

Data File : VU027023.D  
Acq On : 22 Sep 2018 18:07  
Operator : MD/SY  
Sample : J4958-13  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 63 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-TT-MW308I-20180915

Quant Time: Sep 24 02:52:11 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  | 95455    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 160324   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 154237   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 71166    | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 5.31   | 65  | 95958    | 49.95 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.90% |      |
| 35) Dibromofluoromethane  | 4.88   | 113 | 67561    | 48.62 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.24% |      |
| 50) Toluene-d8            | 7.57   | 98  | 249122   | 47.04 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.08% |      |
| 62) 4-Bromofluorobenzene  | 10.31  | 95  | 80858    | 44.49 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 88.98% |      |

Target Compounds

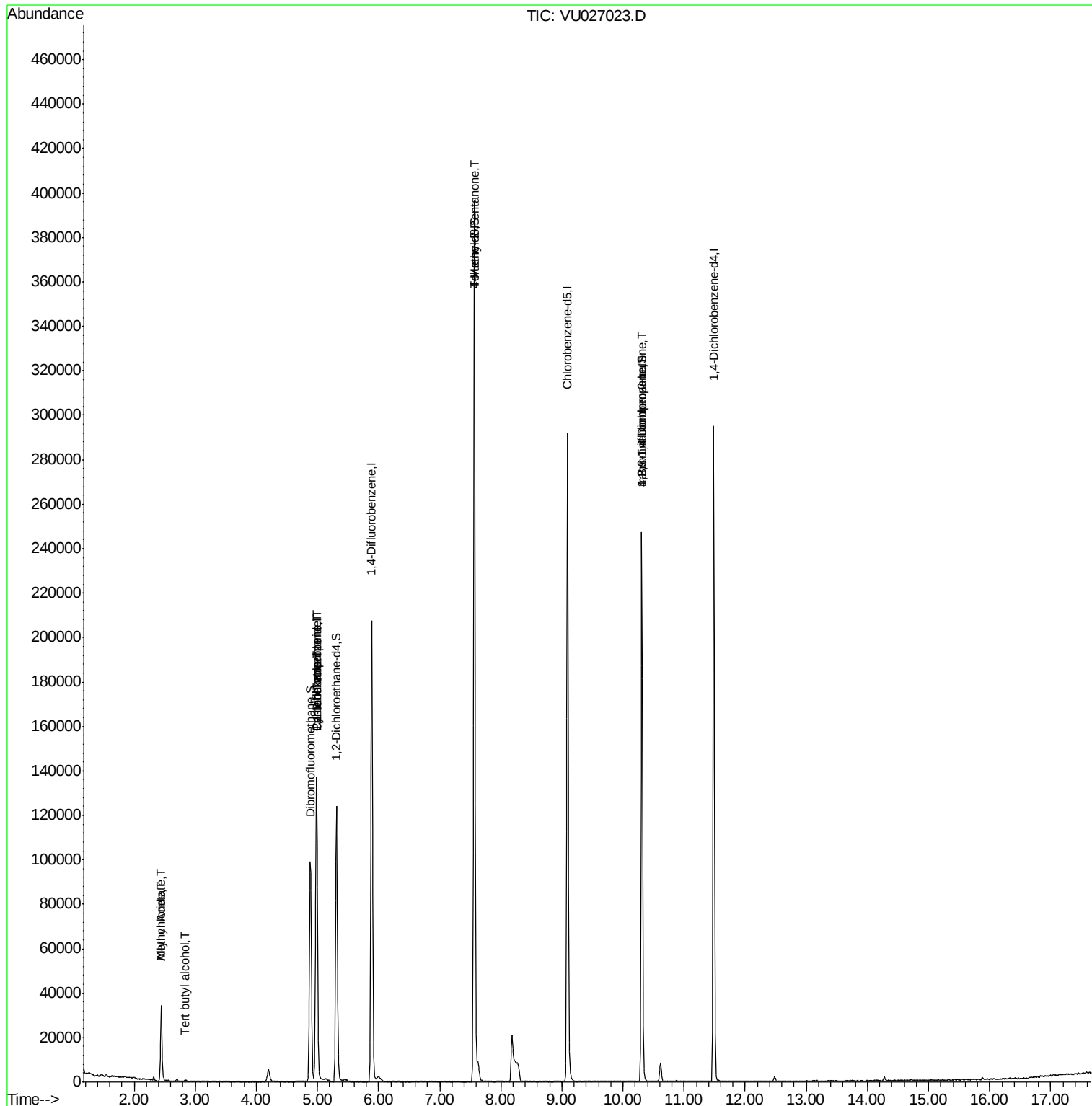
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 2.83  | 59  | 310   | 0.704     | ug/l # | 72     |
| 14) Allyl chloride             | 2.44  | 41  | 3548  | 1.327     | ug/l # | 73     |
| 16) Acetone                    | 2.32  | 43  | 1872  | Below Cal |        | 95     |
| 18) Methyl Acetate             | 2.44  | 43  | 8299  | 3.035     | ug/l # | 55     |
| 31) Cyclohexane                | 4.98  | 56  | 2458  | 0.287     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 4.99  | 75  | 8835  | 4.129     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 4.99  | 117 | 10090 | 4.955     | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 7.57  | 43  | 1211  | 0.426     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75  | 44117 | 20.406    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75  | 44117 | 65.302    | ug/l # | 100    |

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.00 min

Lab File: VU027023.D

Acq: 22 Sep 2018 18:07

Instrument :

MSVOA\_U

ClientSampleId :

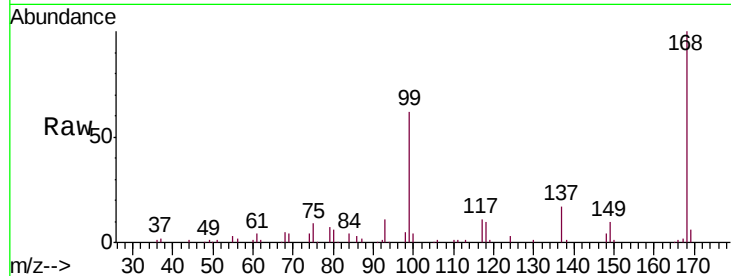
BPSI-TT-MW308I-20180915

Tgt Ion:168 Resp: 95455

Ion Ratio Lower Upper

168 100

99 61.9 48.1 72.1

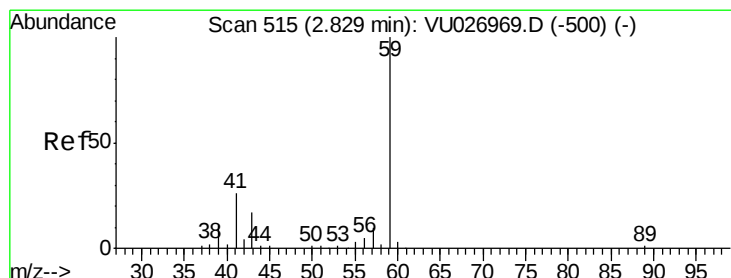
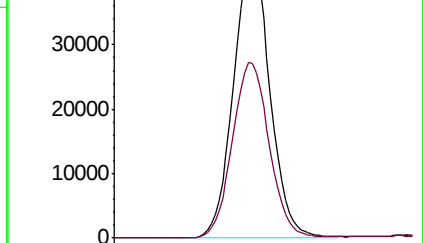
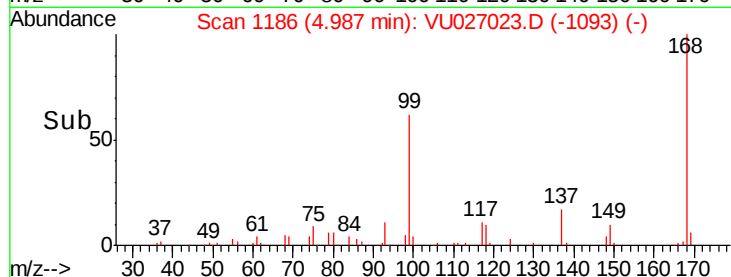


Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.99

Time-->



#11

Tert butyl alcohol

Concen: 0.704 ug/l

RT: 2.83 min Scan# 514

Delta R.T. -0.00 min

Lab File: VU027023.D

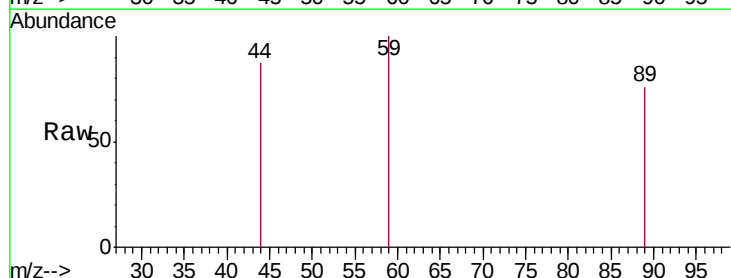
Acq: 22 Sep 2018 18:07

Tgt Ion: 59 Resp: 310

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#

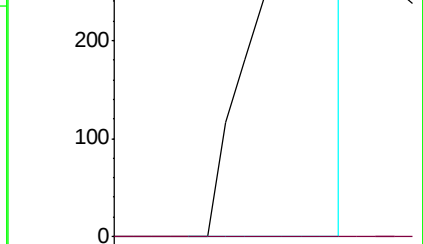
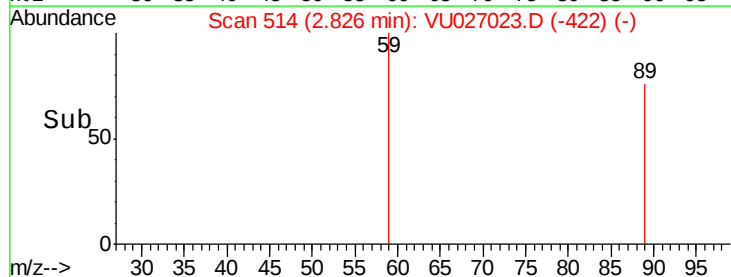


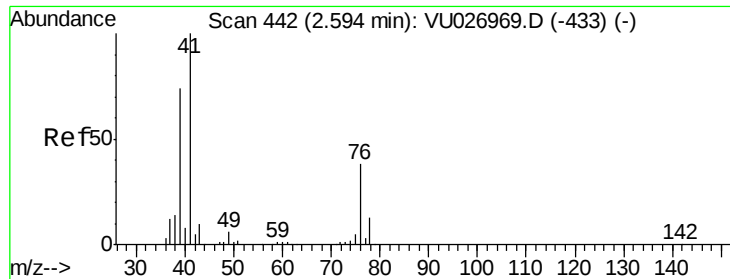
Abundance Ion 59.00 (58.70 to 59.70): VU026969.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU026969.D (-500) (-)

2.83

Time-->

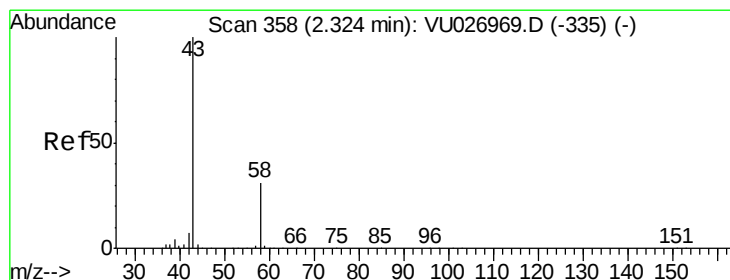
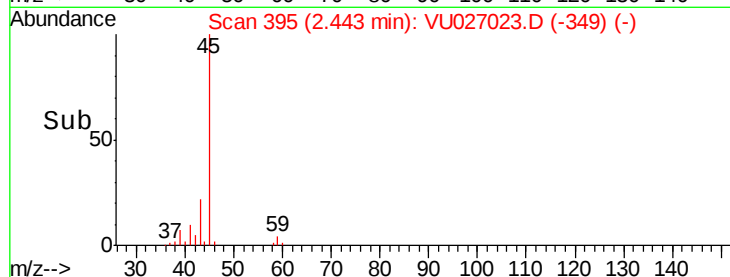
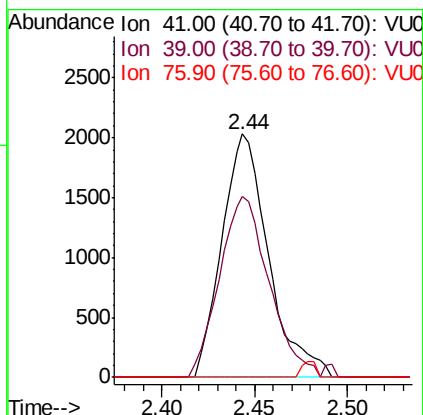
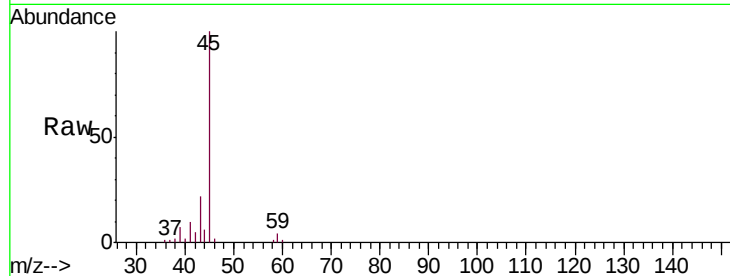




#14  
 Allyl chloride  
 Concen: 1.327 ug/l  
 RT: 2.44 min Scan# 395  
 Delta R.T. -0.15 min  
 Lab File: VU027023.D  
 Acq: 22 Sep 2018 18:07

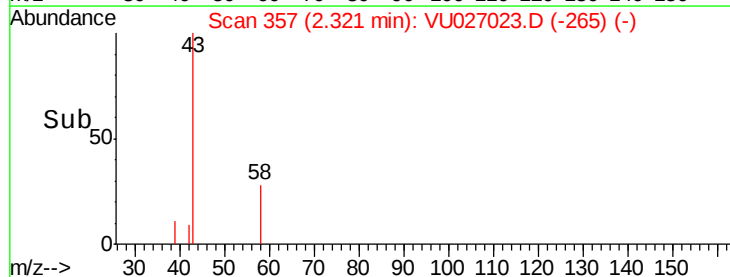
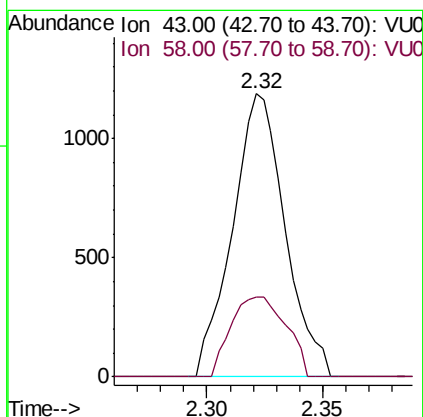
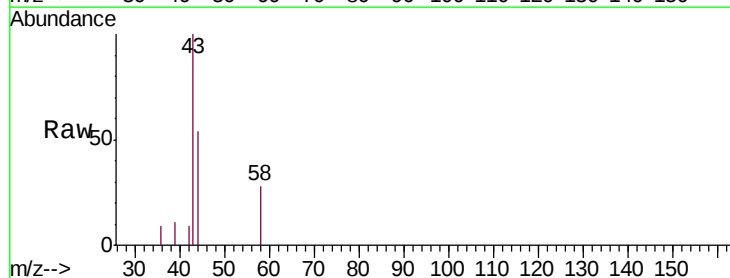
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 MSVOA\_U  
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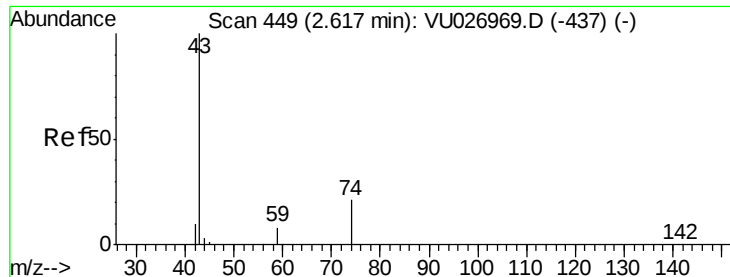
Tgt Ion: 41 Resp: 3548  
 Ion Ratio Lower Upper  
 41 100  
 39 78.9 55.7 83.5  
 76 0.0 26.5 39.7#



#16  
 Acetone  
 Concen: Below Cal  
 RT: 2.32 min Scan# 357  
 Delta R.T. -0.00 min  
 Lab File: VU027023.D  
 Acq: 22 Sep 2018 18:07

Tgt Ion: 43 Resp: 1872  
 Ion Ratio Lower Upper  
 43 100  
 58 28.1 24.6 36.8

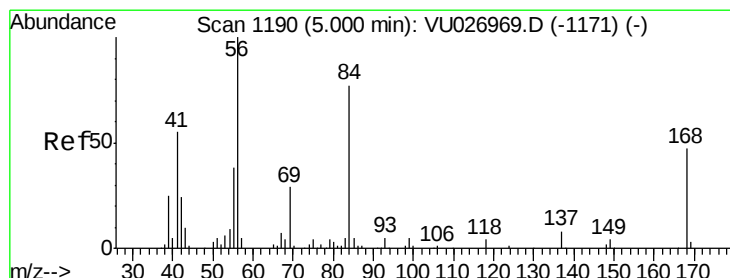
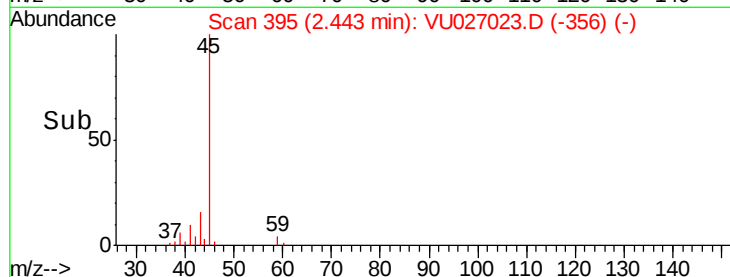
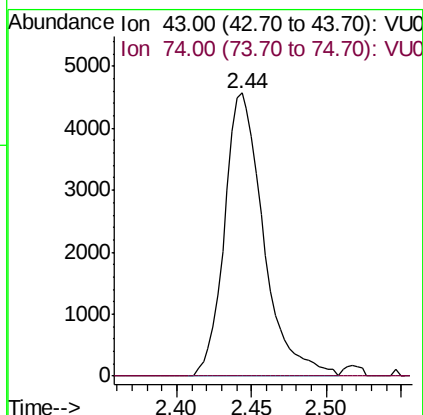
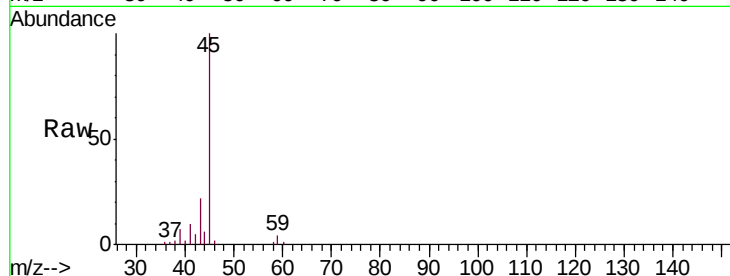




#18  
Methyl Acetate  
Concen: 3.035 ug/l  
RT: 2.44 min Scan# 395  
Delta R.T. -0.17 min  
Lab File: VU027023.D  
Acq: 22 Sep 2018 18:07

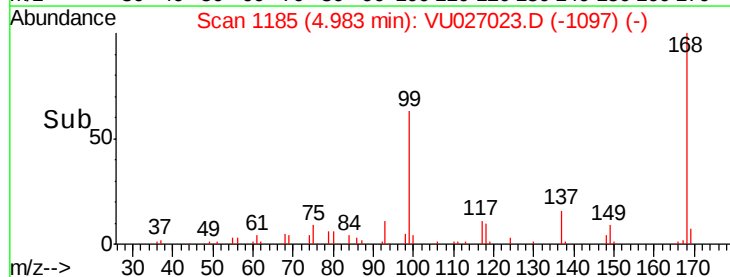
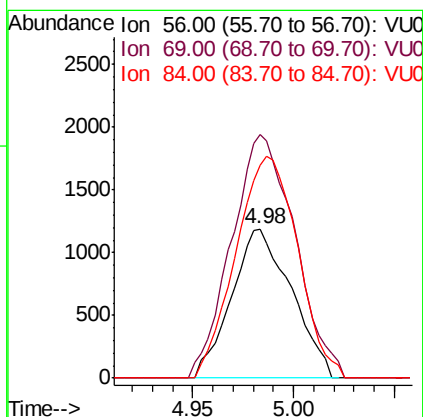
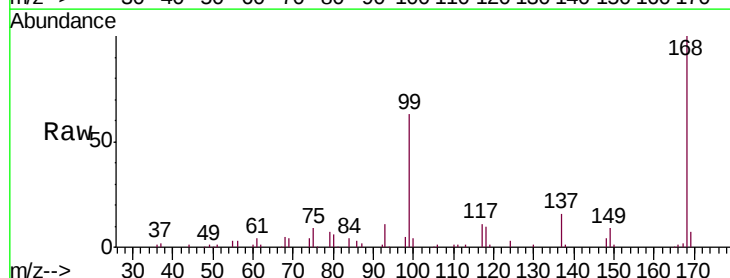
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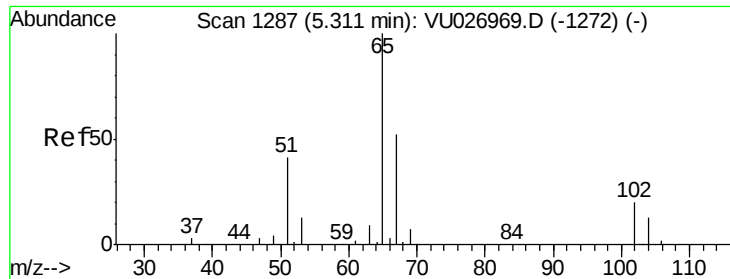
Tgt Ion: 43 Resp: 8299  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 25.0#



#31  
Cyclohexane  
Concen: 0.287 ug/l  
RT: 4.98 min Scan# 1185  
Delta R.T. -0.02 min  
Lab File: VU027023.D  
Acq: 22 Sep 2018 18:07

Tgt Ion: 56 Resp: 2458  
Ion Ratio Lower Upper  
56 100  
69 163.5 23.0 34.4#  
84 143.3 61.4 92.2#

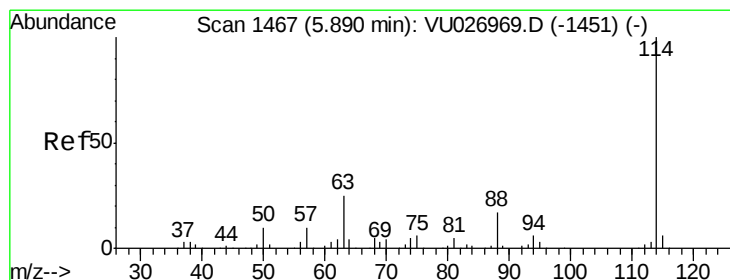
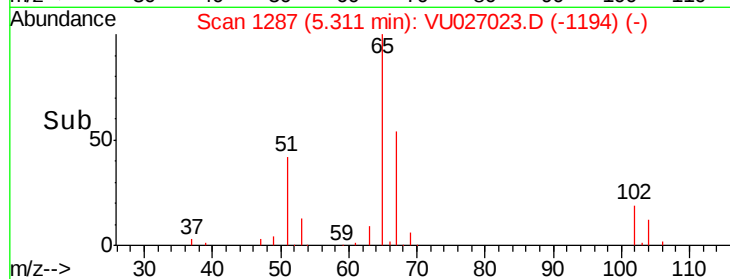
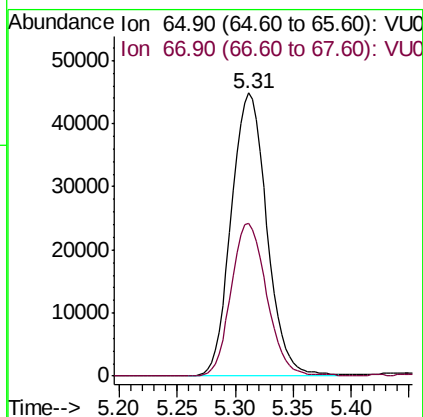
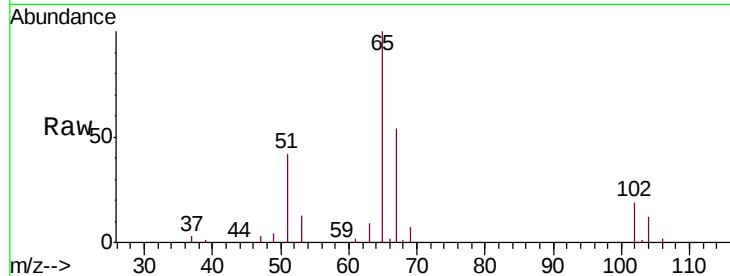




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.947 ug/l  
 RT: 5.31 min Scan# 1287  
 Delta R.T. -0.00 min  
 Lab File: VU027023.D  
 Acq: 22 Sep 2018 18:07

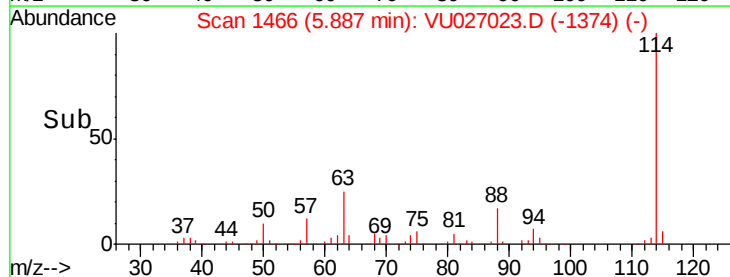
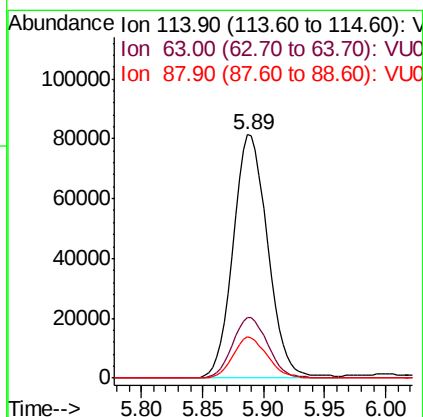
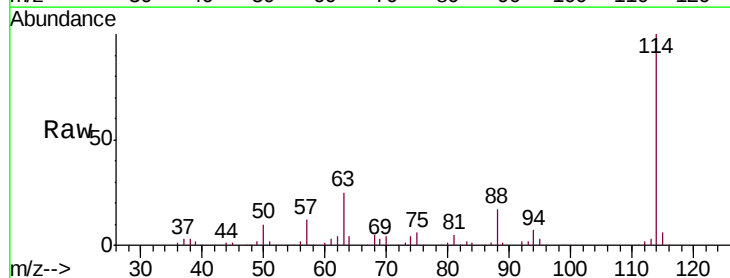
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BPSI-TT-MW308I-20180915

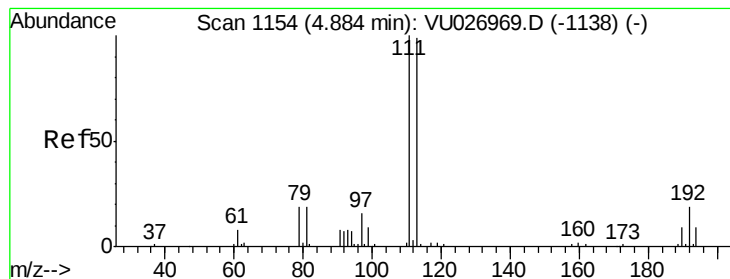
Tgt Ion: 65 Resp: 95958  
 Ion Ratio Lower Upper  
 65 100  
 67 53.8 0.0 105.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1466  
 Delta R.T. -0.00 min  
 Lab File: VU027023.D  
 Acq: 22 Sep 2018 18:07

Tgt Ion: 114 Resp: 160324  
 Ion Ratio Lower Upper  
 114 100  
 63 24.7 0.0 49.2  
 88 16.8 0.0 33.8





#35

Dibromofluoromethane

Concen: 48.616 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU027023.D

Acq: 22 Sep 2018 18:07

Instrument :

MSVOA\_U

ClientSampleId :

BPSI-TT-MW308I-20180915

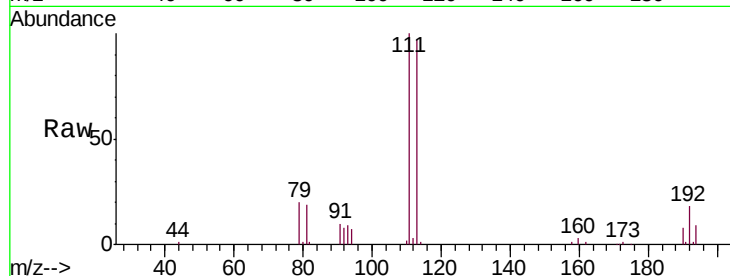
Tgt Ion:113 Resp: 67561

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

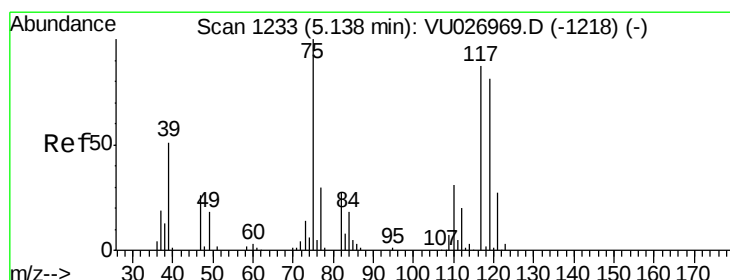
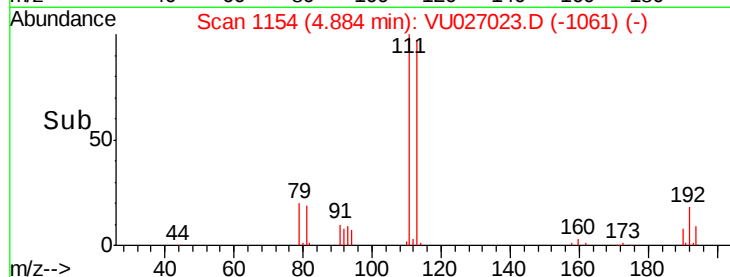
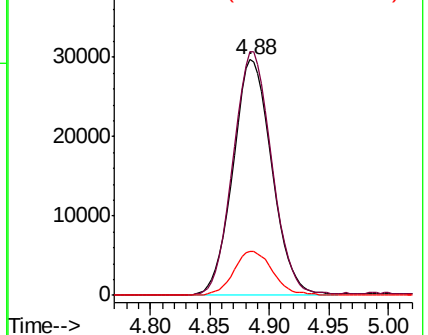
192 18.6 15.2 22.8



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: 4.129 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027023.D

Acq: 22 Sep 2018 18:07

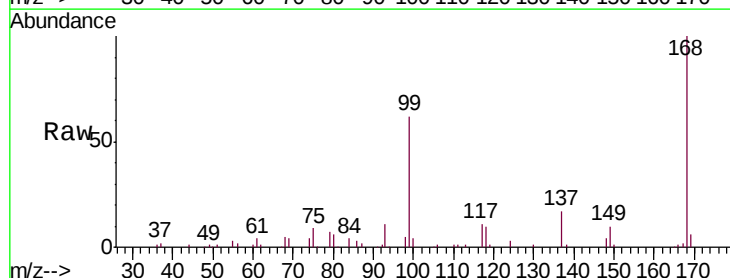
Tgt Ion: 75 Resp: 8835

Ion Ratio Lower Upper

75 100

110 6.9 16.1 48.2#

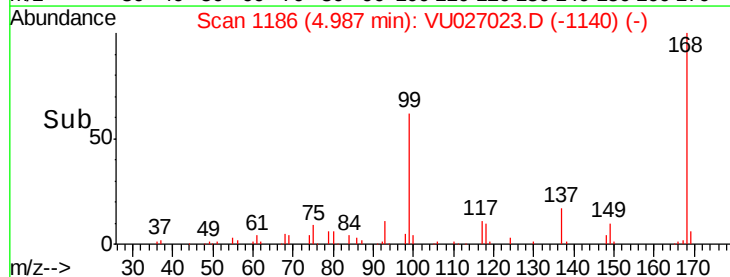
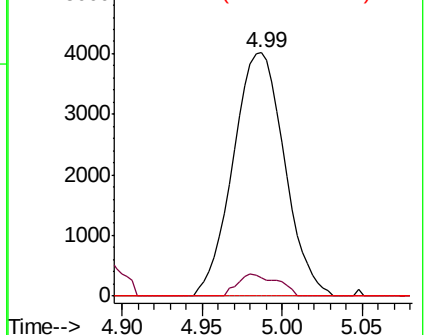
77 0.0 24.6 36.8#

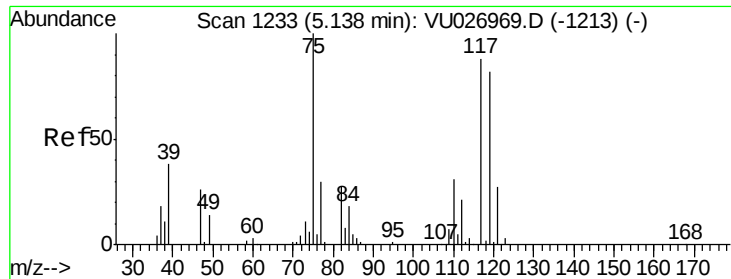


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

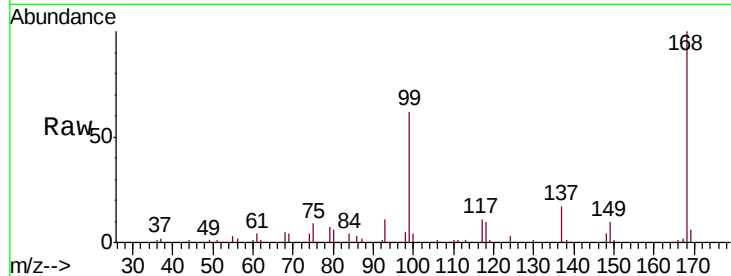




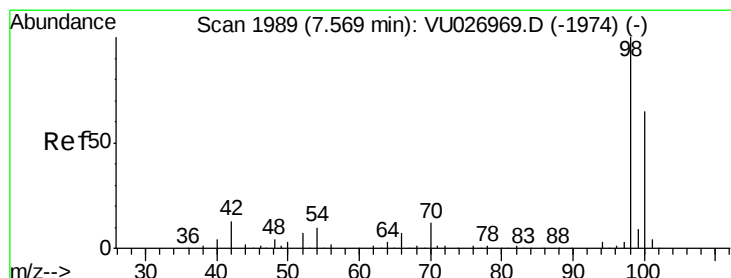
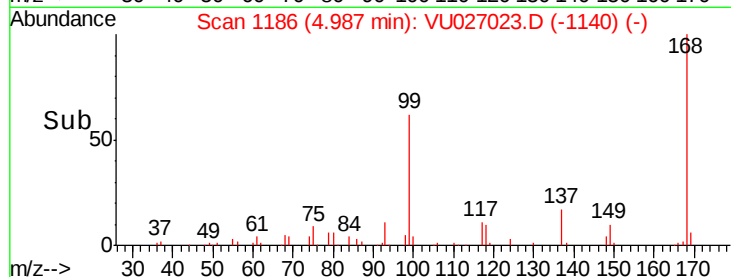
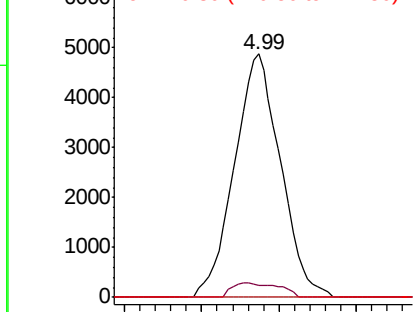
#38  
Carbon Tetrachloride  
Concen: 4.955 ug/l  
RT: 4.99 min Scan# 1186  
Delta R.T. -0.15 min  
Lab File: VU027023.D  
Acq: 22 Sep 2018 18:07

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Tgt Ion:117 Resp: 10090  
Ion Ratio Lower Upper  
117 100  
119 4.7 74.4 111.6#  
121 0.0 24.2 36.4#

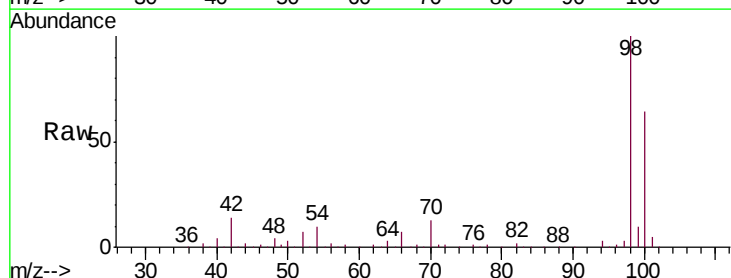


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

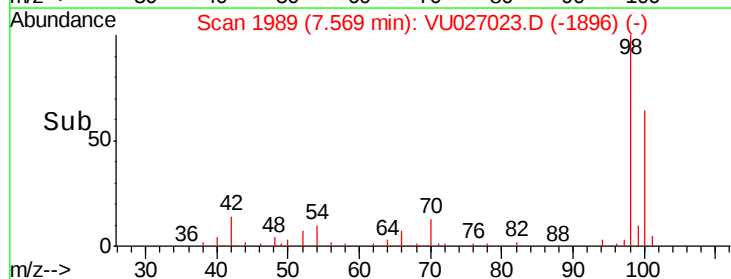
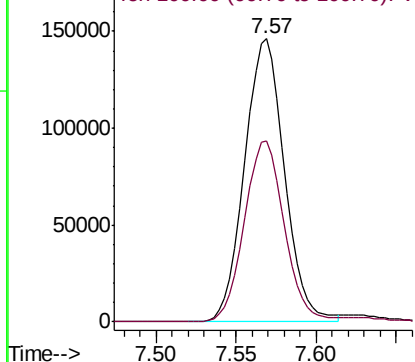


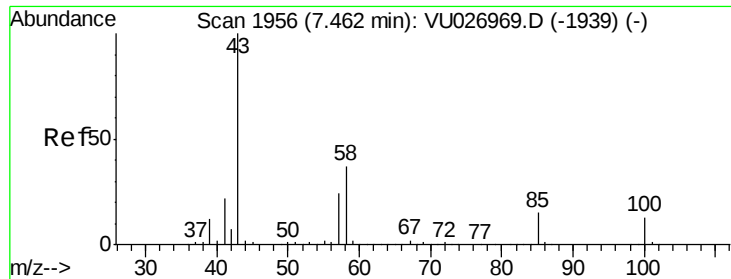
#50  
Toluene-d8  
Concen: 47.038 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU027023.D  
Acq: 22 Sep 2018 18:07

Tgt Ion: 98 Resp: 249122  
Ion Ratio Lower Upper  
98 100  
100 63.9 52.1 78.1



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

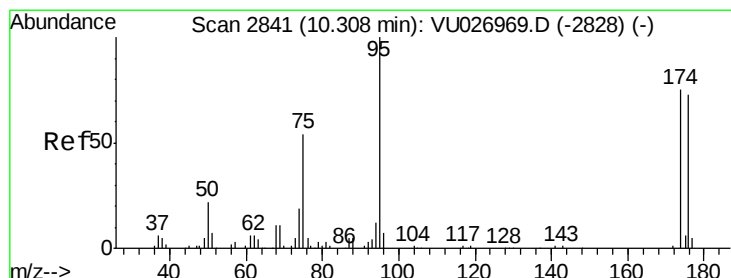
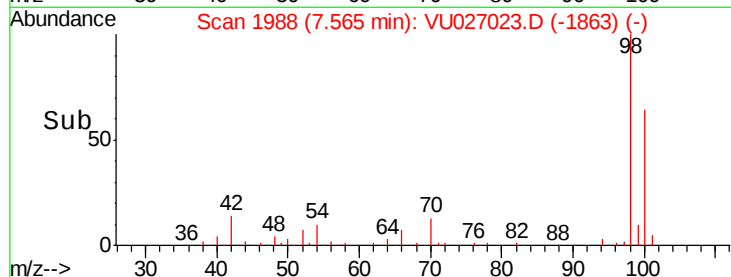
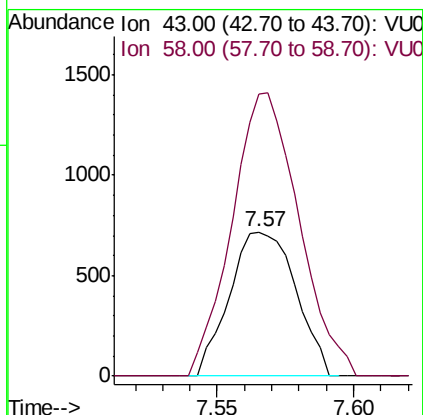
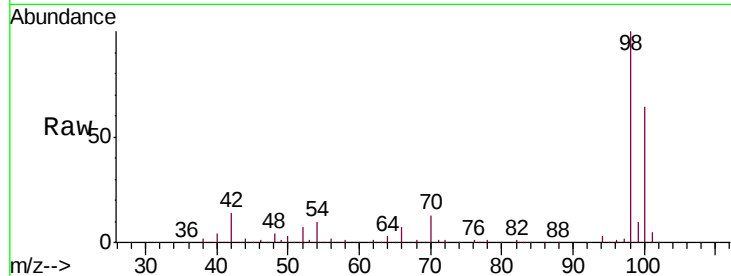




#51  
4-Methyl-2-Pentanone  
Concen: 0.426 ug/l  
RT: 7.57 min Scan# 1988  
Delta R.T. 0.10 min  
Lab File: VU027023.D  
Acq: 22 Sep 2018 18:07

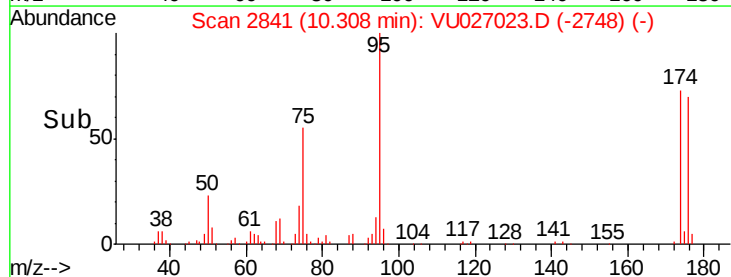
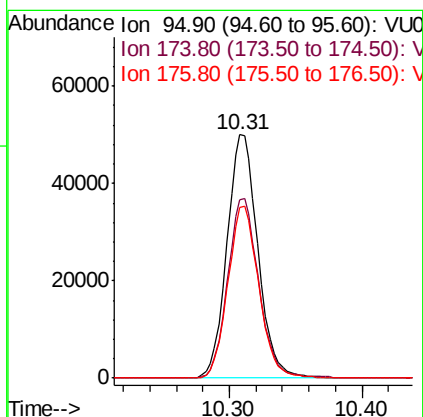
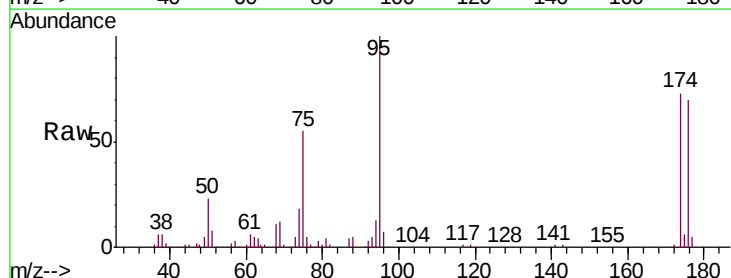
Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-TT-MW308I-20180915

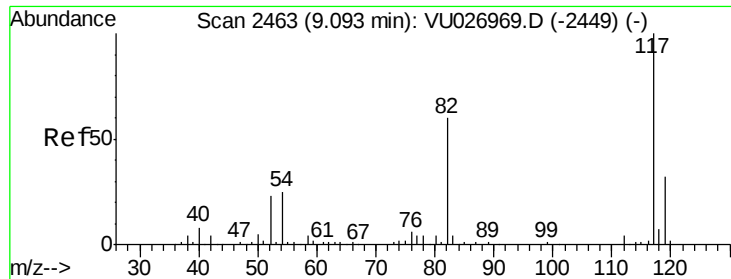
Tgt Ion: 43 Resp: 1211  
Ion Ratio Lower Upper  
43 100  
58 198.3 29.8 44.6#



#62  
4-Bromofluorobenzene  
Concen: 44.494 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. -0.00 min  
Lab File: VU027023.D  
Acq: 22 Sep 2018 18:07

Tgt Ion: 95 Resp: 80858  
Ion Ratio Lower Upper  
95 100  
174 74.2 0.0 150.2  
176 70.9 0.0 145.2

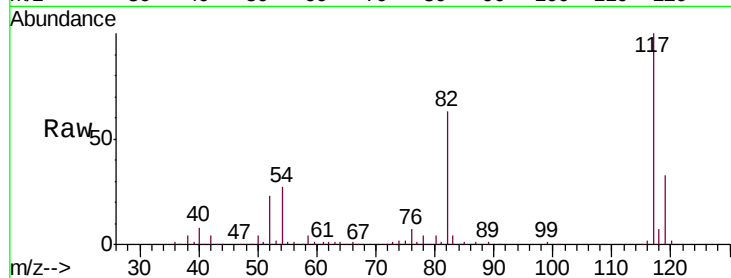




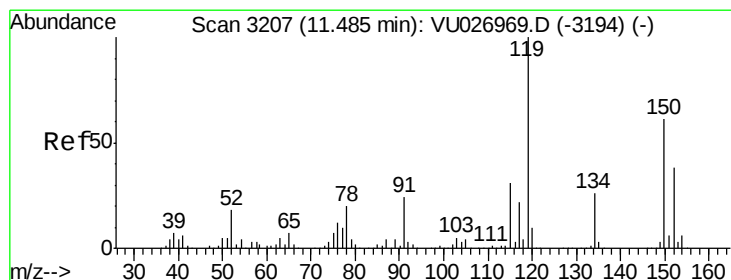
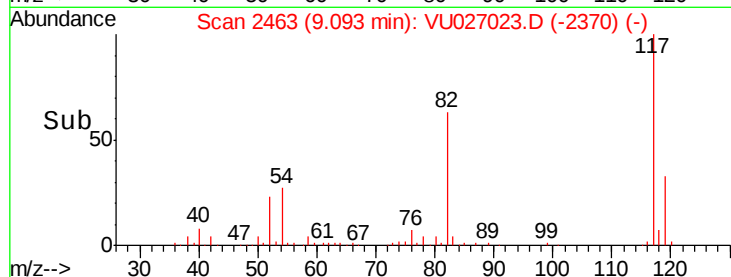
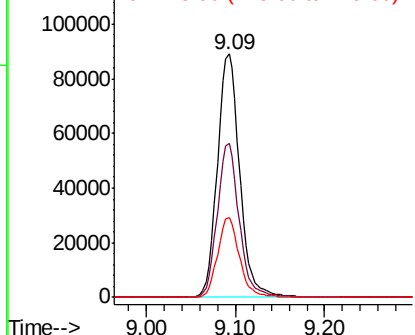
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: VU027023.D  
Acq: 22 Sep 2018 18:07

Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-TT-MW308I-20180915

Tgt Ion:117 Resp: 154237  
Ion Ratio Lower Upper  
117 100  
82 63.2 48.0 72.0  
119 32.6 25.8 38.8

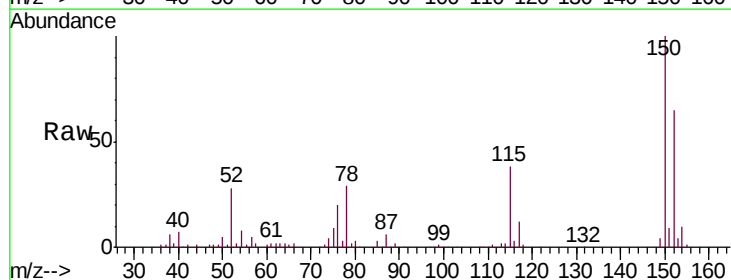


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V

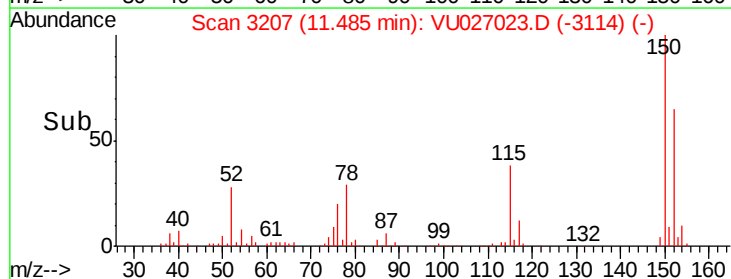
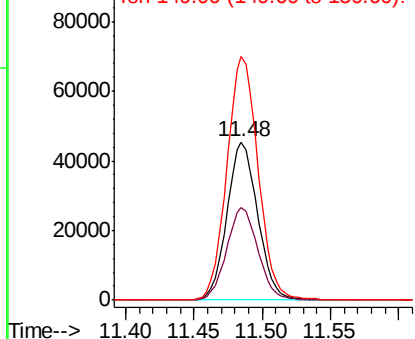


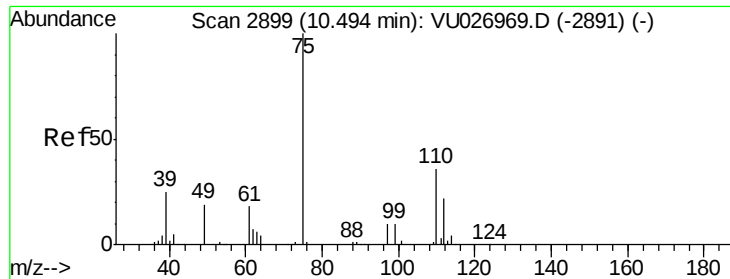
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. -0.00 min  
Lab File: VU027023.D  
Acq: 22 Sep 2018 18:07

Tgt Ion:152 Resp: 71166  
Ion Ratio Lower Upper  
152 100  
115 59.8 44.9 134.5  
150 156.3 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: 20.406 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027023.D

Acq: 22 Sep 2018 18:07

Instrument :

MSVOA\_U

ClientSampleId :

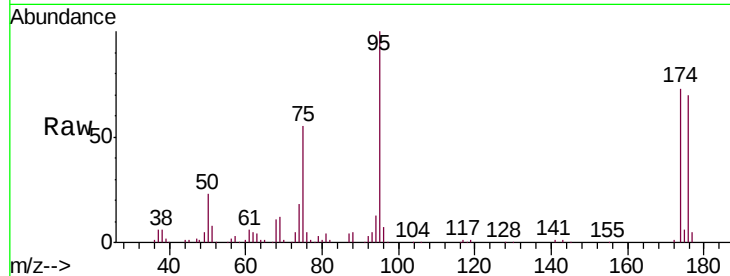
BPSI-TT-MW308I-20180915

Tgt Ion: 75 Resp: 44117

Ion Ratio Lower Upper

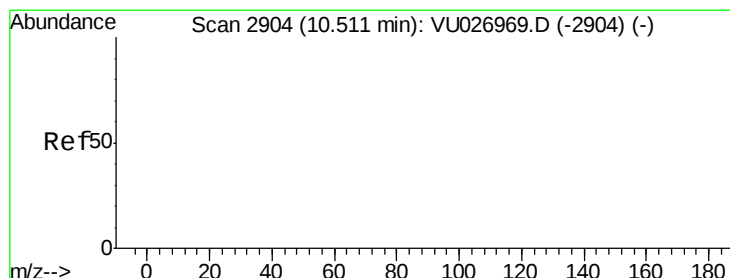
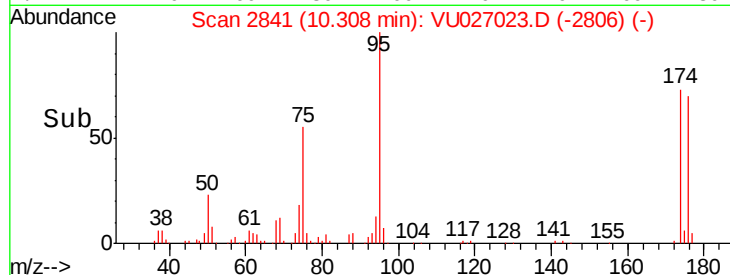
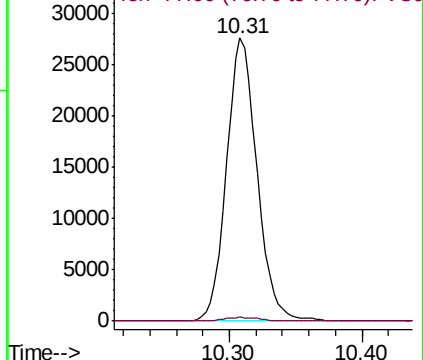
75 100

77 1.4 20.9 62.8#



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: 65.302 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027023.D

Acq: 22 Sep 2018 18:07

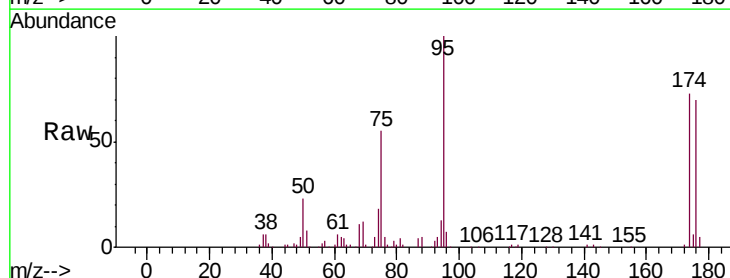
Tgt Ion: 75 Resp: 44117

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

