

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080118\  
 Data File : VU025751.D  
 Acq On : 31 Jul 2018 20:04  
 Operator : MD/SY  
 Sample : J4226-03  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 STORAGE BLANK-WATERREF-4

Quant Time: Aug 01 05:30:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 16:07:47 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 191356   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 305348   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 298266   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 184700   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 151022   | 50.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.30% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 126461   | 47.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.24%  |          |
| 50) Toluene-d8              | 7.57  | 98   | 445876   | 47.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.96%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 174609   | 48.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.82%  |          |

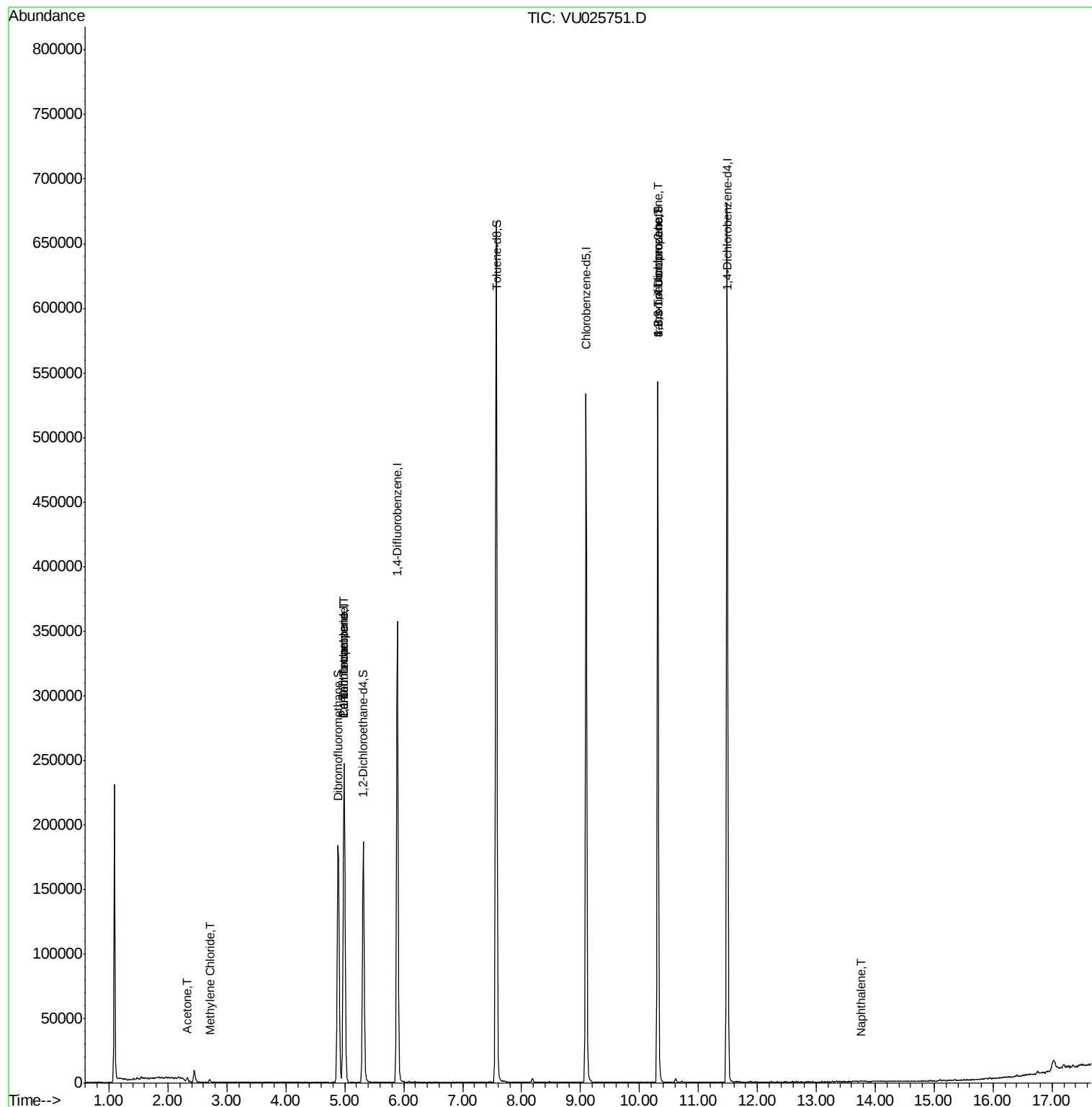
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 13) Acrolein                   | 2.22  | 56   | 19       | Below Cal | #     | 1      |
| 16) Acetone                    | 2.32  | 43   | 3031     | 2.09      | ug/l  | 93     |
| 20) Methylene Chloride         | 2.71  | 84   | 976      | 0.38      | ug/l  | 82     |
| 31) Cyclohexane                | 4.99  | 56   | 3600     | Below Cal | #     | 10     |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 13701    | 3.84      | ug/l  | 50     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 18319    | 4.53      | ug/l  | 16     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 87972    | 21.62     | ug/l  | 36     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 87972    | 54.21     | ug/l  | 100    |
| 95) Naphthalene                | 13.76 | 128  | 2075     | 1.40      | ug/l  | 73     |

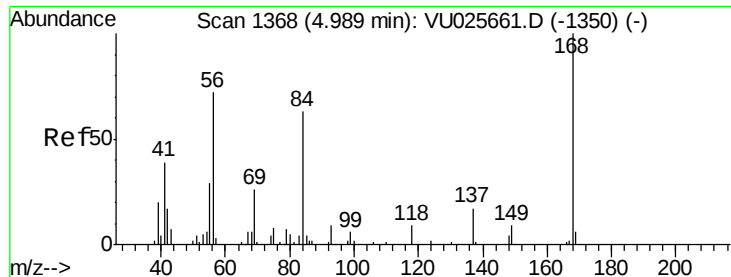
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 31 16:07:47 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU025751.D

Acq: 31 Jul 2018 20:04

Instrument :

MSVOA\_U

ClientSampleId :

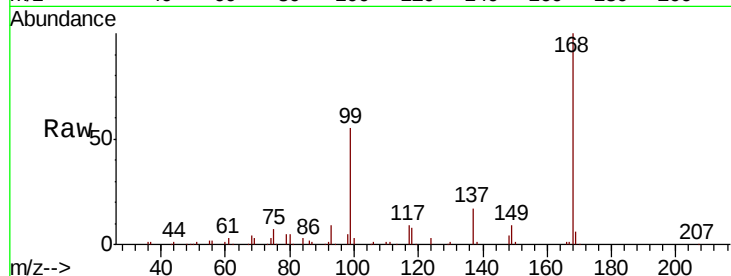
STORAGEBLANK-WATERREF-4

Tot Ion:168 Resp: 191356

Ion Ratio Lower Upper

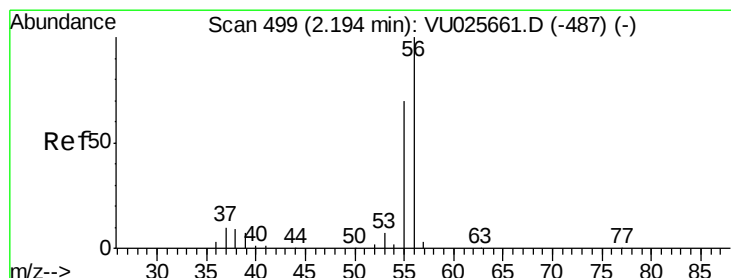
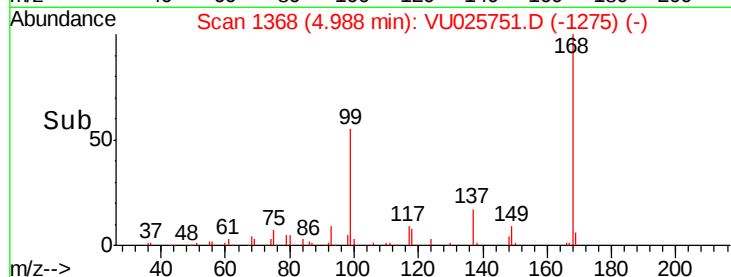
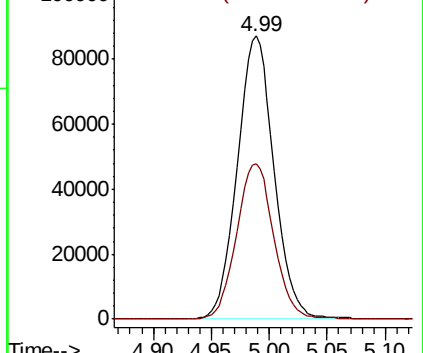
168 100

99 54.8 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025661.D (-1350) (-)

Ion 98.90 (98.60 to 99.60): VU025661.D (-1350) (-)



#13

Acrolein

Concen: Below Cal

RT: 2.22 min Scan# 508

Delta R.T. 0.03 min

Lab File: VU025751.D

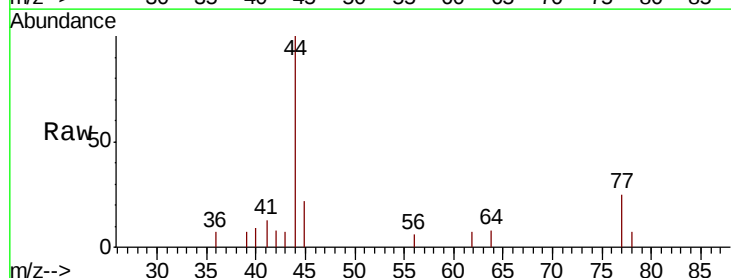
Acq: 31 Jul 2018 20:04

Tgt Ion: 56 Resp: 19

Ion Ratio Lower Upper

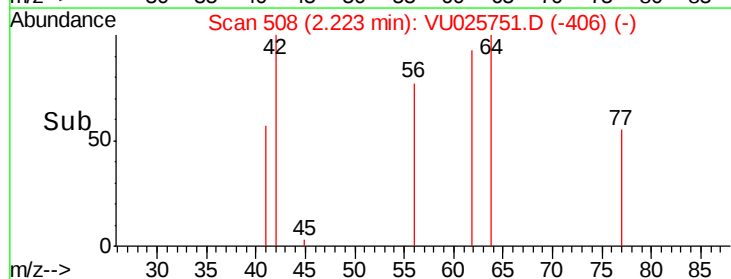
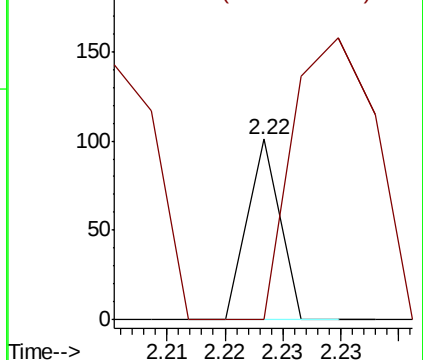
56 100

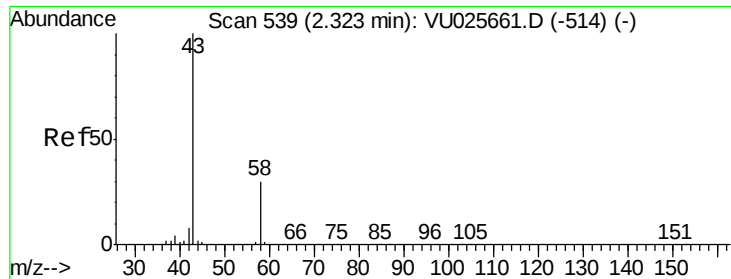
55 526.3 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VU025661.D (-487) (-)

Ion 55.00 (54.70 to 55.70): VU025661.D (-487) (-)





#16

Acetone

Concen: 2.09 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU025751.D

Acq: 31 Jul 2018 20:04

Instrument :

MSVOA\_U

ClientSampleId :

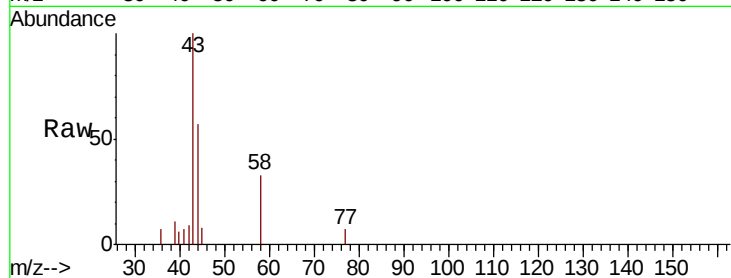
STORAGEBLANK-WATERREF-4

Tot Ion: 43 Resp: 3031

Ion Ratio Lower Upper

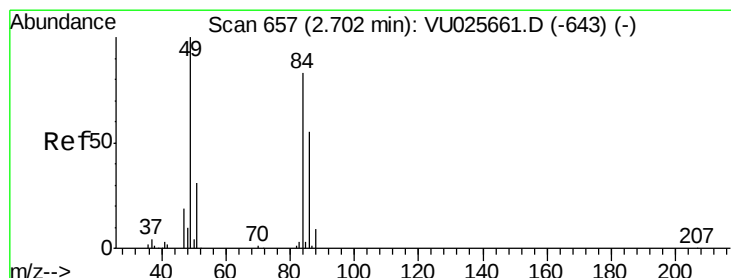
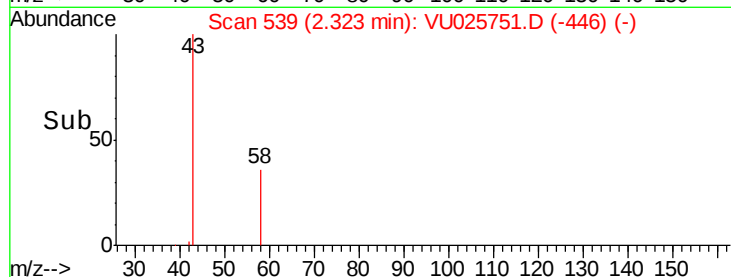
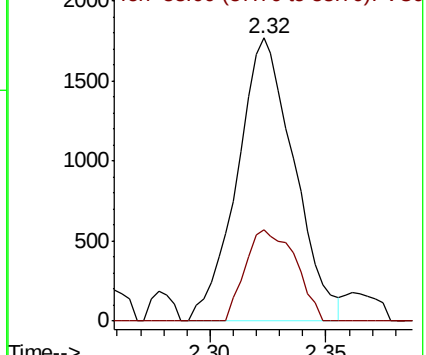
43 100

58 32.5 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU025751.D (-446) (-)

Ion 58.00 (57.70 to 58.70): VU025751.D (-446) (-)



#20

Methylene Chloride

Concen: 0.38 ug/l

RT: 2.71 min Scan# 658

Delta R.T. 0.00 min

Lab File: VU025751.D

Acq: 31 Jul 2018 20:04

Tgt Ion: 84 Resp: 976

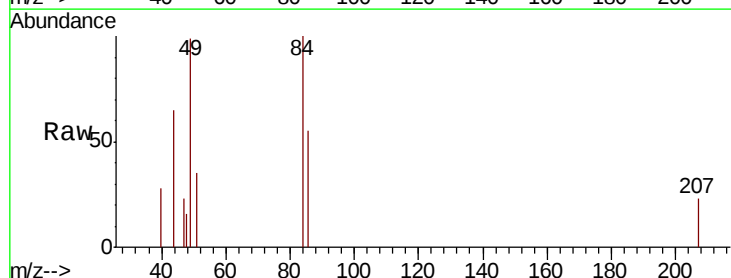
Ion Ratio Lower Upper

84 100

49 98.8 101.8 152.6#

51 34.9 30.8 46.2

86 55.5 51.9 77.9

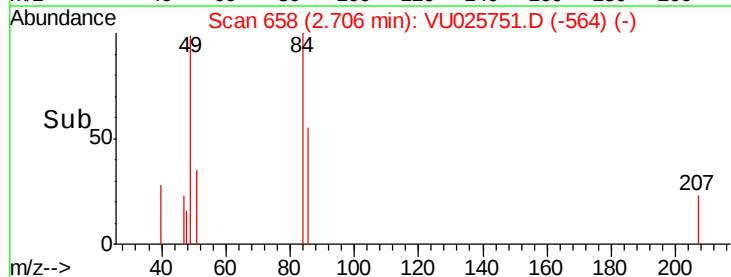
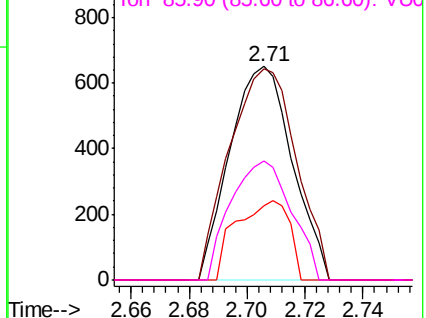


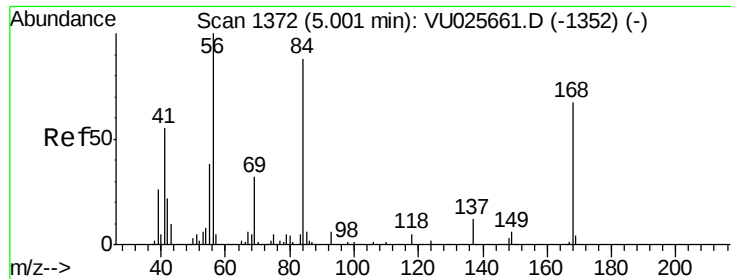
Abundance Ion 83.90 (83.60 to 84.60): VU025751.D (-564) (-)

Ion 48.90 (48.60 to 49.60): VU025751.D (-564) (-)

Ion 50.90 (50.60 to 51.60): VU025751.D (-564) (-)

Ion 85.90 (85.60 to 86.60): VU025751.D (-564) (-)

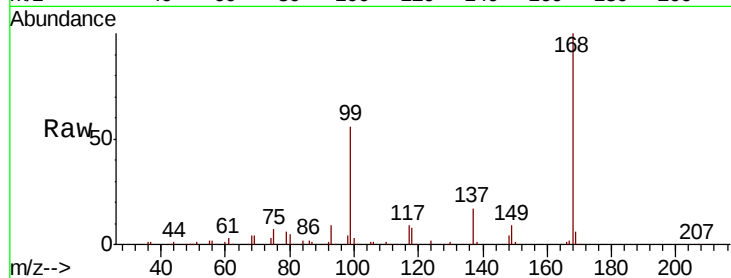




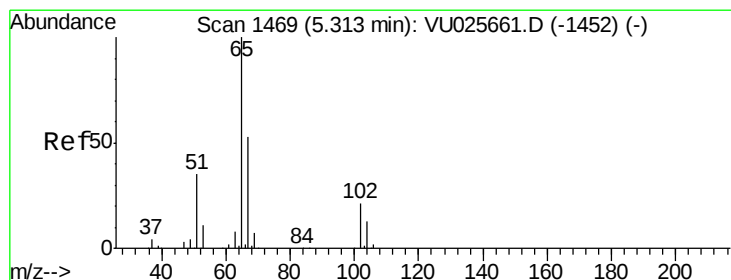
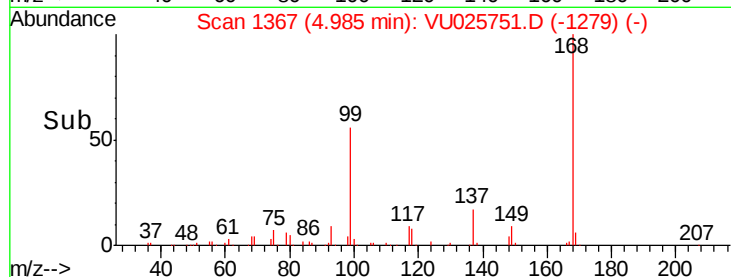
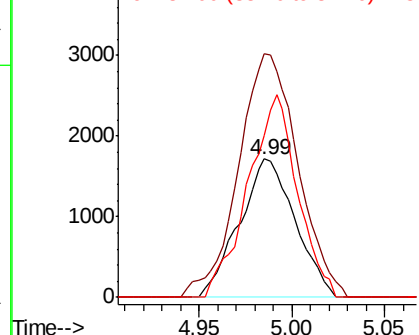
#31  
Cyclohexane  
Concen: Below Cal  
RT: 4.99 min Scan# 1367  
Delta R.T. -0.02 min  
Lab File: VU025751.D  
Acq: 31 Jul 2018 20:04

Instrument :  
MSVOA\_U  
ClientSampleId :  
STORAGEBLANK-WATERREF-4

Tot Ion: 56 Resp: 3600  
Ion Ratio Lower Upper  
56 100  
69 169.7 26.8 40.2#  
84 117.0 69.7 104.5#

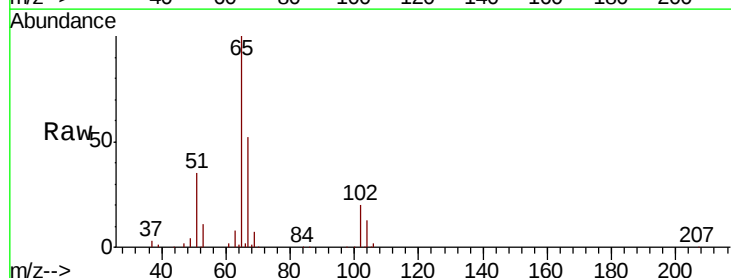


Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0

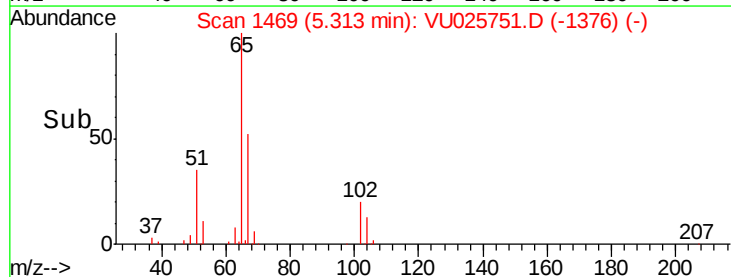
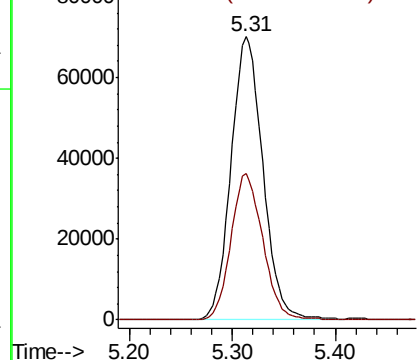


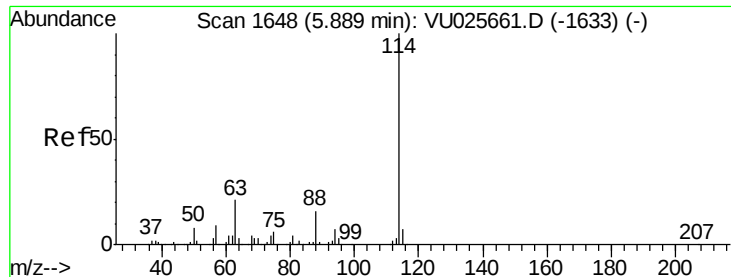
#33  
1,2-Dichloroethane-d4  
Concen: 50.65 ug/l  
RT: 5.31 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VU025751.D  
Acq: 31 Jul 2018 20:04

Tgt Ion: 65 Resp: 151022  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU0  
Ion 66.90 (66.60 to 67.60): VU0

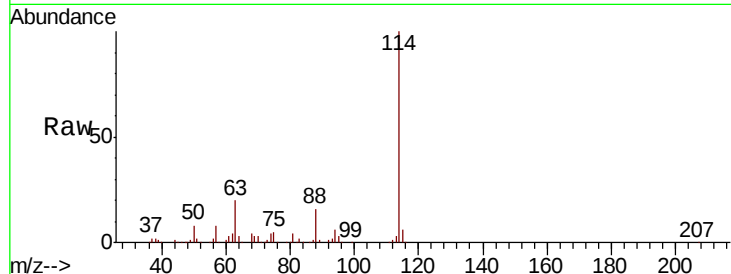




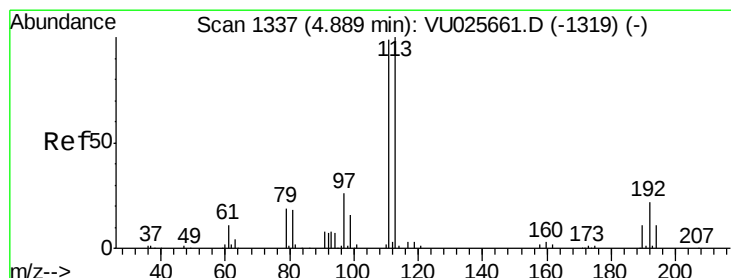
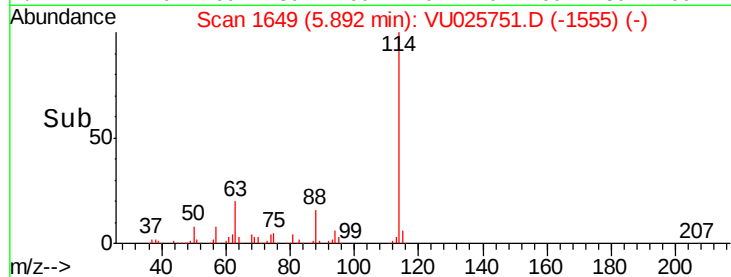
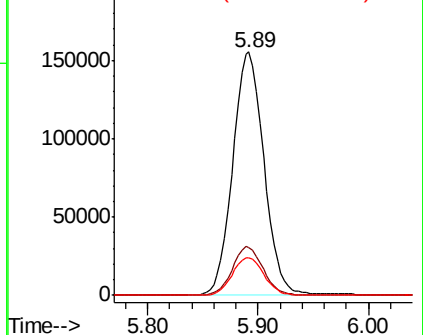
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.89 min Scan# 1649  
 Delta R.T. 0.00 min  
 Lab File: VU025751.D  
 Acq: 31 Jul 2018 20:04

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 STORAGEBLANK-WATERREF-4

Tot Ion:114 Resp: 305348  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 0.0 41.6  
 88 15.7 0.0 32.4

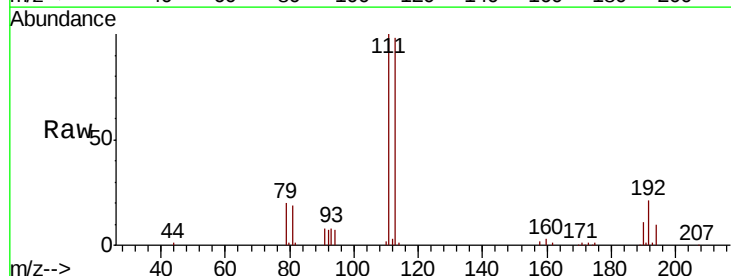


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

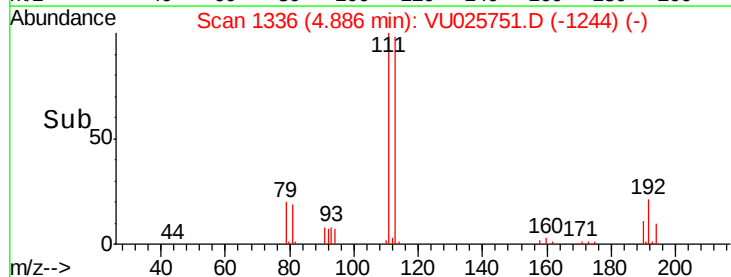
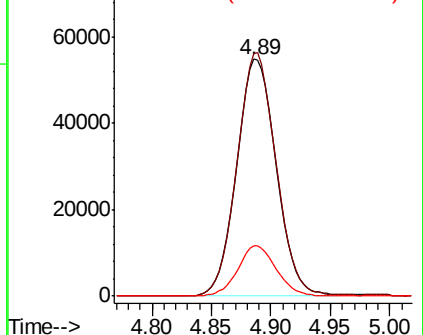


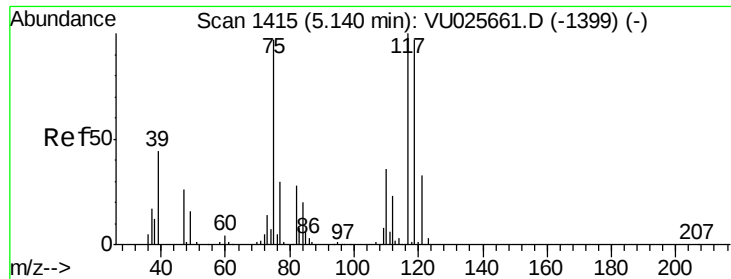
#35  
 Dibromofluoromethane  
 Concen: 47.62 ug/l  
 RT: 4.89 min Scan# 1336  
 Delta R.T. -0.00 min  
 Lab File: VU025751.D  
 Acq: 31 Jul 2018 20:04

Tgt Ion:113 Resp: 126461  
 Ion Ratio Lower Upper  
 113 100  
 111 101.2 81.7 122.5  
 192 20.8 17.1 25.7



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: 3.84 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025751.D

Acq: 31 Jul 2018 20:04

Instrument :

MSVOA\_U

ClientSampleId :

STORAGEBLANK-WATERREF-4

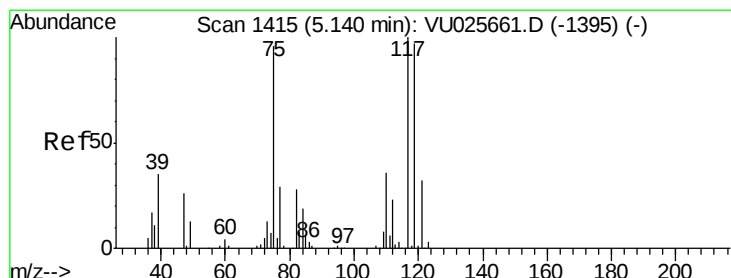
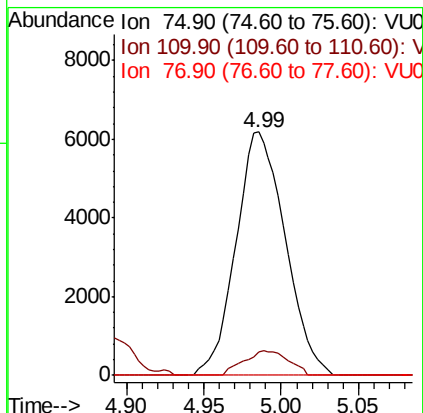
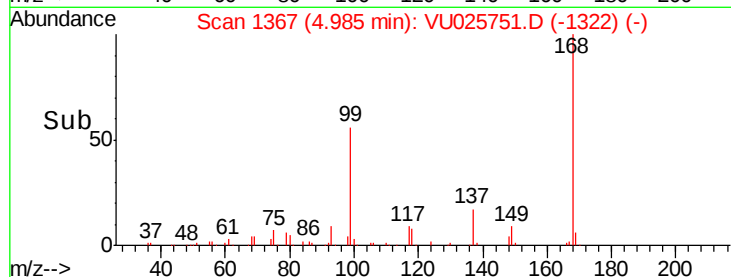
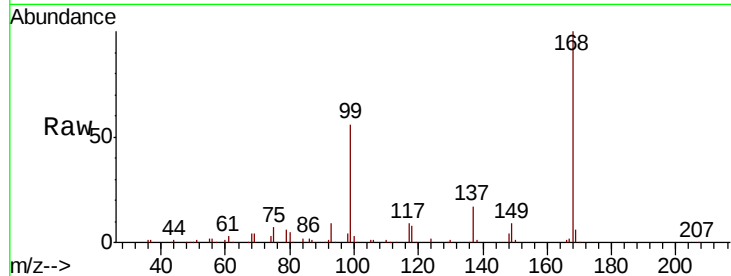
Tot Ion: 75 Resp: 13701

Ion Ratio Lower Upper

75 100

110 9.0 17.6 52.9#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.53 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025751.D

Acq: 31 Jul 2018 20:04

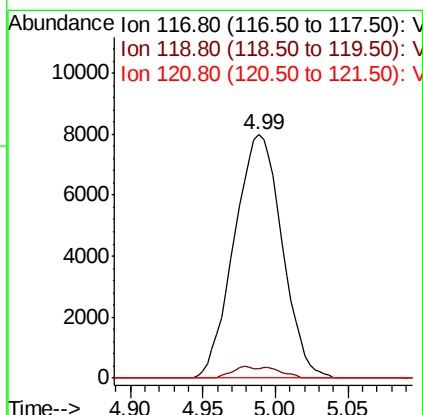
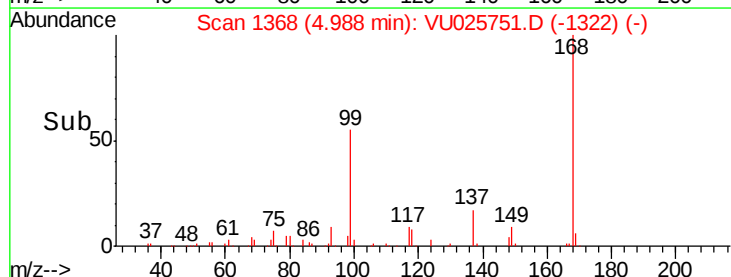
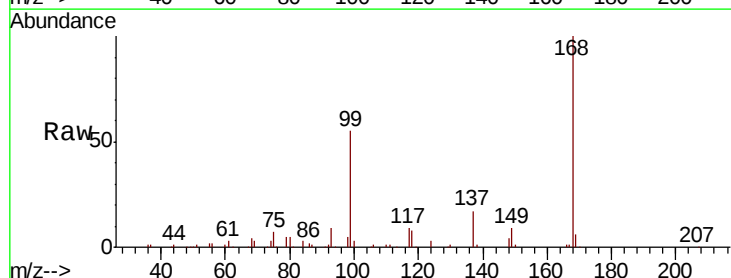
Tgt Ion: 117 Resp: 18319

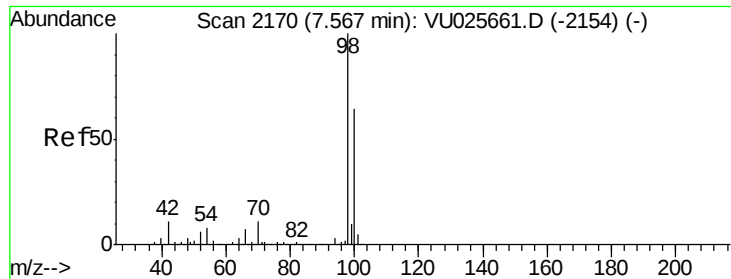
Ion Ratio Lower Upper

117 100

119 4.0 75.7 113.5#

121 0.0 24.6 36.8#





#50

Toluene-d8

Concen: 47.98 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025751.D

Acq: 31 Jul 2018 20:04

Instrument :

MSVOA\_U

ClientSampleId :

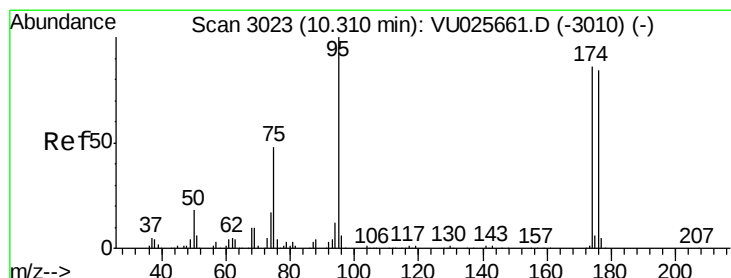
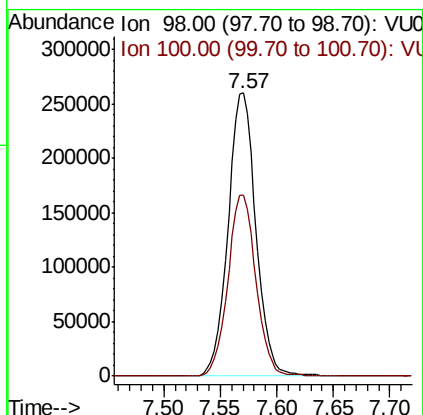
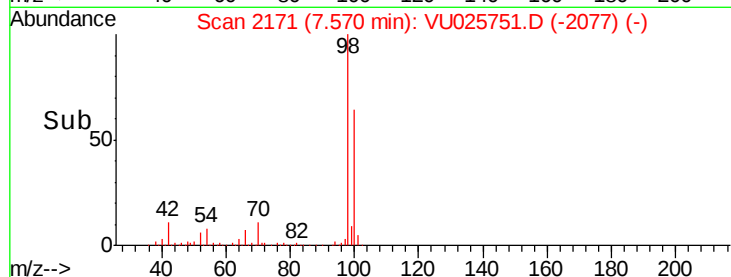
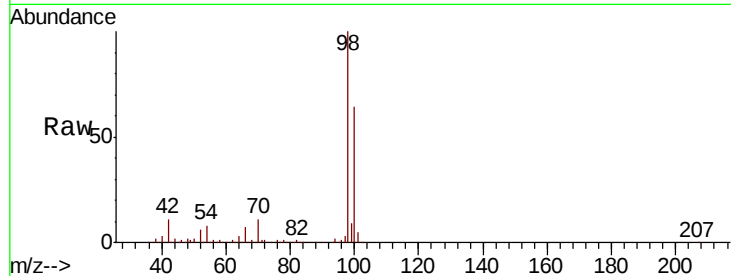
STORAGEBLANK-WATERREF-4

Tot Ion: 98 Resp: 445876

Ion Ratio Lower Upper

98 100

100 64.3 51.1 76.7



#62

4-Bromofluorobenzene

Concen: 48.41 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025751.D

Acq: 31 Jul 2018 20:04

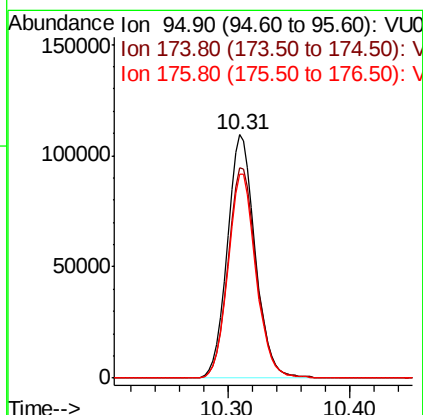
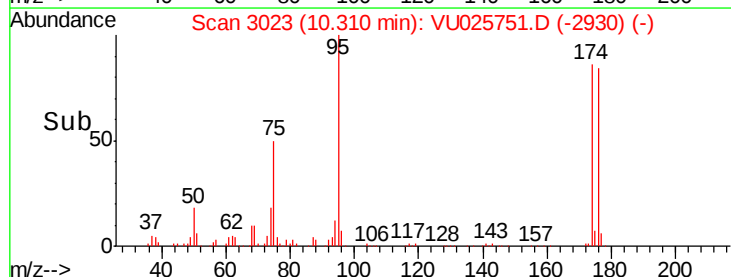
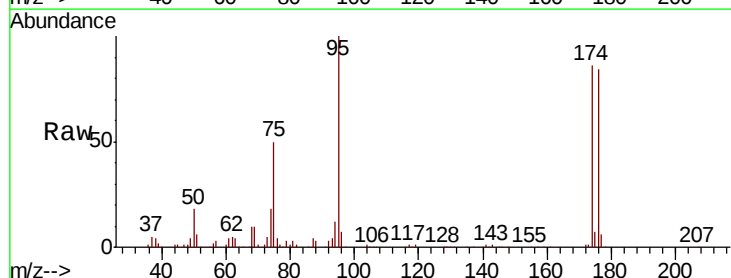
Tgt Ion: 95 Resp: 174609

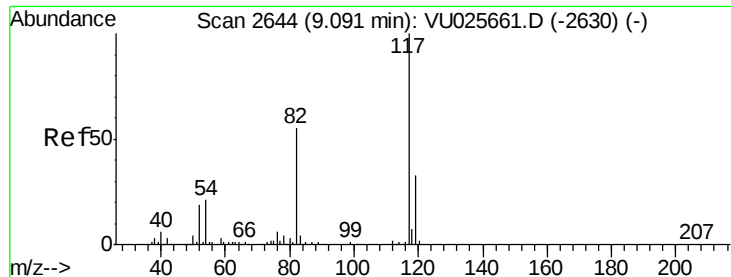
Ion Ratio Lower Upper

95 100

174 87.9 0.0 172.2

176 84.1 0.0 162.6

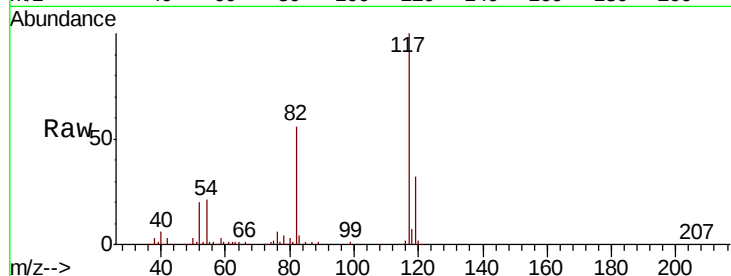




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.09 min Scan# 2645  
Delta R.T. 0.00 min  
Lab File: VU025751.D  
Acq: 31 Jul 2018 20:04

Instrument :  
MSVOA\_U  
ClientSampleId :  
STORAGEBLANK-WATERREF-4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.6  | 46.0  | 69.0  |
| 119     | 32.4  | 26.0  | 39.0  |

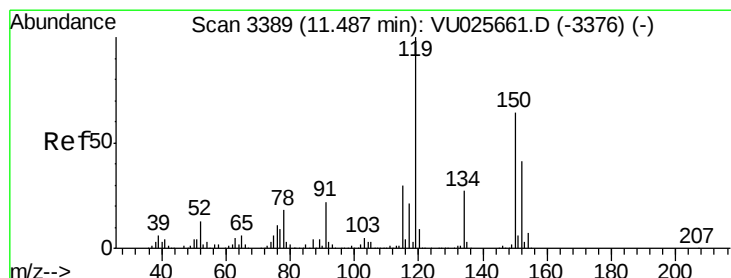
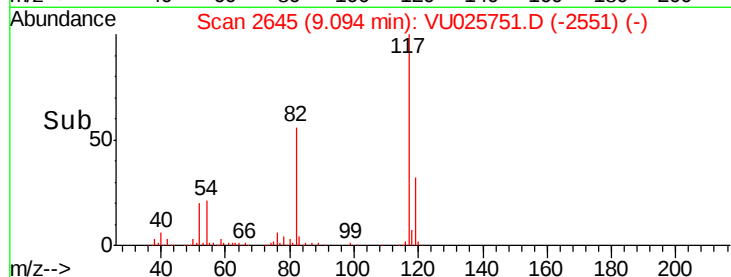
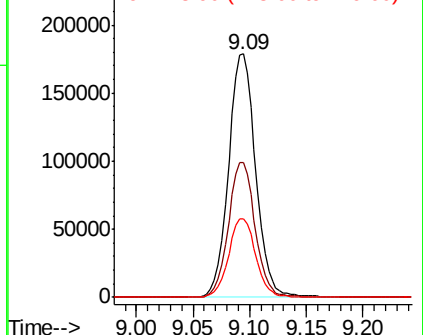


Abundance

Ion 116.90 (116.60 to 117.60): V

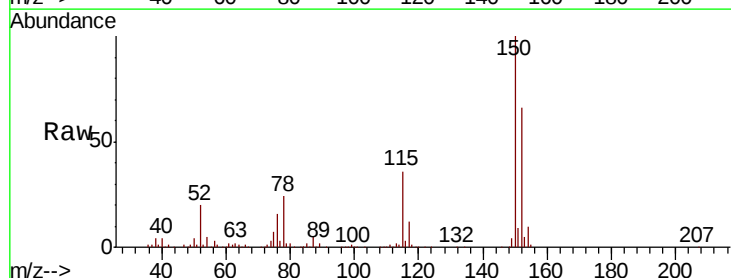
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 11.49 min Scan# 3389  
Delta R.T. -0.00 min  
Lab File: VU025751.D  
Acq: 31 Jul 2018 20:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.0  | 40.1  | 120.3 |
| 150     | 155.4 | 0.0   | 351.4 |

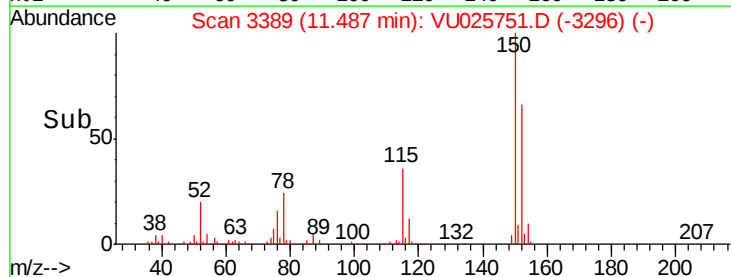
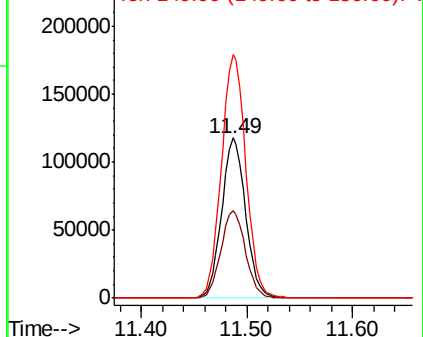


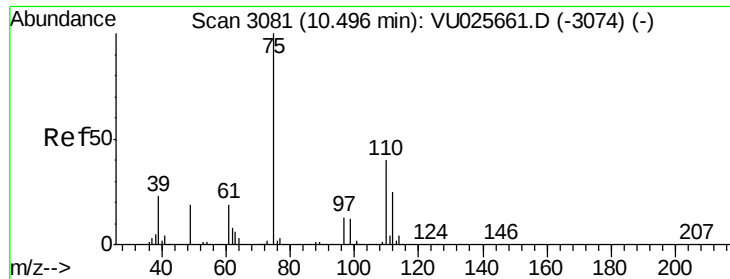
Abundance

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: 21.62 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025751.D

Acq: 31 Jul 2018 20:04

Instrument :

MSVOA\_U

ClientSampleId :

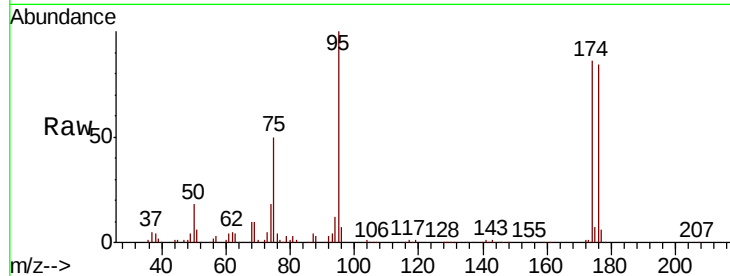
STORAGEBLANK-WATERREF-4

Tot Ion: 75 Resp: 87972

Ion Ratio Lower Upper

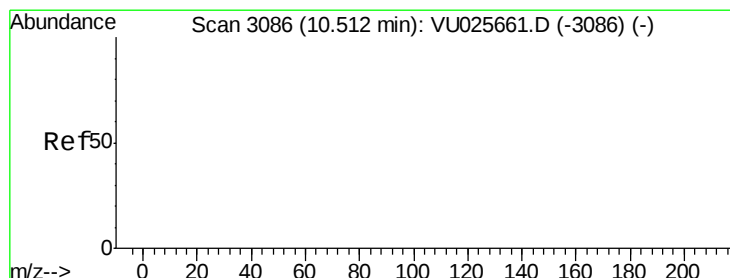
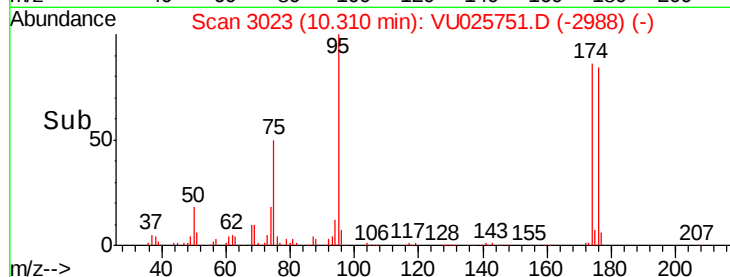
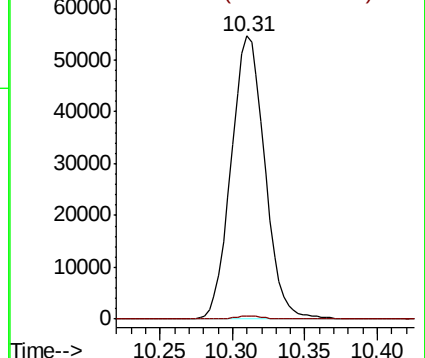
75 100

77 1.0 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 54.21 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025751.D

Acq: 31 Jul 2018 20:04

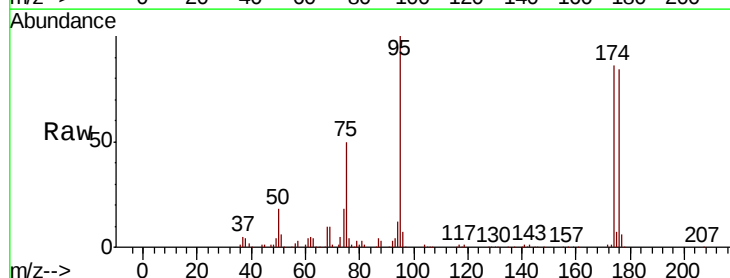
Tgt Ion: 75 Resp: 87972

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

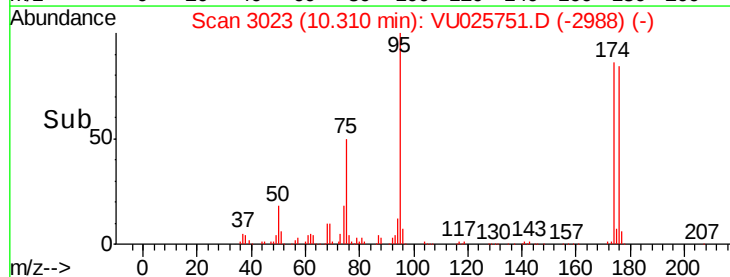
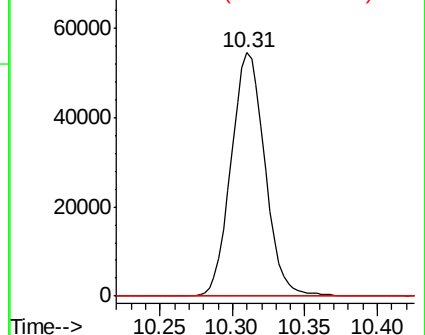
89 0.0 0.0 0.0

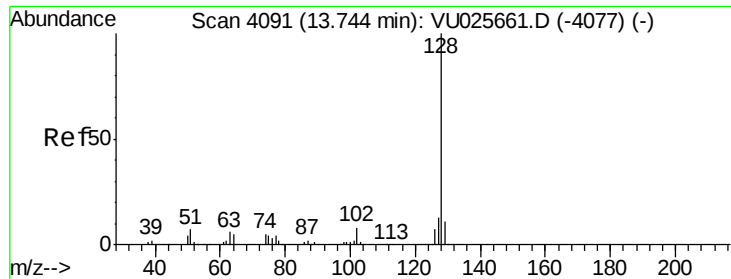


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#95

Naphthalene

Concen: 1.40 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU025751.D

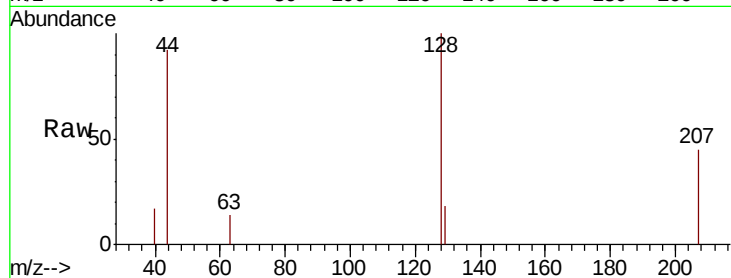
Acq: 31 Jul 2018 20:04

Instrument :

MSVOA\_U

ClientSampleId :

STORAGEBLANK-WATERREF-4



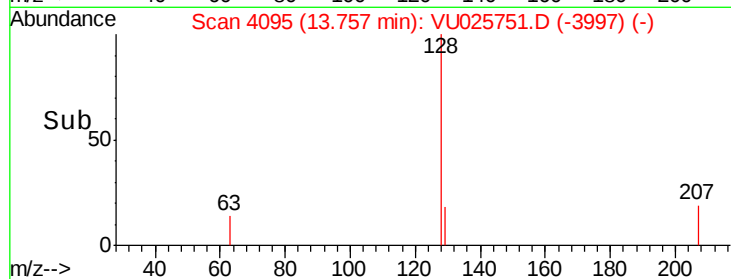
Tot Ion:128 Resp: 2075

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 3.4 8.3 12.5#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

