

Data File : VU027006.D  
Acq On : 22 Sep 2018 08:51  
Operator : MD/SY  
Sample : J4958-04  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-HN-MW24S-20180914

Quant Time: Sep 24 02:46:28 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  | 71721    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 145300   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 148342   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 71689    | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.31   | 65  | 88272    | 61.15 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 122.30% |      |
| 35) Dibromofluoromethane  | 4.89   | 113 | 64932    | 51.56 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.12% |      |
| 50) Toluene-d8            | 7.57   | 98  | 236932   | 49.36 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.72%  |      |
| 62) 4-Bromofluorobenzene  | 10.31  | 95  | 80810    | 49.07 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.14%  |      |

Target Compounds

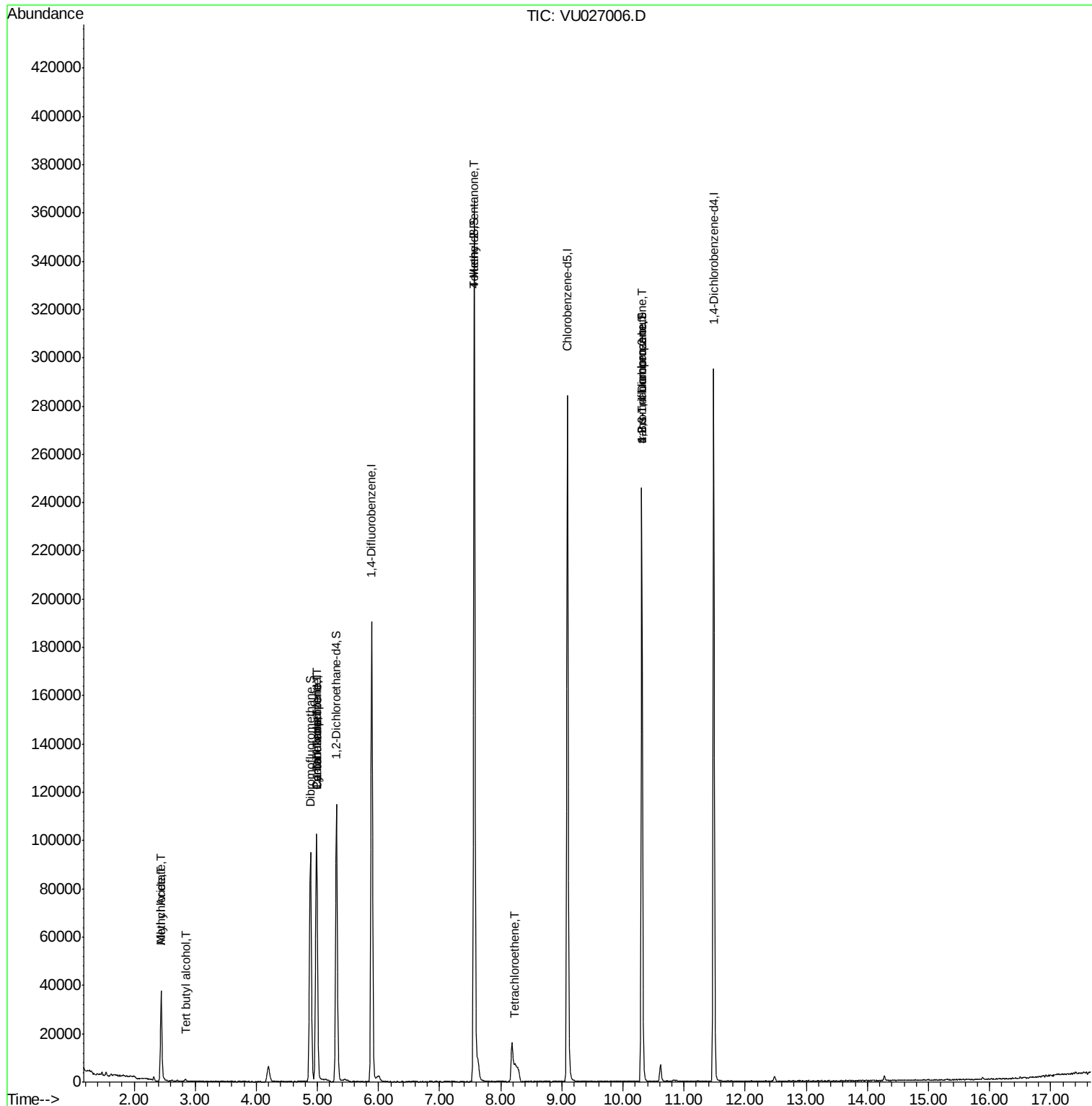
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 2.84  | 59  | 666   | 2.013     | ug/l # | 72     |
| 14) Allyl chloride             | 2.44  | 41  | 3924  | 1.953     | ug/l # | 74     |
| 16) Acetone                    | 2.32  | 43  | 1800  | Below Cal |        | 89     |
| 18) Methyl Acetate             | 2.44  | 43  | 9890  | 4.814     | ug/l # | 55     |
| 31) Cyclohexane                | 4.98  | 56  | 1835  | 0.281     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 4.98  | 75  | 6879  | 3.547     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 4.98  | 117 | 7592  | 4.114     | ug/l # | 19     |
| 51) 4-Methyl-2-Pentanone       | 7.56  | 43  | 1163  | 0.452     | ug/l # | 1      |
| 64) Tetrachloroethene          | 8.24  | 164 | 236   | 0.206     | ug/l # | 89     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75  | 44307 | 20.344    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75  | 44307 | 65.104    | ug/l # | 100    |

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027006.D

Acq: 22 Sep 2018 08:51

Instrument :

MSVOA\_U

ClientSampleId :

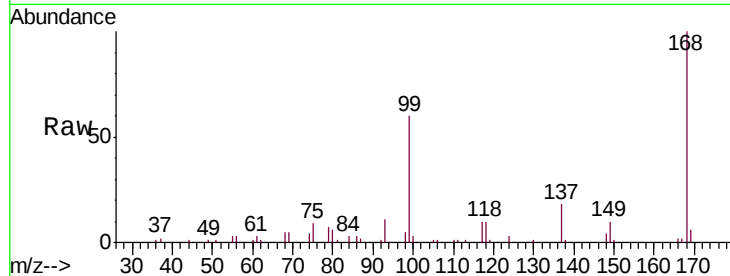
BPSI-HN-MW24S-20180914

Tgt Ion:168 Resp: 71721

Ion Ratio Lower Upper

168 100

99 60.2 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

30000

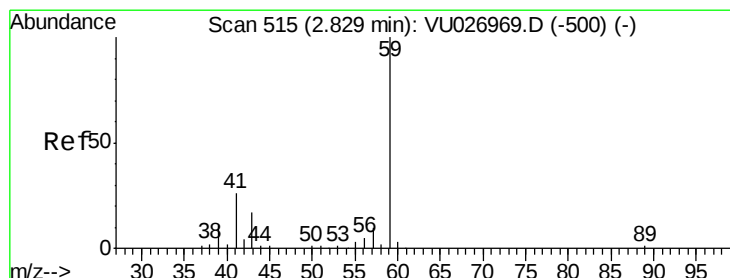
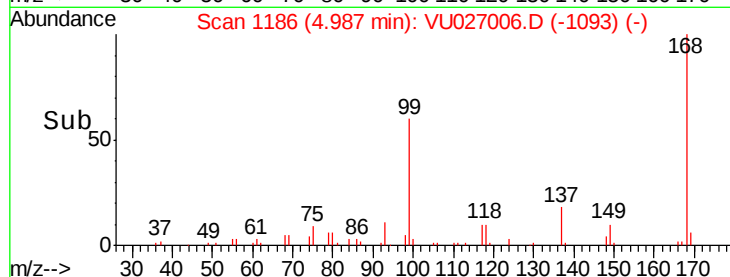
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#11

Tert butyl alcohol

Concen: 2.013 ug/l

RT: 2.84 min Scan# 515

Delta R.T. 0.01 min

Lab File: VU027006.D

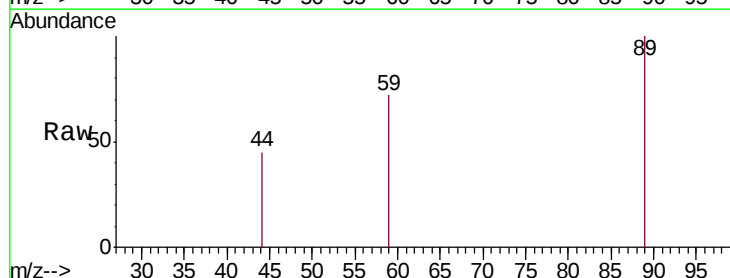
Acq: 22 Sep 2018 08:51

Tgt Ion: 59 Resp: 666

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) (-)

2.84

500

400

300

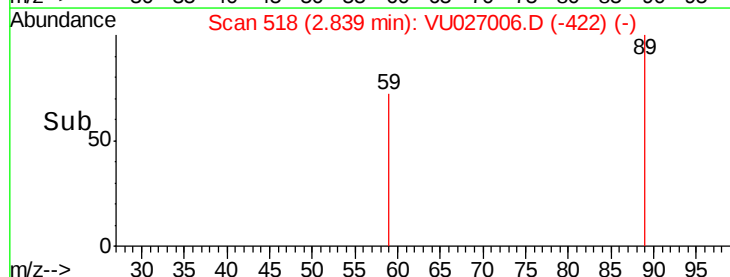
200

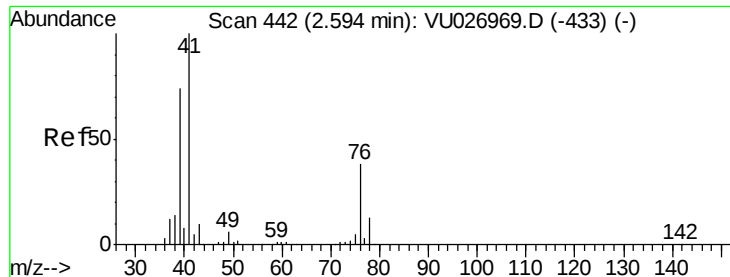
100

0

2.80 2.85

Time-->





#14

Allyl chloride

Concen: 1.953 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.15 min

Lab File: VU027006.D

Acq: 22 Sep 2018 08:51

Instrument :

MSVOA\_U

ClientSampleId :

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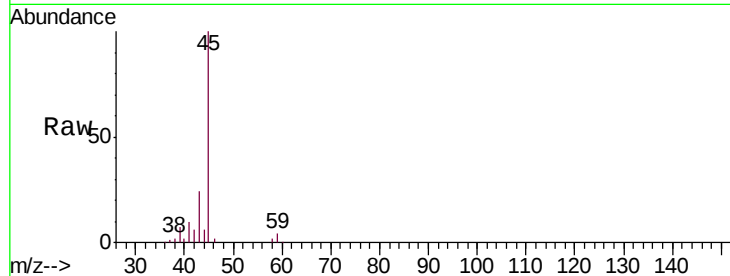
Tgt Ion: 41 Resp: 3924

Ion Ratio Lower Upper

41 100

39 78.7 55.7 83.5

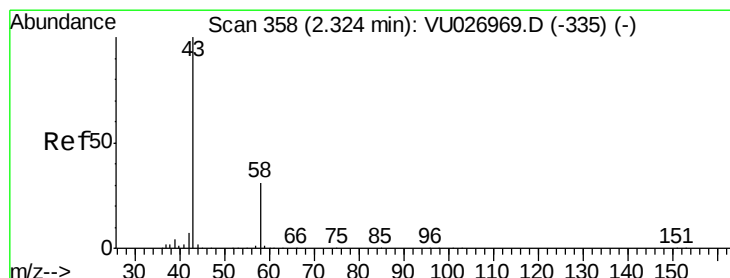
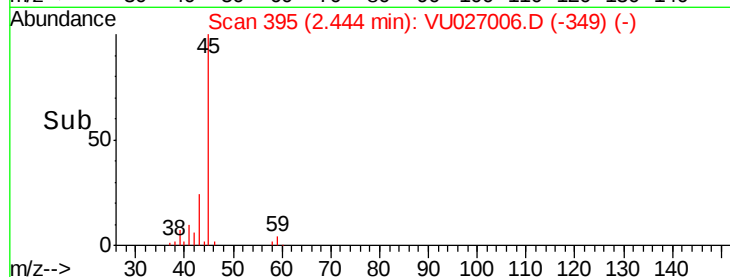
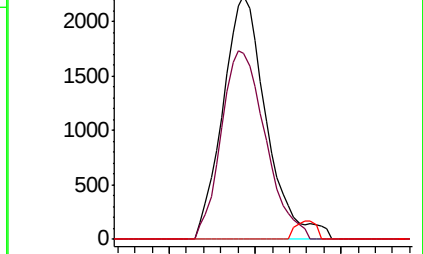
76 0.0 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VU027006.D (-395) (-)

Ion 39.00 (38.70 to 39.70): VU027006.D (-395) (-)

Ion 75.90 (75.60 to 76.60): VU027006.D (-395) (-)



#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 356

Delta R.T. -0.01 min

Lab File: VU027006.D

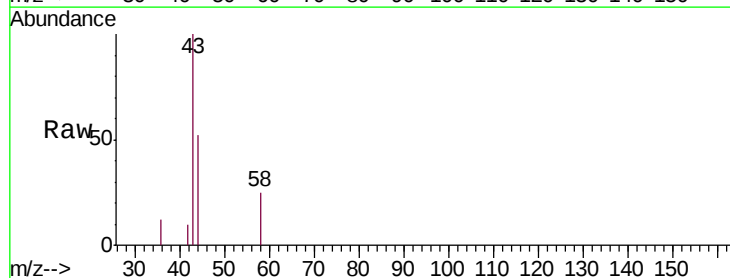
Acq: 22 Sep 2018 08:51

Tgt Ion: 43 Resp: 1800

Ion Ratio Lower Upper

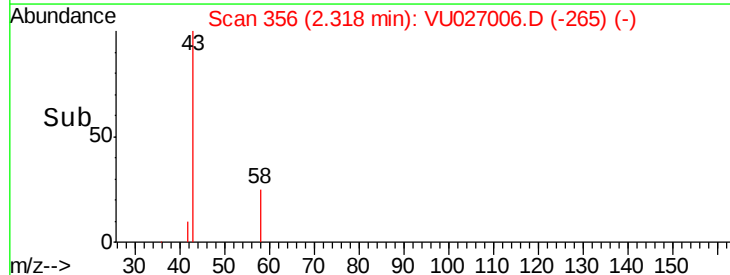
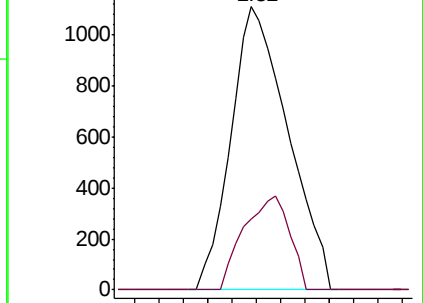
43 100

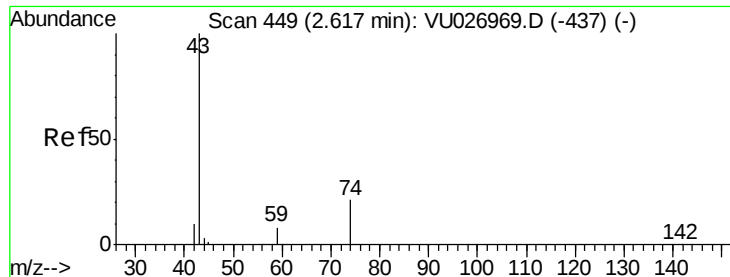
58 24.9 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU027006.D (-356) (-)

Ion 58.00 (57.70 to 58.70): VU027006.D (-356) (-)

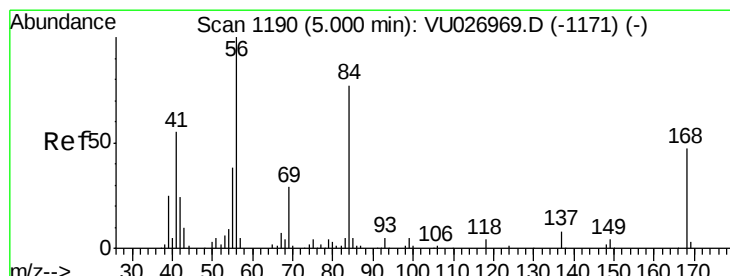
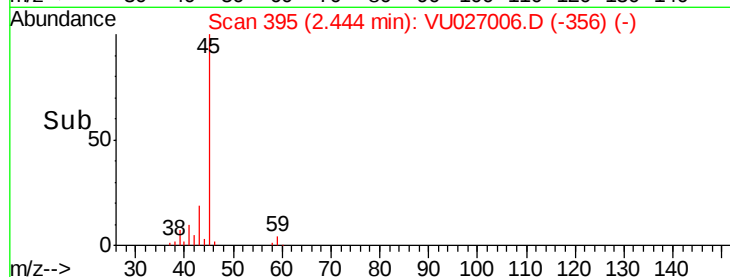
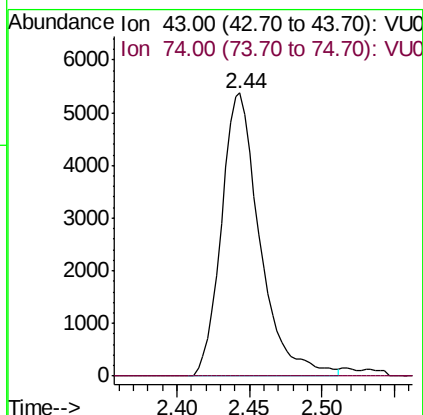
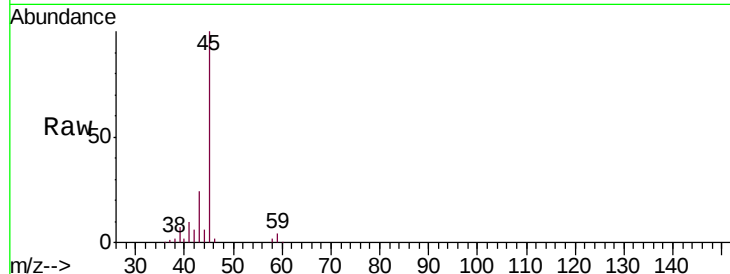




#18  
Methyl Acetate  
Concen: 4.814 ug/l  
RT: 2.44 min Scan# 395  
Delta R.T. -0.17 min  
Lab File: VU027006.D  
Acq: 22 Sep 2018 08:51

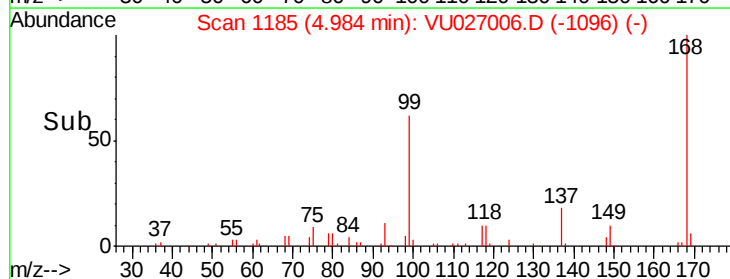
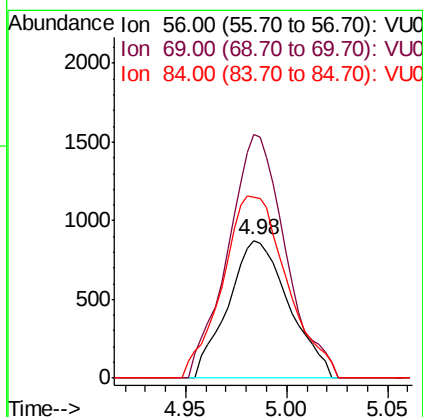
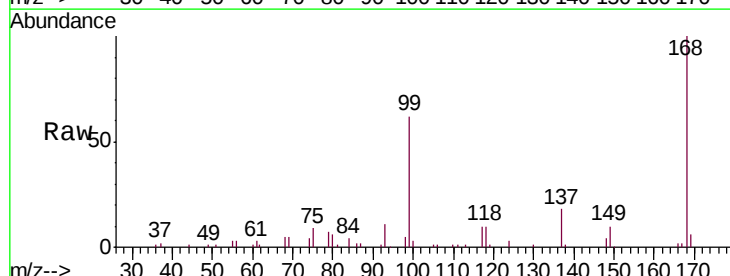
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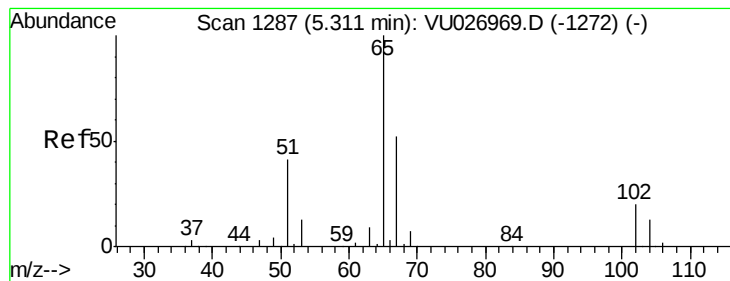
Tgt Ion: 43 Resp: 9890  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 25.0#



#31  
Cyclohexane  
Concen: 0.281 ug/l  
RT: 4.98 min Scan# 1185  
Delta R.T. -0.02 min  
Lab File: VU027006.D  
Acq: 22 Sep 2018 08:51

Tgt Ion: 56 Resp: 1835  
Ion Ratio Lower Upper  
56 100  
69 176.4 23.0 34.4#  
84 131.2 61.4 92.2#





#33

1,2-Dichloroethane-d4

Concen: 61.151 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027006.D

Acq: 22 Sep 2018 08:51

Instrument :

MSVOA\_U

ClientSampleId :

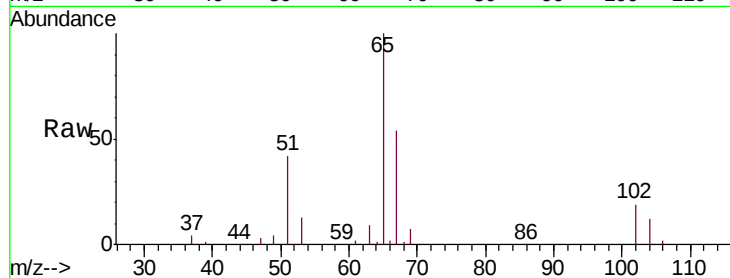
BPSI-HN-MW24S-20180914

Tgt Ion: 65 Resp: 88272

Ion Ratio Lower Upper

65 100

67 52.9 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU026969.D (-1272) (-)

Ion 66.90 (66.60 to 67.60): VU026969.D (-1272) (-)

5.31

40000

30000

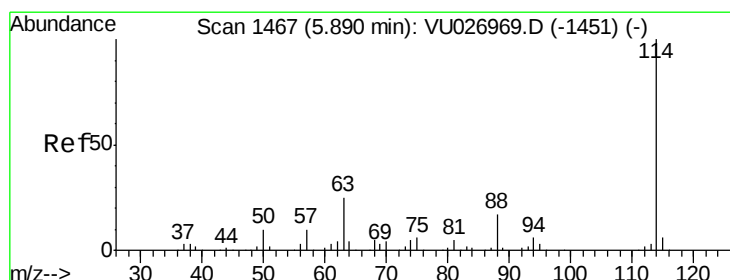
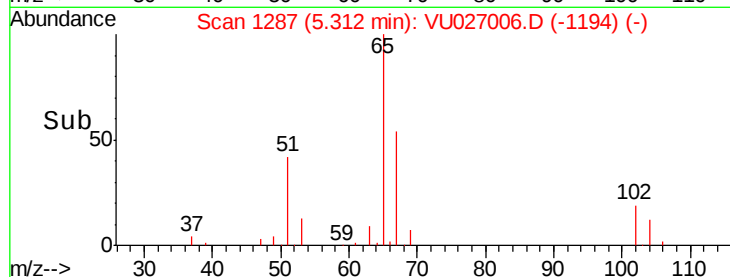
20000

10000

0

5.25 5.30 5.35 5.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1466

Delta R.T. -0.00 min

Lab File: VU027006.D

Acq: 22 Sep 2018 08:51

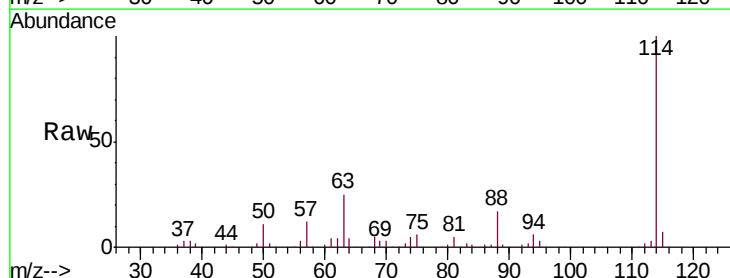
Tgt Ion: 114 Resp: 145300

Ion Ratio Lower Upper

114 100

63 24.9 0.0 49.2

88 16.9 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): VU026969.D (-1451) (-)

Ion 63.00 (62.70 to 63.70): VU026969.D (-1451) (-)

Ion 87.90 (87.60 to 88.60): VU026969.D (-1451) (-)

5.89

100000

80000

60000

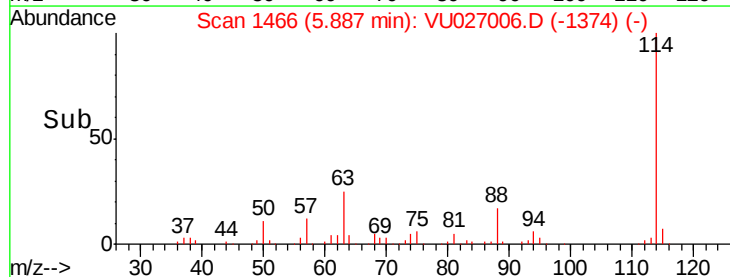
40000

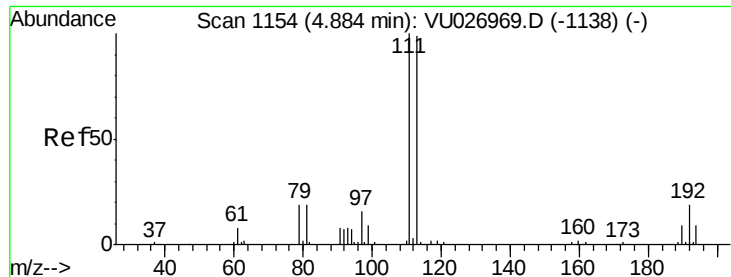
20000

0

5.80 5.85 5.90 5.95

Time-->

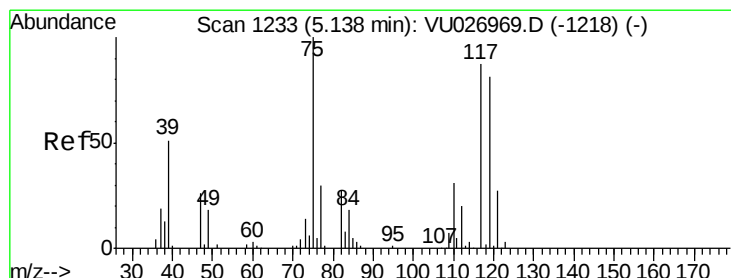
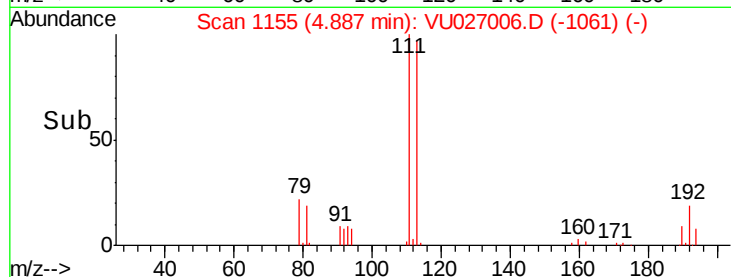
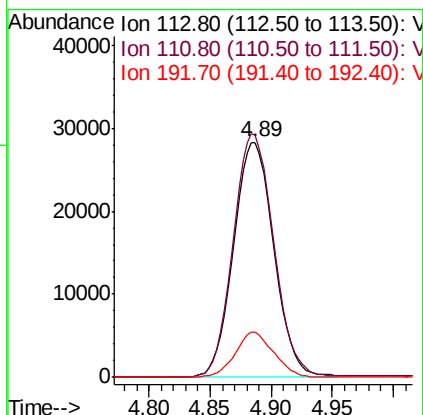
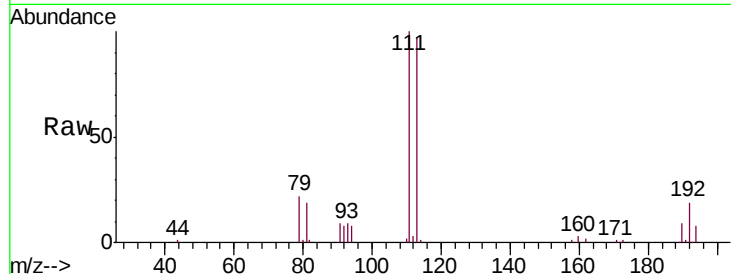




#35  
 Dibromofluoromethane  
 Concen: 51.555 ug/l  
 RT: 4.89 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VU027006.D  
 Acq: 22 Sep 2018 08:51

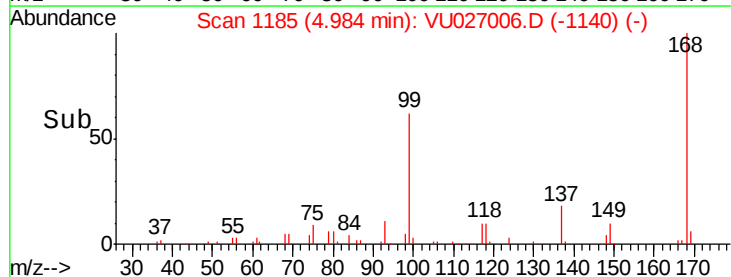
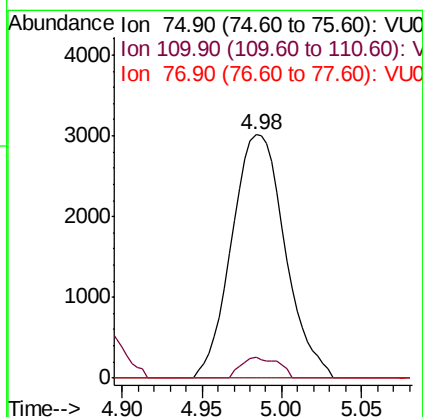
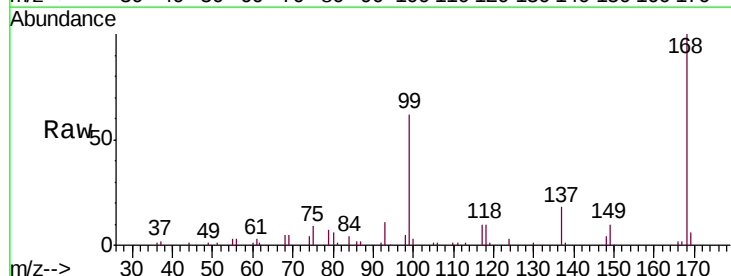
Instrument :  
 MSVOA\_U  
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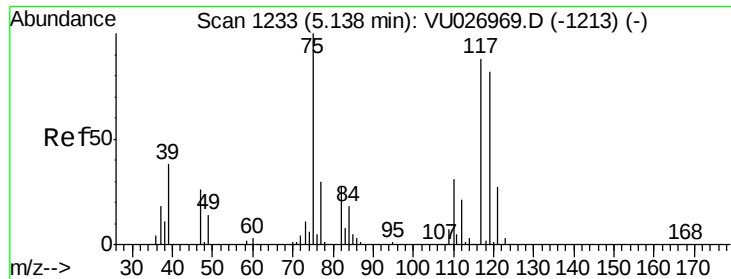
Tgt Ion: 113 Resp: 64932  
 Ion Ratio Lower Upper  
 113 100  
 111 104.1 82.2 123.4  
 192 18.3 15.2 22.8



#36  
 1,1-Dichloropropene  
 Concen: 3.547 ug/l  
 RT: 4.98 min Scan# 1185  
 Delta R.T. -0.15 min  
 Lab File: VU027006.D  
 Acq: 22 Sep 2018 08:51

Tgt Ion: 75 Resp: 6879  
 Ion Ratio Lower Upper  
 75 100  
 110 5.9 16.1 48.2#  
 77 0.0 24.6 36.8#

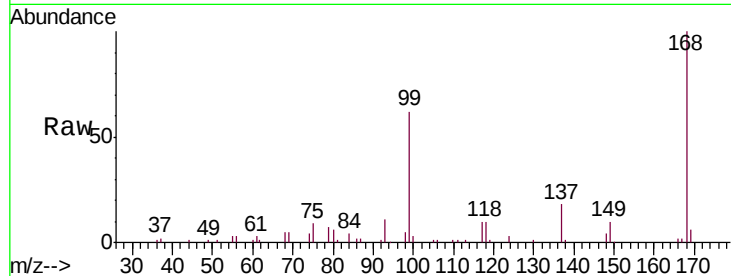




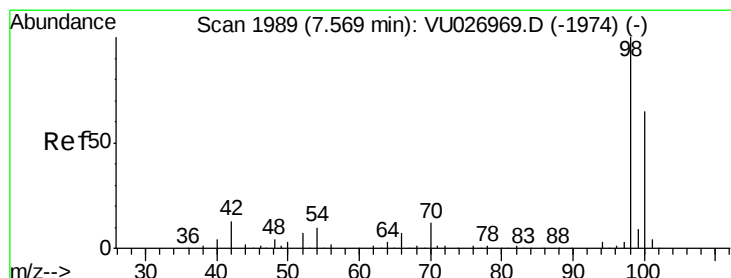
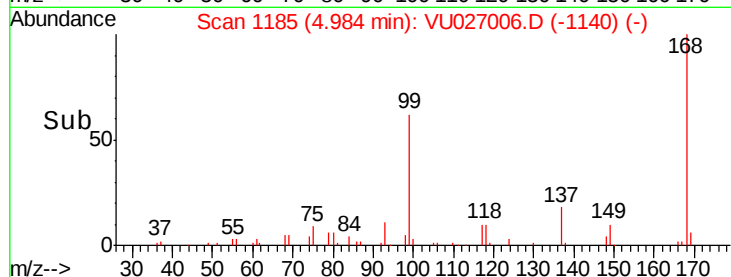
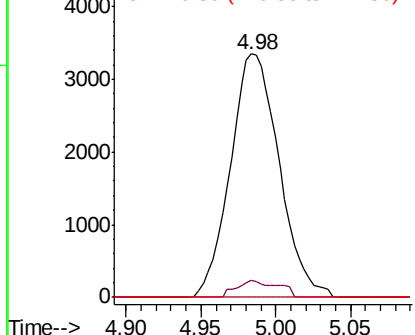
#38  
Carbon Tetrachloride  
Concen: 4.114 ug/l  
RT: 4.98 min Scan# 1185  
Delta R.T. -0.15 min  
Lab File: VU027006.D  
Acq: 22 Sep 2018 08:51

Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-HN-MW24S-20180914

Tgt Ion: 117 Resp: 7592  
Ion Ratio Lower Upper  
117 100  
119 6.7 74.4 111.6#  
121 0.0 24.2 36.4#

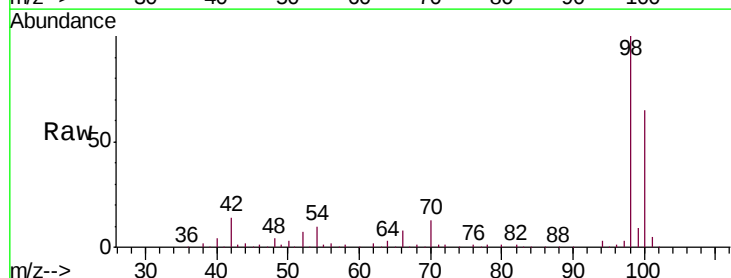


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

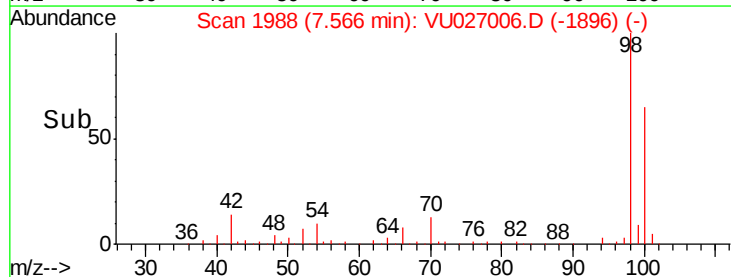
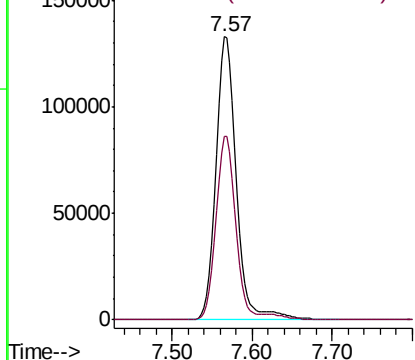


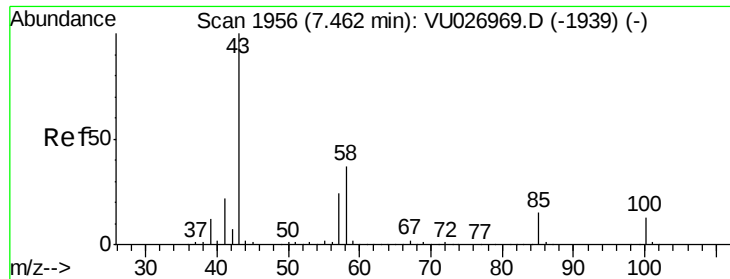
#50  
Toluene-d8  
Concen: 49.362 ug/l  
RT: 7.57 min Scan# 1988  
Delta R.T. -0.00 min  
Lab File: VU027006.D  
Acq: 22 Sep 2018 08:51

Tgt Ion: 98 Resp: 236932  
Ion Ratio Lower Upper  
98 100  
100 62.2 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: 0.452 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VU027006.D

Acq: 22 Sep 2018 08:51

Instrument :

MSVOA\_U

ClientSampleId :

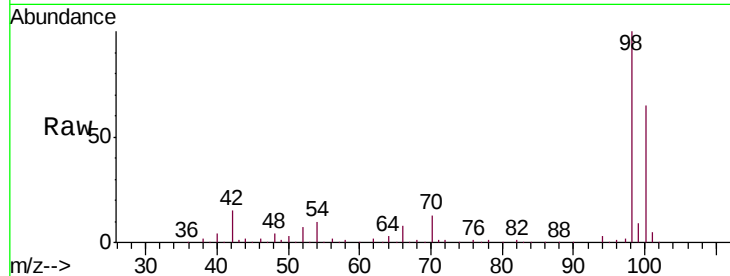
BPSI-HN-MW24S-20180914

Tgt Ion: 43 Resp: 1163

Ion Ratio Lower Upper

43 100

58 185.5 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

1500

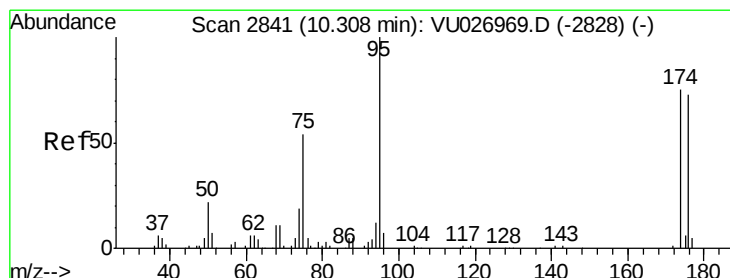
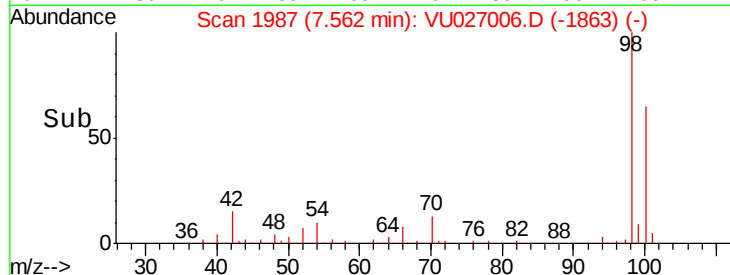
1000

500

0

7.55 7.56 7.60

Time-->



#62

4-Bromofluorobenzene

Concen: 49.065 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027006.D

Acq: 22 Sep 2018 08:51

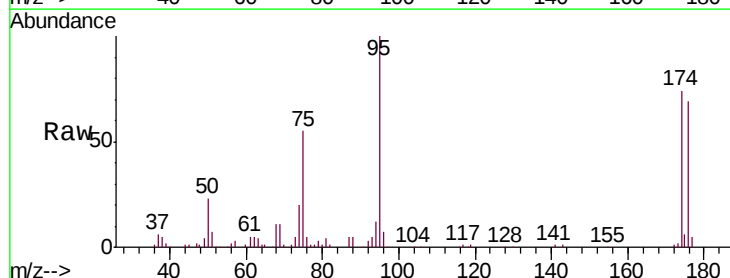
Tgt Ion: 95 Resp: 80810

Ion Ratio Lower Upper

95 100

174 75.1 0.0 150.2

176 70.4 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

60000

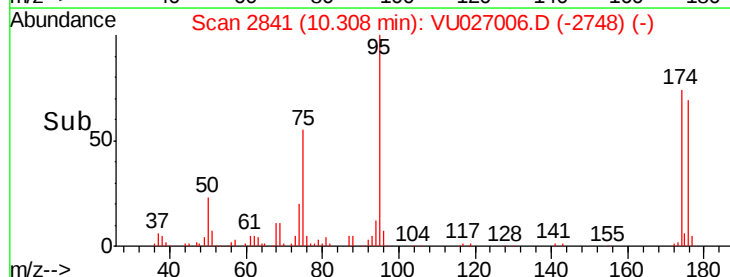
40000

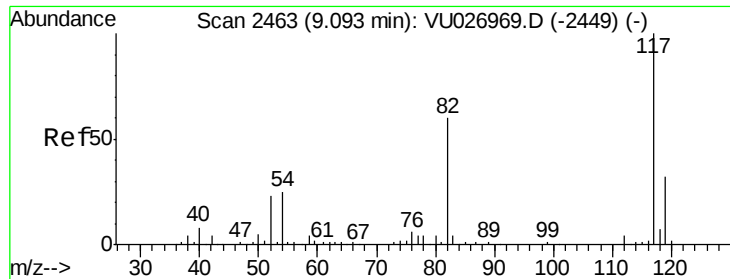
20000

0

10.30 10.31 10.40

Time-->

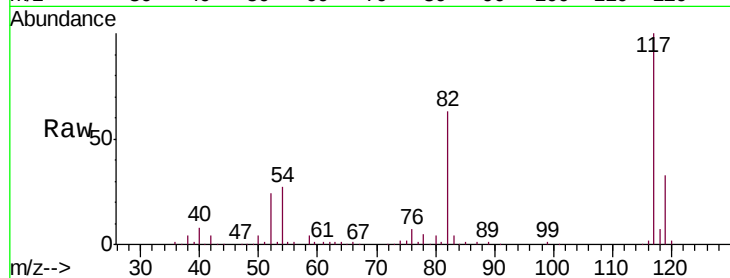




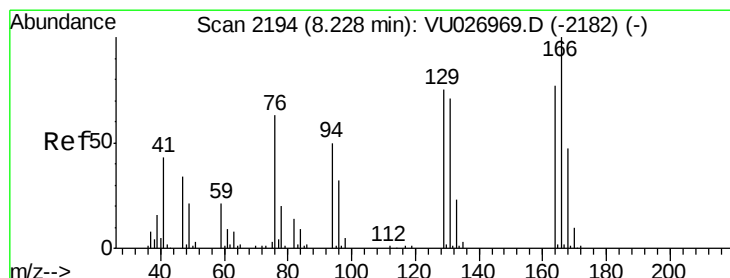
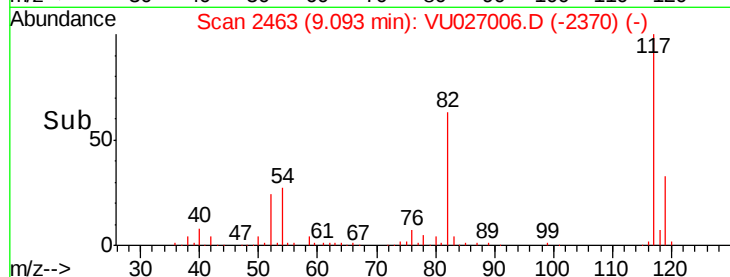
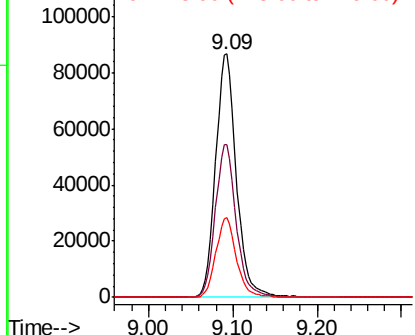
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: VU027006.D  
Acq: 22 Sep 2018 08:51

Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-HN-MW24S-20180914

Tgt Ion:117 Resp: 148342  
Ion Ratio Lower Upper  
117 100  
82 62.6 48.0 72.0  
119 32.6 25.8 38.8



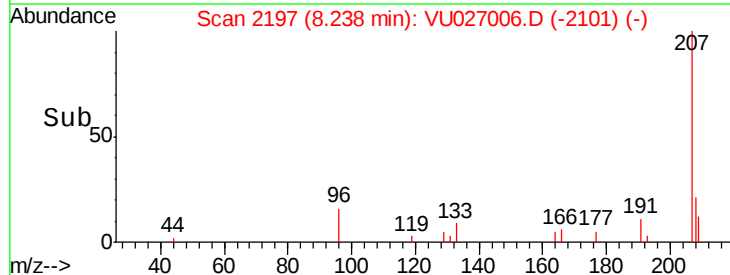
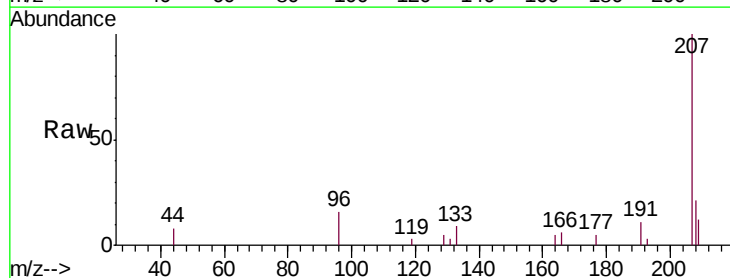
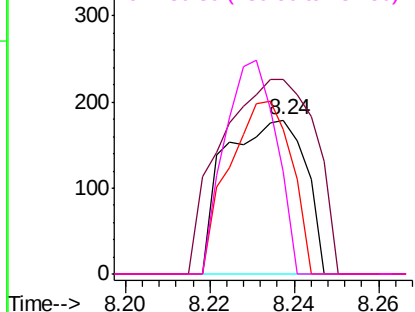
Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V

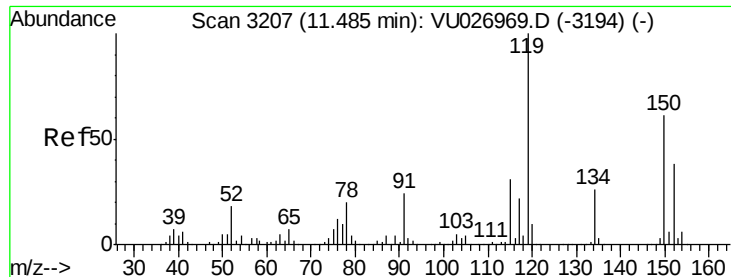


#64  
Tetrachloroethene  
Concen: 0.206 ug/l  
RT: 8.24 min Scan# 2197  
Delta R.T. 0.01 min  
Lab File: VU027006.D  
Acq: 22 Sep 2018 08:51

Tgt Ion:164 Resp: 236  
Ion Ratio Lower Upper  
164 100  
166 126.3 104.4 156.6  
129 93.9 78.7 118.1  
131 66.5 73.9 110.9#

Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): 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: VU027006.D

Acq: 22 Sep 2018 08:51

Instrument :

MSVOA\_U

ClientSampleId :

BPSI-HN-MW24S-20180914

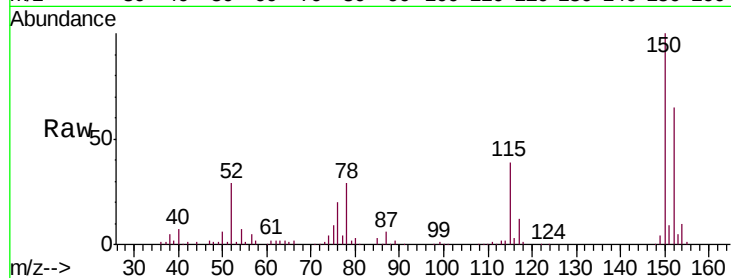
Tgt Ion: 152 Resp: 71689

Ion Ratio Lower Upper

152 100

115 59.6 44.9 134.5

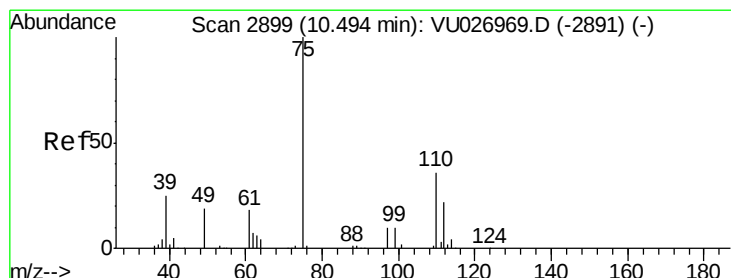
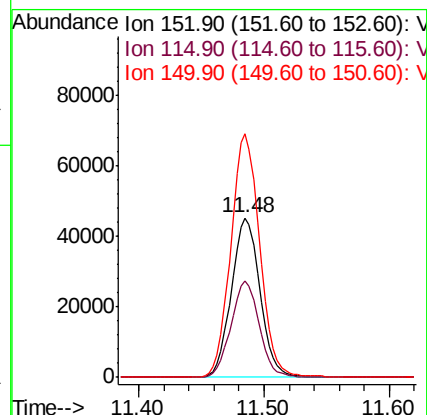
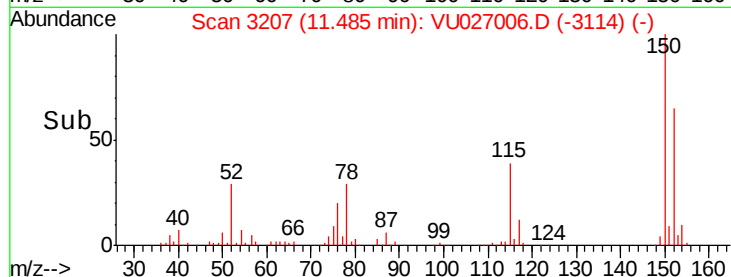
150 154.1 0.0 355.8



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: 20.344 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027006.D

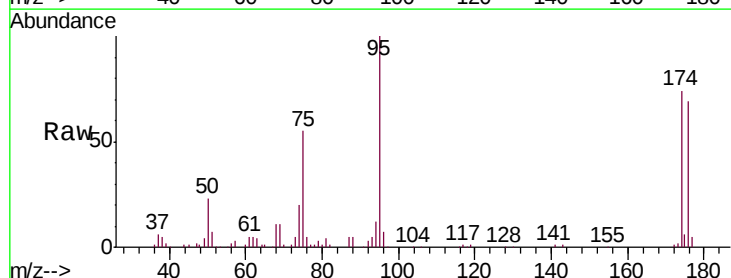
Acq: 22 Sep 2018 08:51

Tgt Ion: 75 Resp: 44307

Ion Ratio Lower Upper

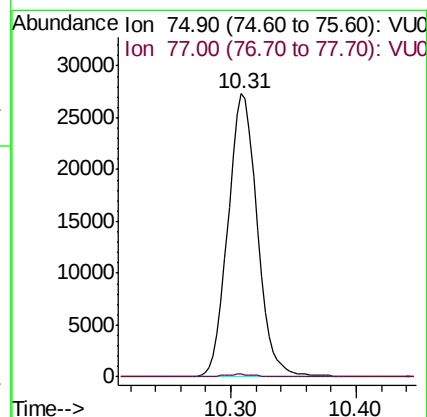
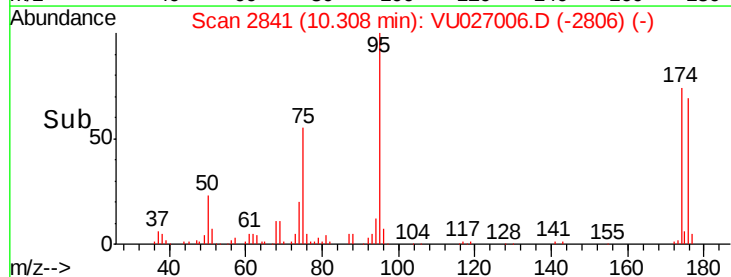
75 100

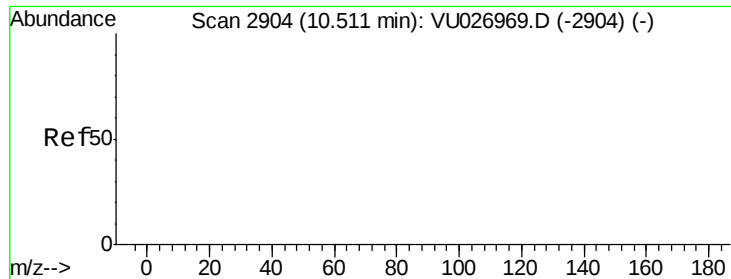
77 0.9 20.9 62.8#



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: 65.104 ug/l  
 RT: 10.31 min Scan# 2841  
 Delta R.T. -0.21 min  
 Lab File: VU027006.D  
 Acq: 22 Sep 2018 08:51

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BPSI-HN-MW24S-20180914

Tgt Ion: 75 Resp: 44307  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 0.0 0.0#  
 89 0.0 0.0 0.0

