

Data File : VU029319.D
Acq On : 30 Jan 2019 16:40
Operator : JC/SP
Sample : K1161-09
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PT-THM-WS

Quant Time: Jan 31 06:26:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U012919DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Jan 30 09:13:14 2019
Response via : Initial Calibration

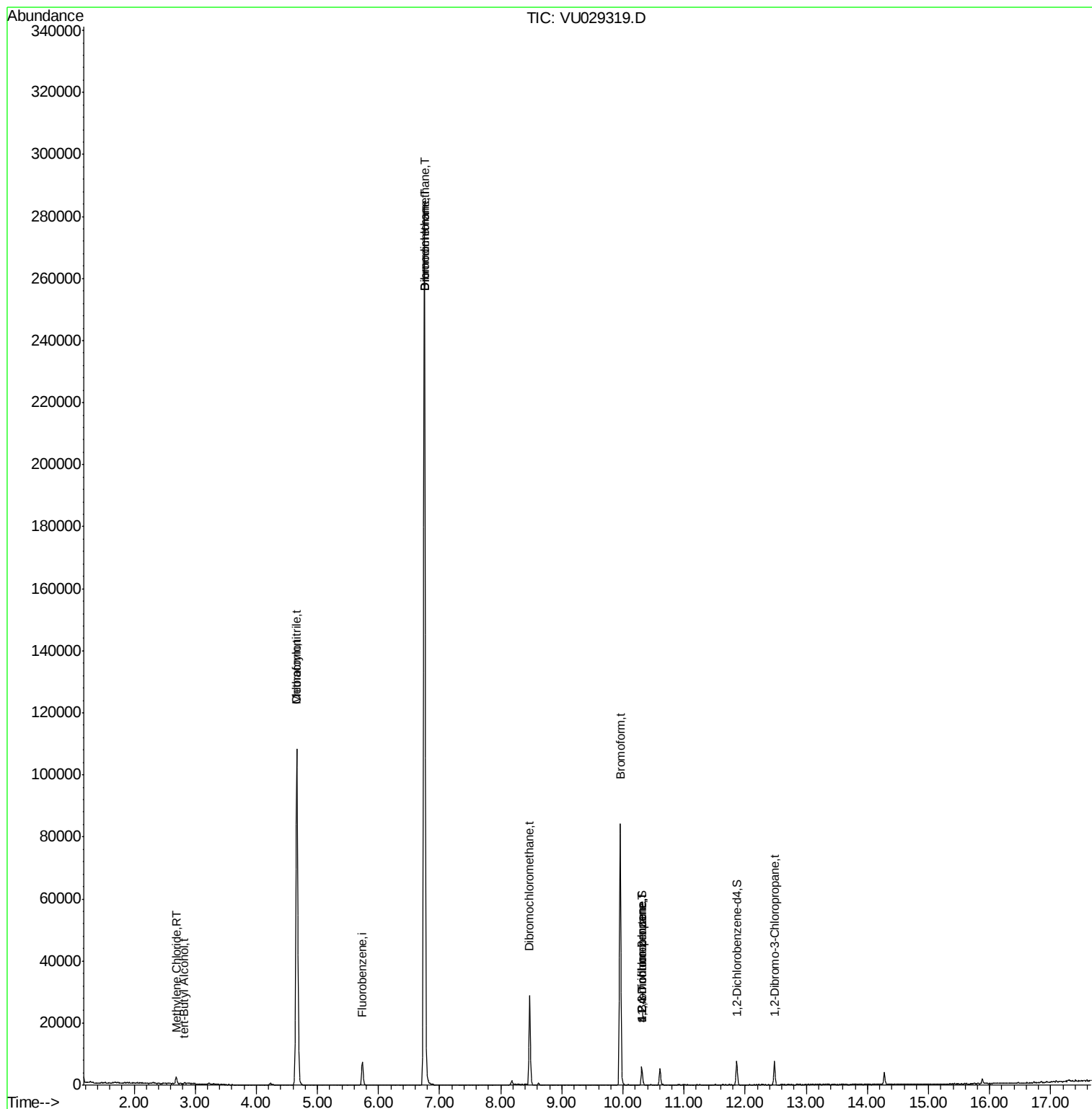
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.74	96	7257	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	2302	0.81	ug/l	0.00
Spiked Amount 1.000			Recovery	=	81.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	2470	0.87	ug/l	0.00
Spiked Amount 1.000			Recovery	=	87.00%	
Target Compounds						
					Qvalue	
15) Methylene Chloride	2.68	84	780	0.295	ug/l #	74
24) tert-Butyl Alcohol	2.82	59	142	0.562	ug/l #	71
27) Chloroform	4.66	83	98700	20.208	ug/l	99
39) Methacrylonitrile	4.67	41	306	0.331	ug/l #	25
43) Dibromomethane	6.75	93	6111	4.837	ug/l #	4
44) Bromodichloromethane	6.75	83	182379	49.621	ug/l	97
46) t-1,4-Dichloro-2-butene	10.31	75	1326	2.251	ug/l #	13
55) Dibromochloromethane	8.47	129	14631	6.556	ug/l	98
67) Bromoform	9.95	173	37275	28.878	ug/l	100
71) 1,2,3-Trichloropropane	10.31	75	1326	0.706	ug/l #	49
86) 1,2-Dibromo-3-Chloropropan	12.48	75	142	0.350	ug/l #	11

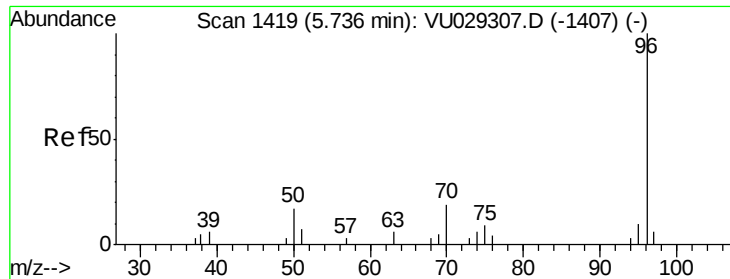
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1419

Delta R.T. 0.00 min

Lab File: VU029319.D

Acq: 30 Jan 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

PT-THM-WS

Tgt Ion: 96 Resp: 7257

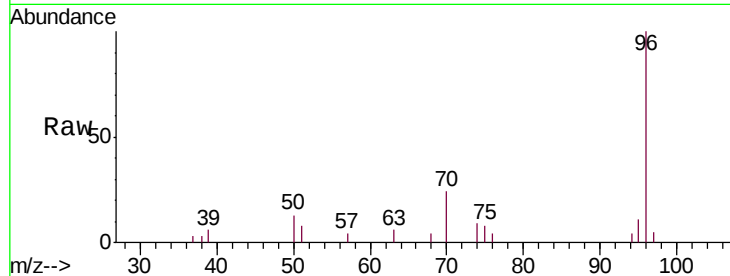
Ion Ratio Lower Upper

96 100

70 21.0 16.2 24.2

95 7.9 7.4 11.2

97 4.6 0.0 0.0#

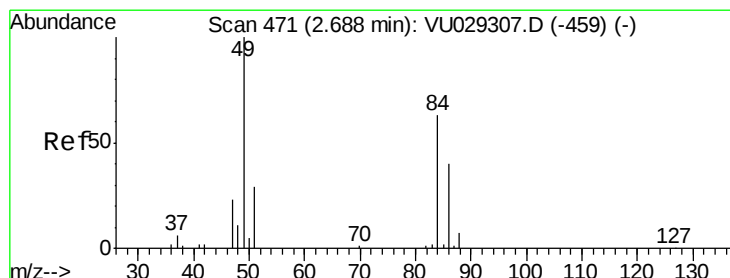
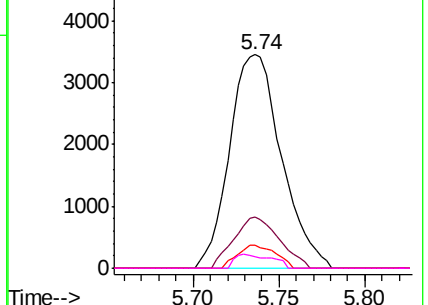
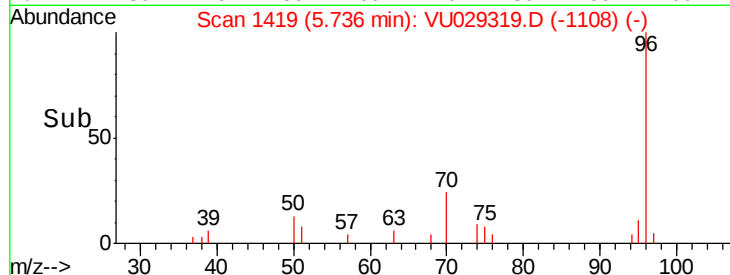


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#15

Methylene Chloride

Concen: 0.295 ug/l

RT: 2.68 min Scan# 470

Delta R.T. -0.00 min

Lab File: VU029319.D

Acq: 30 Jan 2019 16:40

Tgt Ion: 84 Resp: 780

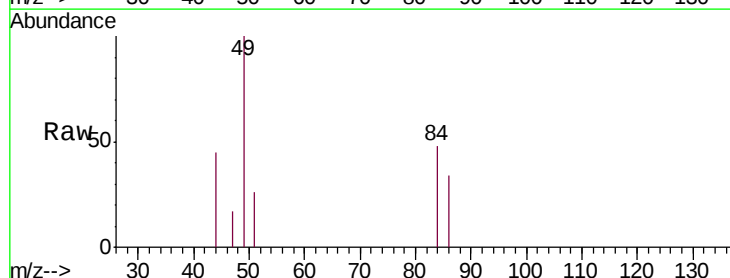
Ion Ratio Lower Upper

84 100

49 207.5 127.0 190.6#

51 54.1 0.0 93.4

86 69.5 50.6 75.8

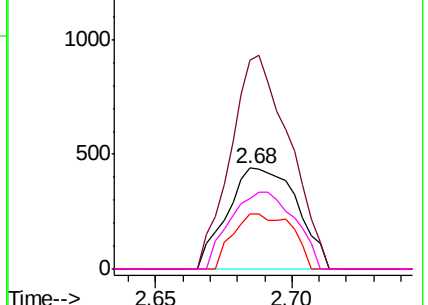
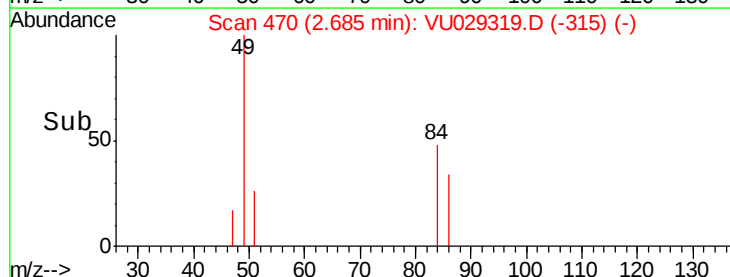


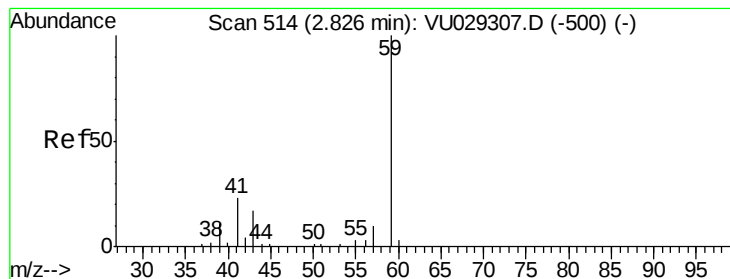
Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

Ion 51.00 (50.70 to 51.70): VU0

Ion 86.00 (85.70 to 86.70): VU0





#24

tert-Butyl Alcohol

Concen: 0.562 ug/l

RT: 2.82 min Scan# 513

Delta R.T. -0.00 min

Lab File: VU029319.D

Acq: 30 Jan 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

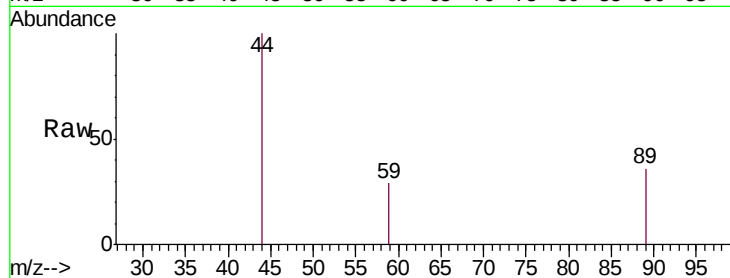
PT-THM-WS

Tgt Ion: 59 Resp: 142

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.82

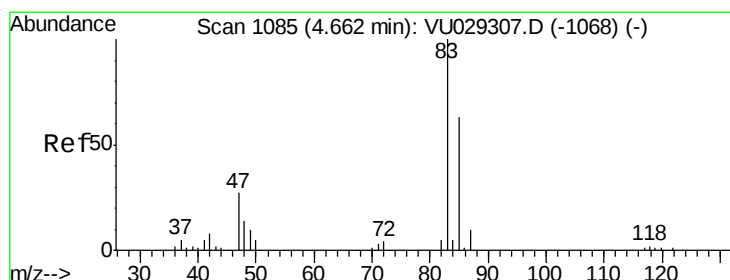
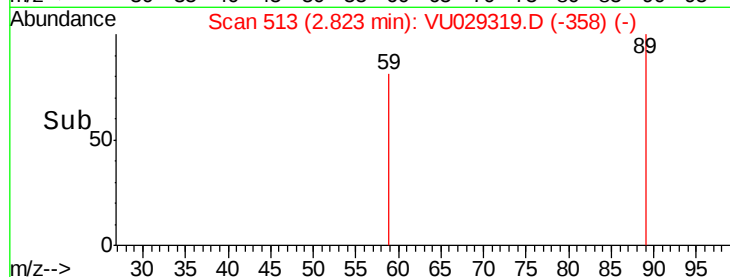
150

100

50

0

Time-->



#27

Chloroform

Concen: 20.208 ug/l

RT: 4.66 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VU029319.D

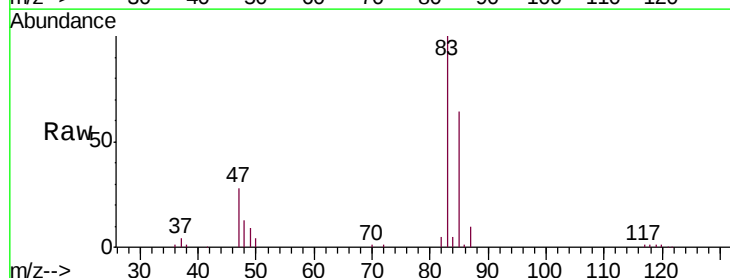
Acq: 30 Jan 2019 16:40

Tgt Ion: 83 Resp: 98700

Ion Ratio Lower Upper

83 100

85 64.3 0.0 126.6



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

50000

40000

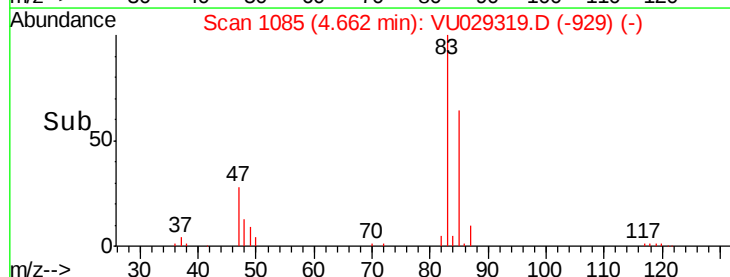
30000

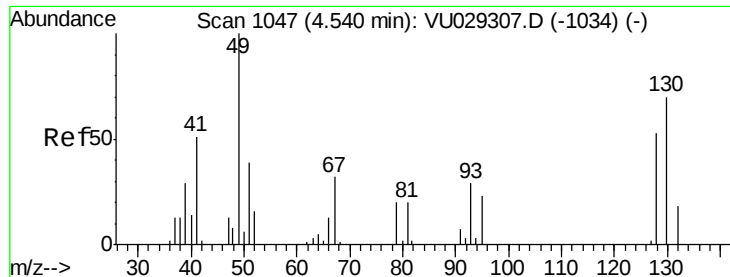
20000

10000

0

Time-->

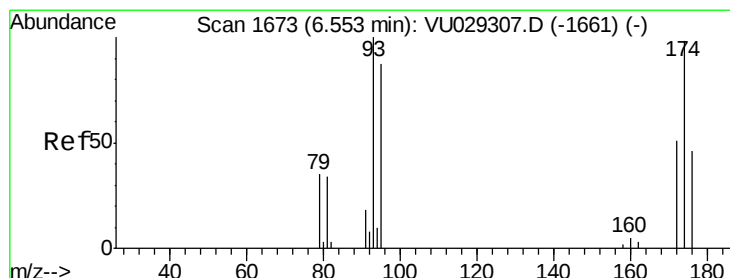
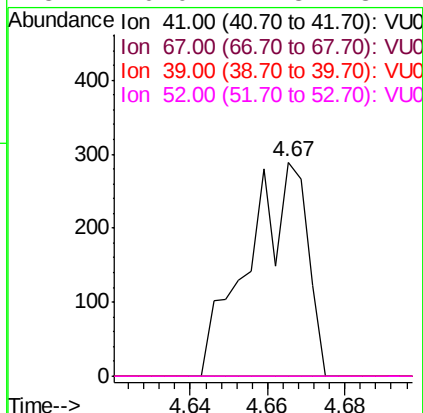
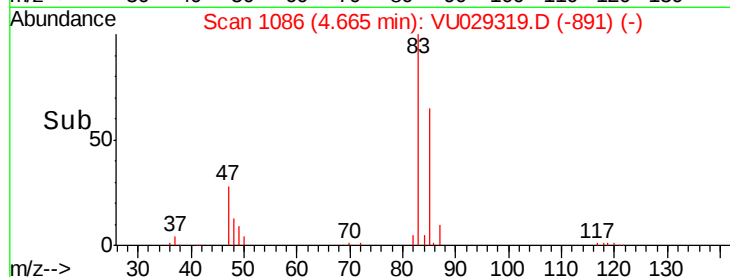
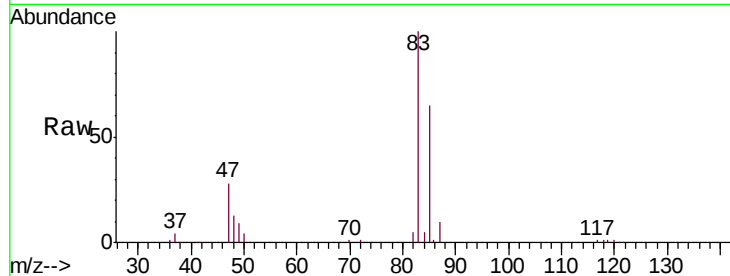




#39
Methacrylonitrile
Concen: 0.331 ug/l
RT: 4.67 min Scan# 1086
Delta R.T. 0.13 min
Lab File: VU029319.D
Acq: 30 Jan 2019 16:40

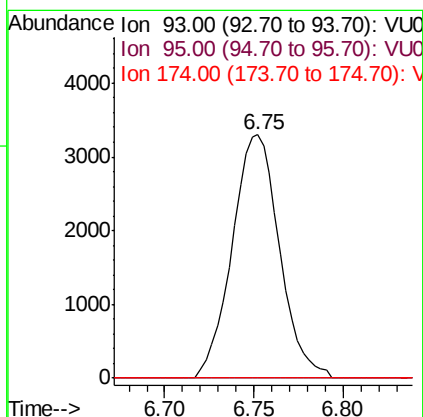
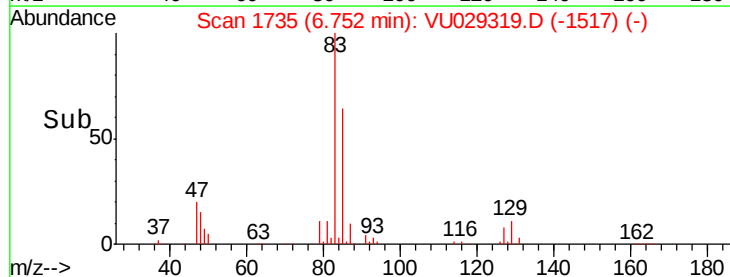
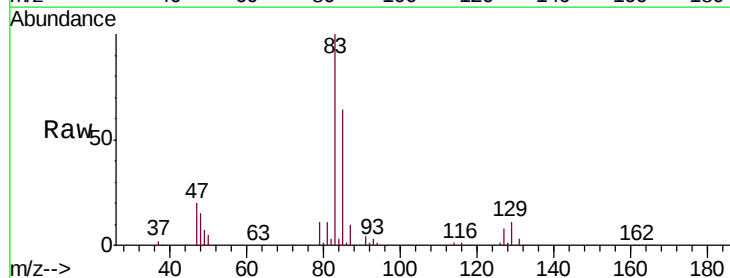
Instrument :
MSVOA_U
ClientSampleId :
PT-THM-WS

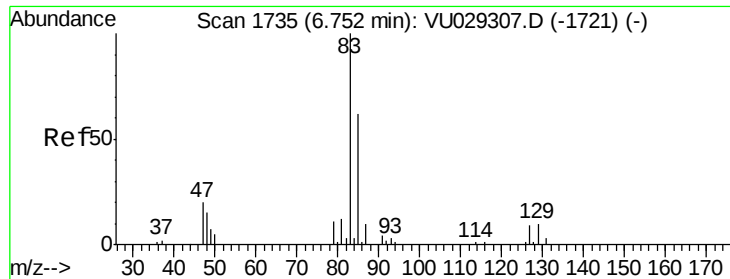
Tgt Ion: 41 Resp: 306
Ion Ratio Lower Upper
41 100
67 0.0 50.1 75.1#
39 0.0 47.9 71.9#
52 0.0 24.8 37.2#



#43
Dibromomethane
Concen: 4.837 ug/l
RT: 6.75 min Scan# 1735
Delta R.T. 0.20 min
Lab File: VU029319.D
Acq: 30 Jan 2019 16:40

Tgt Ion: 93 Resp: 6111
Ion Ratio Lower Upper
93 100
95 0.0 68.2 102.2#
174 0.0 77.6 116.4#





#44

Bromodichloromethane

Concen: 49.621 ug/l

RT: 6.75 min Scan# 1735

Delta R.T. -0.00 min

Lab File: VU029319.D

Acq: 30 Jan 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

PT-THM-WS

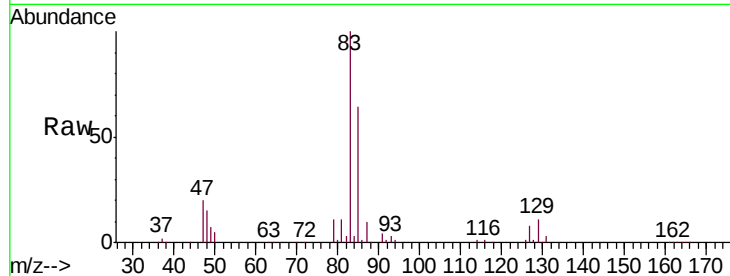
Tgt Ion: 83 Resp: 182379

Ion Ratio Lower Upper

83 100

85 64.0 49.2 73.8

127 8.5 7.0 10.6



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V

120000

100000

80000

60000

40000

20000

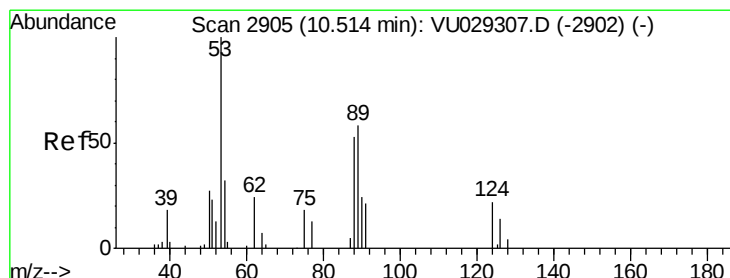
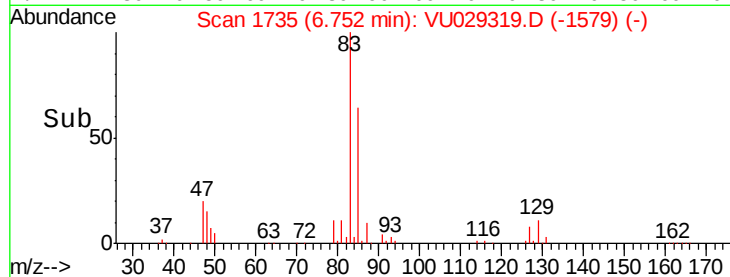
0

6.75

6.80

6.90

Time-->



#46

t-1,4-Dichloro-2-butene

Concen: 2.251 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU029319.D

Acq: 30 Jan 2019 16:40

Tgt Ion: 75 Resp: 1326

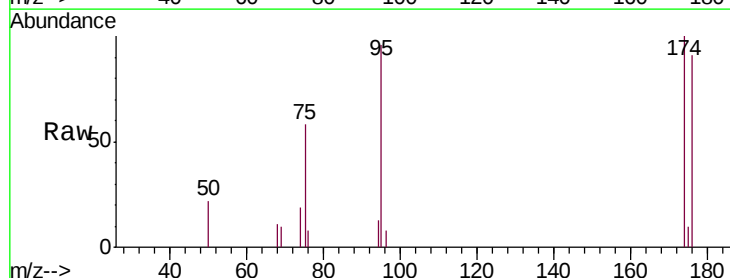
Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.0 44.2 66.4#

88 0.0 41.4 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.80 (88.50 to 89.50): VU0

Ion 87.80 (87.50 to 88.50): VU0

1200

1000

800

600

400

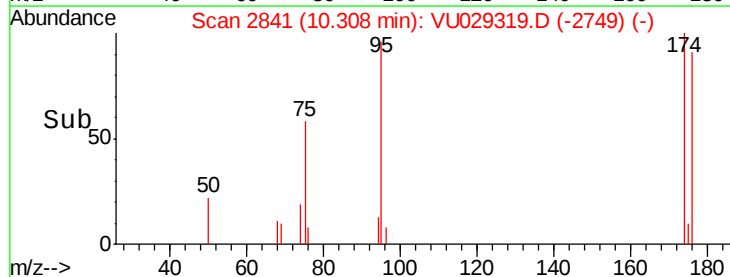
200

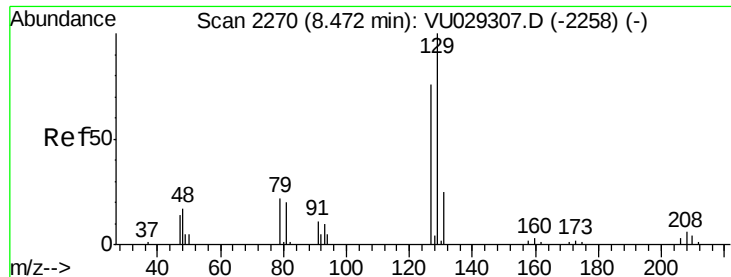
0

10.31

10.35

Time-->

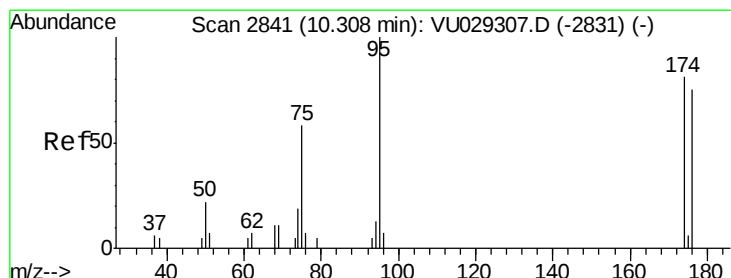
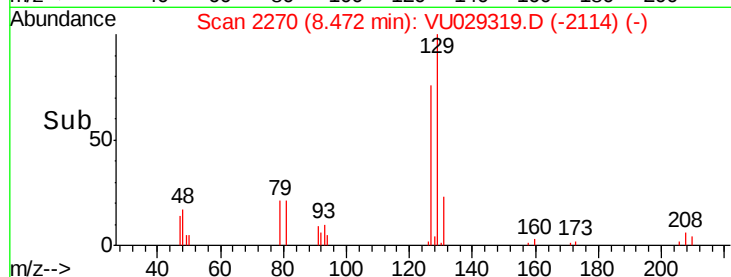
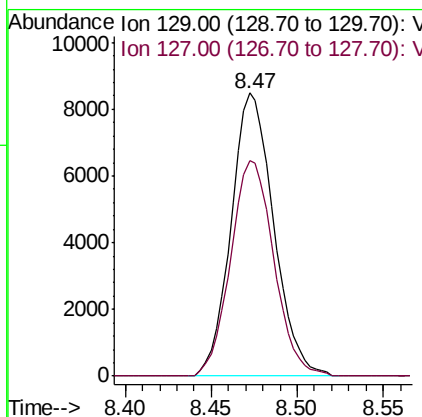
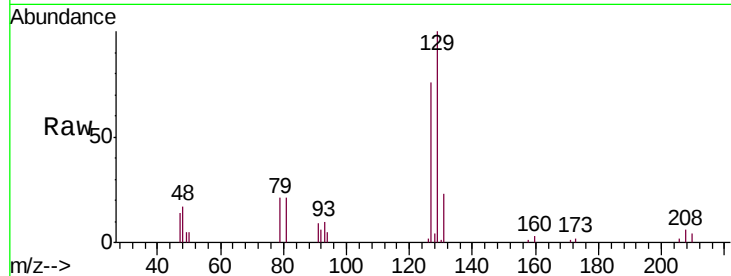




#55
 Dibromochloromethane
 Concen: 6.556 ug/l
 RT: 8.47 min Scan# 2270
 Delta R.T. 0.00 min
 Lab File: VU029319.D
 Acq: 30 Jan 2019 16:40

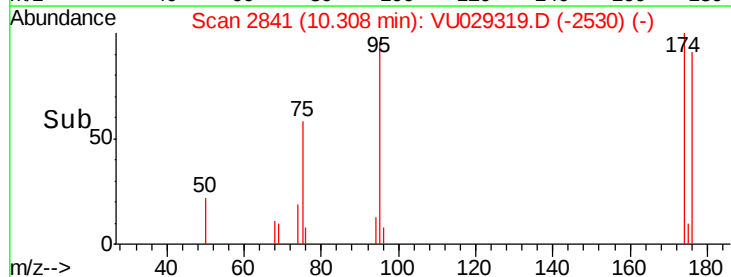
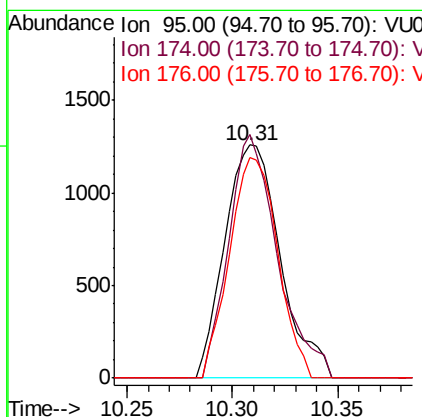
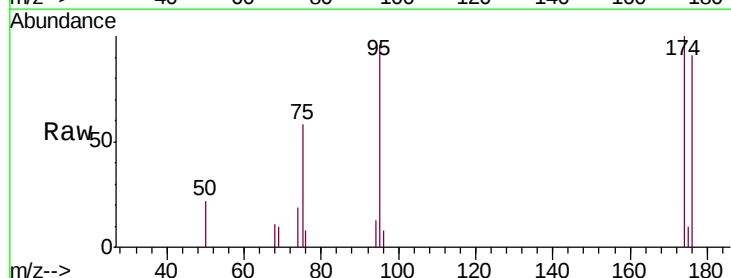
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-THM-WS

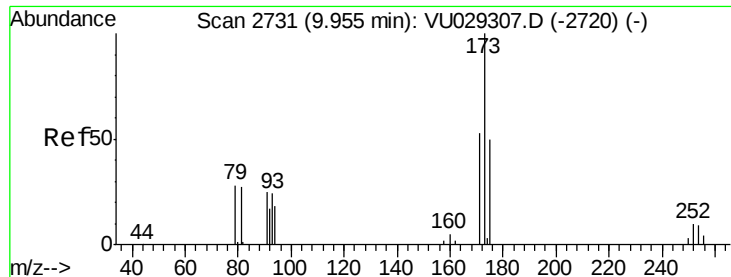
Tgt Ion: 129 Resp: 14631
 Ion Ratio Lower Upper
 129 100
 127 77.3 60.5 90.7



#57
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU029319.D
 Acq: 30 Jan 2019 16:40

Tgt Ion: 95 Resp: 2302
 Ion Ratio Lower Upper
 95 100
 174 91.7 64.2 96.2
 176 82.1 62.3 93.5

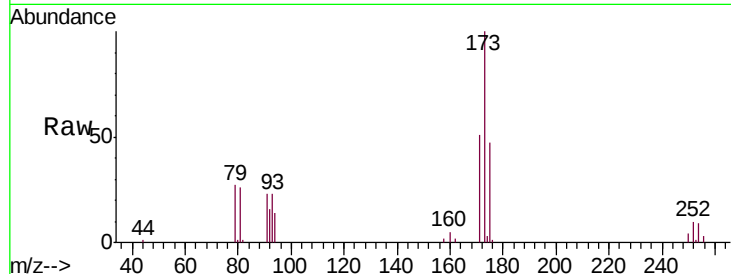




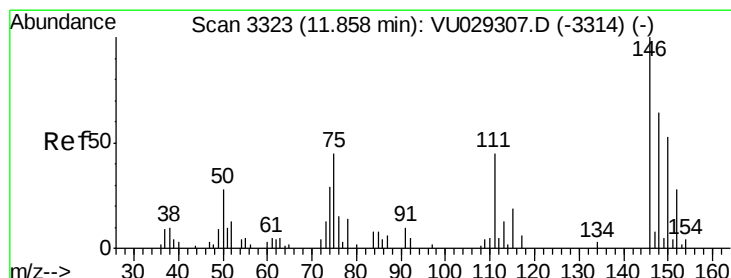
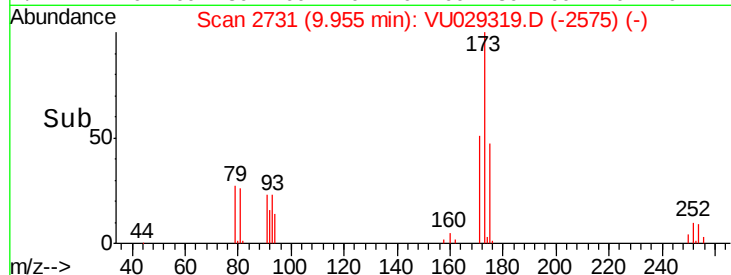
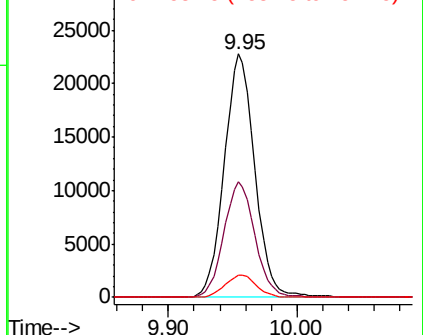
#67
Bromoform
Concen: 28.878 ug/l
RT: 9.95 min Scan# 2731
Delta R.T. 0.00 min
Lab File: VU029319.D
Acq: 30 Jan 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
PT-THM-WS

Tgt Ion:173 Resp: 37275
Ion Ratio Lower Upper
173 100
175 48.3 38.9 58.3
254 9.2 7.4 11.2

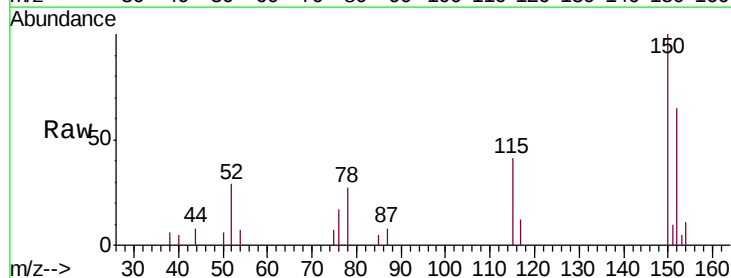


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V

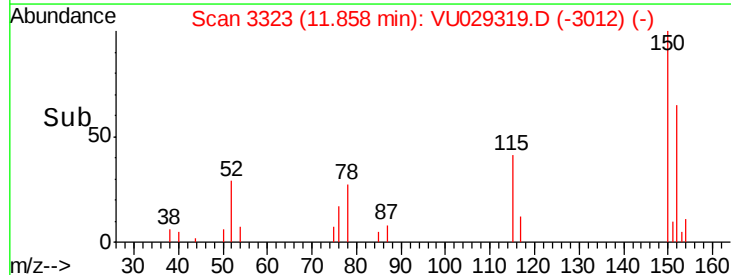
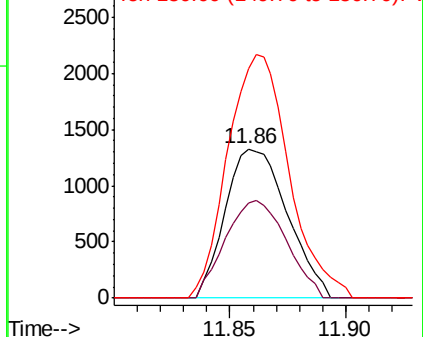


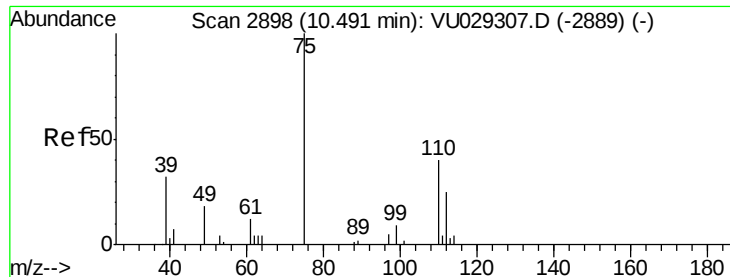
#68
1,2-Dichlorobenzene-d4
Concen: 28.878 ug/l
RT: 11.86 min Scan# 3323
Delta R.T. 0.00 min
Lab File: VU029319.D
Acq: 30 Jan 2019 16:40

Tgt Ion:152 Resp: 2470
Ion Ratio Lower Upper
152 100
115 64.4 0.0 133.4
150 161.4 0.0 670.8



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V

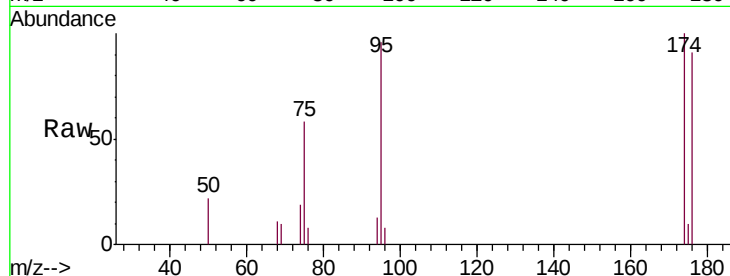




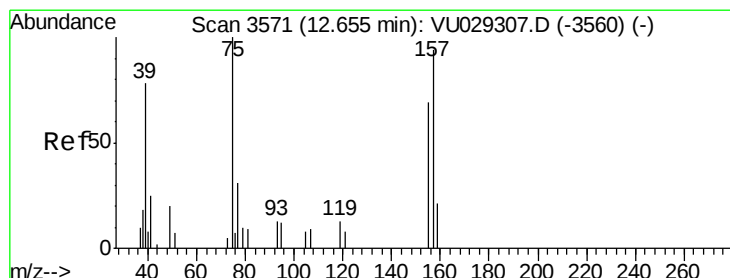
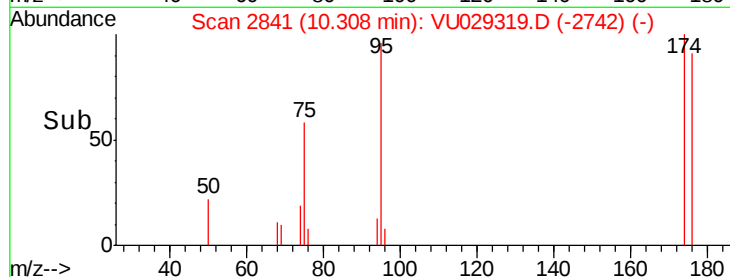
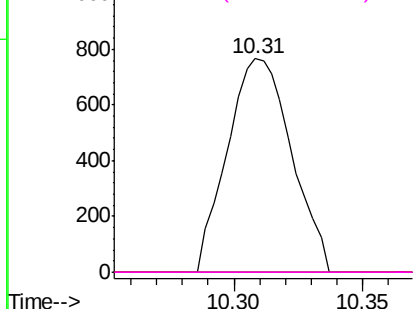
#71
 1,2,3-Trichloropropane
 Concen: 0.706 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.18 min
 Lab File: VU029319.D
 Acq: 30 Jan 2019 16:40

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-THM-WS

Tgt Ion: 75 Resp: 1326
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0
 110 0.0 0.0 63.6
 97 0.0 0.0 31.4

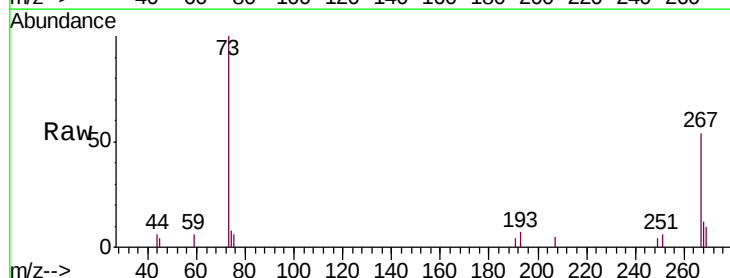


Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 77.00 (76.70 to 77.70): VU0
 Ion 110.00 (109.70 to 110.70): V
 Ion 97.00 (96.70 to 97.70): VU0



#86
 1,2-Dibromo-3-Chloropropane
 Concen: 0.350 ug/l
 RT: 12.48 min Scan# 3515
 Delta R.T. -0.18 min
 Lab File: VU029319.D
 Acq: 30 Jan 2019 16:40

Tgt Ion: 75 Resp: 142
 Ion Ratio Lower Upper
 75 100
 155 0.0 53.8 80.8#
 157 0.0 69.2 103.8#



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

