

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092818\  
 Data File : VU027237.D  
 Acq On : 27 Sep 2018 20:36  
 Operator : MD/SY  
 Sample : J5033-11  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BPSI-TT-MW312I-20180918

Quant Time: Sep 28 03:41:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 22 01:31:57 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 91020    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 156496   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 151696   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 71013    | 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   | 97796    | 53.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.76% |          |
| 35) Dibromofluoromethane    | 4.88  | 113  | 68059    | 50.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.34% |          |
| 50) Toluene-d8              | 7.57  | 98   | 251214   | 48.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.18%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 81257    | 45.81 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.62%  |          |

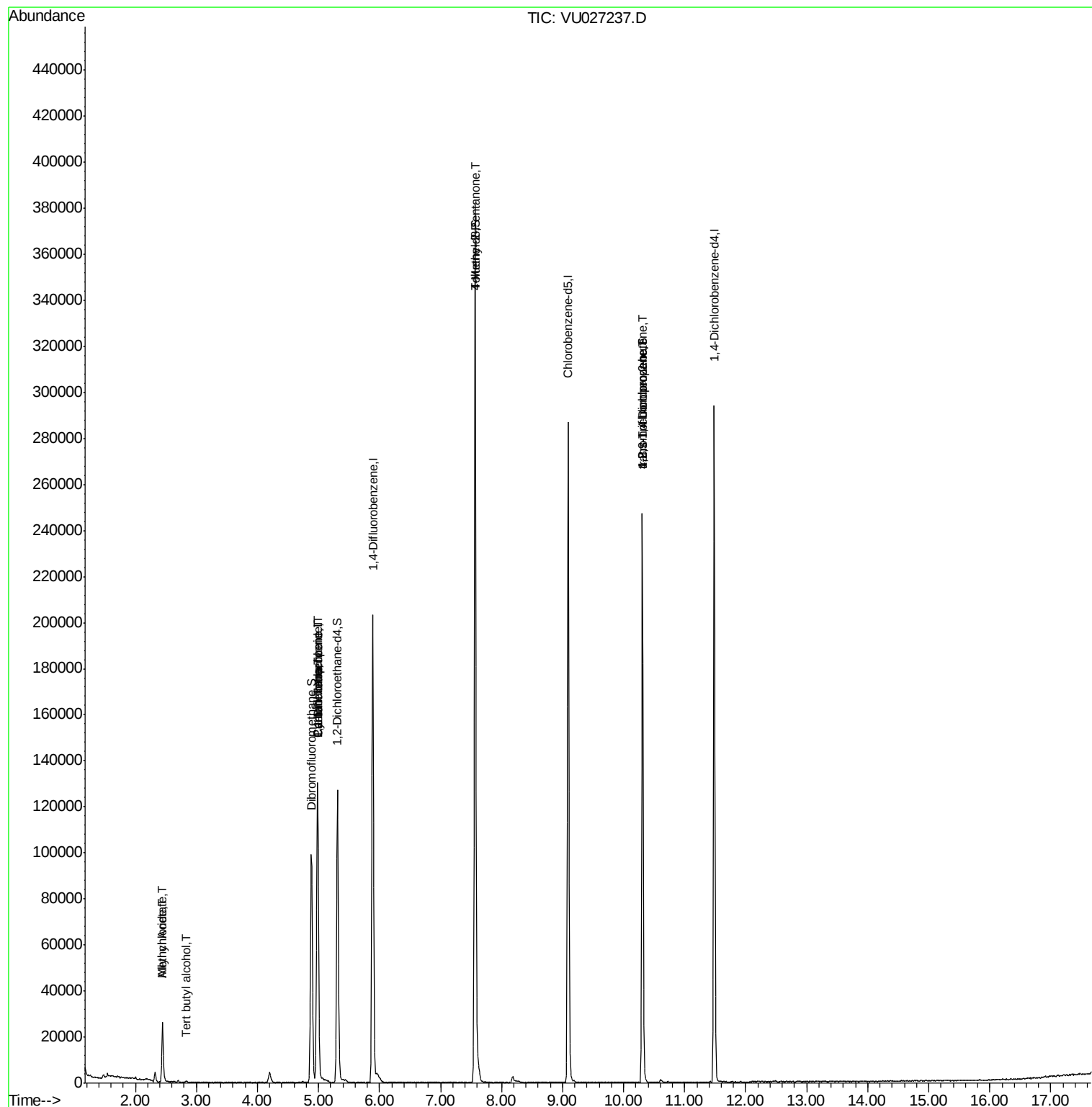
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 2.84  | 59   | 307      | 0.731     | ug/l # | 72     |
| 14) Allyl chloride             | 2.45  | 41   | 2712     | 1.064     | ug/l # | 71     |
| 16) Acetone                    | 2.32  | 43   | 4417     | Below Cal |        | 95     |
| 18) Methyl Acetate             | 2.45  | 43   | 6835     | 2.621     | ug/l # | 55     |
| 31) Cyclohexane                | 4.98  | 56   | 2403     | 0.309     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 8813     | 4.220     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 9647     | 4.854     | ug/l # | 18     |
| 51) 4-Methyl-2-Pentanone       | 7.57  | 43   | 1311     | 0.473     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 44163    | 20.471    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 44163    | 65.510    | ug/l # | 100    |

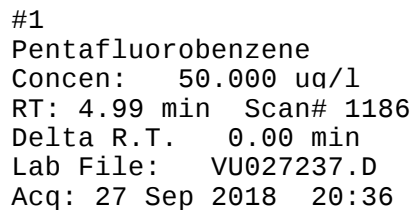
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092818\  
Data File : VU027237.D  
Acq On : 27 Sep 2018 20:36  
Operator : MD/SY  
Sample : J5033-11  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-TT-MW312I-20180918

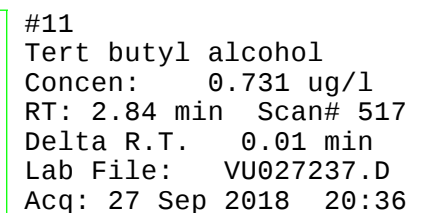
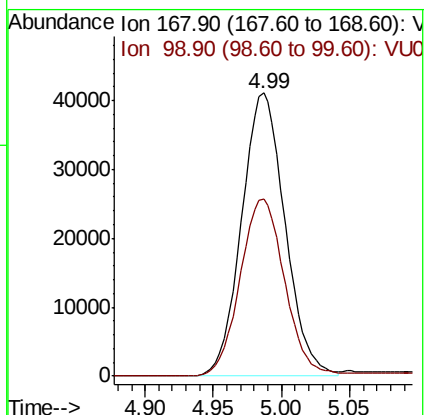
Quant Time: Sep 28 03:41:20 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 22 01:31:57 2018  
Response via : Initial Calibration



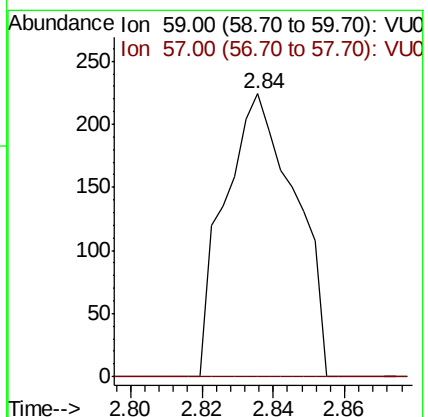


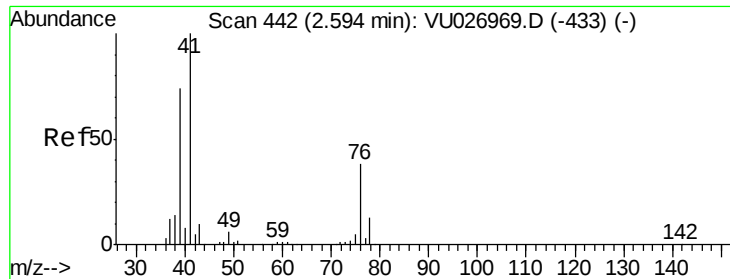
**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
BPSI-TT-MW312I-20180918

|     |         |       |       |
|-----|---------|-------|-------|
| Tot | Ion:168 | Resp: | 91020 |
| Ion | Ratio   | Lower | Upper |
| 168 | 100     |       |       |
| 99  | 62.6    | 48.1  | 72.1  |



|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion: 59 | Resp: | 307   |
| Ion | Ratio   | Lower | Upper |
| 59  | 100     |       |       |
| 57  | 0.0     | 8.5   | 12.7# |

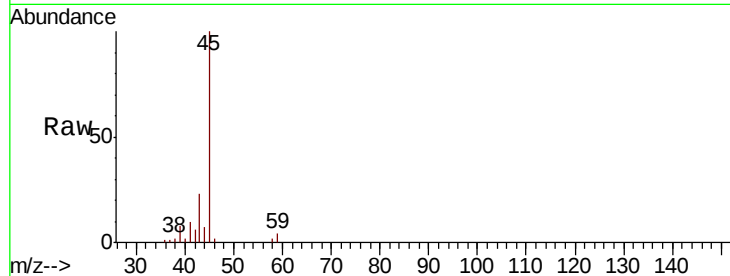




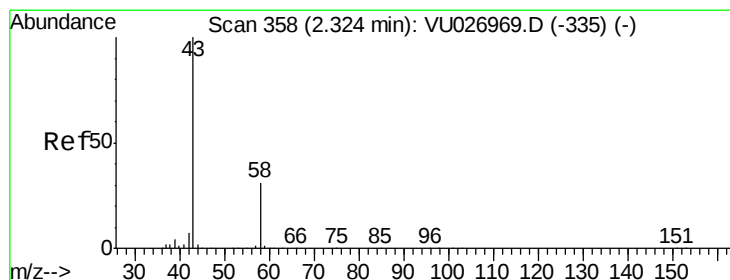
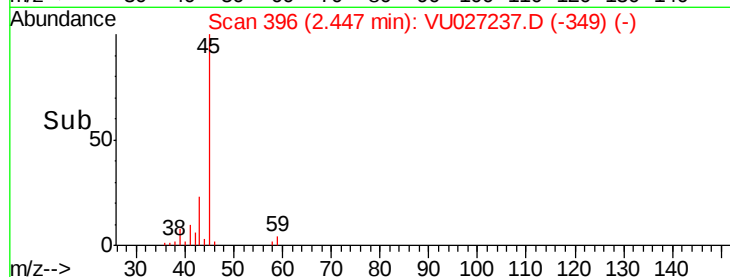
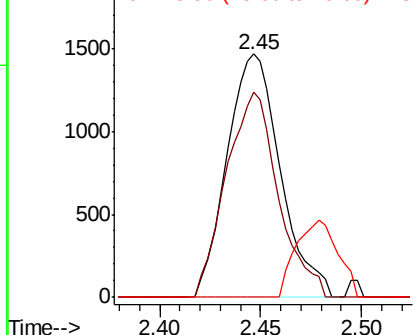
#14  
Allvl chloride  
Concen: 1.064 ug/l  
RT: 2.45 min Scan# 396  
Delta R.T. -0.15 min  
Lab File: VU027237.D  
Acq: 27 Sep 2018 20:36

Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-TT-MW312I-20180918

Tot Ion: 41 Resp: 2712  
Ion Ratio Lower Upper  
41 100  
39 82.3 55.7 83.5  
76 0.0 26.5 39.7#

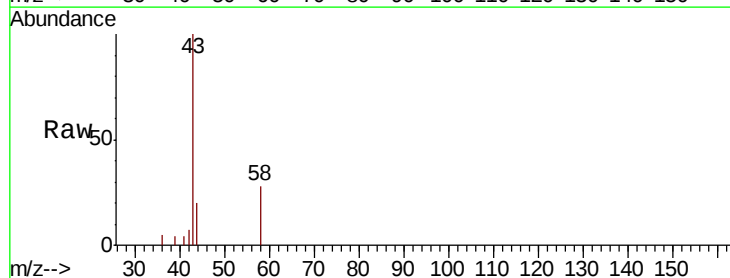


Abundance Ion 41.00 (40.70 to 41.70): VU0  
Ion 39.00 (38.70 to 39.70): VU0  
Ion 75.90 (75.60 to 76.60): VU0

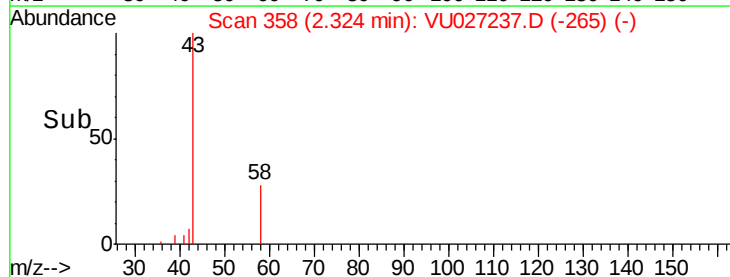
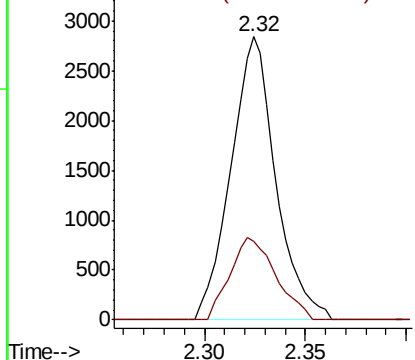


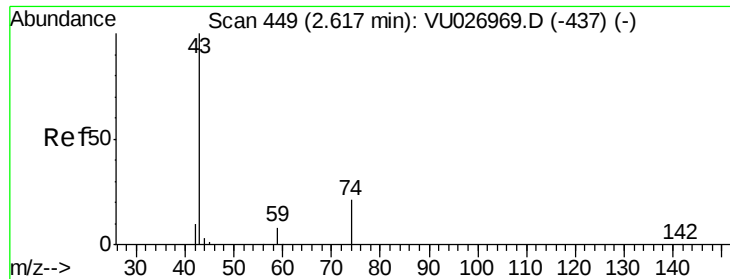
#16  
Acetone  
Concen: Below Cal  
RT: 2.32 min Scan# 358  
Delta R.T. 0.00 min  
Lab File: VU027237.D  
Acq: 27 Sep 2018 20:36

Tgt Ion: 43 Resp: 4417  
Ion Ratio Lower Upper  
43 100  
58 27.7 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU0  
Ion 58.00 (57.70 to 58.70): VU0

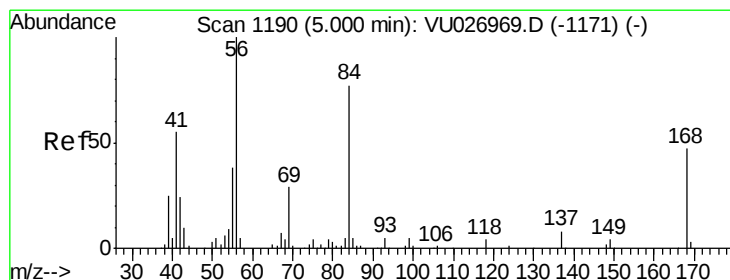
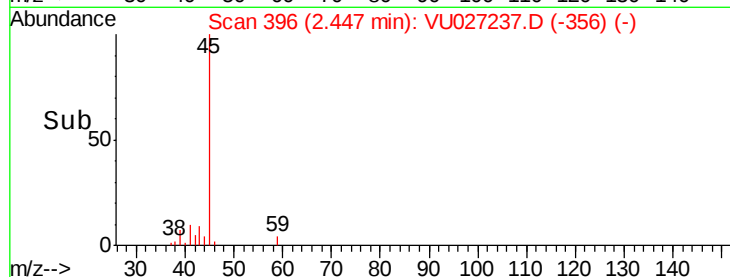
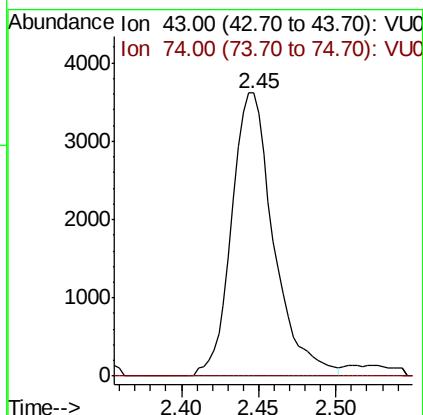
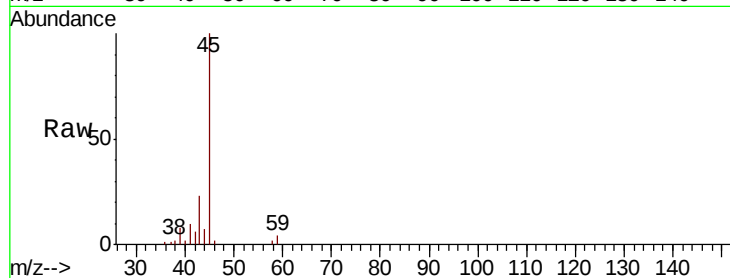




#18  
Methvl Acetate  
Concen: 2.621 ug/l  
RT: 2.45 min Scan# 396  
Delta R.T. -0.17 min  
Lab File: VU027237.D  
Acq: 27 Sep 2018 20:36

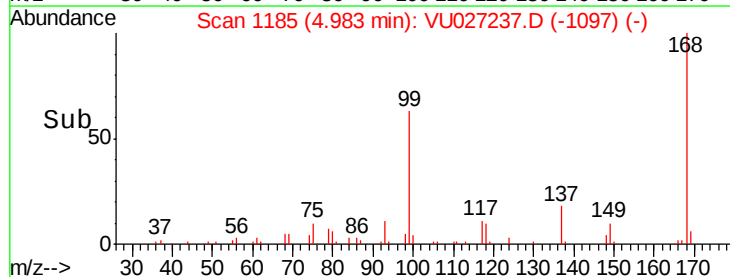
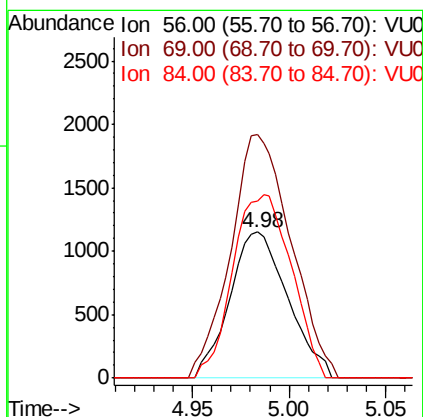
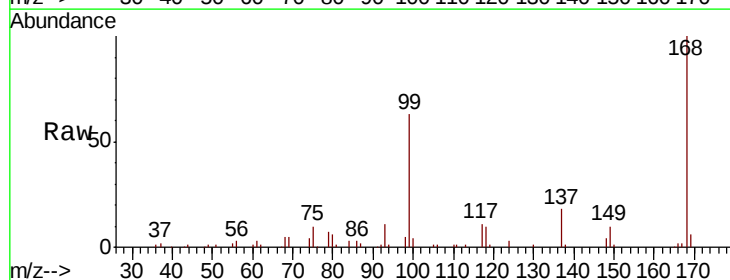
Instrument :  
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ClientSampleId :  
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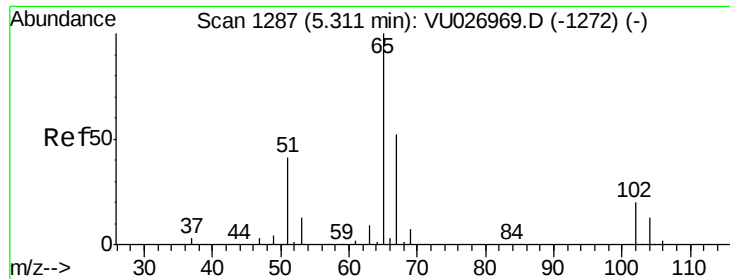
Tot Ion: 43 Resp: 6835  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 25.0#



#31  
Cyclohexane  
Concen: 0.309 ug/l  
RT: 4.98 min Scan# 1185  
Delta R.T. -0.02 min  
Lab File: VU027237.D  
Acq: 27 Sep 2018 20:36

Tgt Ion: 56 Resp: 2403  
Ion Ratio Lower Upper  
56 100  
69 166.4 23.0 34.4#  
84 120.8 61.4 92.2#

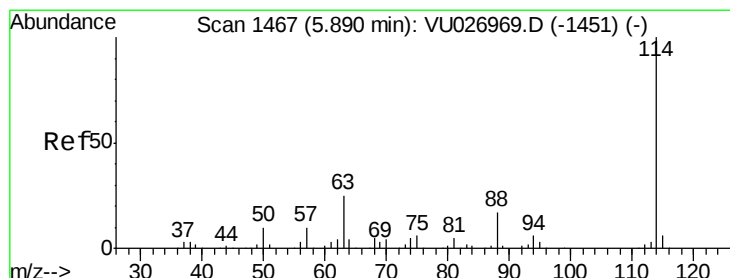
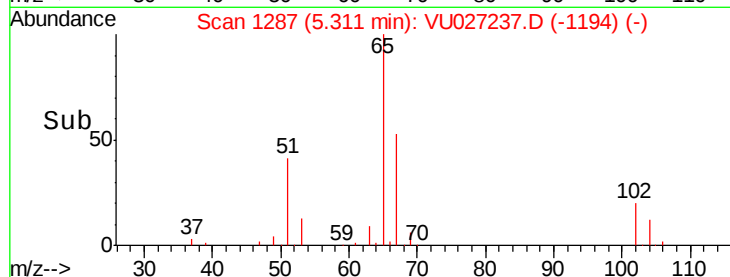
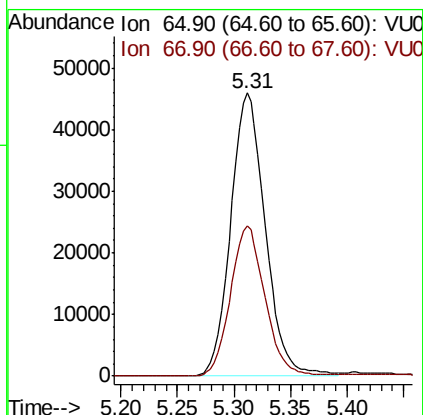
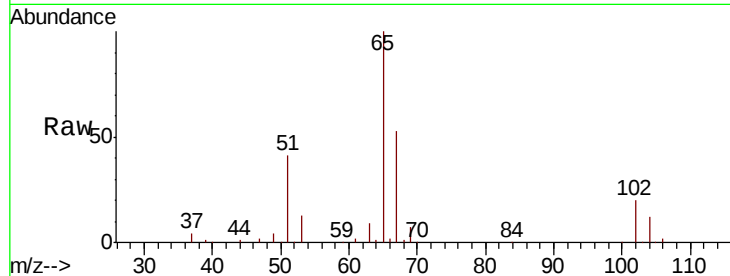




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.384 ug/l  
 RT: 5.31 min Scan# 1287  
 Delta R.T. 0.00 min  
 Lab File: VU027237.D  
 Acq: 27 Sep 2018 20:36

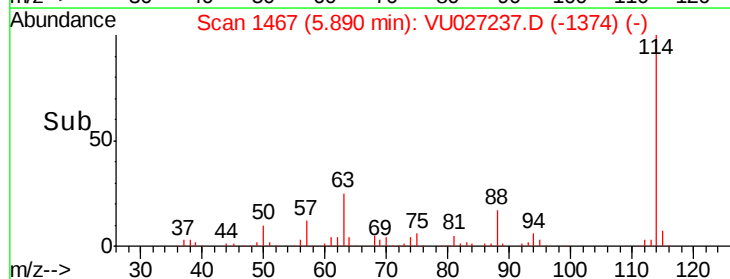
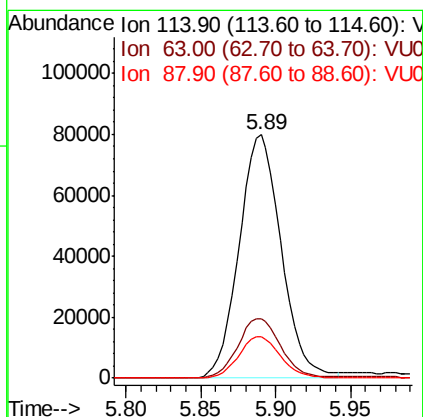
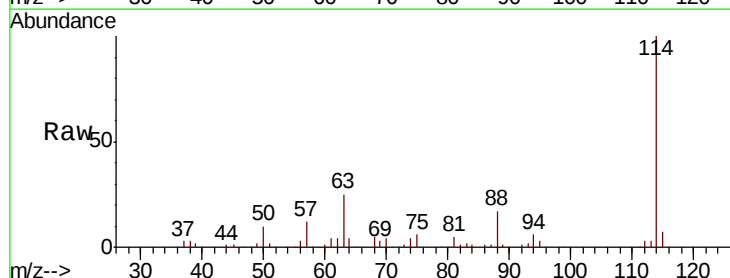
Instrument :  
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 ClientSampleId :  
 BPSI-TT-MW312I-20180918

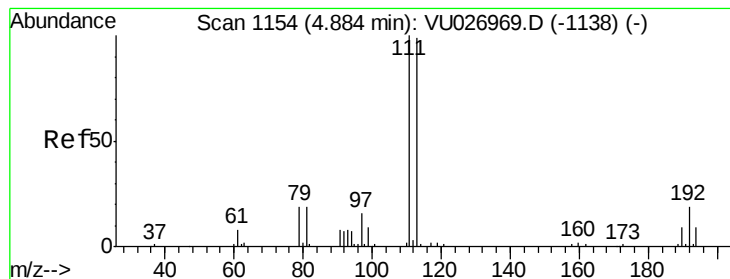
Tot Ion: 65 Resp: 97796  
 Ion Ratio Lower Upper  
 65 100  
 67 52.9 0.0 105.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027237.D  
 Acq: 27 Sep 2018 20:36

Tgt Ion: 114 Resp: 156496  
 Ion Ratio Lower Upper  
 114 100  
 63 24.6 0.0 49.2  
 88 16.9 0.0 33.8





#35

Dibromofluoromethane

Concen: 50.172 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU027237.D

Acq: 27 Sep 2018 20:36

Instrument :

MSVOA\_U

ClientSampleId :

BPSI-TT-MW312I-20180918

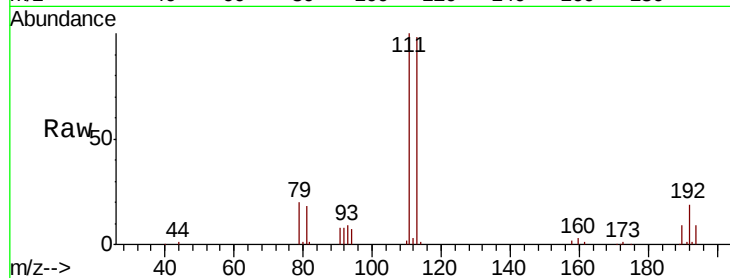
Tot Ion:113 Resp: 68059

Ion Ratio Lower Upper

113 100

111 103.5 82.2 123.4

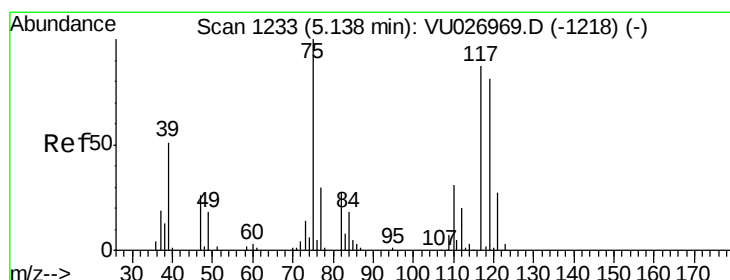
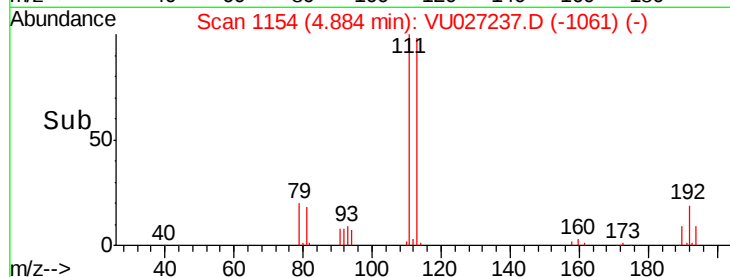
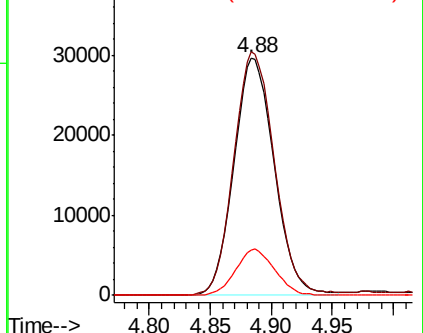
192 18.7 15.2 22.8



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: 4.220 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027237.D

Acq: 27 Sep 2018 20:36

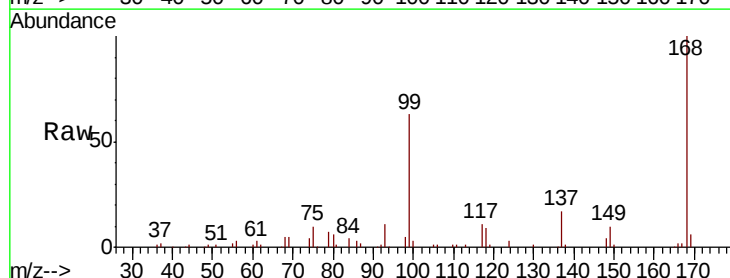
Tgt Ion: 75 Resp: 8813

Ion Ratio Lower Upper

75 100

110 6.5 16.1 48.2#

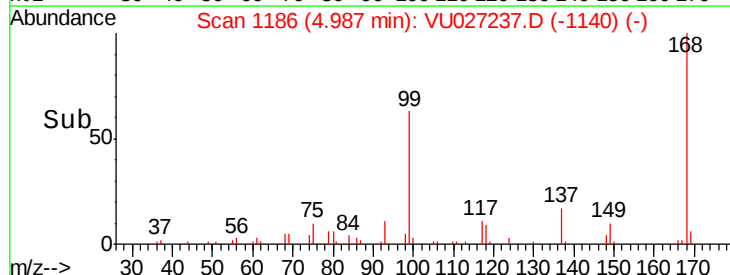
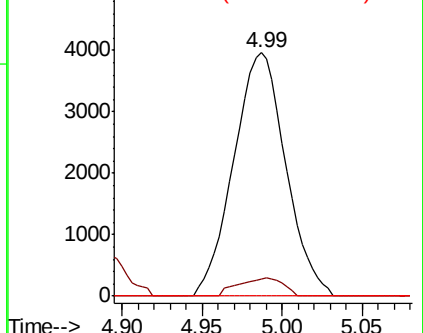
77 0.0 24.6 36.8#

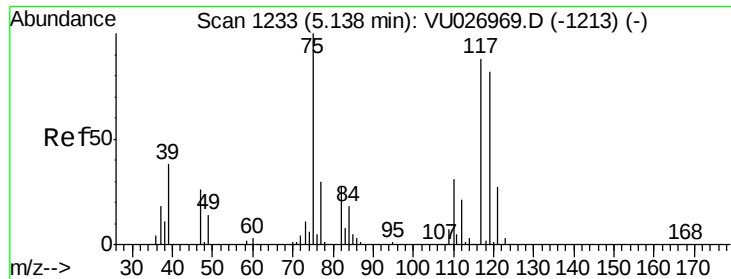


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

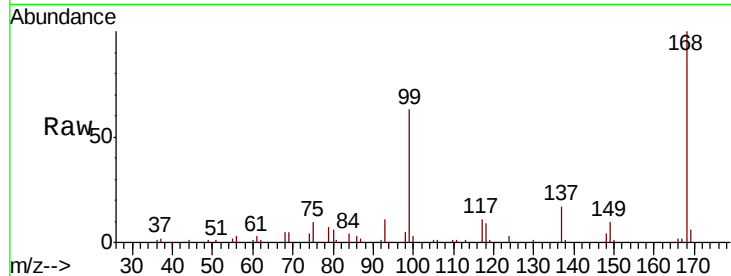




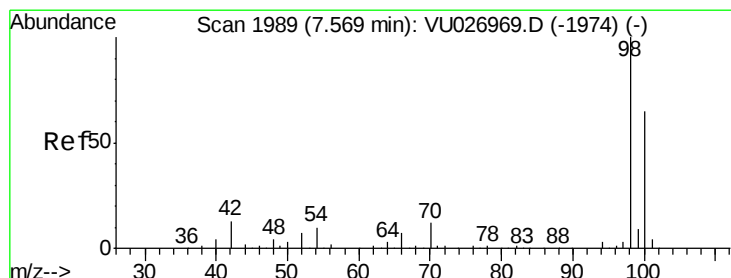
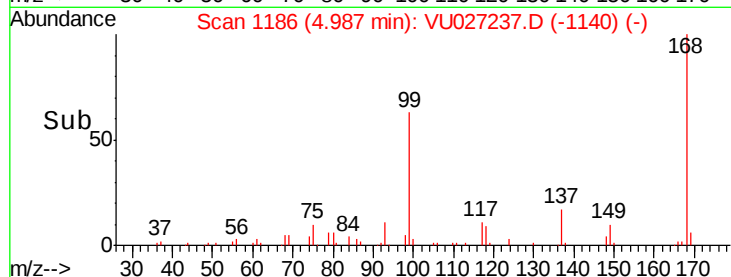
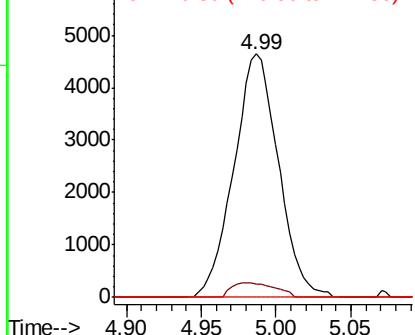
#38  
Carbon Tetrachloride  
Concen: 4.854 ug/l  
RT: 4.99 min Scan# 1186  
Delta R.T. -0.15 min  
Lab File: VU027237.D  
Acq: 27 Sep 2018 20:36

Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-TT-MW312I-20180918

Tot Ion:117 Resp: 9647  
Ion Ratio Lower Upper  
117 100  
119 5.6 74.4 111.6#  
121 0.0 24.2 36.4#

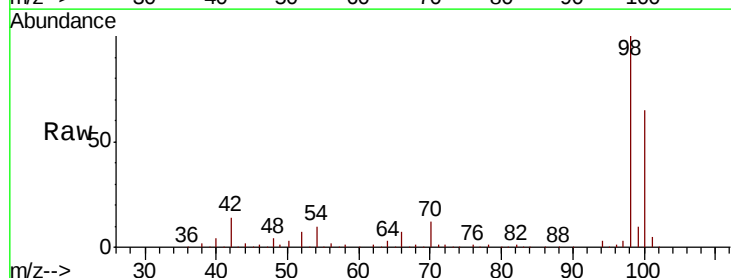


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

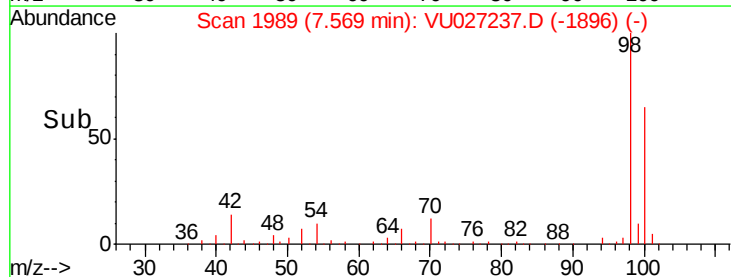
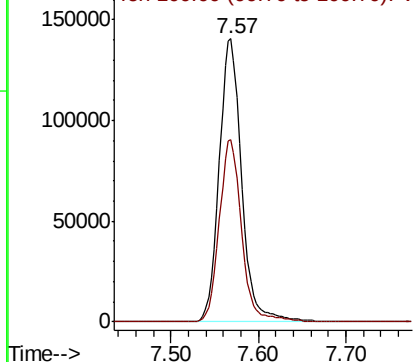


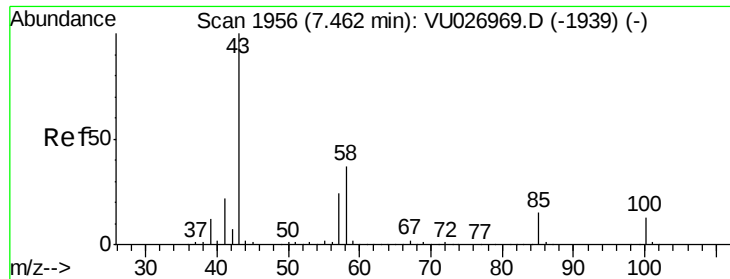
#50  
Toluene-d8  
Concen: 48.593 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU027237.D  
Acq: 27 Sep 2018 20:36

Tgt Ion: 98 Resp: 251214  
Ion Ratio Lower Upper  
98 100  
100 64.0 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU0  
Ion 100.00 (99.70 to 100.70): VU

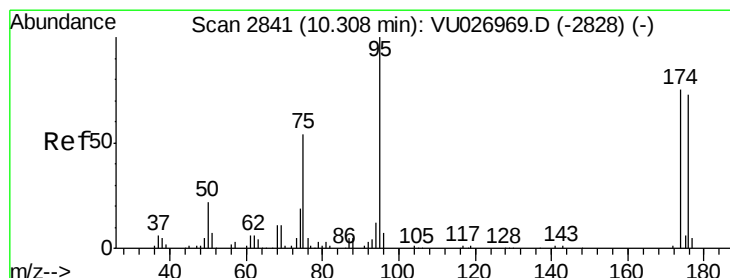
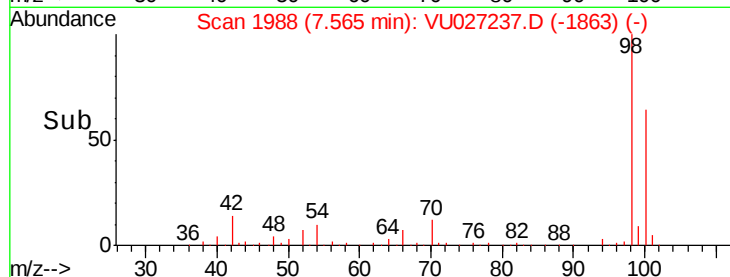
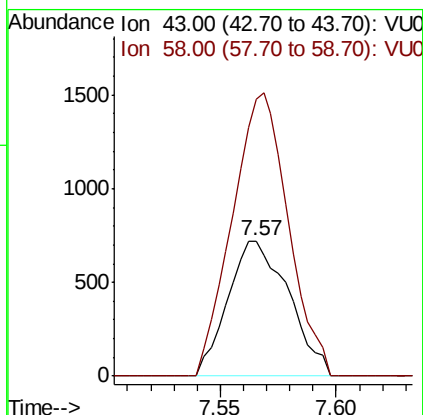
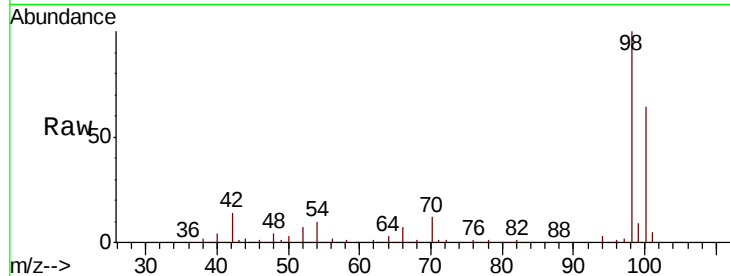




#51  
4-Methyl-2-Pentanone  
Concen: 0.473 ug/l  
RT: 7.57 min Scan# 1988  
Delta R.T. 0.10 min  
Lab File: VU027237.D  
Acq: 27 Sep 2018 20:36

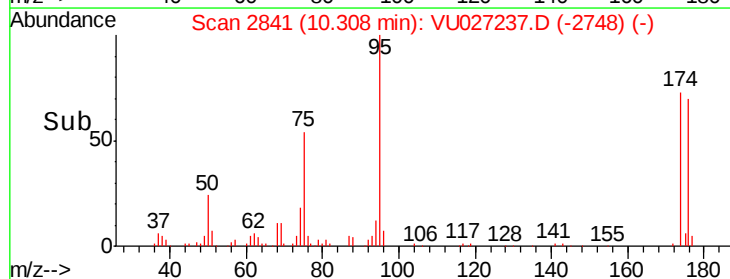
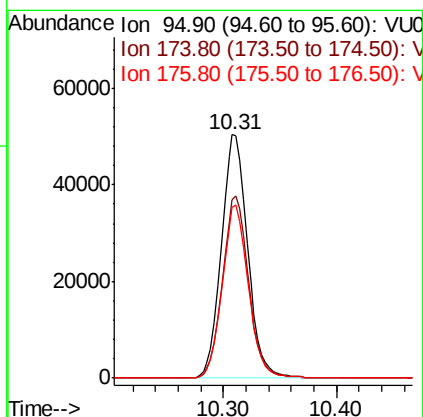
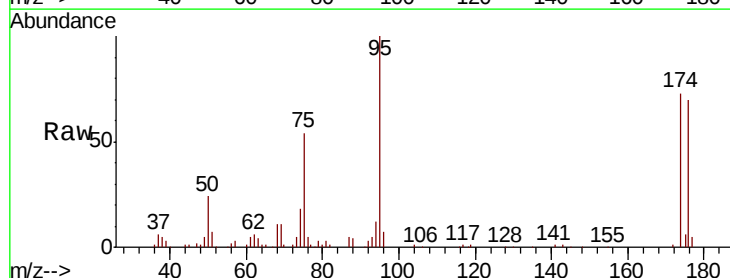
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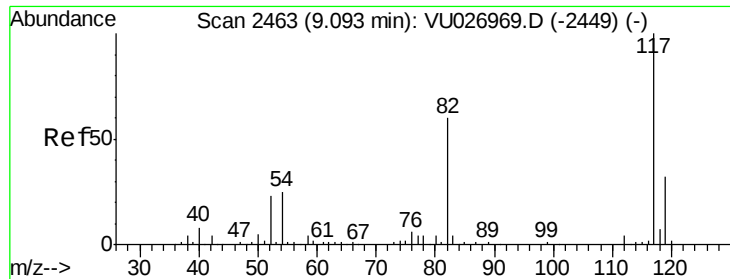
Tot Ion: 43 Resp: 1311  
Ion Ratio Lower Upper  
43 100  
58 193.4 29.8 44.6#



#62  
4-Bromofluorobenzene  
Concen: 45.807 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. 0.00 min  
Lab File: VU027237.D  
Acq: 27 Sep 2018 20:36

Tgt Ion: 95 Resp: 81257  
Ion Ratio Lower Upper  
95 100  
174 74.5 0.0 150.2  
176 70.8 0.0 145.2

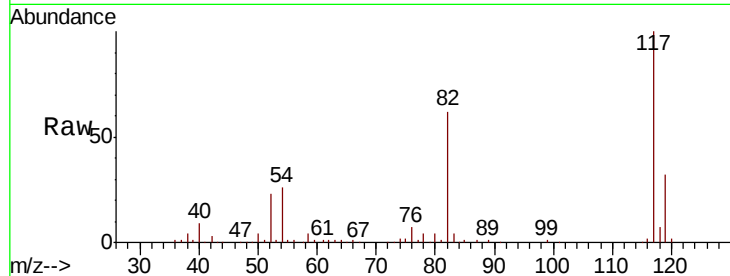




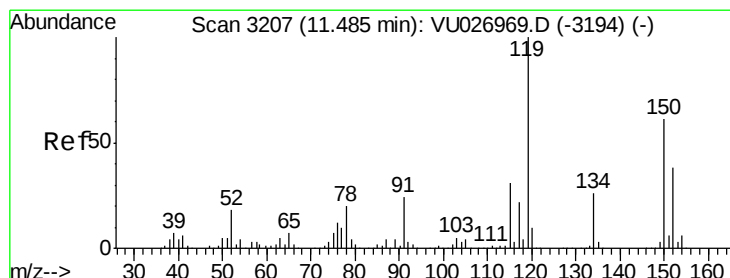
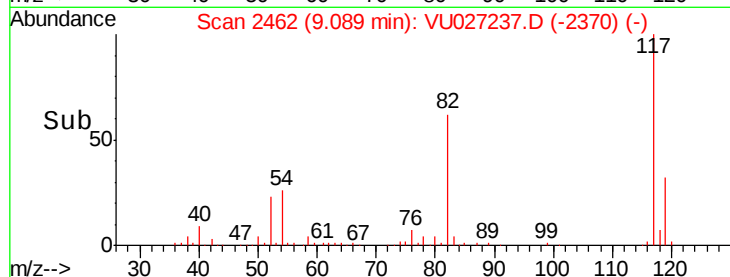
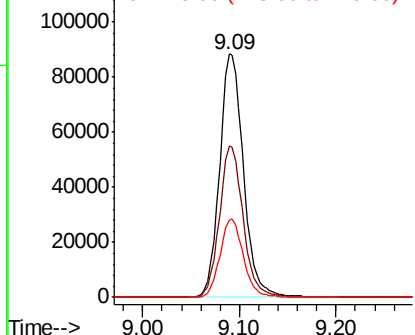
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2462  
Delta R.T. -0.00 min  
Lab File: VU027237.D  
Acq: 27 Sep 2018 20:36

Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-TT-MW312I-20180918

Tot Ion:117 Resp: 151696  
Ion Ratio Lower Upper  
117 100  
82 62.0 48.0 72.0  
119 31.7 25.8 38.8

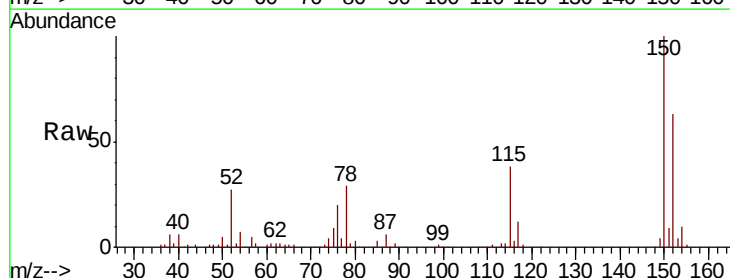


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V

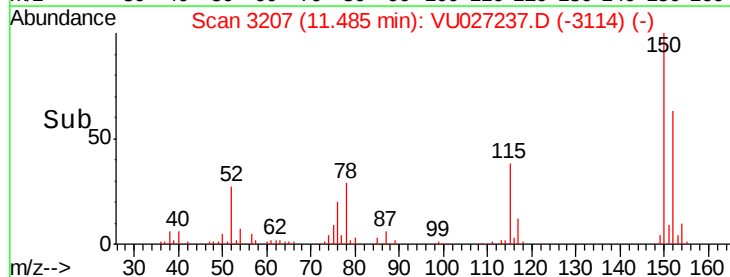
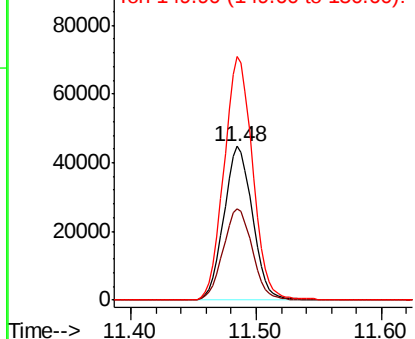


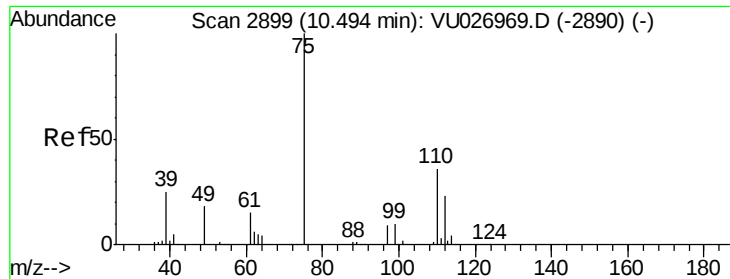
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. 0.00 min  
Lab File: VU027237.D  
Acq: 27 Sep 2018 20:36

Tgt Ion:152 Resp: 71013  
Ion Ratio Lower Upper  
152 100  
115 60.2 44.9 134.5  
150 158.0 0.0 355.8



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

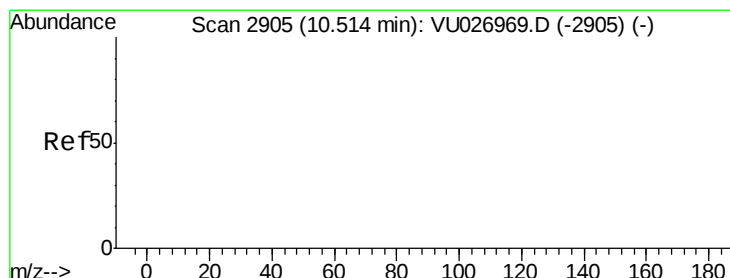
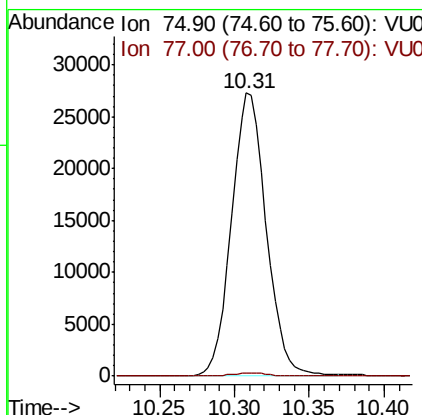
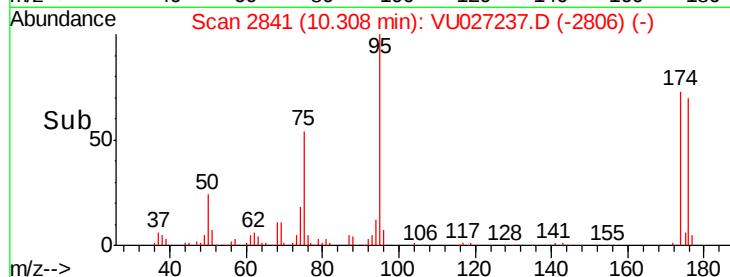
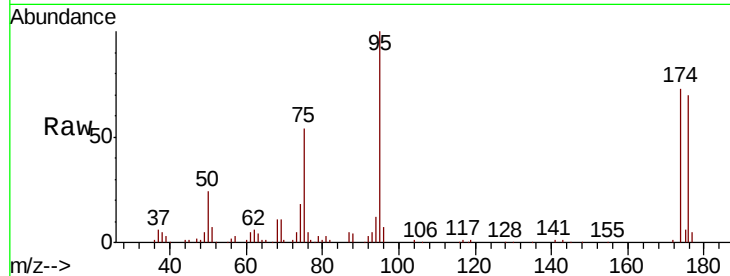




#76  
 1,2,3-Trichloropropane  
 Concen: 20.471 ug/l  
 RT: 10.31 min Scan# 2841  
 Delta R.T. -0.19 min  
 Lab File: VU027237.D  
 Acq: 27 Sep 2018 20:36

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BPSI-TT-MW312I-20180918

Tot Ion: 75 Resp: 44163  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 20.9 62.8#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 65.510 ug/l  
 RT: 10.31 min Scan# 2841  
 Delta R.T. -0.21 min  
 Lab File: VU027237.D  
 Acq: 27 Sep 2018 20:36

Tgt Ion: 75 Resp: 44163  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 0.0 0.0  
 89 0.0 0.0 0.0

