

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU092418\  
 Data File : VU027097.D  
 Acq On : 24 Sep 2018 10:44  
 Operator : MD/SY  
 Sample : J4980-07  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BPSI-TT-MW308S-20180917

Quant Time: Sep 25 01:33:41 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  | 96887    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 161800   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 157634   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 73170    | 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   | 100281   | 51.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.86% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 69039    | 49.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.46%  |          |
| 50) Toluene-d8              | 7.57  | 98   | 263440   | 49.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.58%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 86740    | 47.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.60%  |          |

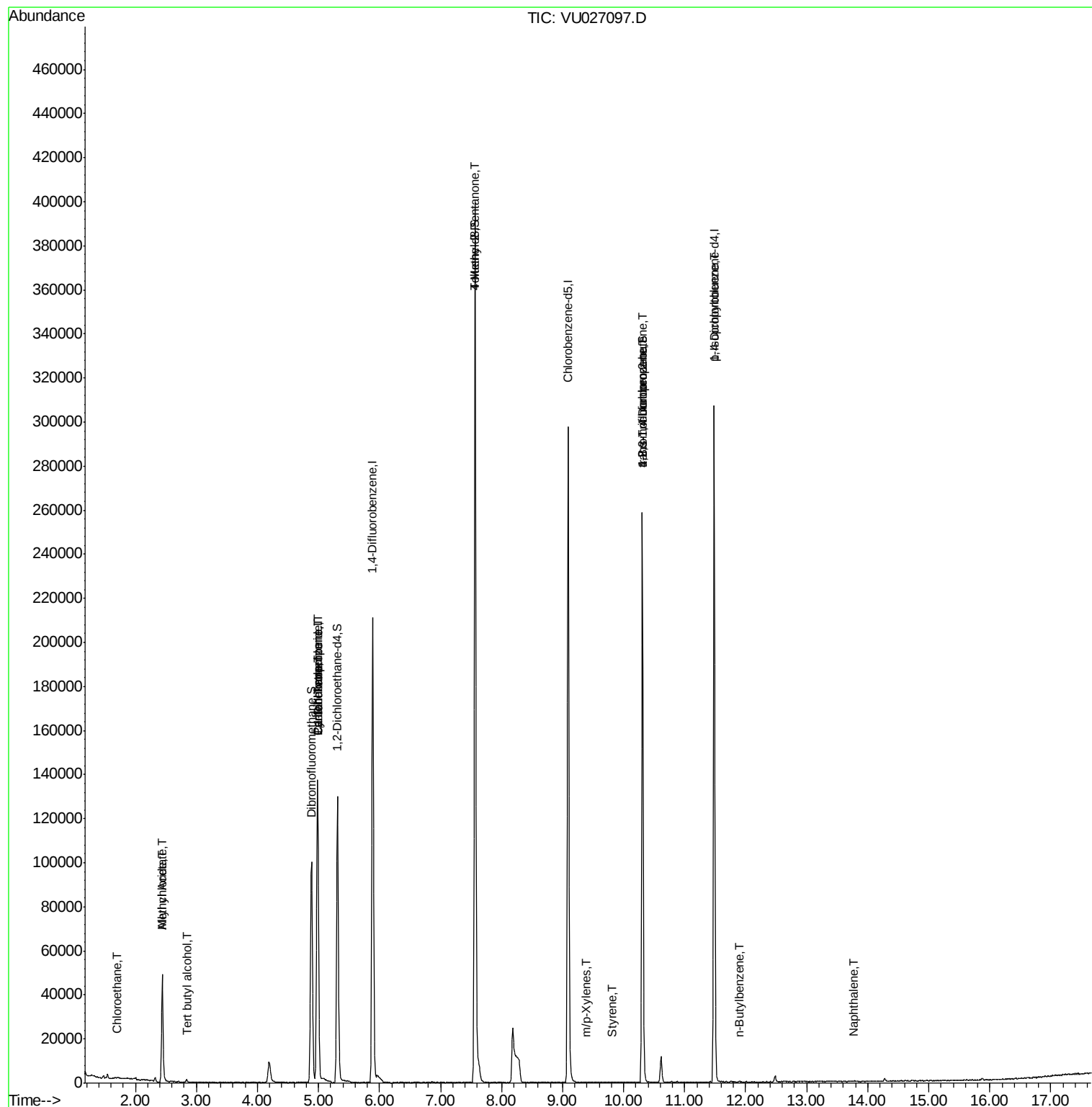
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.69  | 64   | 298      | 0.229     | ug/l # | 43     |
| 11) Tert butyl alcohol         | 2.84  | 59   | 855      | 1.913     | ug/l # | 72     |
| 14) Allyl chloride             | 2.44  | 41   | 4602     | 1.696     | ug/l # | 74     |
| 16) Acetone                    | 2.32  | 43   | 1936     | Below Cal | #      | 87     |
| 18) Methyl Acetate             | 2.44  | 43   | 12022    | 4.331     | ug/l # | 55     |
| 31) Cyclohexane                | 4.98  | 56   | 2558     | 0.309     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 8990     | 4.163     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 10298    | 5.011     | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 7.57  | 43   | 1423     | 0.496     | ug/l # | 1      |
| 68) m/p-Xylenes                | 9.38  | 106  | 21       | 1.508     | ug/l # | 1      |
| 70) Styrene                    | 9.80  | 104  | 97       | 1.830     | ug/l # | 24     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 47003    | 21.145    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 47003    | 67.668    | ug/l # | 100    |
| 86) p-Isopropyltoluene         | 11.48 | 119  | 71       | 0.941     | ug/l # | 1      |
| 89) n-Butylbenzene             | 11.89 | 91   | 269      | 2.443     | ug/l # | 60     |
| 95) Naphthalene                | 13.76 | 128  | 126      | 1.709     | ug/l # | 69     |

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

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BPSI-TT-MW308S-20180917

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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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027097.D

Acq: 24 Sep 2018 10:44

Instrument :

MSVOA\_U

ClientSampleId :

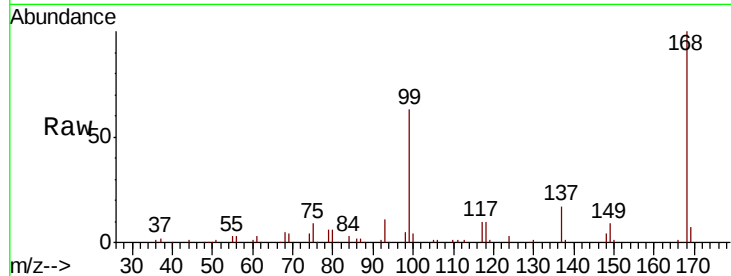
BPSI-TT-MW308S-20180917

Tgt Ion:168 Resp: 96887

Ion Ratio Lower Upper

168 100

99 63.0 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

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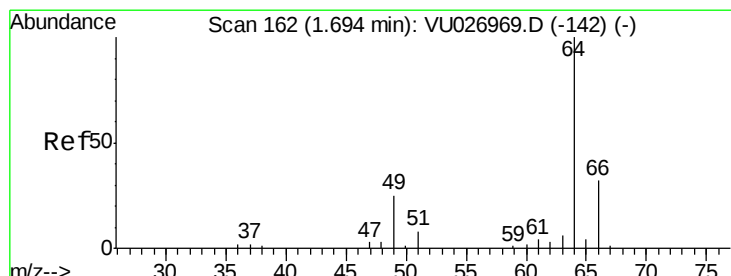
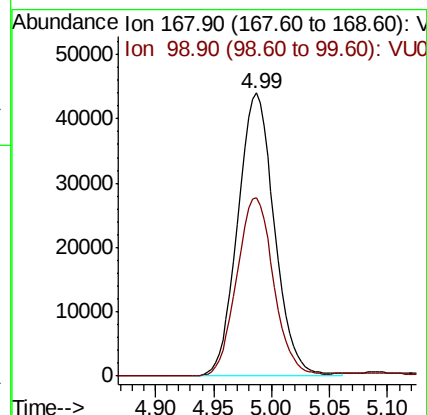
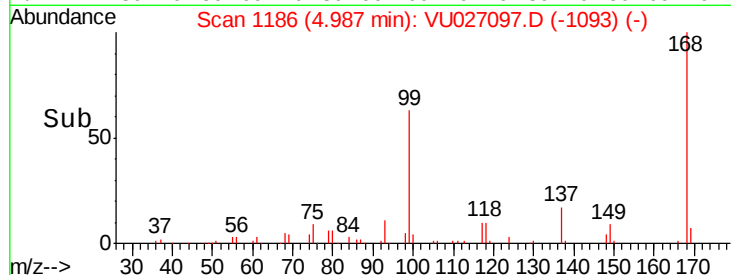
4.99

4.99

4.99

4.99

4.99



#6

Chloroethane

Concen: 0.229 ug/l

RT: 1.69 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU027097.D

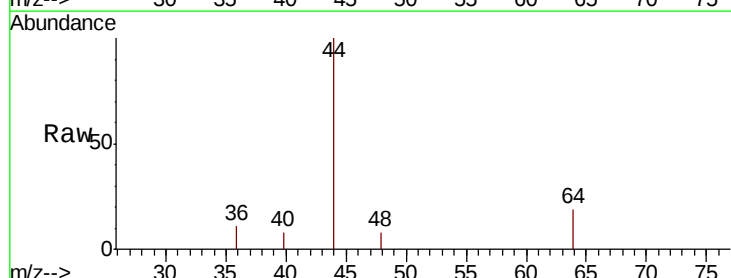
Acq: 24 Sep 2018 10:44

Tgt Ion: 64 Resp: 298

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VU026969.D (-142) (-)

Ion 65.90 (65.60 to 66.60): VU026969.D (-142) (-)

1.69

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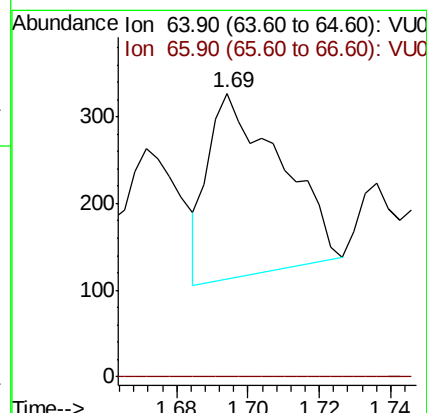
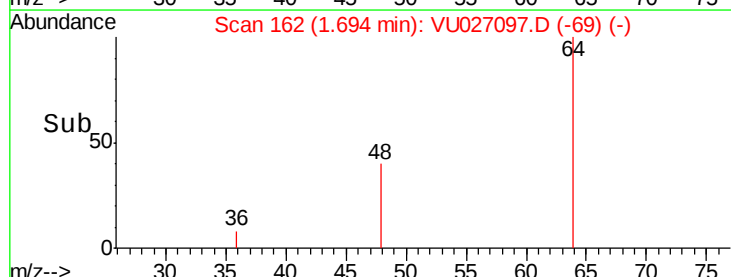
1.69

1.69

1.69

1.69

1.69



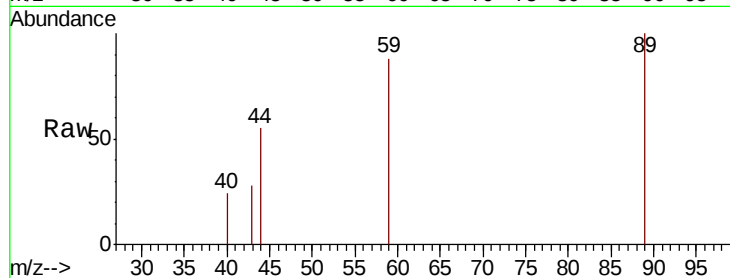


#11

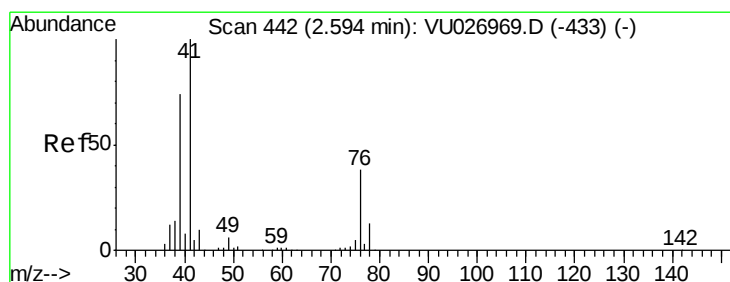
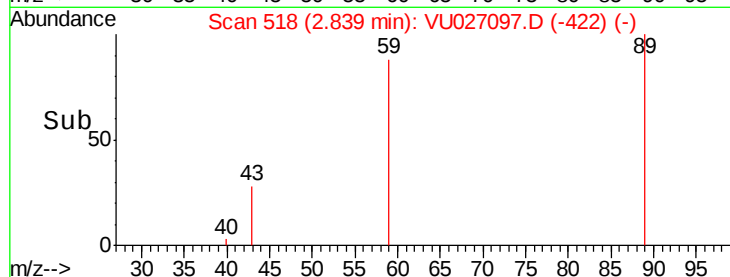
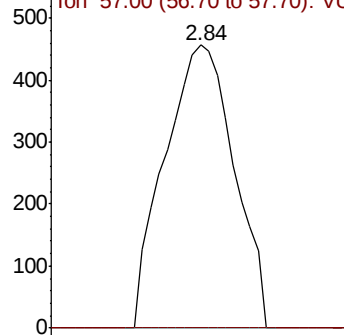
Tert butyl alcohol  
 Concen: 1.913 ug/l  
 RT: 2.84 min Scan# 518  
 Delta R.T. 0.01 min  
 Lab File: VU027097.D  
 Acq: 24 Sep 2018 10:44

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BPSI-TT-MW308S-20180917

Tgt Ion: 59 Resp: 855  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.5 12.7#



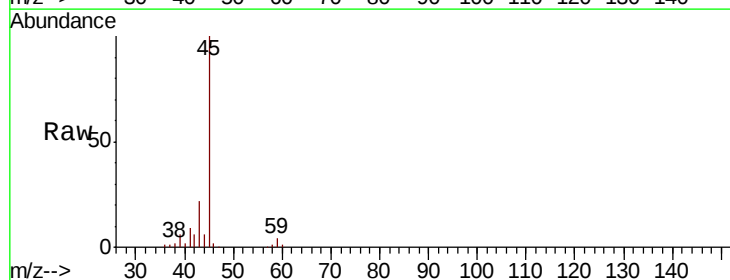
Abundance Ion 59.00 (58.70 to 59.70): VU027097.D (-518) (-)  
 Ion 57.00 (56.70 to 57.70): VU027097.D (-518) (-)



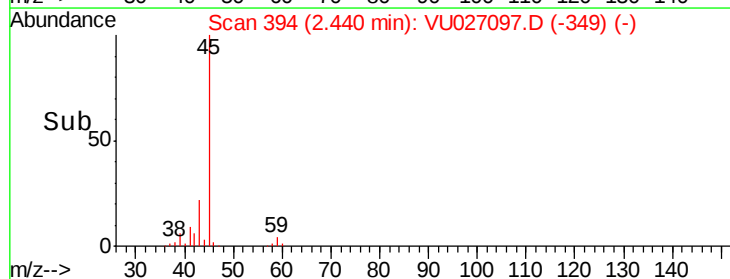
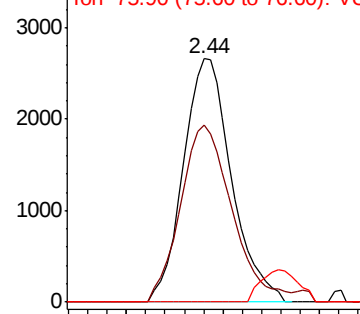
#14

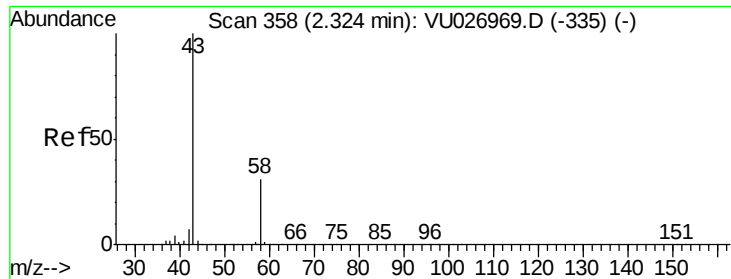
Allyl chloride  
 Concen: 1.696 ug/l  
 RT: 2.44 min Scan# 394  
 Delta R.T. -0.15 min  
 Lab File: VU027097.D  
 Acq: 24 Sep 2018 10:44

Tgt Ion: 41 Resp: 4602  
 Ion Ratio Lower Upper  
 41 100  
 39 78.1 55.7 83.5  
 76 0.0 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VU027097.D (-394) (-)  
 Ion 39.00 (38.70 to 39.70): VU027097.D (-394) (-)  
 Ion 75.90 (75.60 to 76.60): VU027097.D (-394) (-)





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027097.D

Acq: 24 Sep 2018 10:44

Instrument :

MSVOA\_U

ClientSampleId :

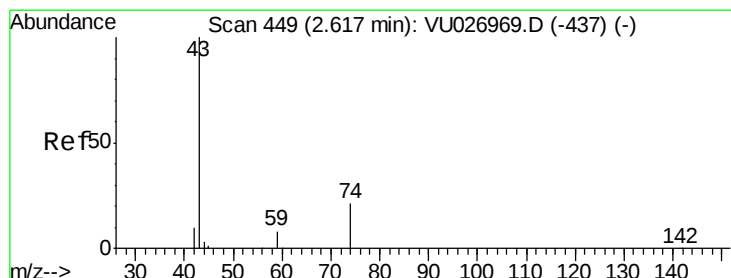
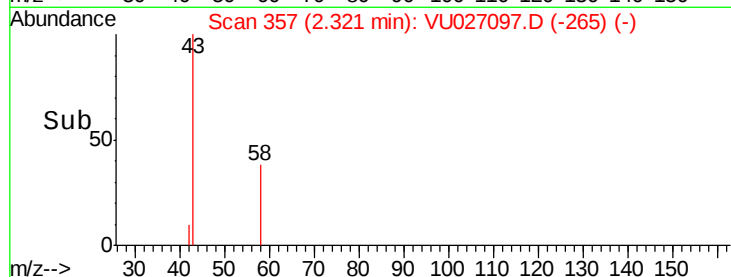
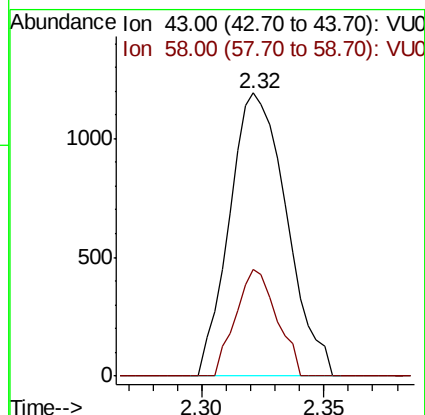
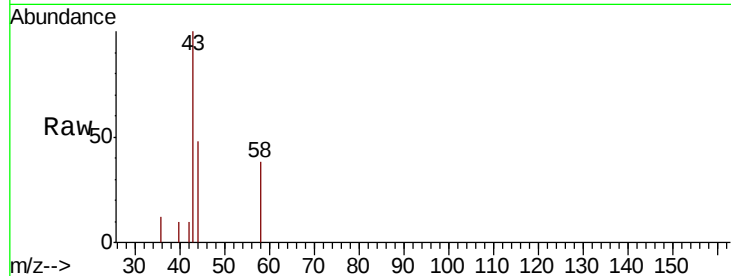
BPSI-TT-MW308S-20180917

Tgt Ion: 43 Resp: 1936

Ion Ratio Lower Upper

43 100

58 37.8 24.6 36.8#



#18

Methyl Acetate

Concen: 4.331 ug/l

RT: 2.44 min Scan# 394

Delta R.T. -0.18 min

Lab File: VU027097.D

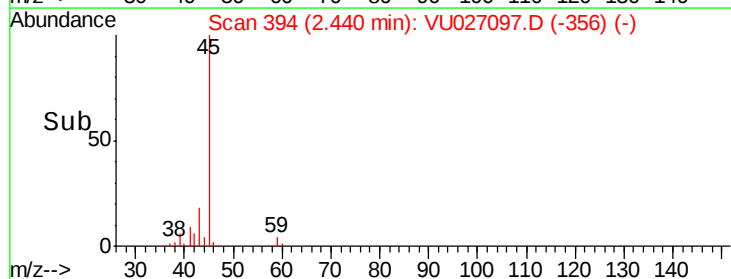
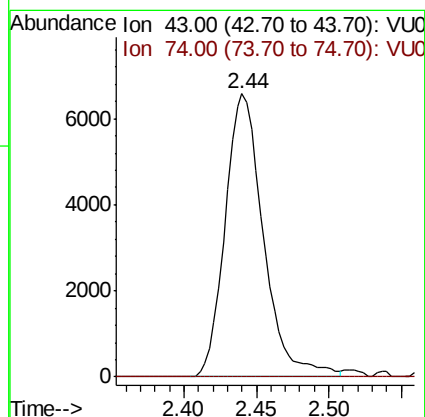
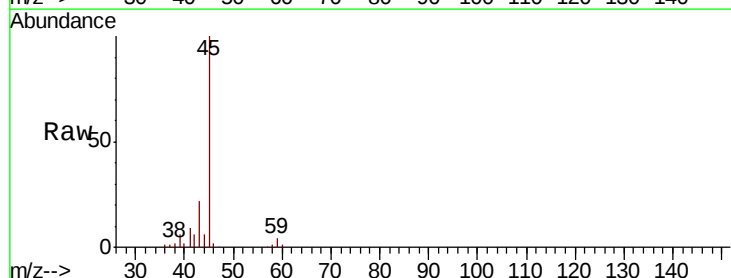
Acq: 24 Sep 2018 10:44

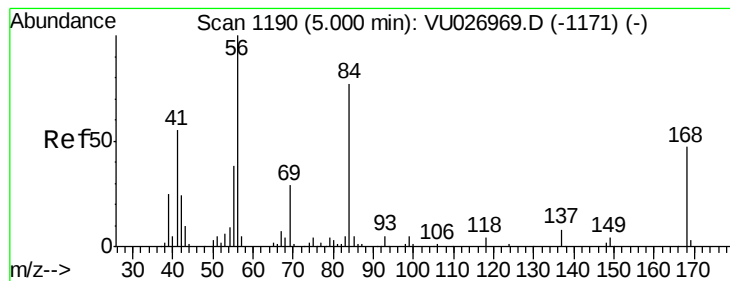
Tgt Ion: 43 Resp: 12022

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: VU027097.D

Acq: 24 Sep 2018 10:44

Instrument :

MSVOA\_U

ClientSampleId :

BPSI-TT-MW308S-20180917

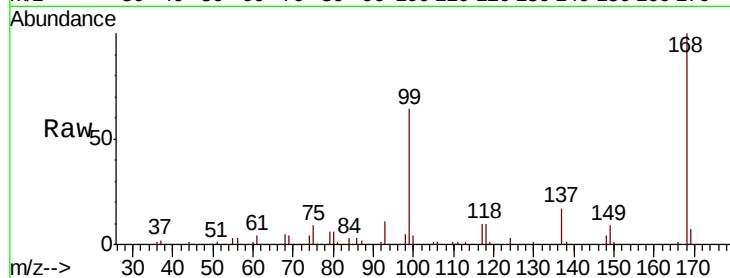
Tgt Ion: 56 Resp: 2558

Ion Ratio Lower Upper

56 100

69 162.2 23.0 34.4#

84 125.1 61.4 92.2#

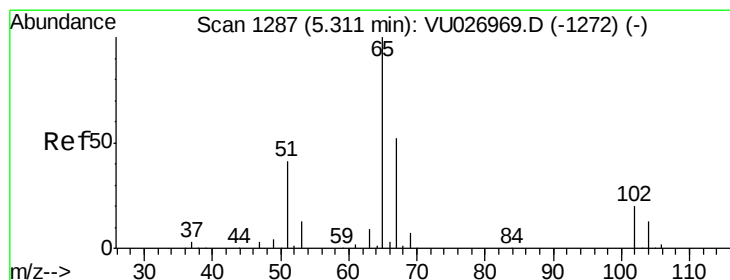
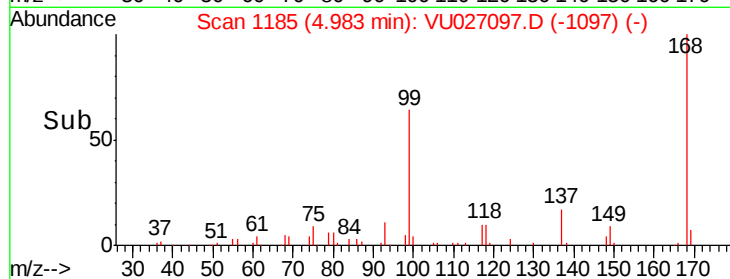
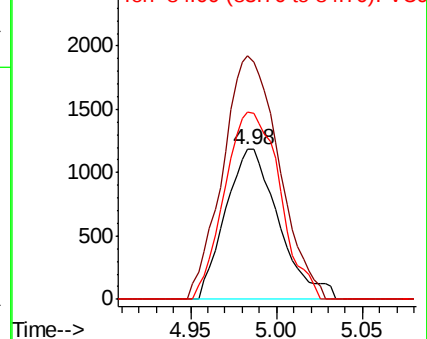


Abundance

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: 51.426 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027097.D

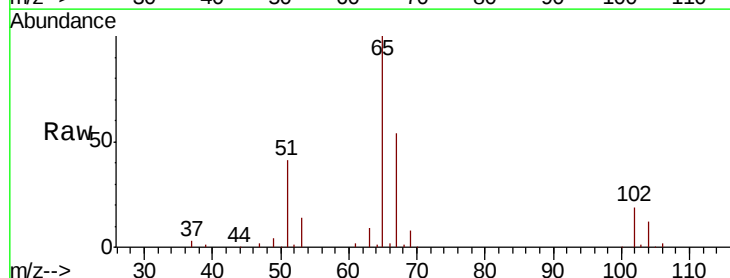
Acq: 24 Sep 2018 10:44

Tgt Ion: 65 Resp: 100281

Ion Ratio Lower Upper

65 100

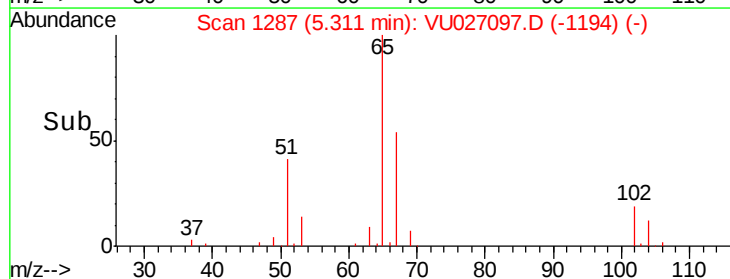
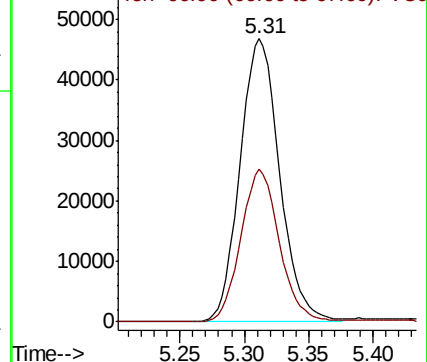
67 52.6 0.0 105.6

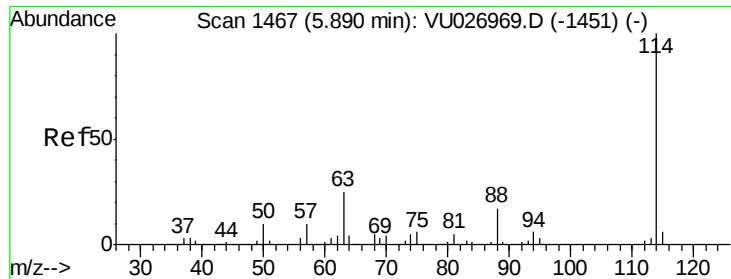


Abundance

Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

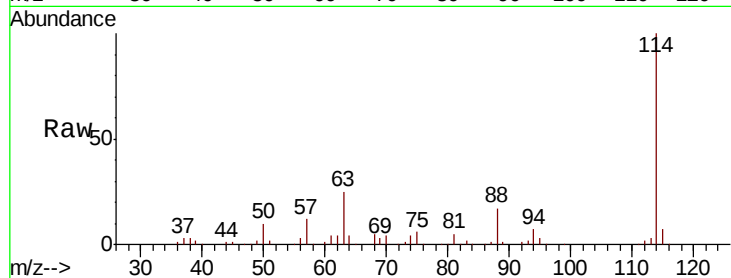




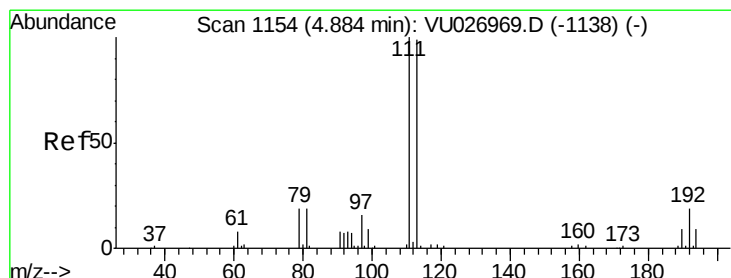
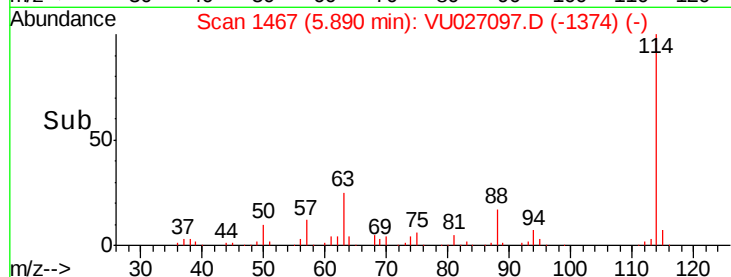
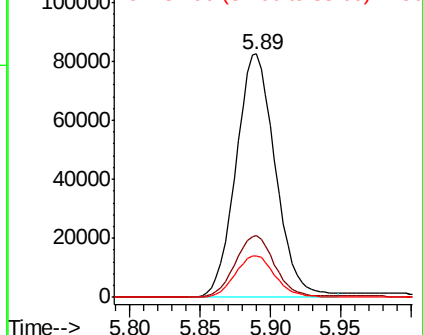
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027097.D  
 Acq: 24 Sep 2018 10:44

Instrument :  
 MSVOA\_U  
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 BPSI-TT-MW308S-20180917

Tgt Ion:114 Resp: 161800  
 Ion Ratio Lower Upper  
 114 100  
 63 25.2 0.0 49.2  
 88 17.2 0.0 33.8

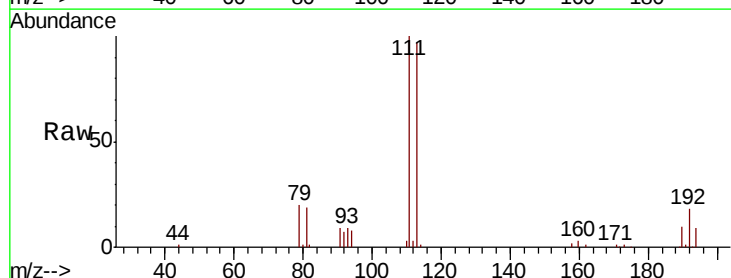


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

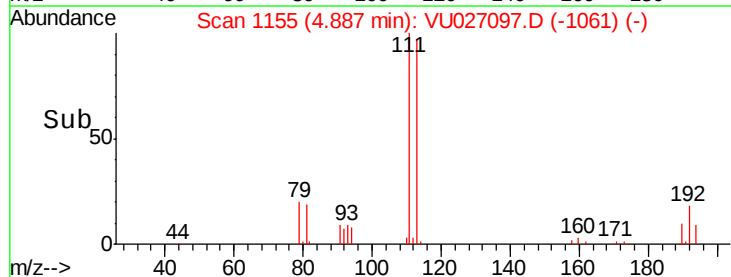
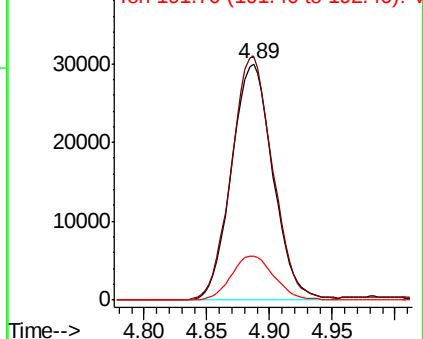


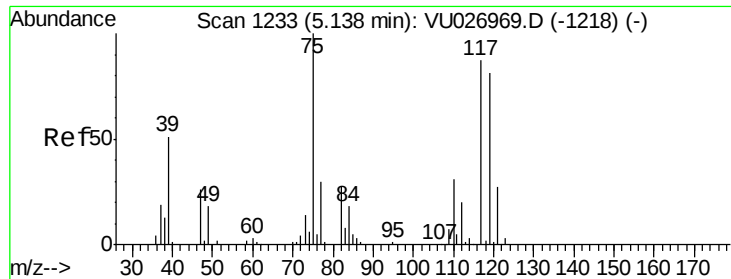
#35  
 Dibromofluoromethane  
 Concen: 49.226 ug/l  
 RT: 4.89 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VU027097.D  
 Acq: 24 Sep 2018 10:44

Tgt Ion:113 Resp: 69039  
 Ion Ratio Lower Upper  
 113 100  
 111 102.8 82.2 123.4  
 192 19.2 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

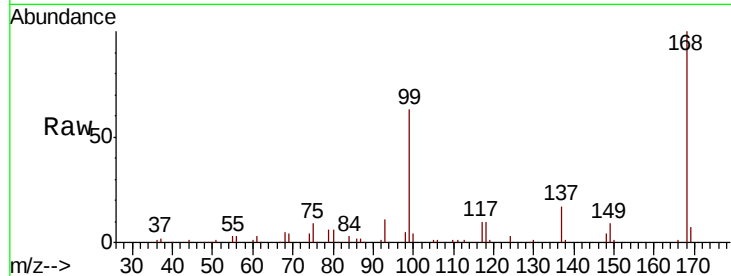




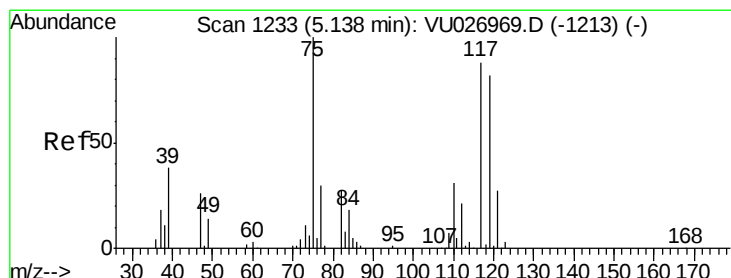
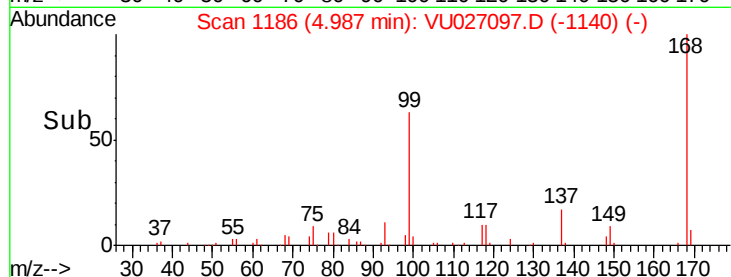
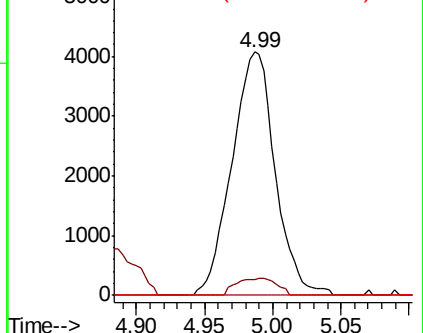
#36  
 1,1-Dichloropropene  
 Concen: 4.163 ug/l  
 RT: 4.99 min Scan# 1186  
 Delta R.T. -0.15 min  
 Lab File: VU027097.D  
 Acq: 24 Sep 2018 10:44

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BPSI-TT-MW308S-20180917

Tgt Ion: 75 Resp: 8990  
 Ion Ratio Lower Upper  
 75 100  
 110 6.6 16.1 48.2#  
 77 0.0 24.6 36.8#

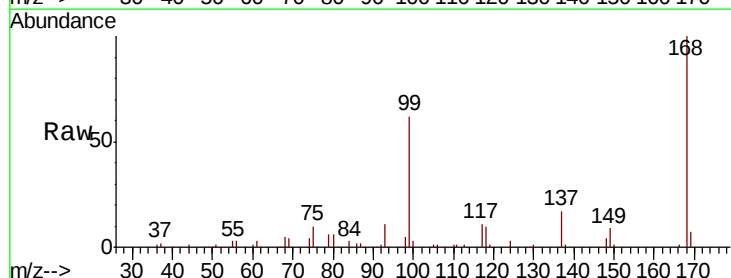


Abundance Ion 74.90 (74.60 to 75.60): VU0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VU0

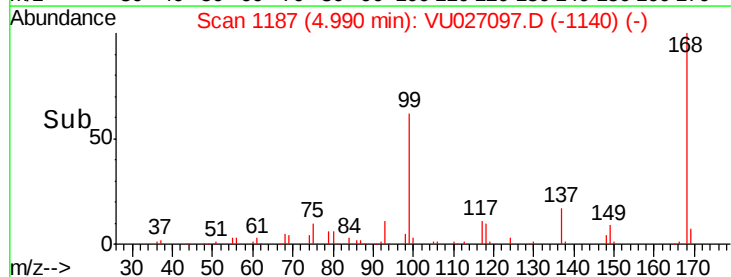
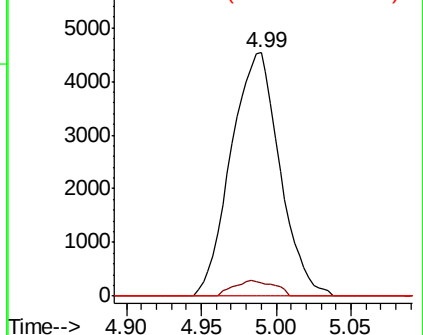


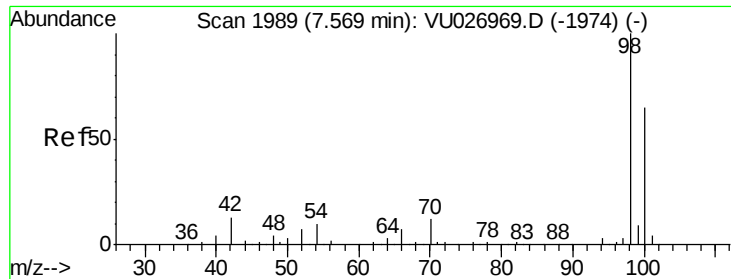
#38  
 Carbon Tetrachloride  
 Concen: 5.011 ug/l  
 RT: 4.99 min Scan# 1187  
 Delta R.T. -0.15 min  
 Lab File: VU027097.D  
 Acq: 24 Sep 2018 10:44

Tgt Ion: 117 Resp: 10298  
 Ion Ratio Lower Upper  
 117 100  
 119 5.3 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

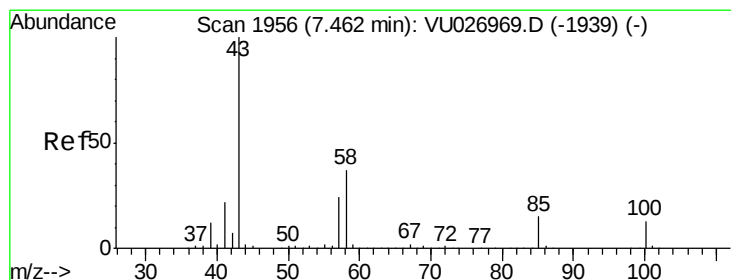
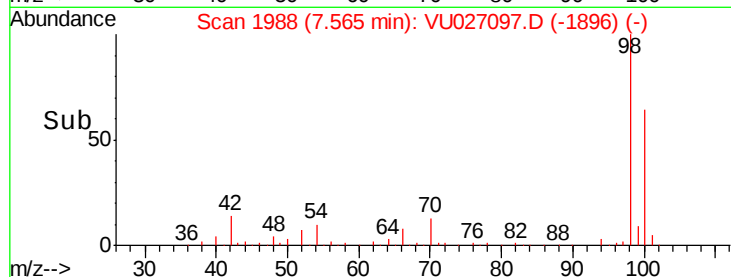
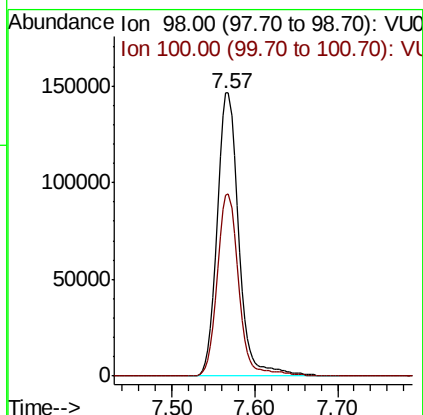
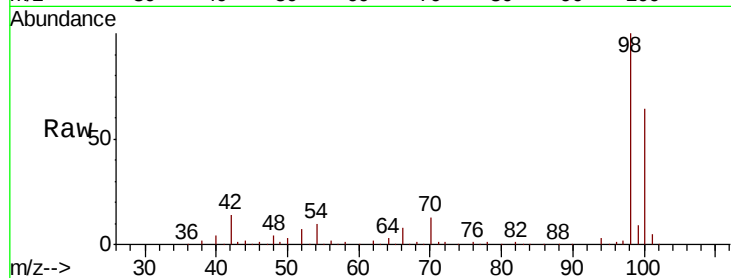




#50  
Toluene-d8  
Concen: 49.288 ug/l  
RT: 7.57 min Scan# 1988  
Delta R.T. -0.00 min  
Lab File: VU027097.D  
Acq: 24 Sep 2018 10:44

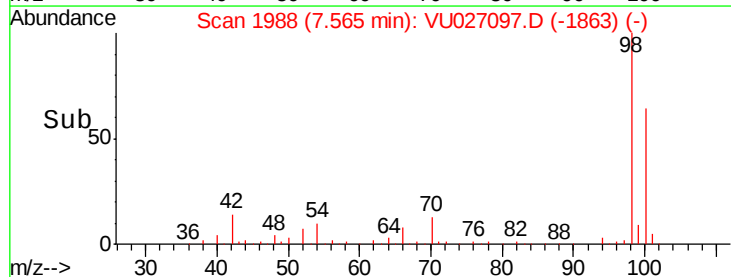
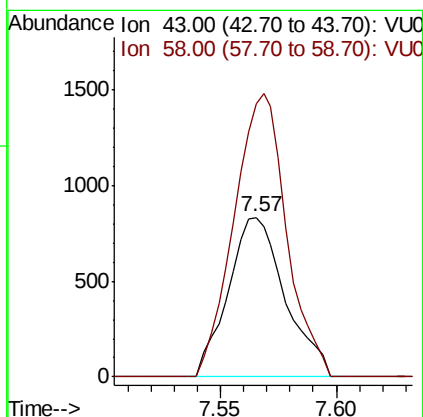
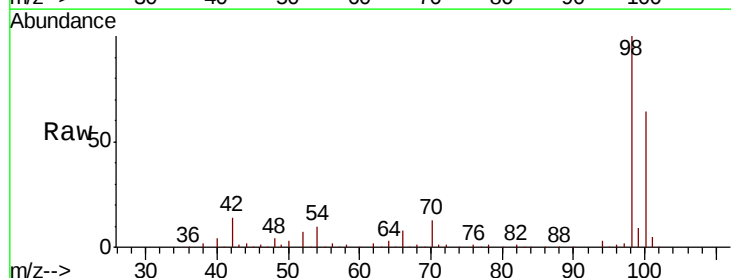
Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-TT-MW308S-20180917

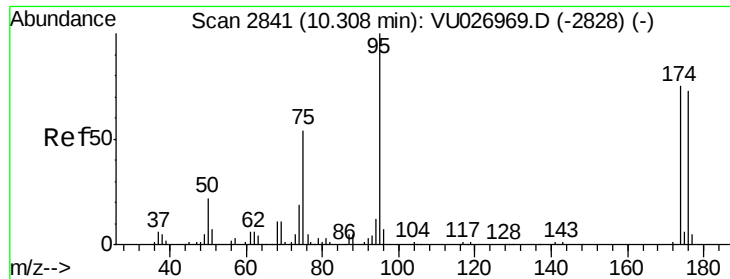
Tgt Ion: 98 Resp: 263440  
Ion Ratio Lower Upper  
98 100  
100 64.2 52.1 78.1



#51  
4-Methyl-2-Pentanone  
Concen: 0.496 ug/l  
RT: 7.57 min Scan# 1988  
Delta R.T. 0.10 min  
Lab File: VU027097.D  
Acq: 24 Sep 2018 10:44

Tgt Ion: 43 Resp: 1423  
Ion Ratio Lower Upper  
43 100  
58 164.0 29.8 44.6#

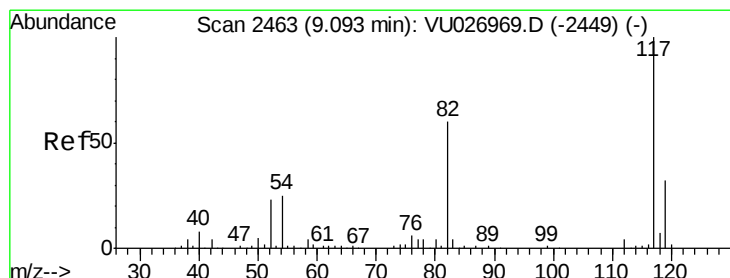
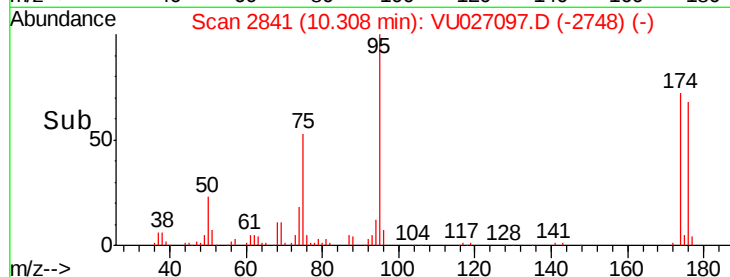
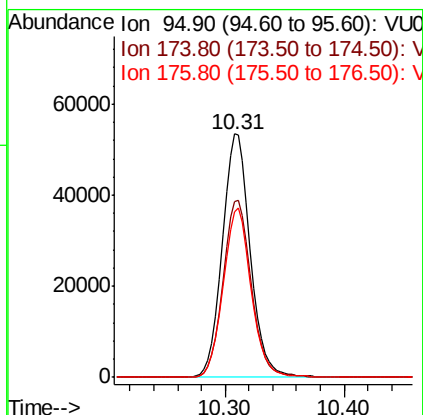
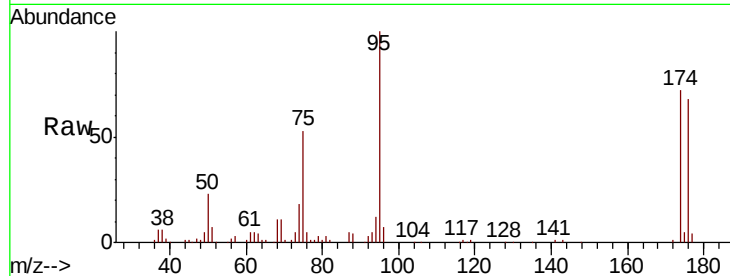




#62  
 4-Bromofluorobenzene  
 Concen: 47.295 ug/l  
 RT: 10.31 min Scan# 2841  
 Delta R.T. 0.00 min  
 Lab File: VU027097.D  
 Acq: 24 Sep 2018 10:44

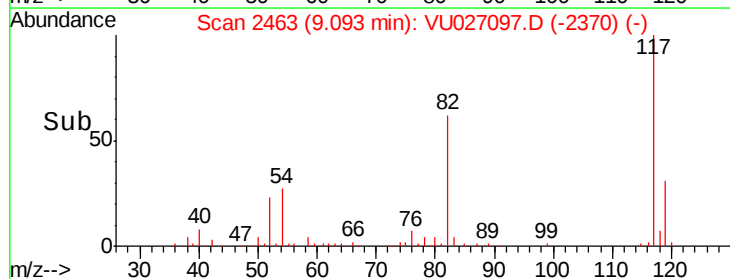
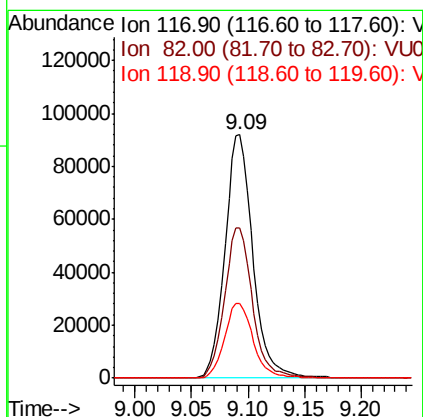
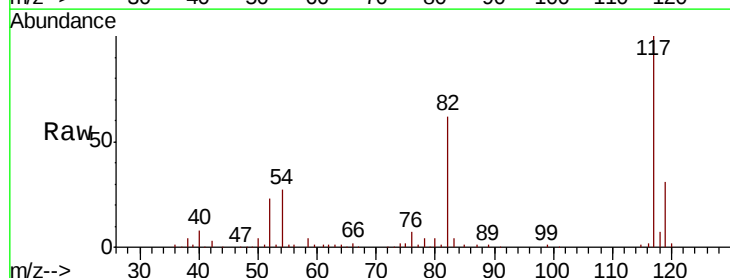
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BPSI-TT-MW308S-20180917

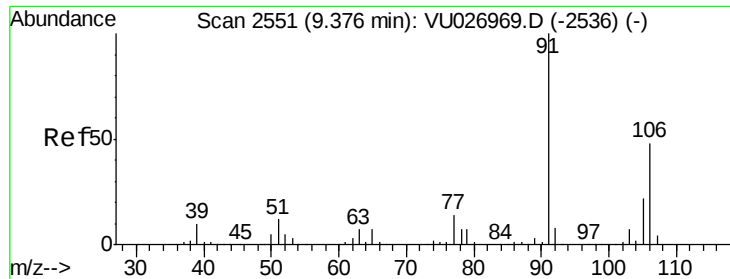
Tgt Ion: 95 Resp: 86740  
 Ion Ratio Lower Upper  
 95 100  
 174 73.5 0.0 150.2  
 176 69.8 0.0 145.2



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 9.09 min Scan# 2463  
 Delta R.T. 0.00 min  
 Lab File: VU027097.D  
 Acq: 24 Sep 2018 10:44

Tgt Ion: 117 Resp: 157634  
 Ion Ratio Lower Upper  
 117 100  
 82 61.8 48.0 72.0  
 119 30.6 25.8 38.8

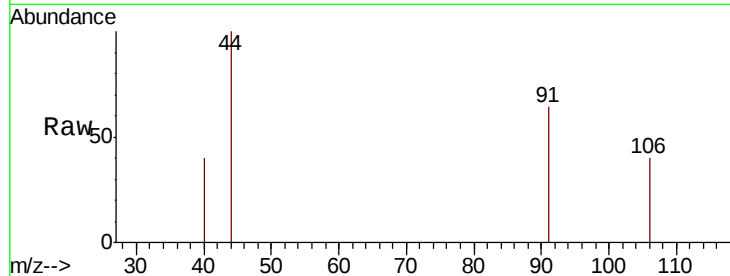




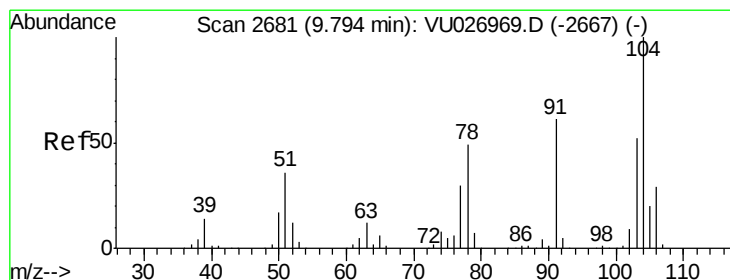
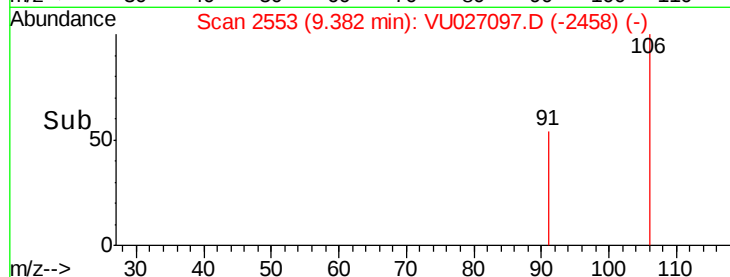
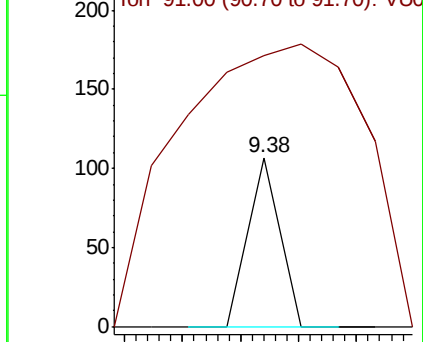
#68  
m/p-Xylenes  
Concen: 1.508 ug/l  
RT: 9.38 min Scan# 2553  
Delta R.T. 0.01 min  
Lab File: VU027097.D  
Acq: 24 Sep 2018 10:44

Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-TT-MW308S-20180917

Tgt Ion:106 Resp: 21  
Ion Ratio Lower Upper  
106 100  
91 942.9 166.5 249.7#

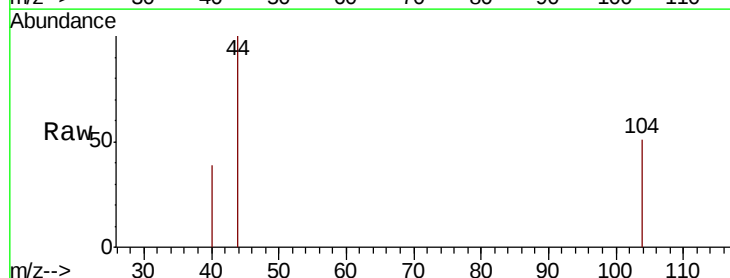


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VU0

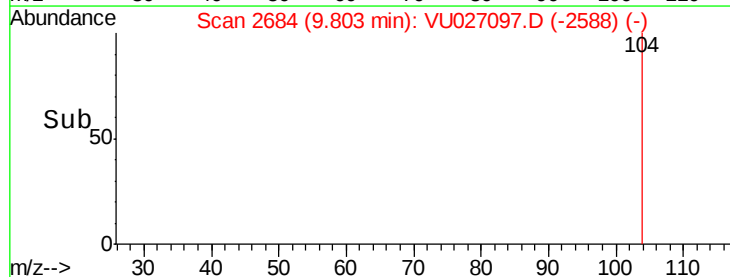
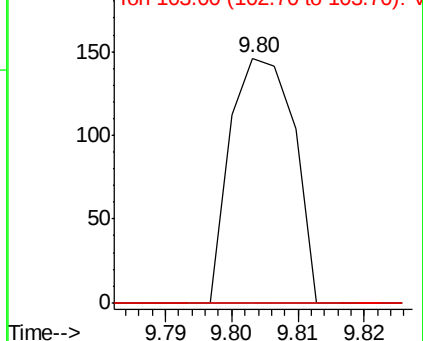


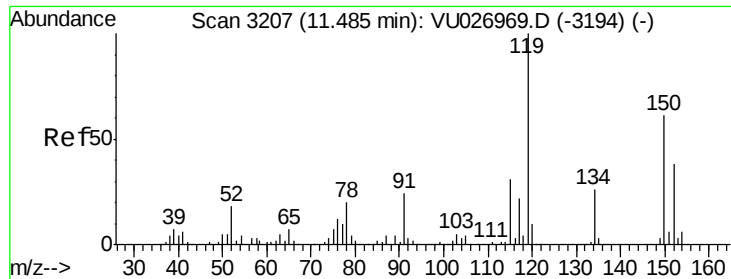
#70  
Styrene  
Concen: 1.830 ug/l  
RT: 9.80 min Scan# 2684  
Delta R.T. 0.01 min  
Lab File: VU027097.D  
Acq: 24 Sep 2018 10:44

Tgt Ion:104 Resp: 97  
Ion Ratio Lower Upper  
104 100  
78 0.0 43.0 64.4#  
103 0.0 44.1 66.1#



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VU0  
Ion 103.00 (102.70 to 103.70): 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: VU027097.D

Acq: 24 Sep 2018 10:44

Instrument :

MSVOA\_U

ClientSampleId :

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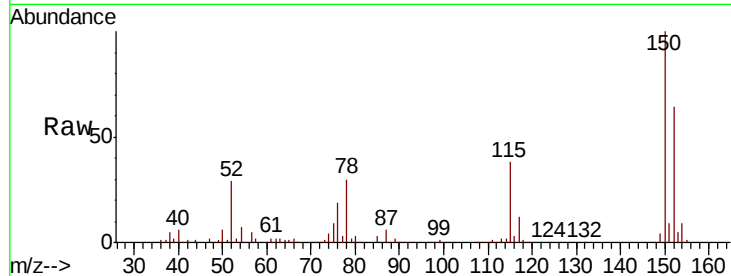
Tgt Ion:152 Resp: 73170

Ion Ratio Lower Upper

152 100

115 61.5 44.9 134.5

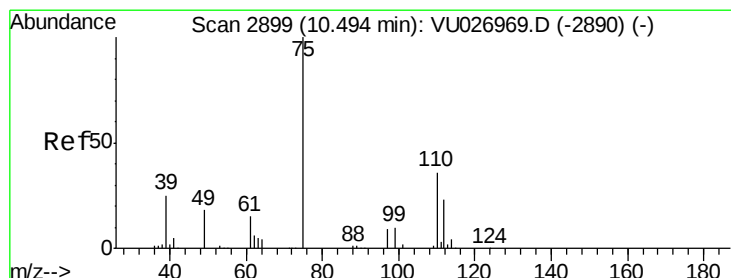
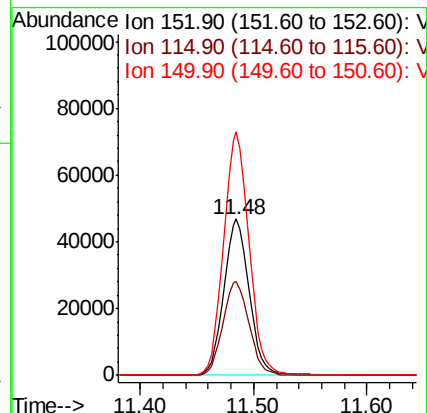
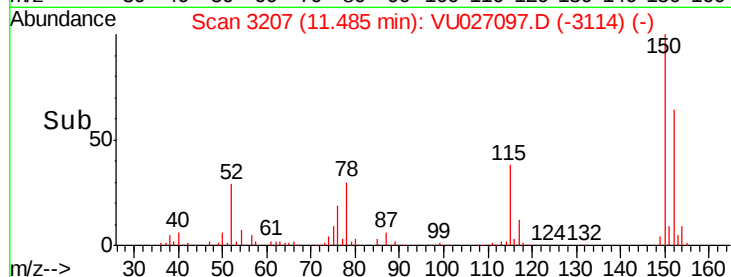
150 156.7 0.0 355.8



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: 21.145 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027097.D

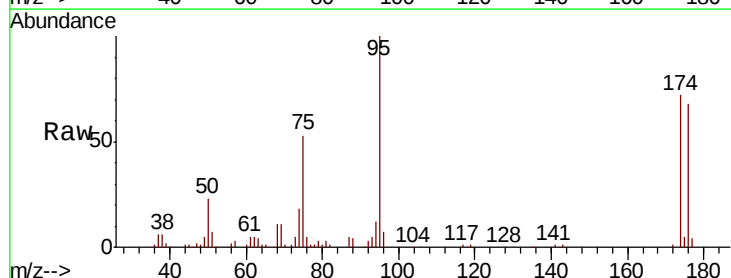
Acq: 24 Sep 2018 10:44

Tgt Ion: 75 Resp: 47003

Ion Ratio Lower Upper

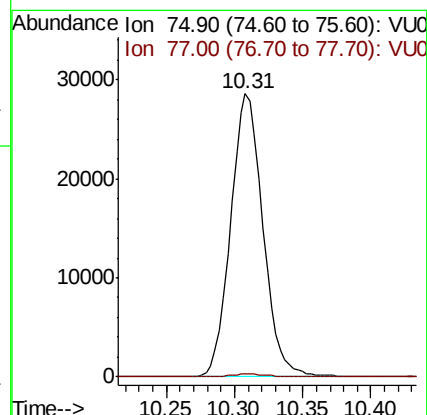
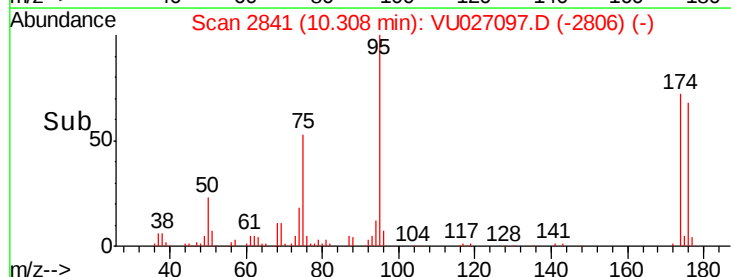
75 100

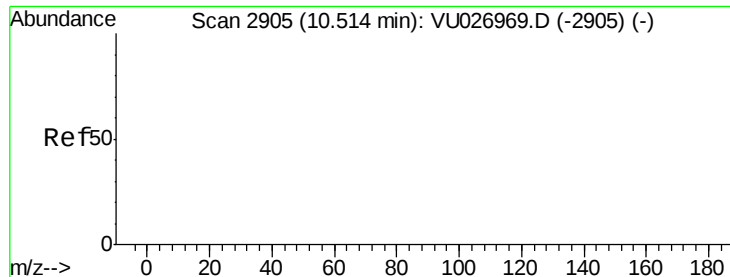
77 1.0 20.9 62.8#



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: 67.668 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027097.D

Acq: 24 Sep 2018 10:44

Instrument :

MSVOA\_U

ClientSampleId :

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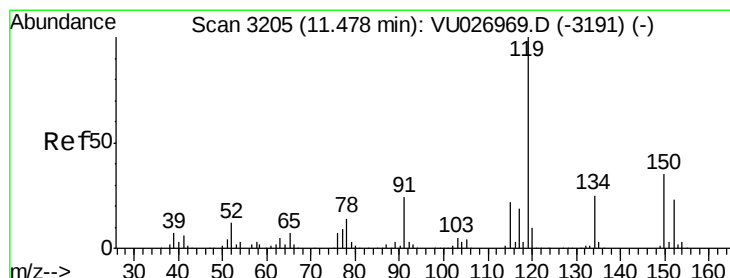
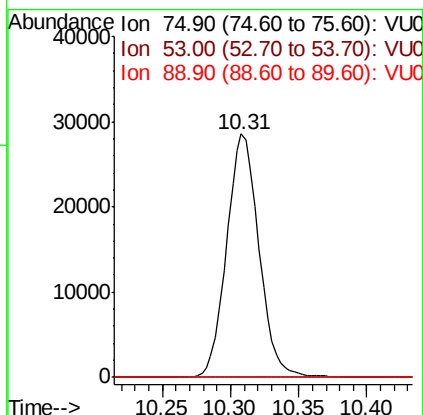
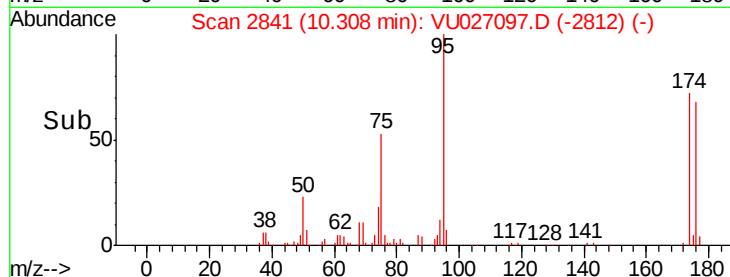
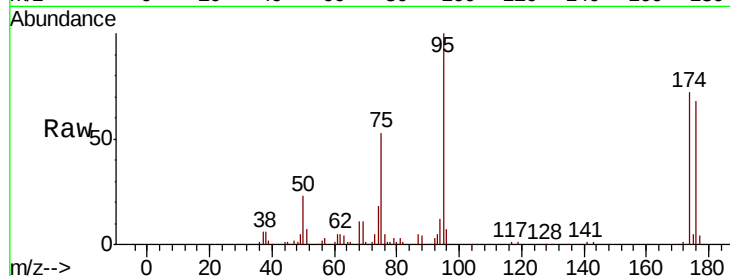
Tgt Ion: 75 Resp: 47003

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



#86

p-Isopropyltoluene

Concen: 0.941 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.01 min

Lab File: VU027097.D

Acq: 24 Sep 2018 10:44

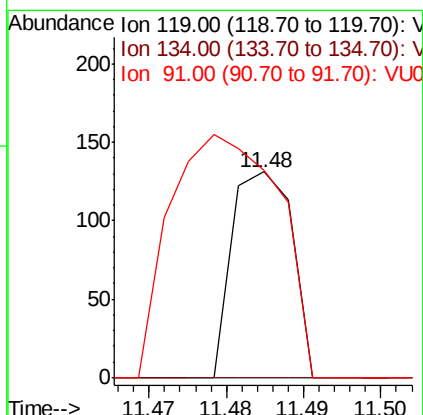
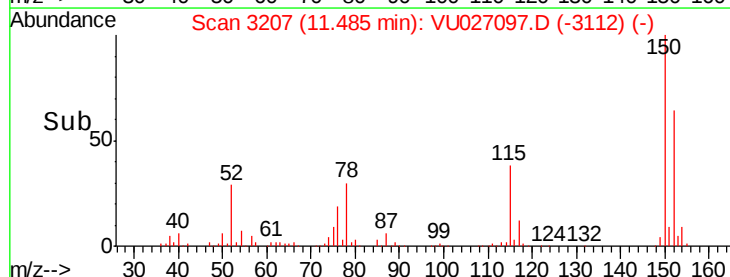
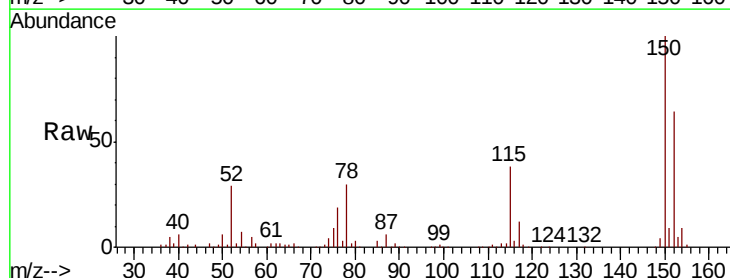
Tgt Ion: 119 Resp: 71

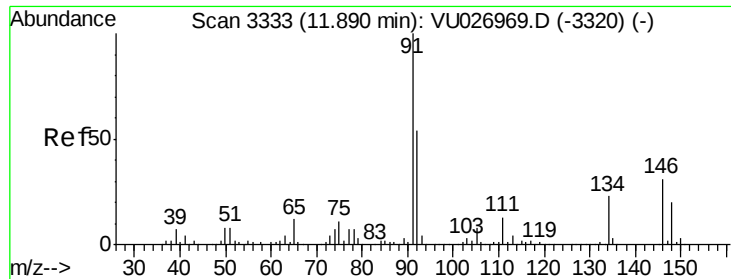
Ion Ratio Lower Upper

119 100

134 0.0 12.8 38.3#

91 214.1 12.3 36.8#





#89

n-Butylbenzene

Concen: 2.443 ug/l

RT: 11.89 min Scan# 3333

Delta R.T. 0.00 min

Lab File: VU027097.D

Acq: 24 Sep 2018 10:44

Instrument :

MSVOA\_U

ClientSampleId :

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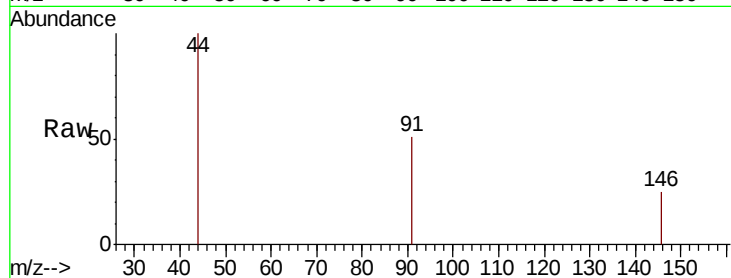
Tgt Ion: 91 Resp: 269

Ion Ratio Lower Upper

91 100

92 27.5 27.1 81.2

134 0.0 11.7 35.0#

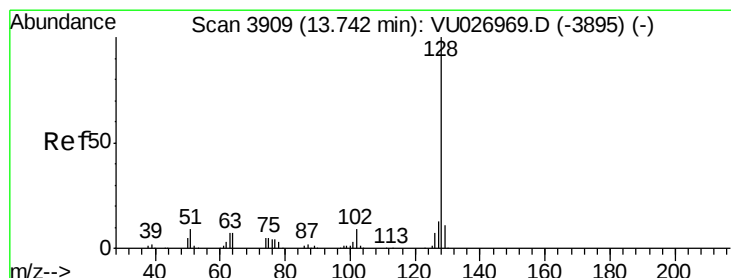
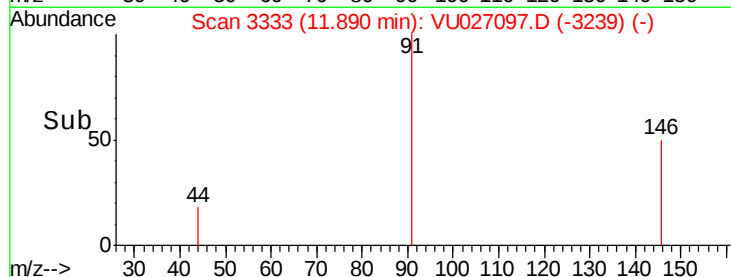


Abundance Ion 91.00 (90.70 to 91.70): VU027097.D (-3320) (-)

Ion 92.00 (91.70 to 92.70): VU027097.D (-3320) (-)

Ion 134.00 (133.70 to 134.70): VU027097.D (-3320) (-)

Time--> 11.86 11.88 11.90 11.92



#95

Naphthalene

Concen: 1.709 ug/l

RT: 13.76 min Scan# 3915

Delta R.T. 0.02 min

Lab File: VU027097.D

Acq: 24 Sep 2018 10:44

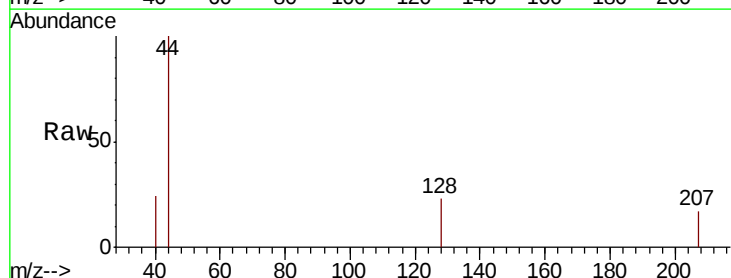
Tgt Ion: 128 Resp: 126

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU027097.D (-3895) (-)

Ion 127.00 (126.70 to 127.70): VU027097.D (-3895) (-)

Ion 129.00 (128.70 to 129.70): VU027097.D (-3895) (-)

Time--> 13.74 13.76 13.78

