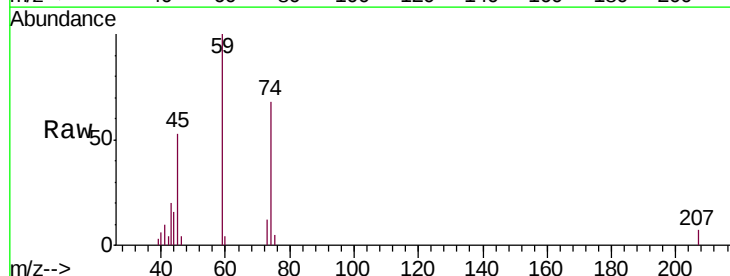
Acq: 13 Nov 2018 02:44

Tgt Ion: 74 Resp: 3592

Ion Ratio Lower Upper

74 100

45 96.9 43.1 129.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

1500

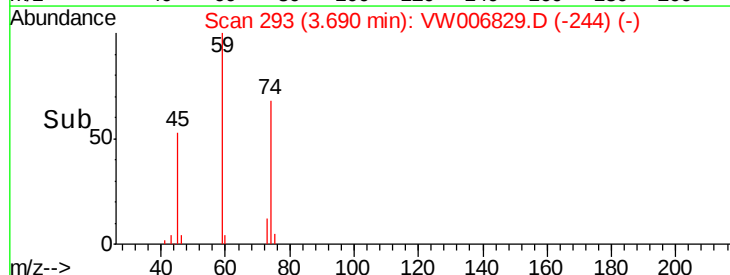
1000

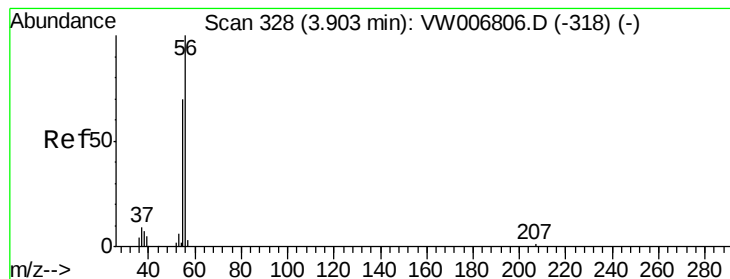
500

0

3.60 3.65 3.70 3.75

Time-->





#13

Acrolein

Concen: 1.867 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.01 min

Lab File: VW006829.D

Acq: 13 Nov 2018 02:44

Instrument :

MSVOA\_W

ClientSampled :

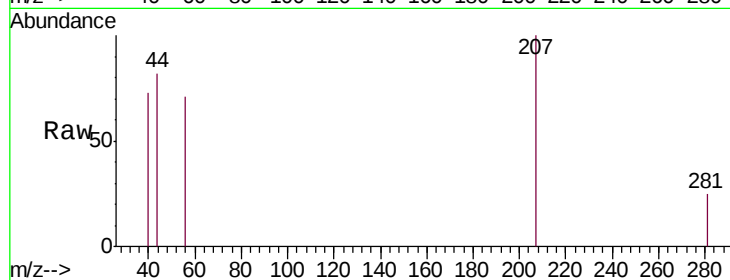
SB-15-S

Tgt Ion: 56 Resp: 310

Ion Ratio Lower Upper

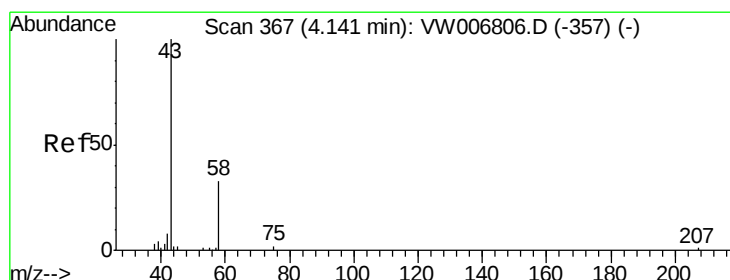
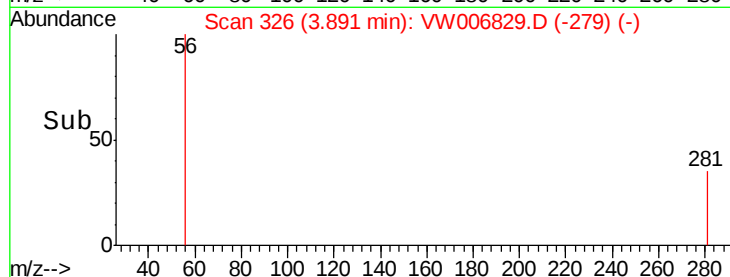
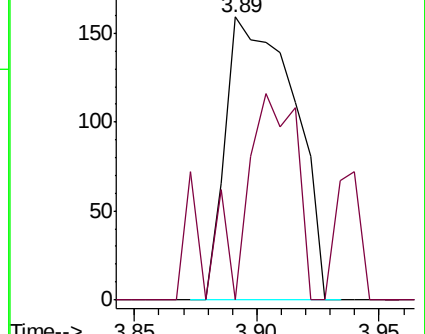
56 100

55 54.8 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 117.752 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.00 min

Lab File: VW006829.D

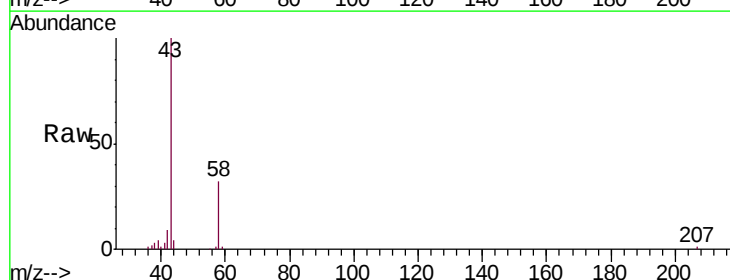
Acq: 13 Nov 2018 02:44

Tgt Ion: 43 Resp: 40906

Ion Ratio Lower Upper

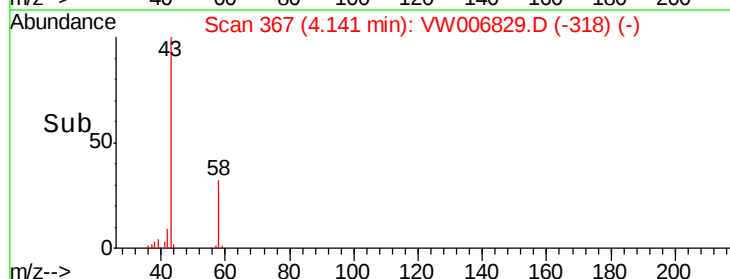
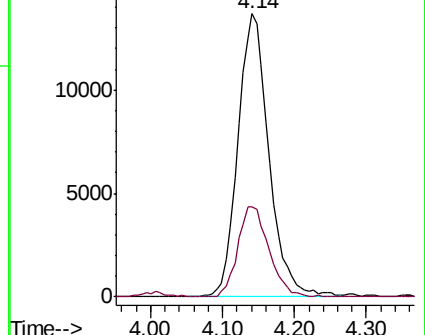
43 100

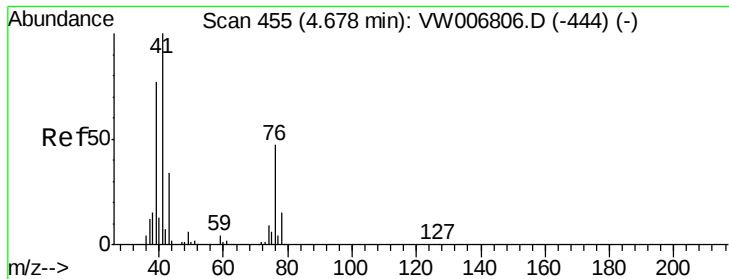
58 31.8 26.5 39.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

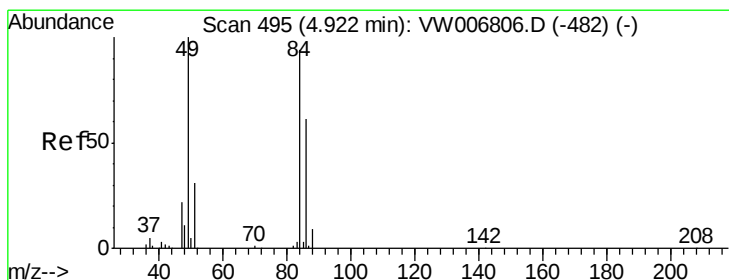
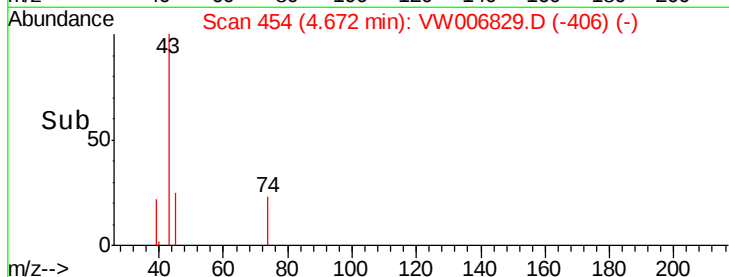
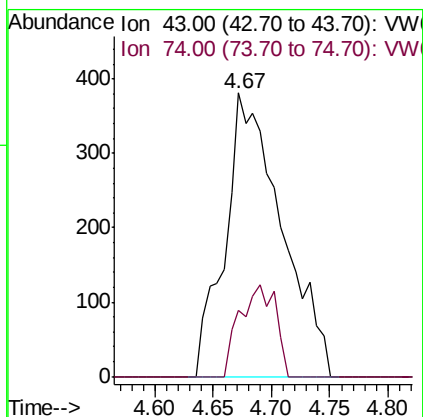
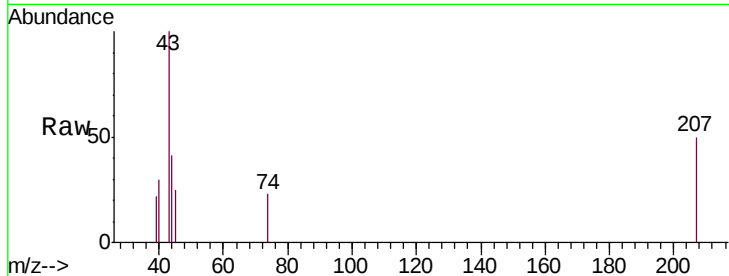




#18  
Methyl Acetate  
Concen: 1.081 ug/l  
RT: 4.67 min Scan# 454  
Delta R.T. -0.01 min  
Lab File: VW006829.D  
Acq: 13 Nov 2018 02:44

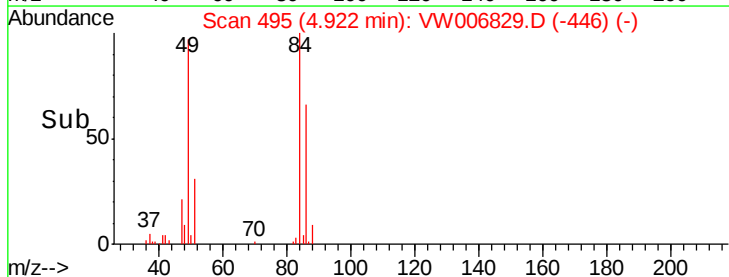
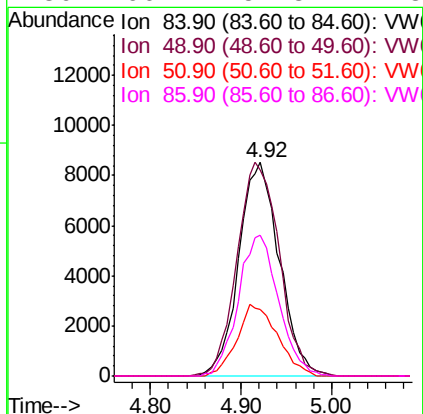
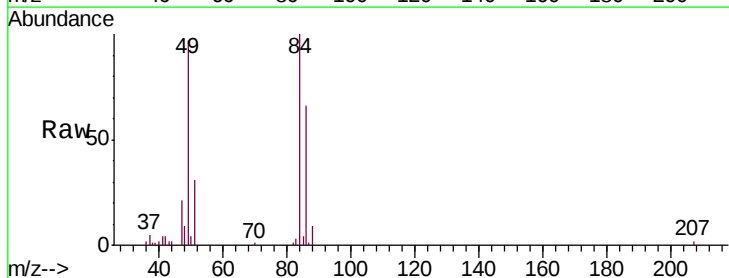
Instrument :  
MSVOA\_W  
ClientSampled :  
SB-15-S

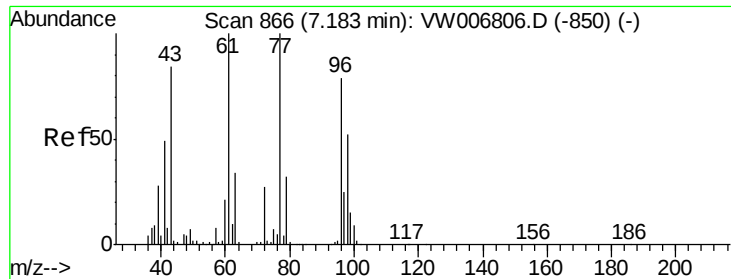
Tgt Ion: 43 Resp: 1285  
Ion Ratio Lower Upper  
43 100  
74 20.6 21.9 32.9#



#20  
Methylene Chloride  
Concen: 3.507 ug/l  
RT: 4.92 min Scan# 495  
Delta R.T. 0.00 min  
Lab File: VW006829.D  
Acq: 13 Nov 2018 02:44

Tgt Ion: 84 Resp: 26380  
Ion Ratio Lower Upper  
84 100  
49 96.8 84.8 127.2  
51 30.9 26.2 39.4  
86 66.1 51.8 77.8





#25

2-Butanone

Concen: 24.204 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.01 min

Lab File: VW006829.D

Acq: 13 Nov 2018 02:44

Instrument :

MSVOA\_W

ClientSampleId :

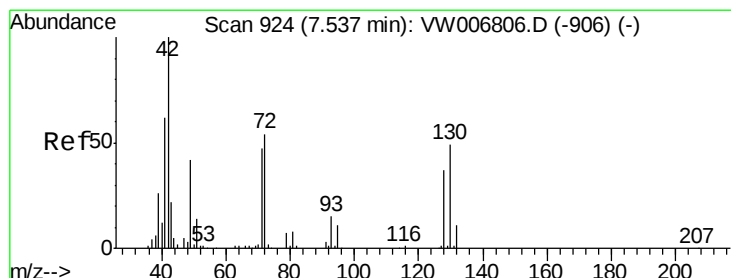
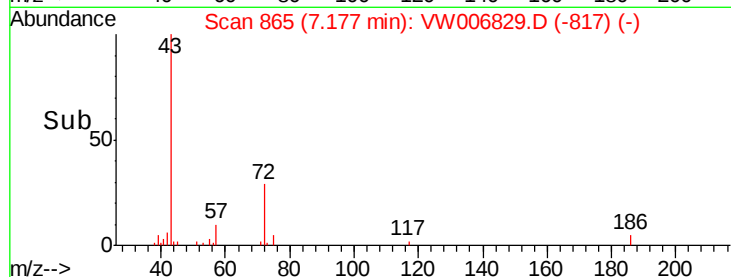
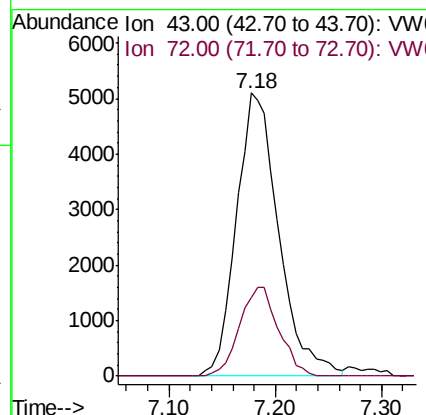
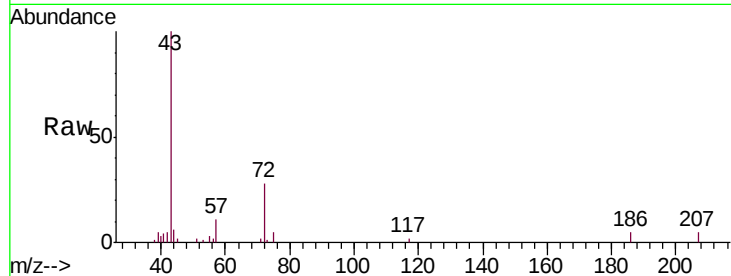
SB-15-S

Tgt Ion: 43 Resp: 14220

Ion Ratio Lower Upper

43 100

72 27.9 25.3 37.9



#29

Tetrahydrofuran

Concen: 2.077 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.00 min

Lab File: VW006829.D

Acq: 13 Nov 2018 02:44

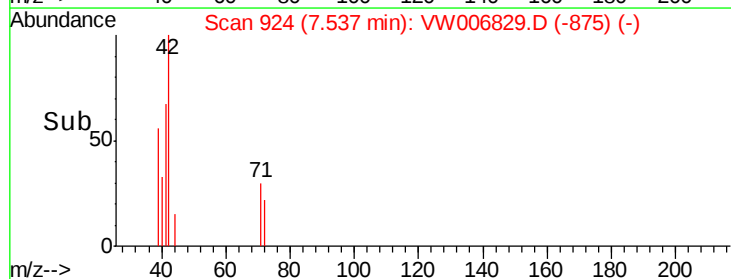
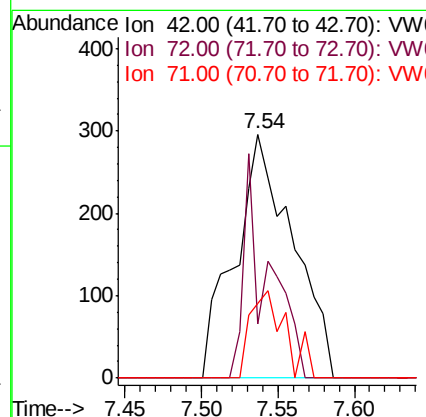
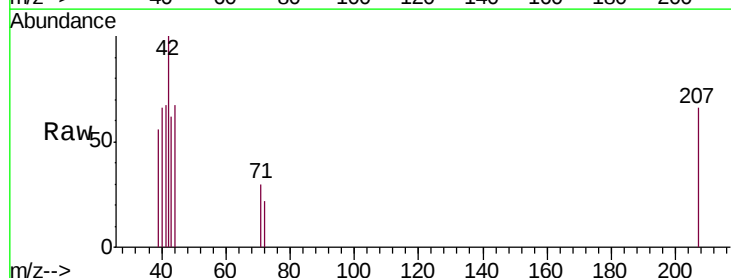
Tgt Ion: 42 Resp: 781

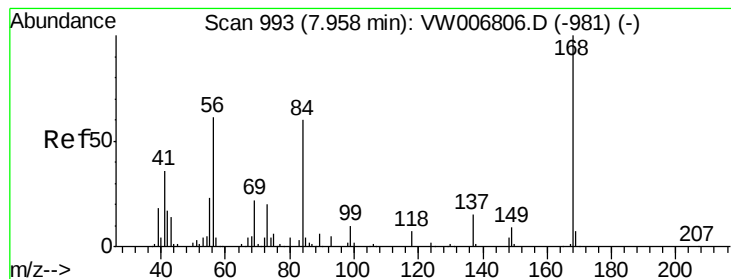
Ion Ratio Lower Upper

42 100

72 38.9 40.9 61.3#

71 21.8 36.9 55.3#





#31

Cyclohexane

Concen: 1.204 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW006829.D

Acq: 13 Nov 2018 02:44

Instrument :

MSVOA\_W

ClientSampleId :

SB-15-S

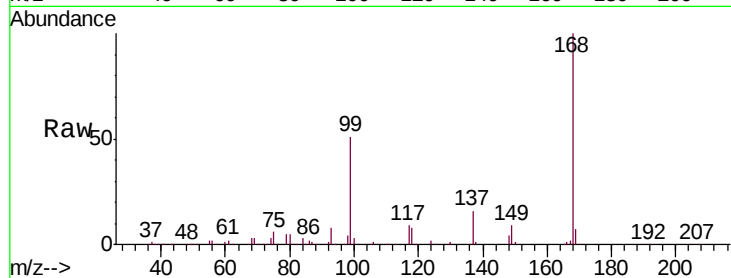
Tgt Ion: 56 Resp: 5580

Ion Ratio Lower Upper

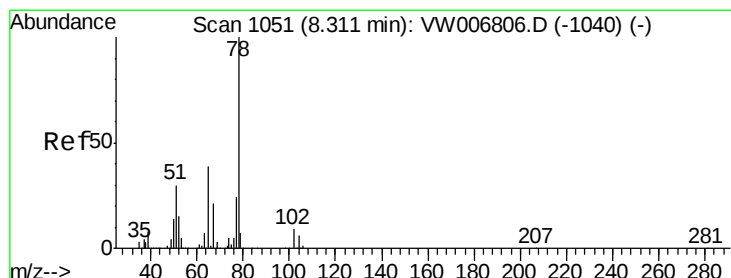
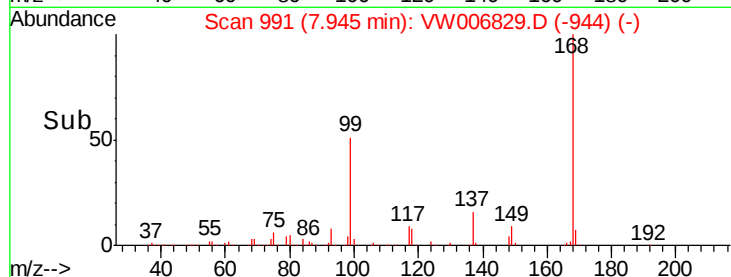
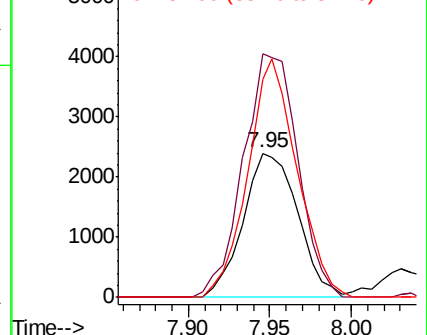
56 100

69 168.6 28.9 43.3#

84 151.0 79.0 118.4#



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: 49.399 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VW006829.D

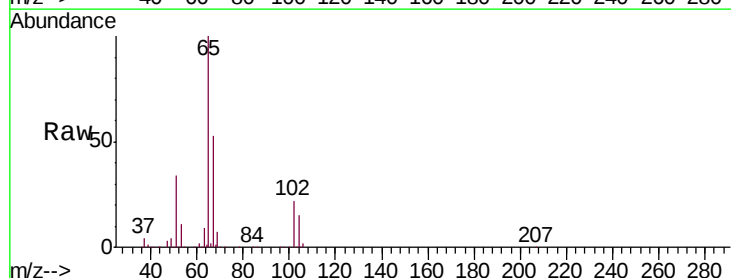
Acq: 13 Nov 2018 02:44

Tgt Ion: 65 Resp: 119493

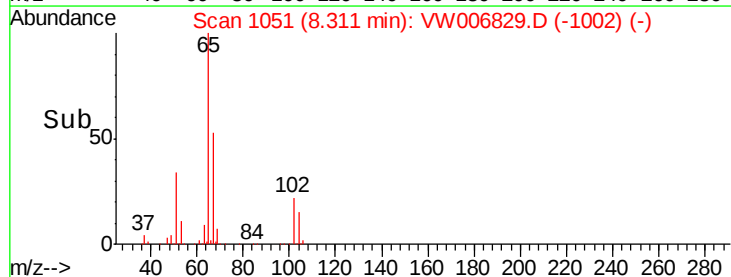
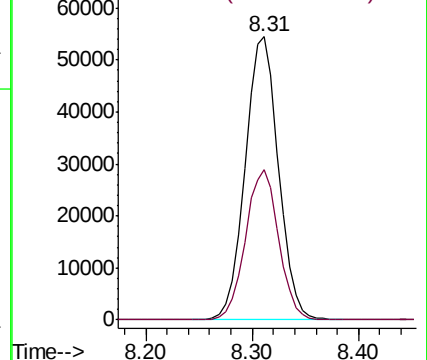
Ion Ratio Lower Upper

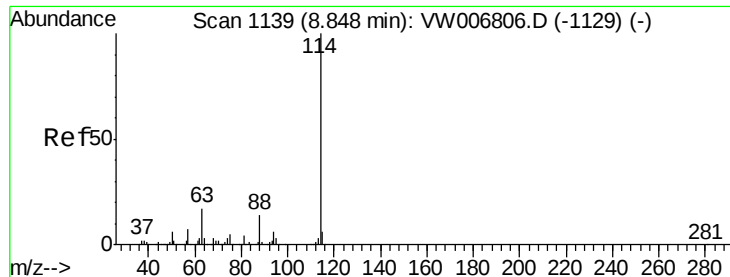
65 100

67 52.7 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW

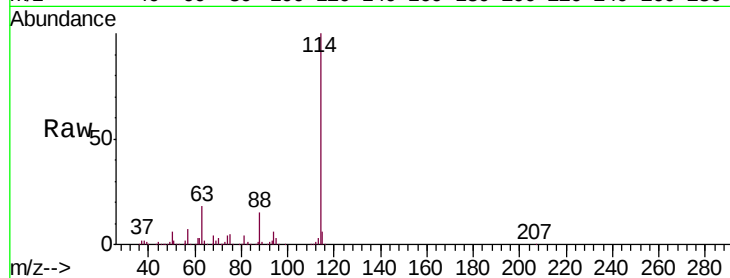




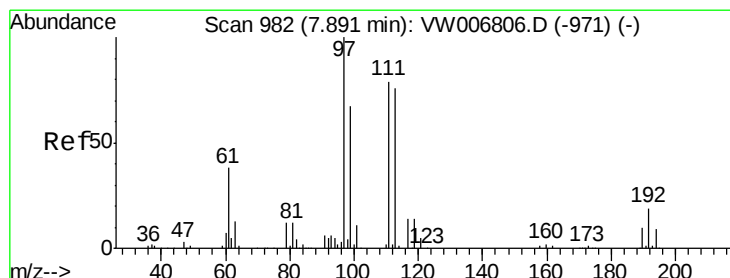
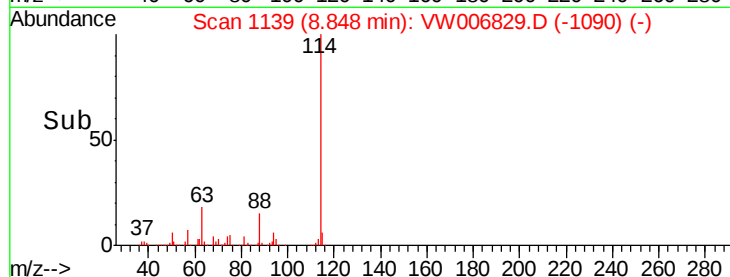
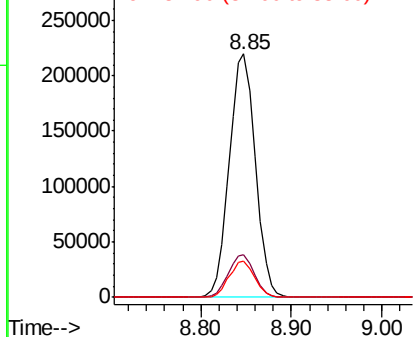
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW006829.D  
 Acq: 13 Nov 2018 02:44

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-15-S

Tgt Ion:114 Resp: 438016  
 Ion Ratio Lower Upper  
 114 100  
 63 17.6 0.0 33.6  
 88 14.7 0.0 28.4

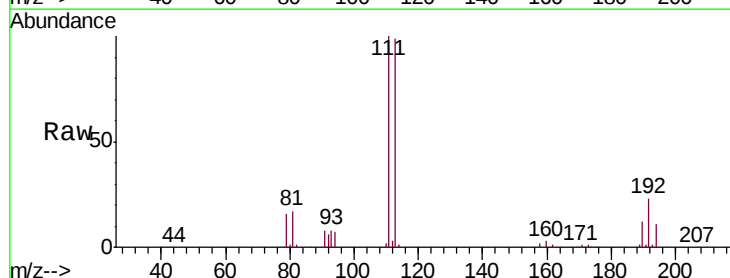


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

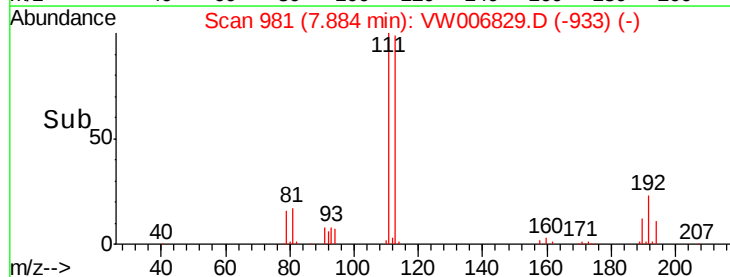
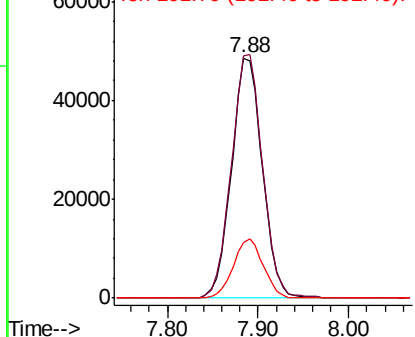


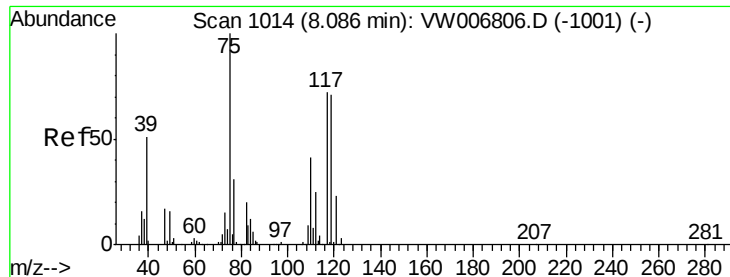
#35  
 Dibromofluoromethane  
 Concen: 43.872 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.01 min  
 Lab File: VW006829.D  
 Acq: 13 Nov 2018 02:44

Tgt Ion:113 Resp: 114430  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 81.0 121.6  
 192 24.2 19.0 28.6



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

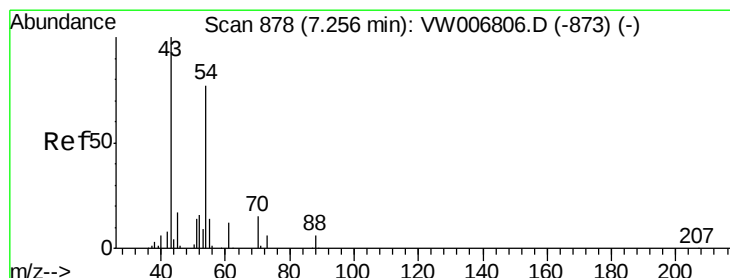
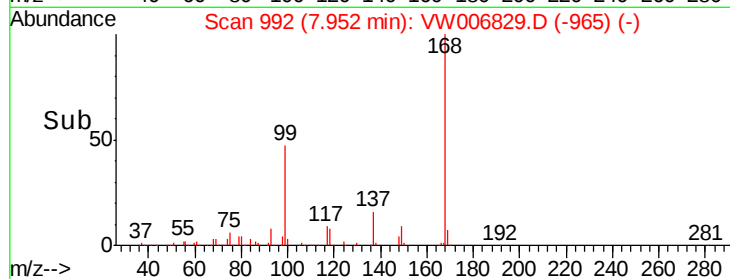
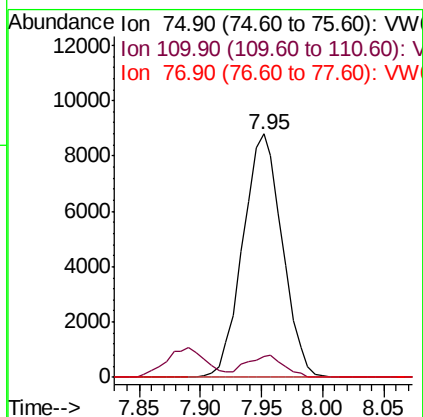
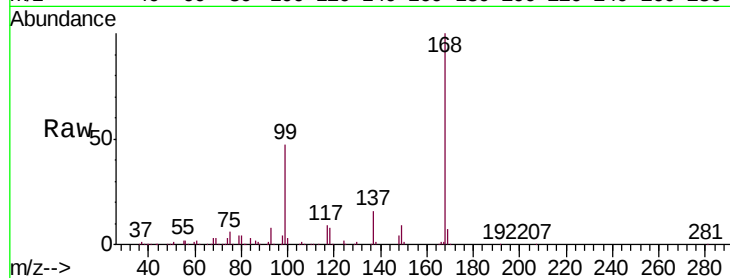




#36  
 1,1-Dichloropropene  
 Concen: 4.808 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW006829.D  
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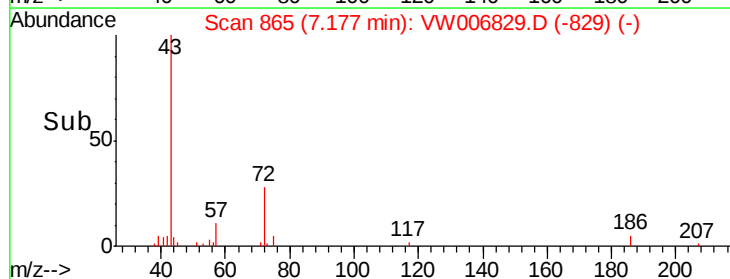
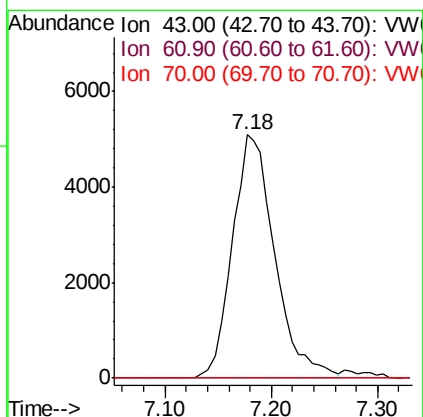
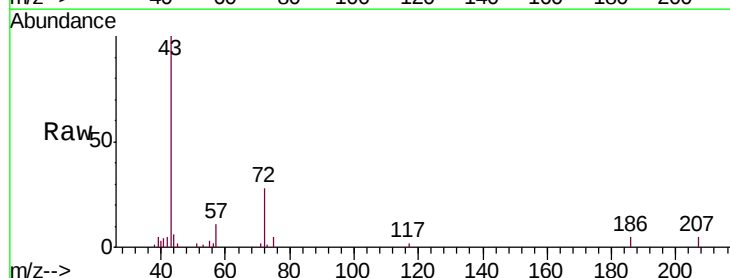
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-15-S

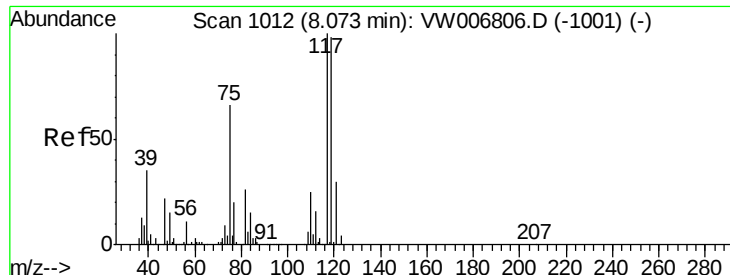
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.4   | 19.9  | 59.6# |
| 77      | 0.0   | 25.4  | 38.2# |



#37  
 Ethyl Acetate  
 Concen: 10.609 ug/l  
 RT: 7.18 min Scan# 865  
 Delta R.T. -0.08 min  
 Lab File: VW006829.D  
 Acq: 13 Nov 2018 02:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 11.7  | 17.5# |
| 70      | 0.0   | 10.0  | 15.0# |





#38

Carbon Tetrachloride

Concen: 6.412 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW006829.D

Acq: 13 Nov 2018 02:44

Instrument :

MSVOA\_W

ClientSampleId :

SB-15-S

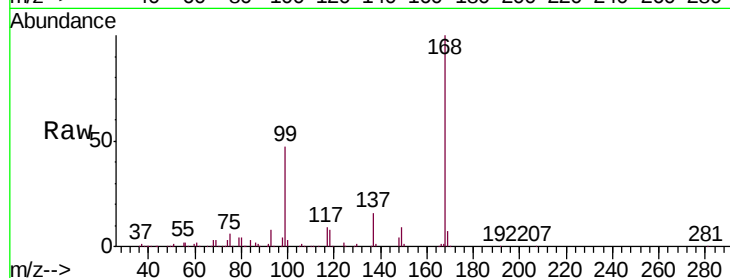
Tgt Ion:117 Resp: 28564

Ion Ratio Lower Upper

117 100

119 5.0 78.5 117.7#

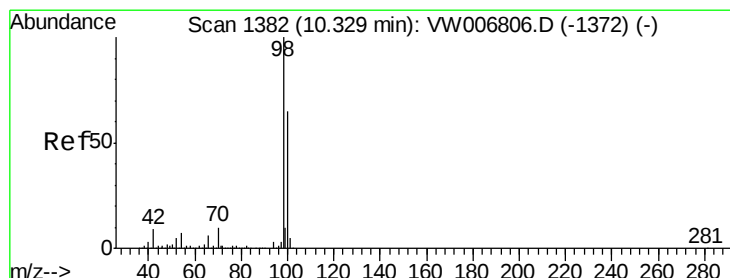
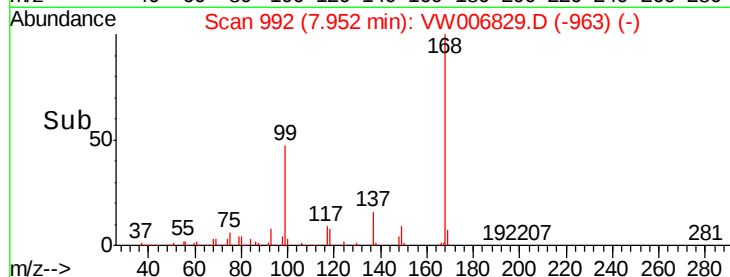
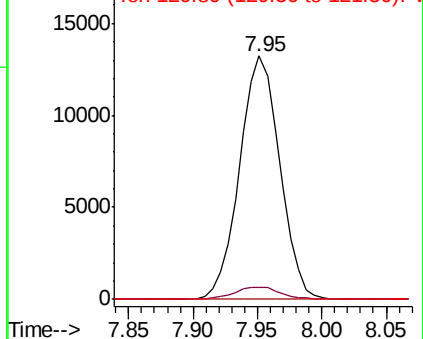
121 0.0 24.2 36.2#



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: 41.055 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW006829.D

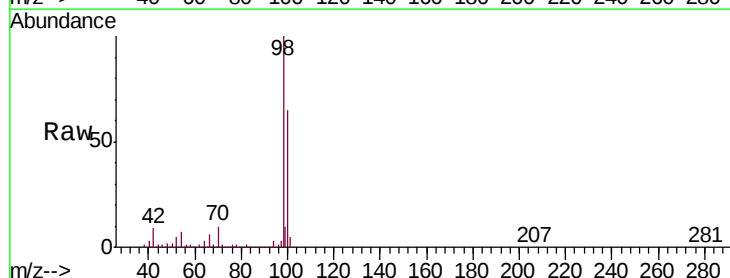
Acq: 13 Nov 2018 02:44

Tgt Ion: 98 Resp: 443840

Ion Ratio Lower Upper

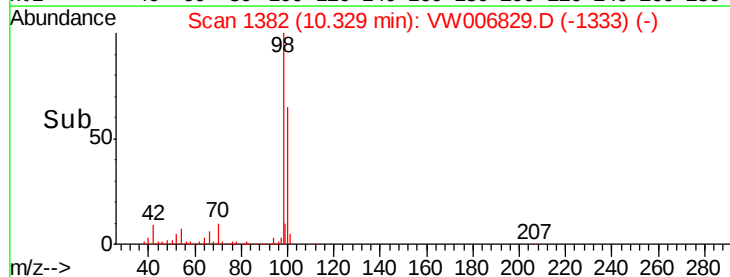
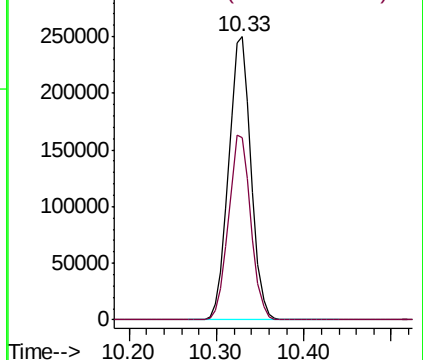
98 100

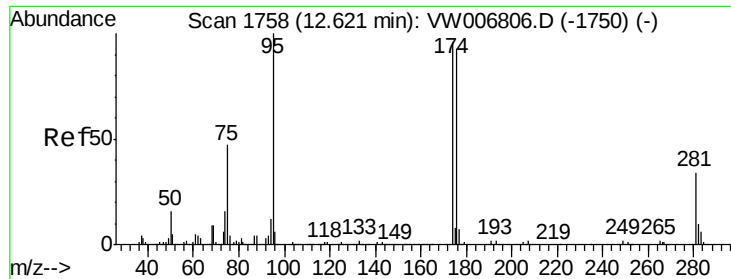
100 65.1 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

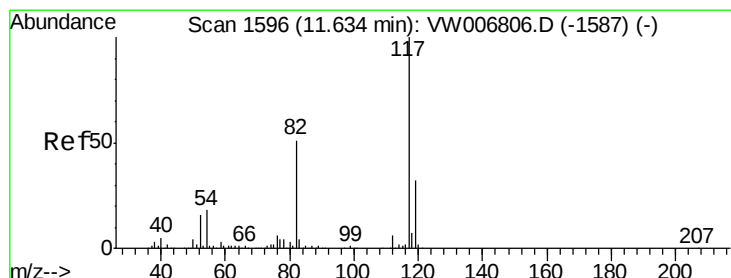
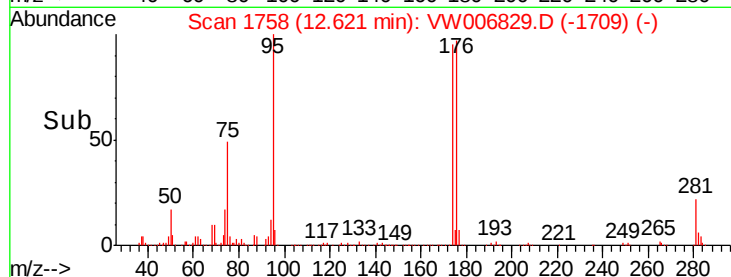
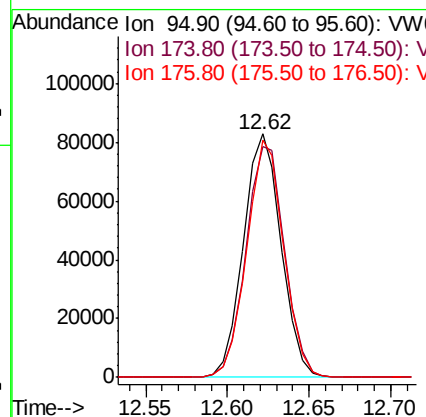
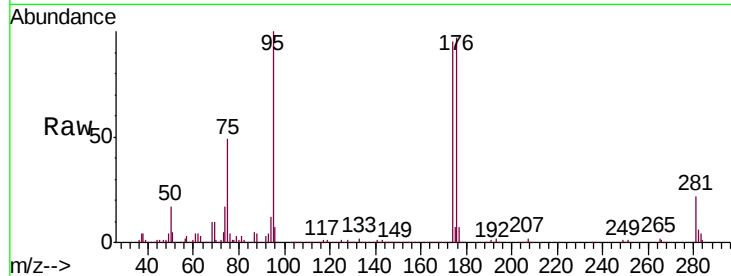




#62  
4-Bromofluorobenzene  
Concen: 33.369 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW006829.D  
Acq: 13 Nov 2018 02:44

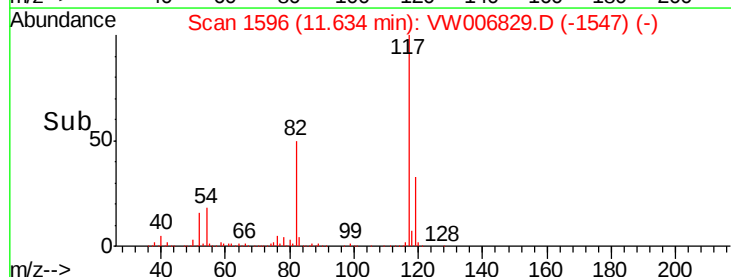
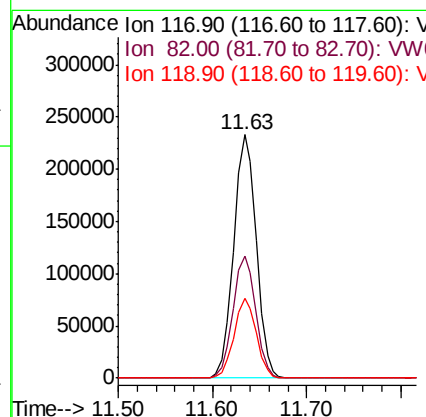
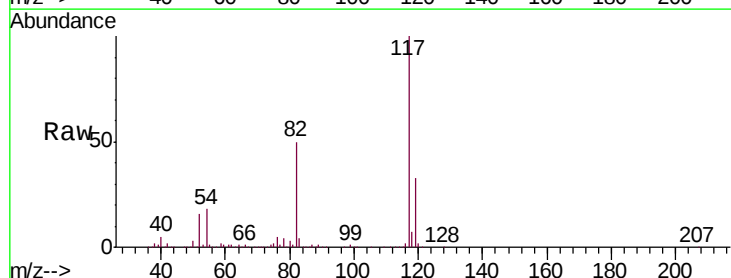
Instrument :  
MSVOA\_W  
ClientSampled :  
SB-15-S

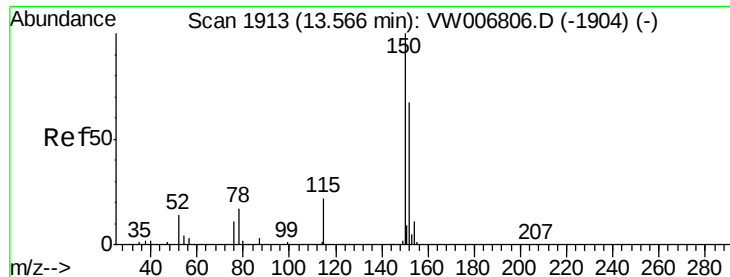
Tgt Ion: 95 Resp: 132869  
Ion Ratio Lower Upper  
95 100  
174 97.8 0.0 196.6  
176 95.4 0.0 191.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW006829.D  
Acq: 13 Nov 2018 02:44

Tgt Ion: 117 Resp: 386992  
Ion Ratio Lower Upper  
117 100  
82 49.9 40.6 61.0  
119 32.7 25.5 38.3



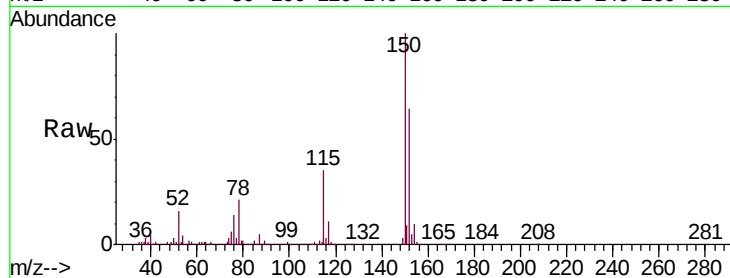


#72

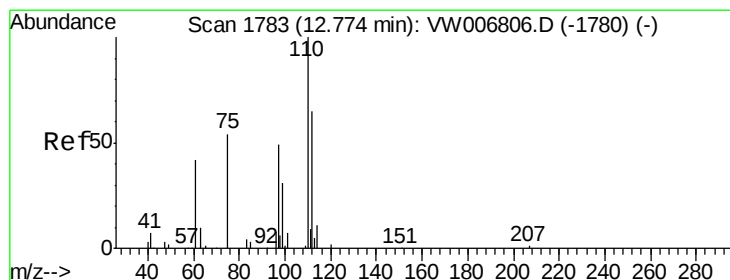
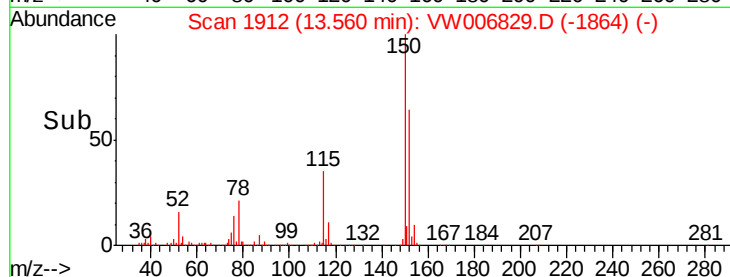
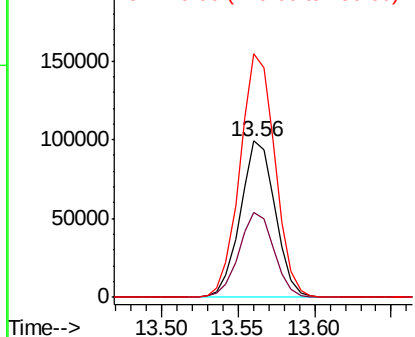
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.01 min  
Lab File: VW006829.D  
Acq: 13 Nov 2018 02:44

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-15-S

Tgt Ion:152 Resp: 156473  
Ion Ratio Lower Upper  
152 100  
115 54.8 27.3 81.8  
150 156.7 0.0 353.0



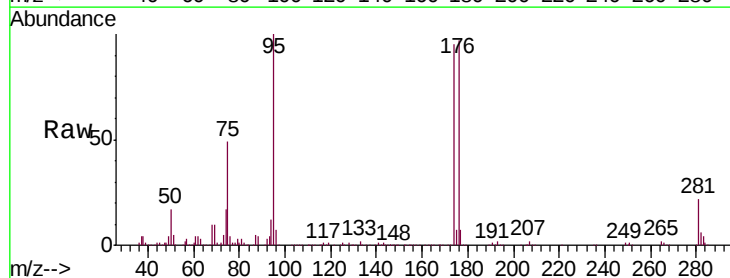
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



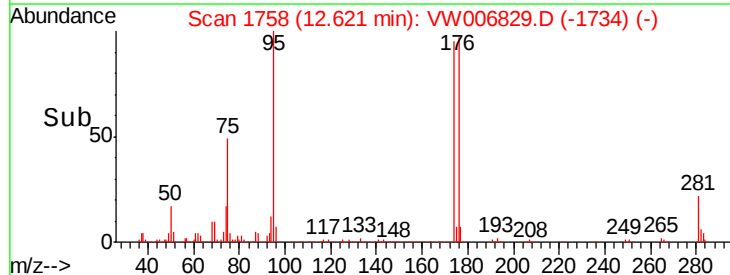
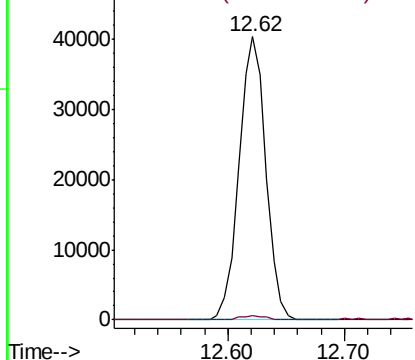
#76

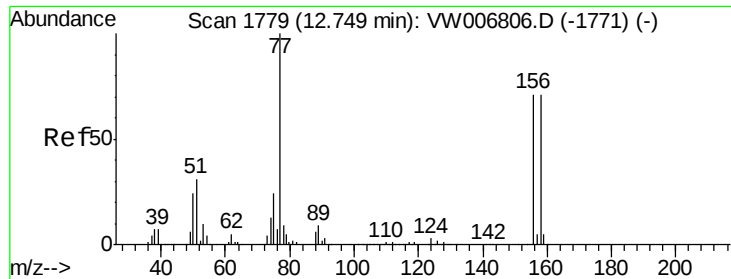
1,2,3-Trichloropropane  
Concen: 57.196 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.15 min  
Lab File: VW006829.D  
Acq: 13 Nov 2018 02:44

Tgt Ion: 75 Resp: 64497  
Ion Ratio Lower Upper  
75 100  
77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 2.332 ug/l

RT: 12.91 min Scan# 1805

Delta R.T. 0.16 min

Lab File: VW006829.D

Acq: 13 Nov 2018 02:44

Instrument :

MSVOA\_W

ClientSampled :

SB-15-S

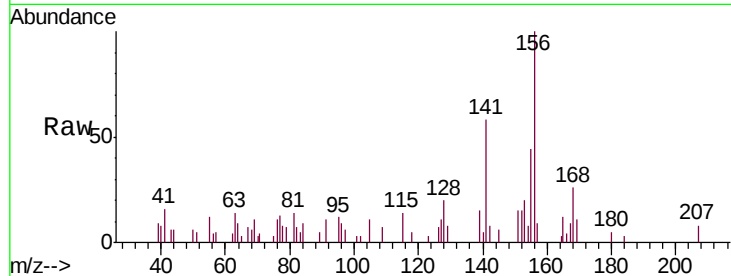
Tgt Ion:156 Resp: 6385

Ion Ratio Lower Upper

156 100

77 1.9 75.3 225.7#

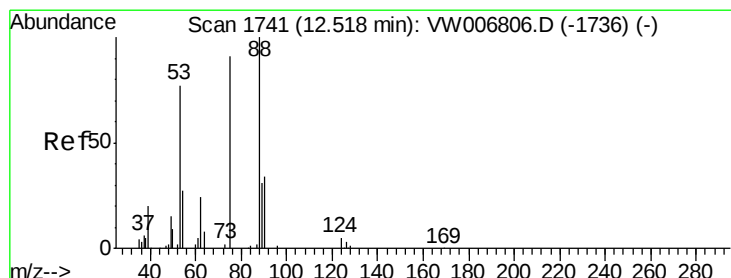
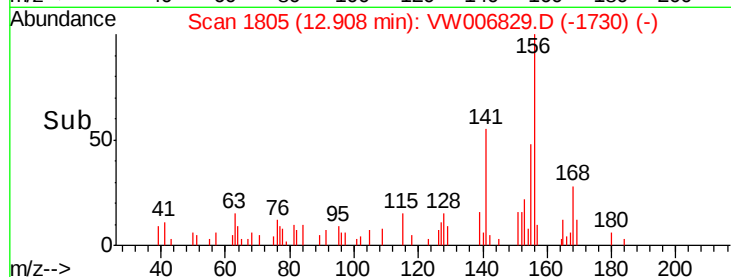
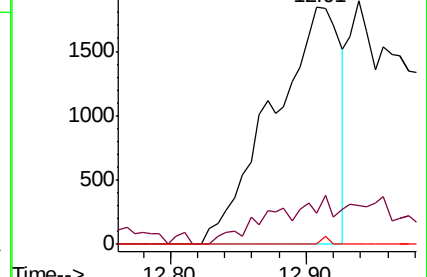
158 0.3 49.2 147.6#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 141.479 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006829.D

Acq: 13 Nov 2018 02:44

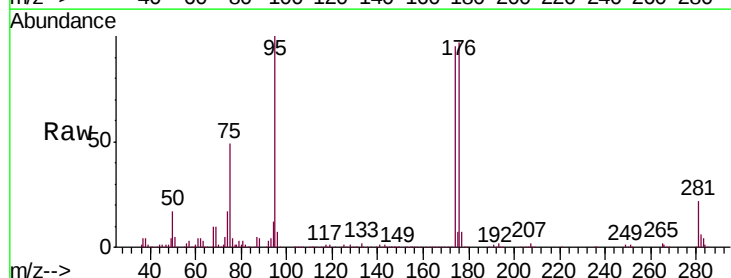
Tgt Ion: 75 Resp: 64497

Ion Ratio Lower Upper

75 100

53 0.0 72.9 109.3#

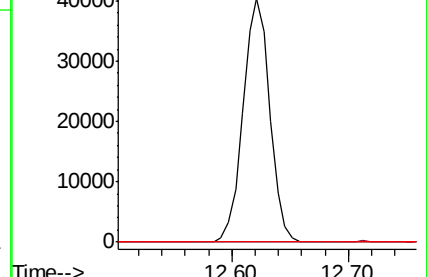
89 0.0 38.7 58.1#

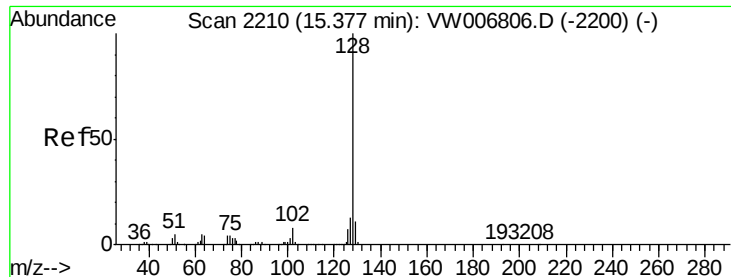


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#95  
Naphthalene  
Concen: 2.045 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. -0.01 min  
Lab File: VW006829.D  
Acq: 13 Nov 2018 02:44

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-15-S

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 15.6  | 10.3  | 15.5# |
| 129     | 10.5  | 8.6   | 13.0  |

