

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102318\
 Data File : VU027756.D
 Acq On : 23 Oct 2018 09:55
 Operator : MD/SY
 Sample : J5026-04DL 4X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 24 05:08:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U0102318DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Oct 23 09:12:15 2018
 Response via : Initial Calibration

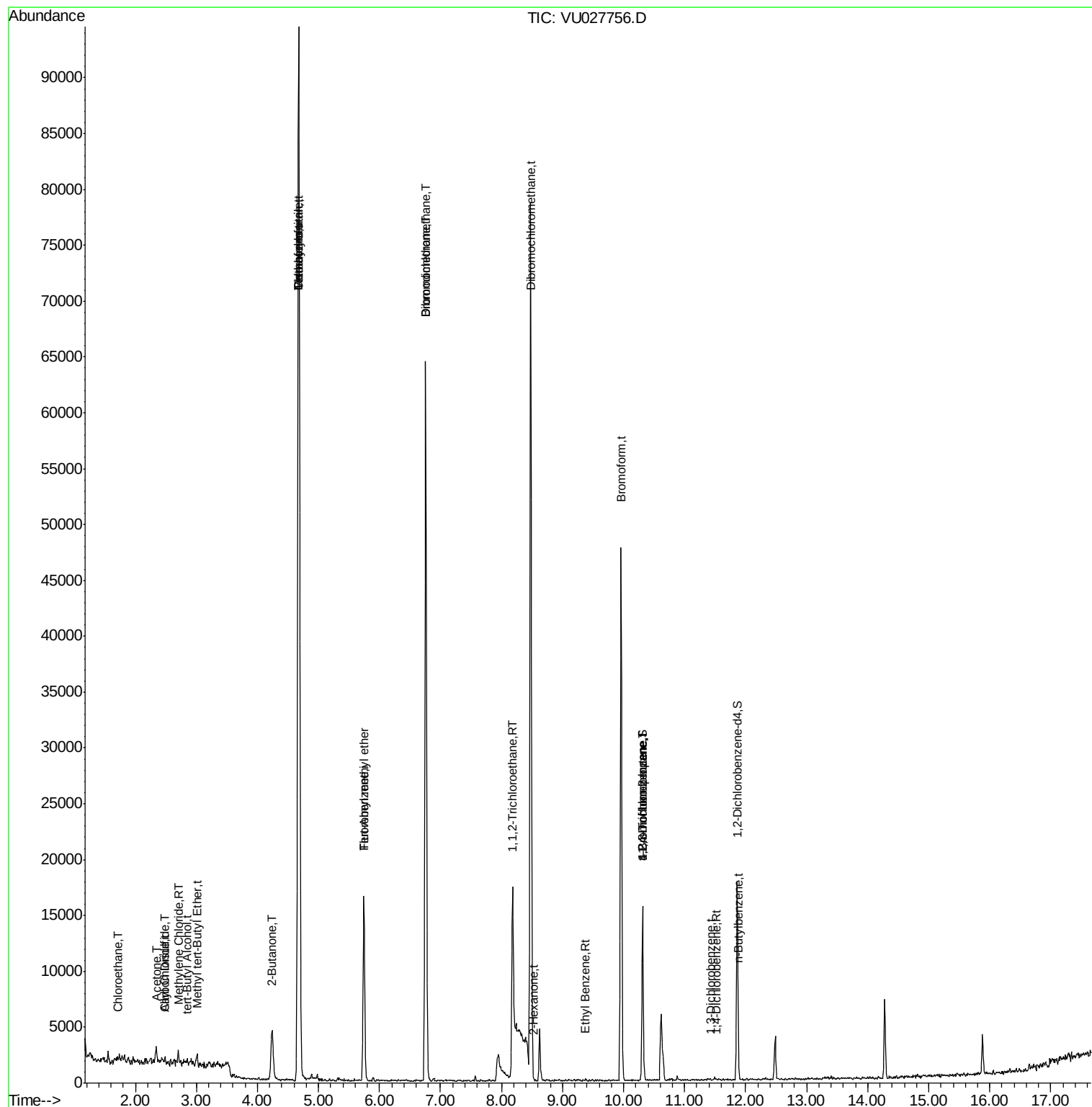
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.75	96	15178	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	5665	0.98	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	5097	0.94	ug/l	0.00
Spiked Amount 1.000			Recovery	=	94.00%	
Target Compounds					Ovalue	
6) Chloroethane	1.71	64	155	0.048	ug/l #	44
11) Allyl Chloride	2.49	41	135	0.017	ug/l	92
13) Acetone	2.33	43	659	0.700	ug/l #	47
14) Carbon Disulfide	2.48	76	426	0.034	ug/l #	75
15) Methylene Chloride	2.70	84	197	0.046	ug/l	85
18) 2-Butanone	4.25	43	404	0.258	ug/l	79
24) tert-Butyl Alcohol	2.85	59	62	0.181	ug/l #	1
25) Methyl tert-Butyl Ether	3.01	73	942	0.087	ug/l #	90
27) Chloroform	4.67	83	89043	10.997	ug/l	100
33) Tert-Amyl methyl ether	5.74	73	116	0.010	ug/l #	58
39) Methacrylonitrile	4.67	41	338	0.164	ug/l #	28
41) Tetrahydrofuran	4.67	42	199	0.175	ug/l #	40
43) Dibromomethane	6.76	93	1221	0.544	ug/l #	5
44) Bromodichloromethane	6.76	83	41657	6.832	ug/l	98
46) t-1,4-Dichloro-2-butene	10.31	75	2914	2.217	ug/l #	19
52) 1,1,2-Trichloroethane	8.17	97	59	0.019	ug/l #	13
54) 2-Hexanone	8.54	43	42	0.016	ug/l #	36
55) Dibromochloromethane	8.48	129	39734	10.420	ug/l	100
63) Ethyl Benzene	9.38	91	83	0.004	ug/l #	45
67) Bromoform	9.96	173	21229	9.619	ug/l	98
71) 1,2,3-Trichloropropane	10.31	75	2914	0.930	ug/l #	47
82) 1,3-Dichlorobenzene	11.42	146	40	0.004	ug/l #	25
83) 1,4-Dichlorobenzene	11.51	146	20	0.002	ug/l #	25
84) n-Butylbenzene	11.89	91	22	0.001	ug/l #	34
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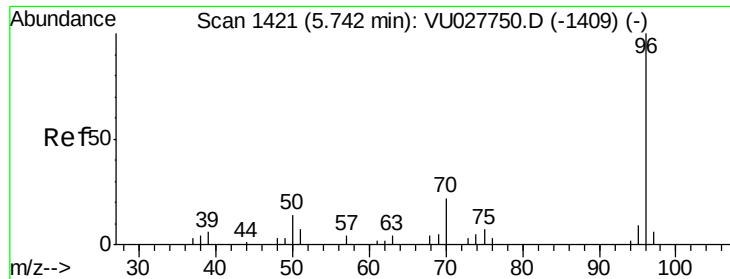
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA U\METHOD\524U0102318DW.M
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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.75 min Scan# 1422

Delta R.T. 0.00 min

Lab File: VU027756.D

Acq: 23 Oct 2018 09:55

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 96 Resp: 15178

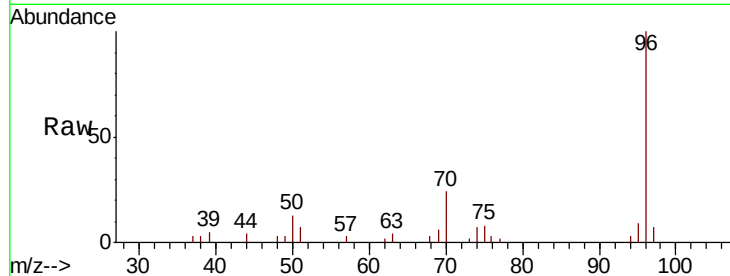
Ion Ratio Lower Upper

96 100

70 22.2 17.7 26.5

95 8.6 7.0 10.6

97 5.9 0.0 0.0#

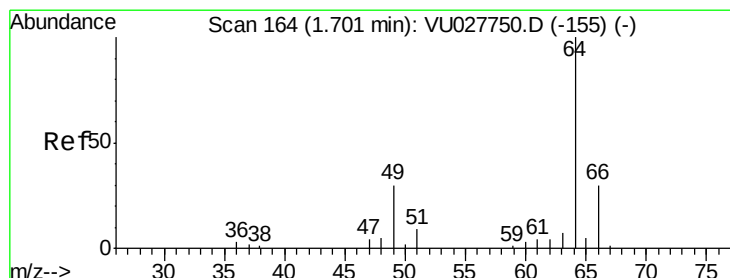
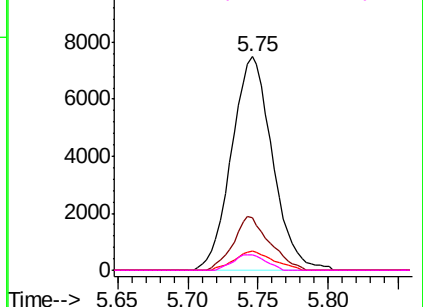
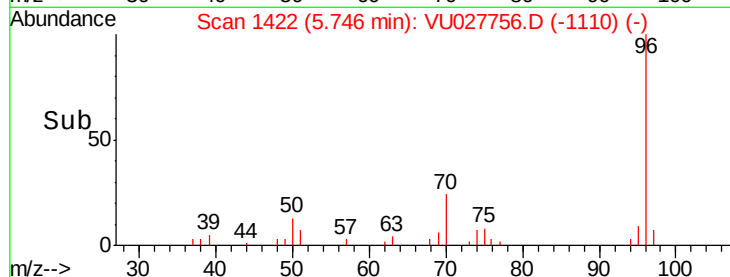


Abundance Ion 96.00 (95.70 to 96.70): VU0

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



#6

Chloroethane

Concen: 0.048 ug/l

RT: 1.71 min Scan# 167

Delta R.T. 0.01 min

Lab File: VU027756.D

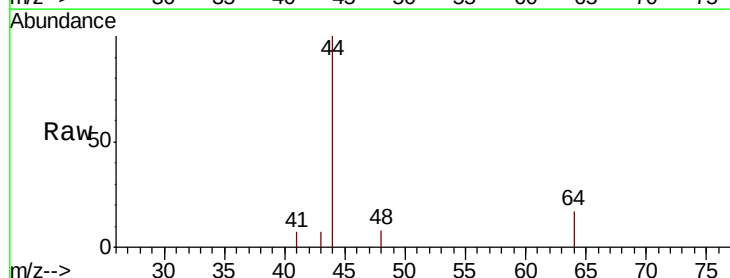
Acq: 23 Oct 2018 09:55

Tgt Ion: 64 Resp: 155

Ion Ratio Lower Upper

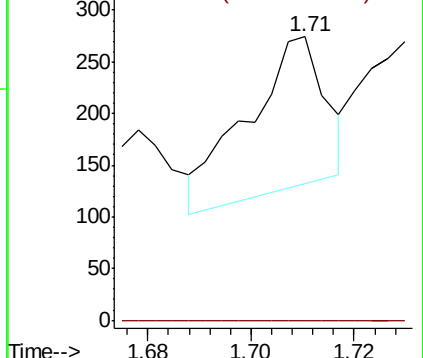
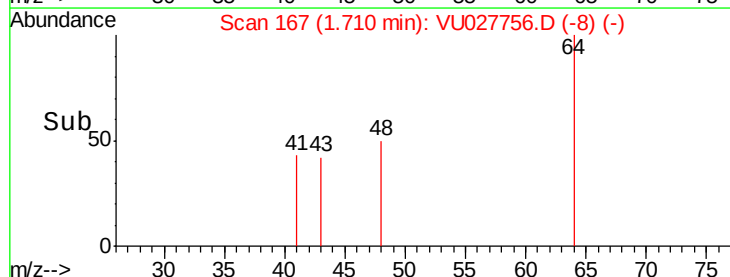
64 100

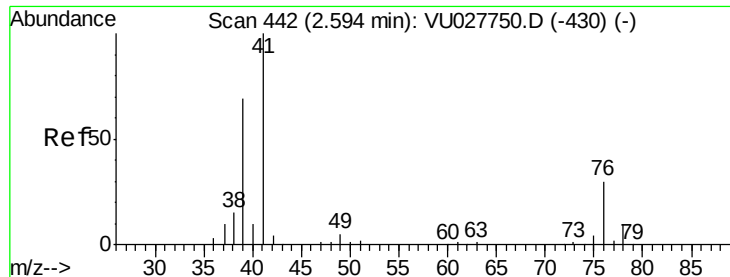
66 0.0 24.3 36.5#



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0

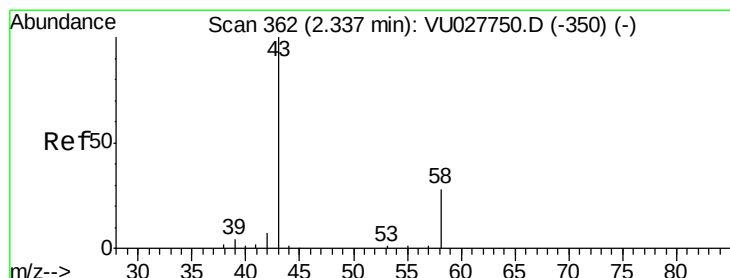
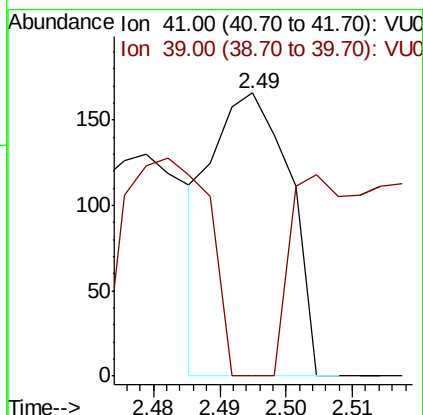
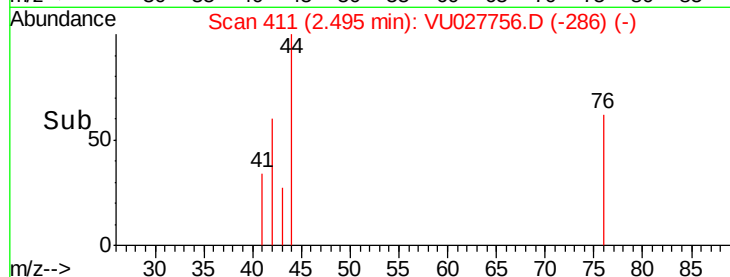
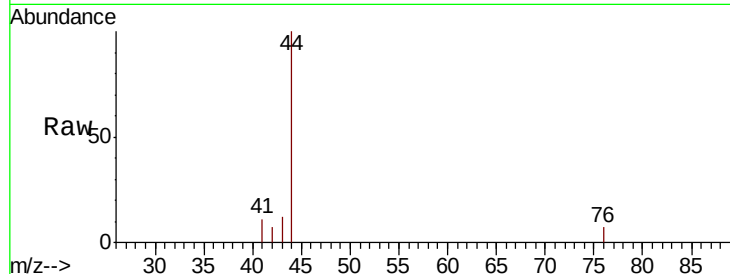




#11
Allvl Chloride
Concen: 0.017 ug/l
RT: 2.49 min Scan# 411
Delta R.T. -0.10 min
Lab File: VU027756.D
Acq: 23 Oct 2018 09:55

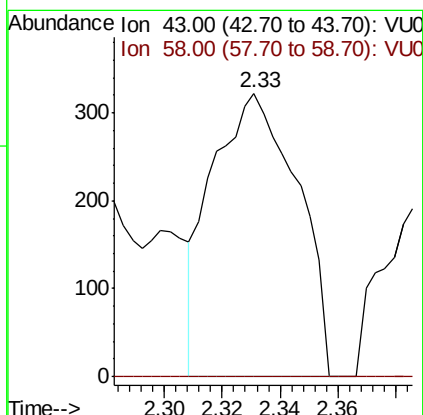
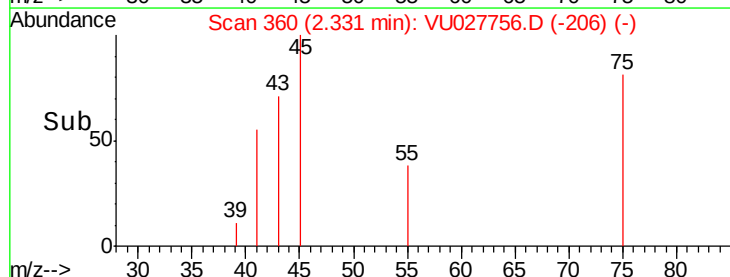
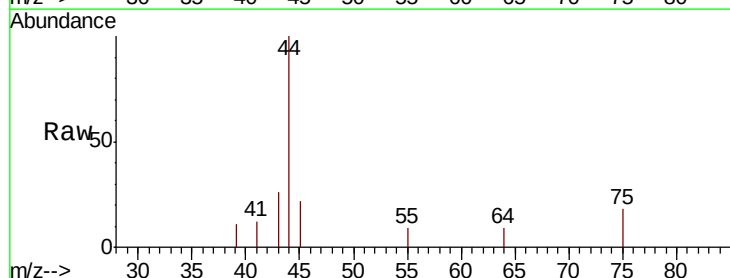
Instrument :
MSVOA_U
ClientSampled :

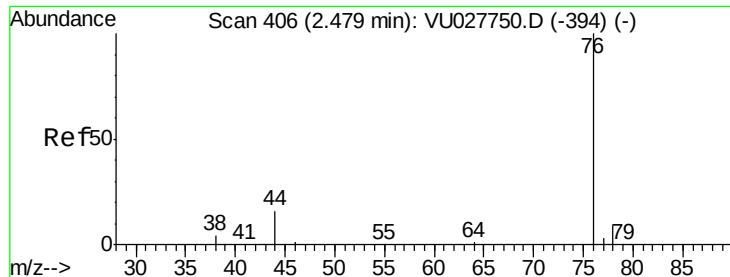
Tot Ion: 41 Resp: 135
Ion Ratio Lower Upper
41 100
39 63.0 55.4 83.0



#13
Acetone
Concen: 0.700 ug/l
RT: 2.33 min Scan# 360
Delta R.T. -0.01 min
Lab File: VU027756.D
Acq: 23 Oct 2018 09:55

Tgt Ion: 43 Resp: 659
Ion Ratio Lower Upper
43 100
58 0.0 22.3 33.5#





#14

Carbon Disulfide

Concen: 0.034 ug/l

RT: 2.48 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU027756.D

Acq: 23 Oct 2018 09:55

Instrument :

MSVOA_U

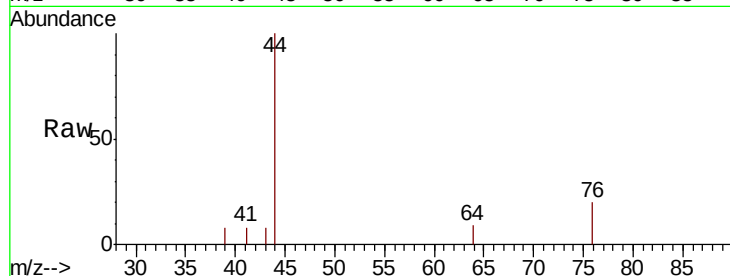
ClientSampleId :

Tot Ion: 76 Resp: 426

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

2.48

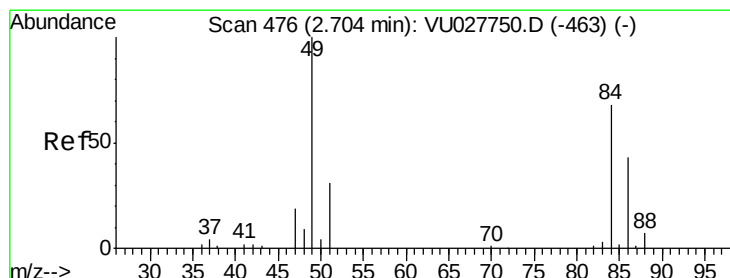
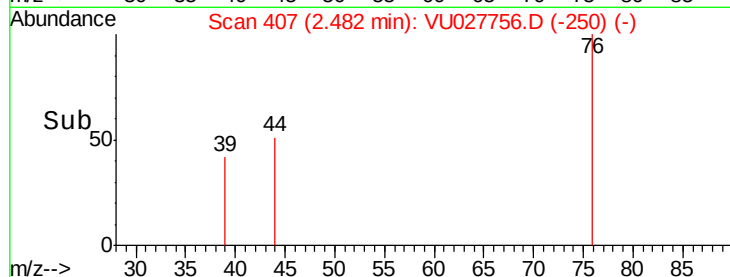
300

200

100

0

Time--> 2.44 2.46 2.48 2.50



#15

Methylene Chloride

Concen: 0.046 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.00 min

Lab File: VU027756.D

Acq: 23 Oct 2018 09:55

Tgt Ion: 84 Resp: 197

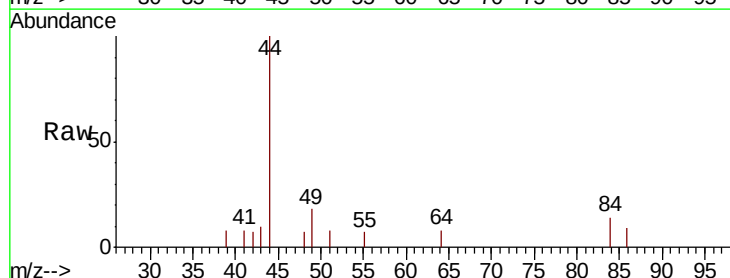
Ion Ratio Lower Upper

84 100

49 122.5 118.5 177.7

51 56.3 0.0 91.0

86 64.8 50.7 76.1



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

400

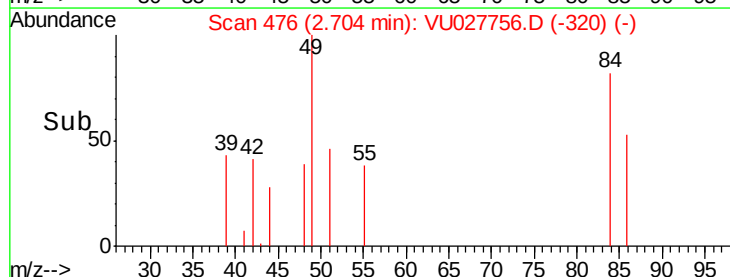
300

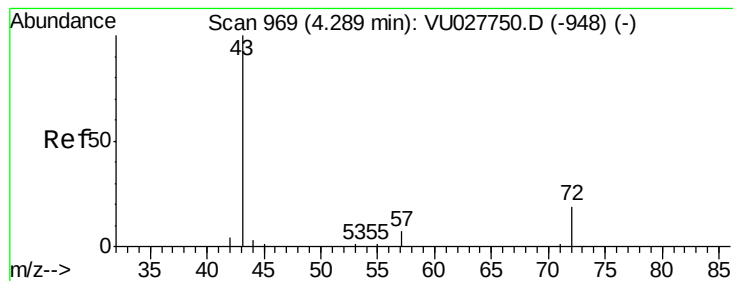
200

100

0

Time--> 2.68 2.70 2.72





#18

2-Butanone

Concen: 0.258 ug/l

RT: 4.25 min Scan# 956

Delta R.T. -0.04 min

Lab File: VU027756.D

Acq: 23 Oct 2018 09:55

Instrument :

MSVOA_U

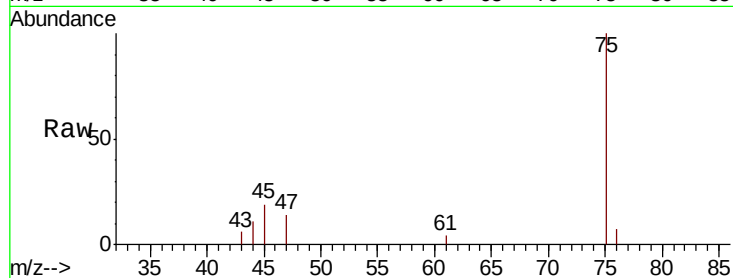
ClientSampleId :

Tot Ion: 43 Resp: 404

Ion Ratio Lower Upper

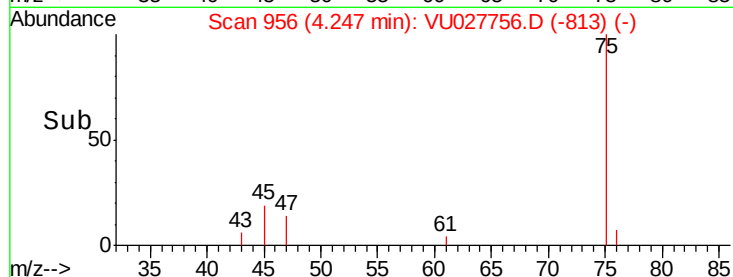
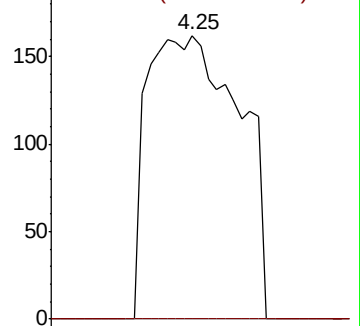
43 100

57 0.0 0.0 14.4

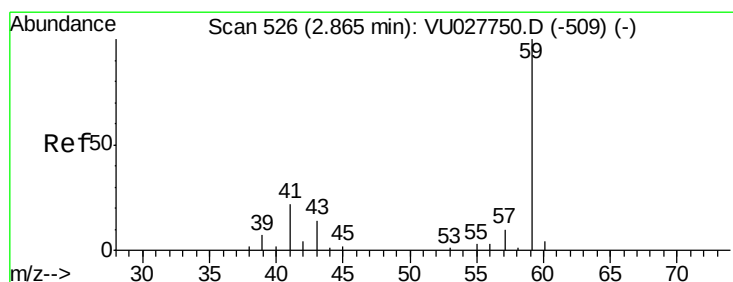


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



Time-->



#24

tert-Butyl Alcohol

Concen: 0.181 ug/l

RT: 2.85 min Scan# 521

Delta R.T. -0.02 min

Lab File: VU027756.D

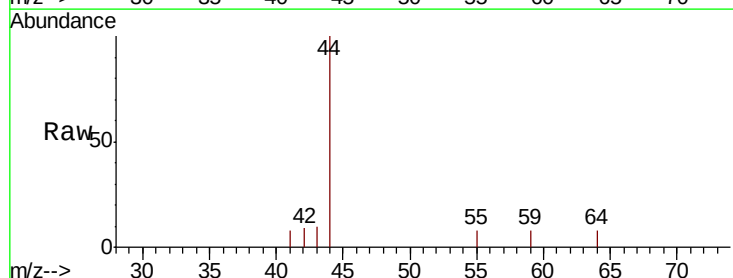
Acq: 23 Oct 2018 09:55

Tgt Ion: 59 Resp: 62

Ion Ratio Lower Upper

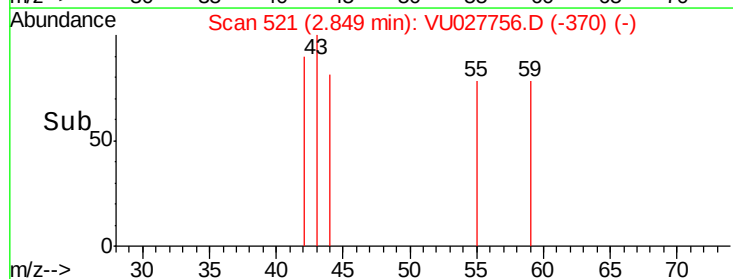
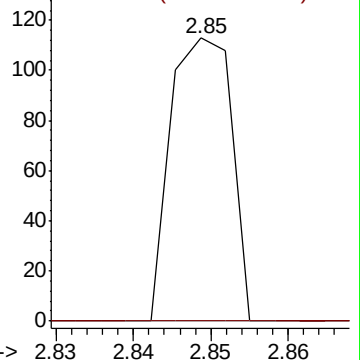
59 100

57 137.1 4.4 6.6#

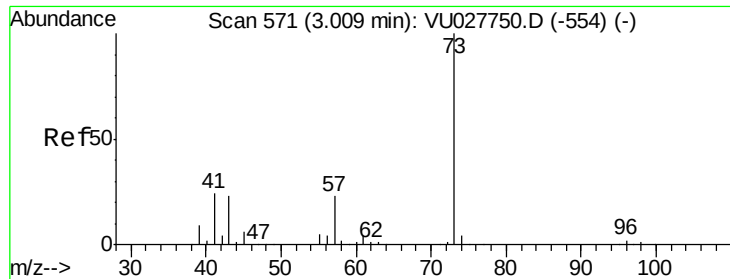


Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



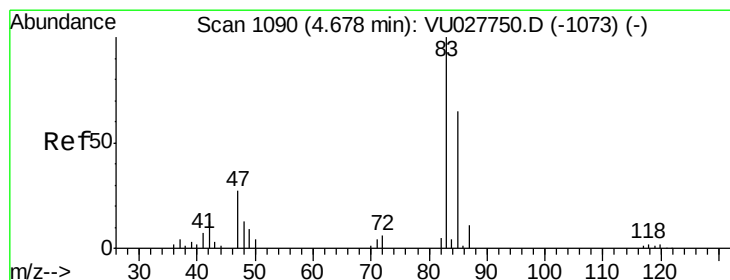
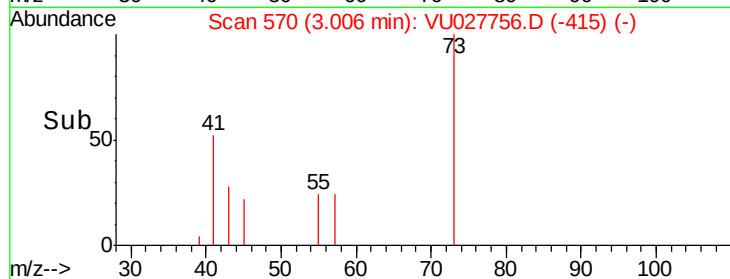
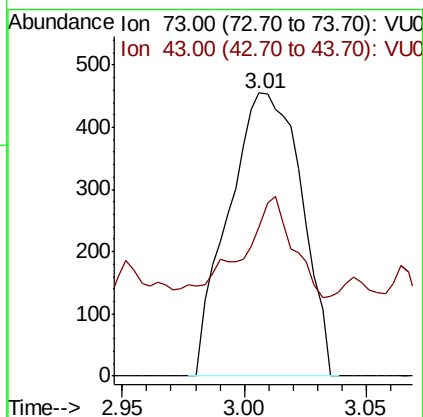
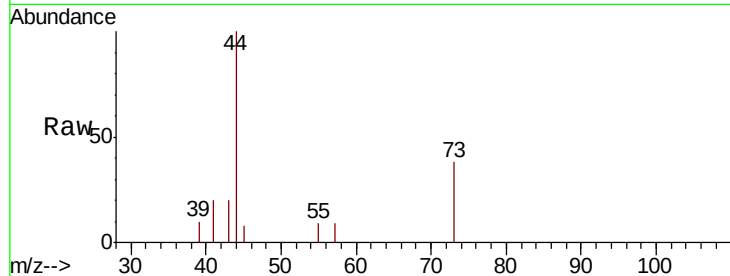
Time-->



#25
Methyl tert-Butyl Ether
Concen: 0.087 ug/l
RT: 3.01 min Scan# 570
Delta R.T. -0.00 min
Lab File: VU027756.D
Acq: 23 Oct 2018 09:55

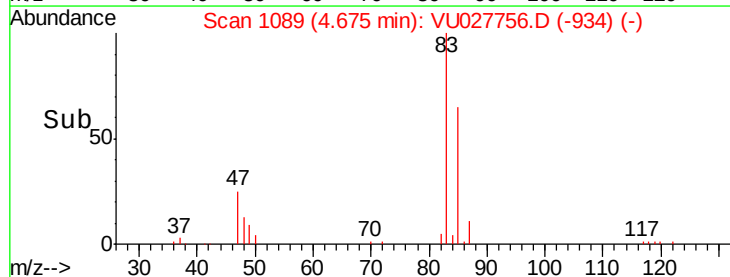
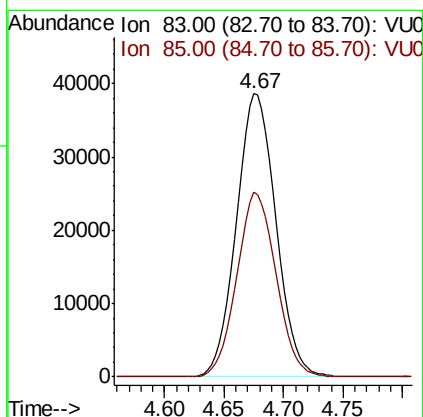
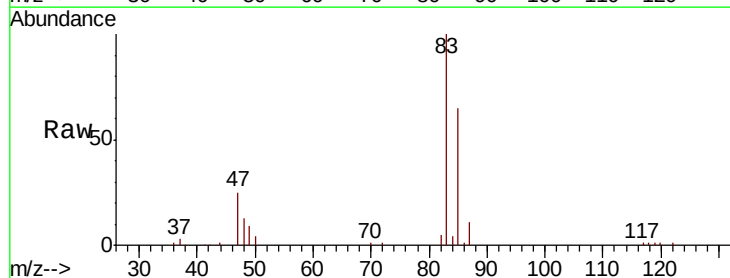
Instrument :
MSVOA_U
ClientSampleId :

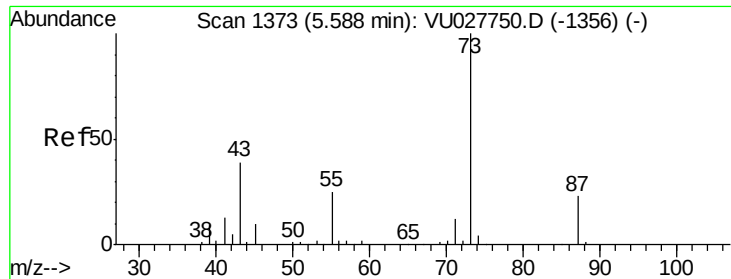
Tot Ion: 73 Resp: 942
Ion Ratio Lower Upper
73 100
43 27.9 18.6 27.8#



#27
Chloroform
Concen: 10.997 ug/l
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU027756.D
Acq: 23 Oct 2018 09:55

Tgt Ion: 83 Resp: 89043
Ion Ratio Lower Upper
83 100
85 65.1 0.0 130.2

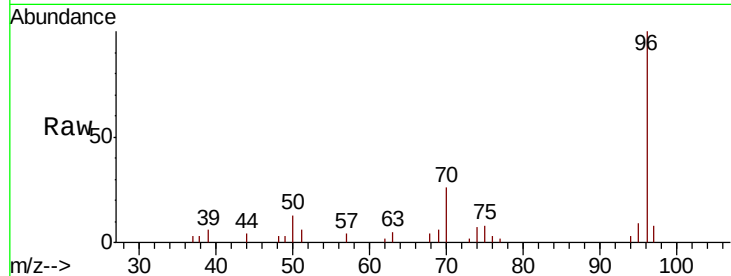




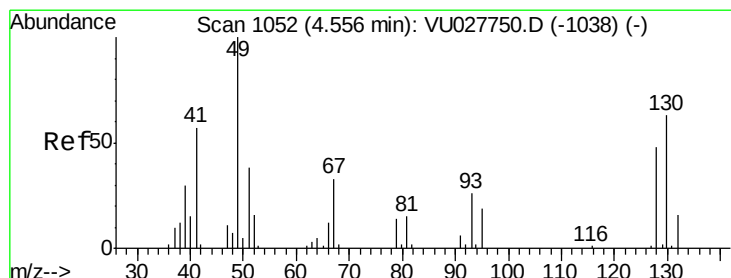
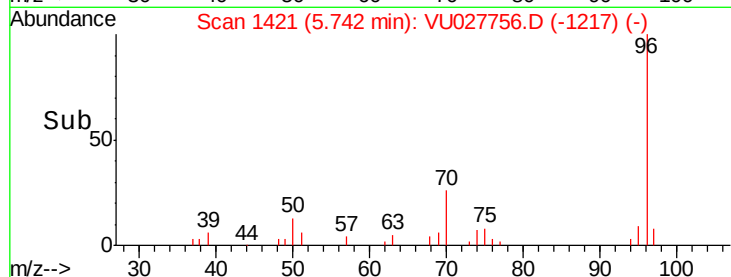
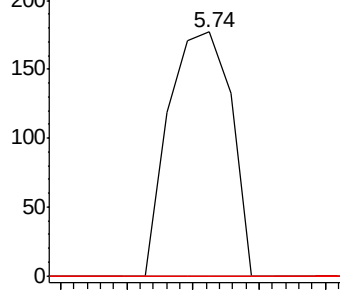
#33
Tert-Butyl methyl ether
Concen: 0.010 ug/l
RT: 5.74 min Scan# 1421
Delta R.T. 0.15 min
Lab File: VU027756.D
Acq: 23 Oct 2018 09:55

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 116
Ion Ratio Lower Upper
73 100
87 0.0 18.5 27.7#
71 0.0 9.1 13.7#

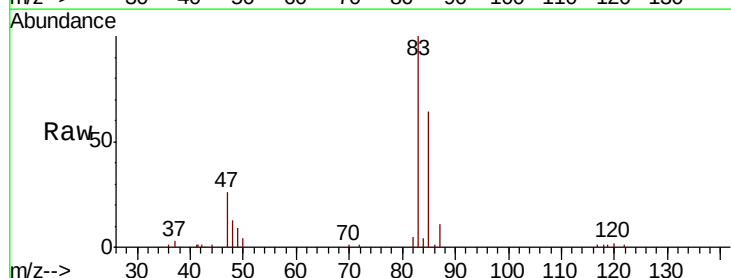


Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 87.00 (86.70 to 87.70): VU0
Ion 71.00 (70.70 to 71.70): VU0

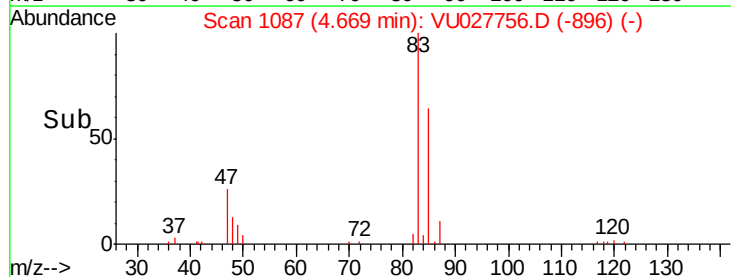
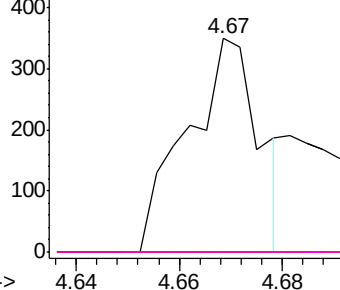


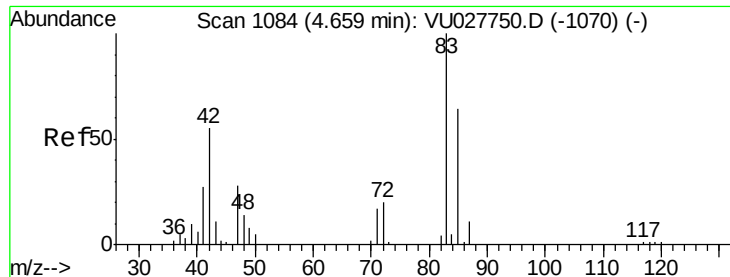
#39
Methacrylonitrile
Concen: 0.164 ug/l
RT: 4.67 min Scan# 1087
Delta R.T. 0.11 min
Lab File: VU027756.D
Acq: 23 Oct 2018 09:55

Tgt Ion: 41 Resp: 338
Ion Ratio Lower Upper
41 100
67 0.0 46.1 69.1#
39 0.0 43.6 65.4#
52 0.0 21.4 32.2#



Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 67.00 (66.70 to 67.70): VU0
Ion 39.00 (38.70 to 39.70): VU0
Ion 52.00 (51.70 to 52.70): VU0





#41

Tetrahydrofuran

Concen: 0.175 ug/l

RT: 4.67 min Scan# 1087

Delta R.T. 0.01 min

Lab File: VU027756.D

Acq: 23 Oct 2018 09:55

Instrument :

MSVOA_U

ClientSampleId :

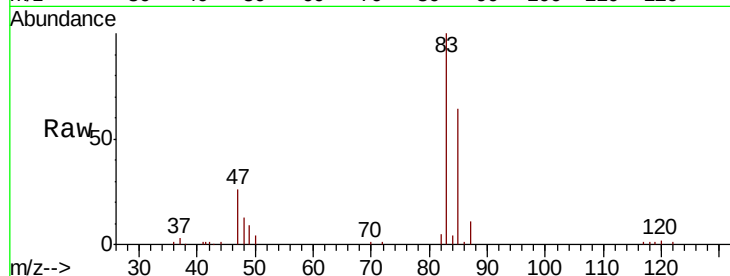
Tot Ion: 42 Resp: 199

Ion Ratio Lower Upper

42 100

72 0.0 30.6 45.8#

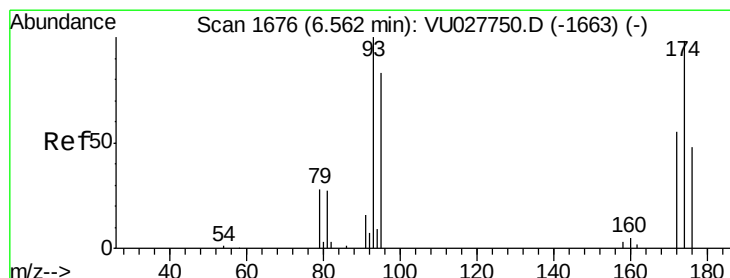
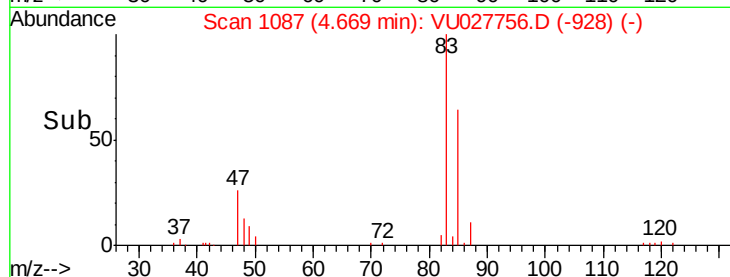
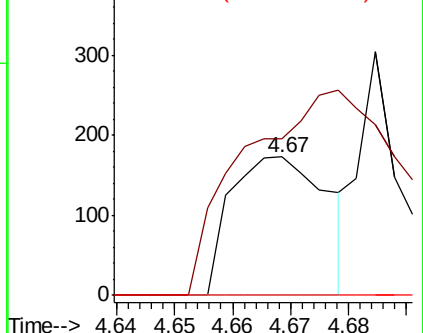
71 0.0 25.2 37.8#



Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



#43

Dibromomethane

Concen: 0.544 ug/l

RT: 6.76 min Scan# 1738

Delta R.T. 0.20 min

Lab File: VU027756.D

Acq: 23 Oct 2018 09:55

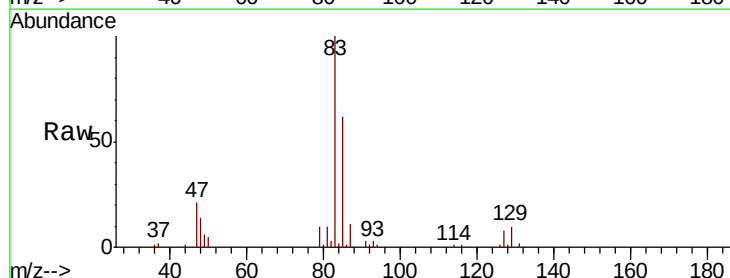
Tgt Ion: 93 Resp: 1221

Ion Ratio Lower Upper

93 100

95 0.0 64.2 96.2#

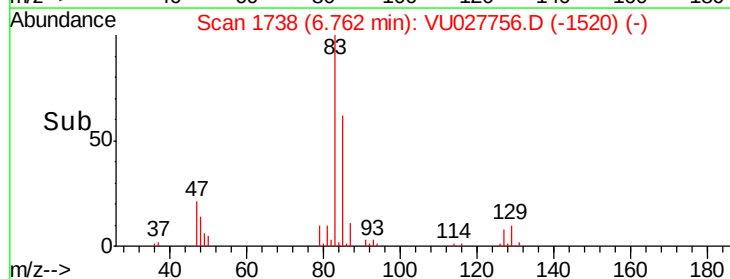
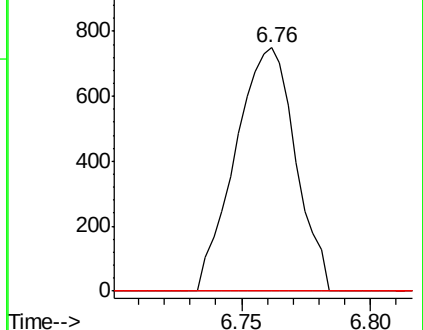
174 0.0 76.7 115.1#

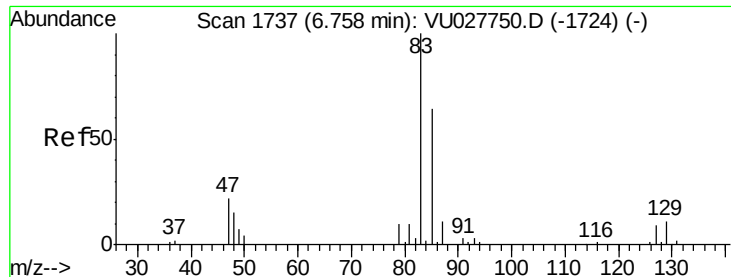


Abundance Ion 93.00 (92.70 to 93.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V

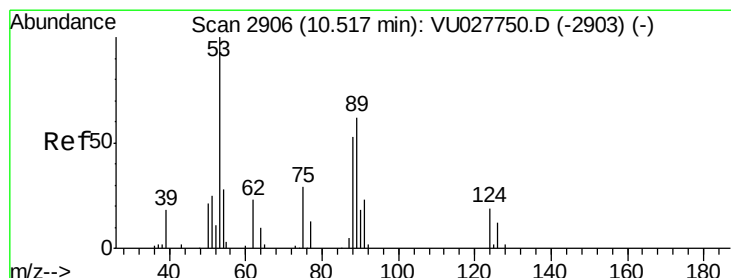
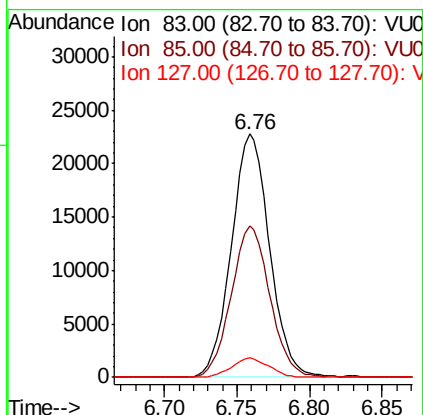
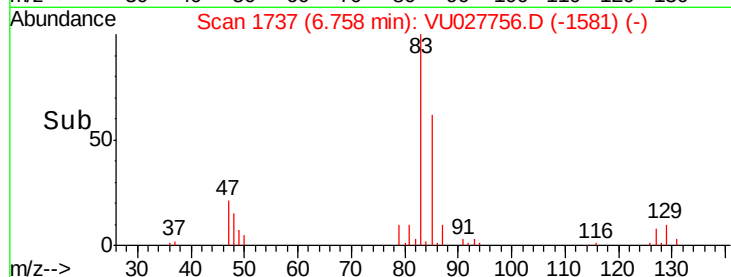
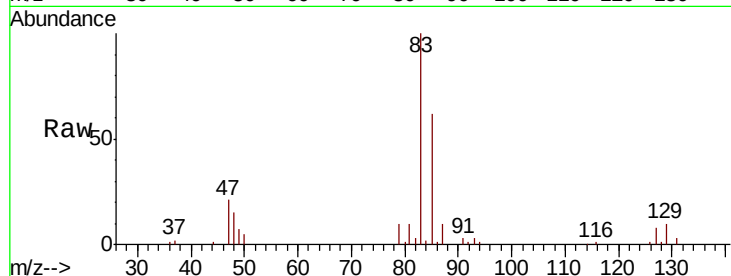




#44
Bromodichloromethane
Concen: 6.832 ug/l
RT: 6.76 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VU027756.D
Acq: 23 Oct 2018 09:55

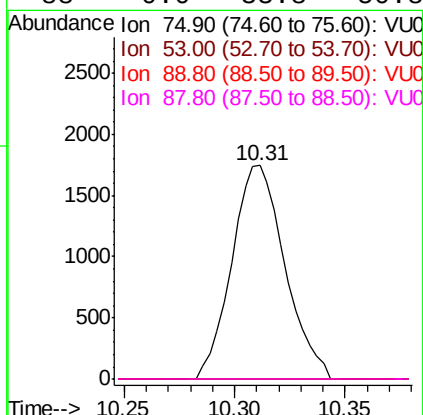
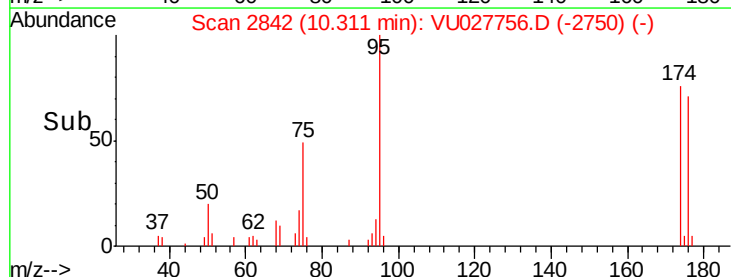
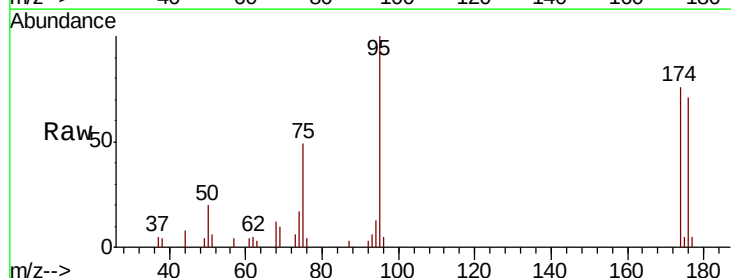
Instrument :
MSVOA_U
ClientSampleId :

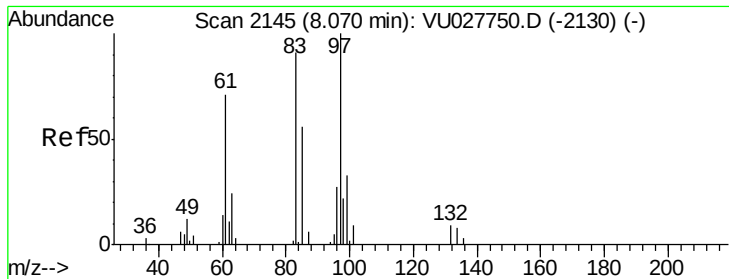
Tot Ion: 83 Resp: 41657
Ion Ratio Lower Upper
83 100
85 62.4 51.5 77.3
127 8.0 7.0 10.4



#46
t-1,4-Dichloro-2-butene
Concen: 2.217 ug/l
RT: 10.31 min Scan# 2842
Delta R.T. -0.21 min
Lab File: VU027756.D
Acq: 23 Oct 2018 09:55

Tgt Ion: 75 Resp: 2914
Ion Ratio Lower Upper
75 100
53 0.0 68.2 102.4#
89 0.0 41.8 62.6#
88 0.0 33.8 50.8#

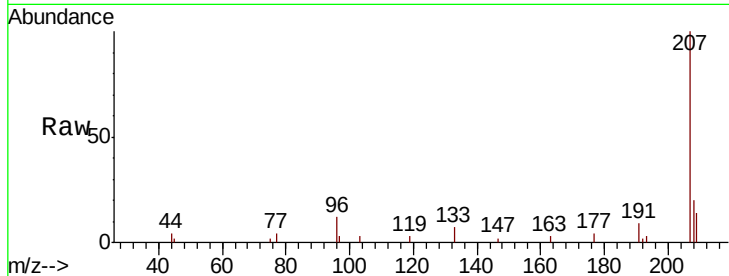




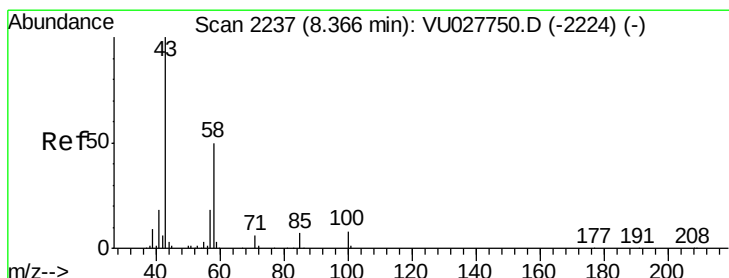
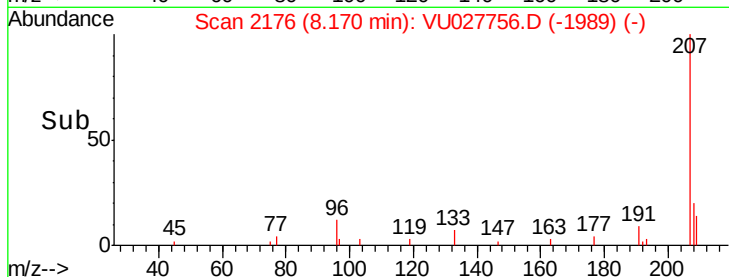
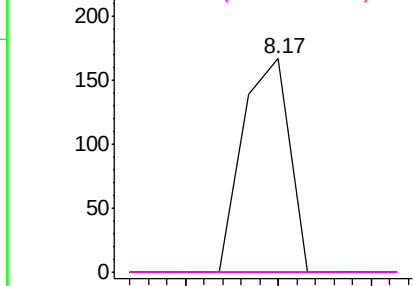
#52
 1,1,2-Trichloroethane
 Concen: 0.019 ug/l
 RT: 8.17 min Scan# 2176
 Delta R.T. 0.10 min
 Lab File: VU027756.D
 Acq: 23 Oct 2018 09:55

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	59
Ion	Ratio	Lower	Upper
97	100		
83	0.0	73.0	109.6#
85	0.0	46.5	69.7#
99	0.0	49.8	74.8#

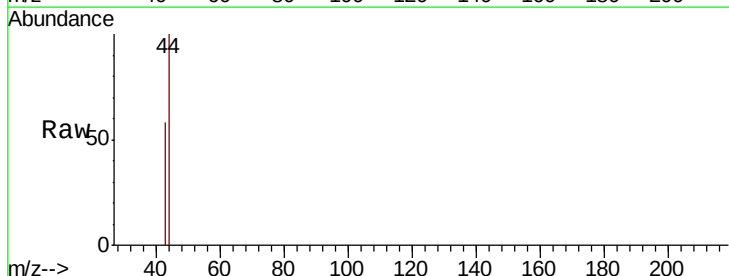


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 84.95 (84.65 to 85.65): VU0
 Ion 98.95 (98.65 to 99.65): VU0

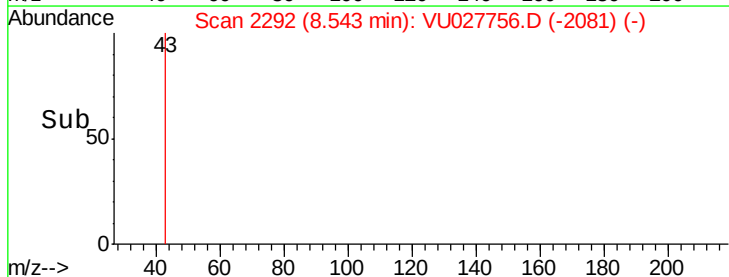
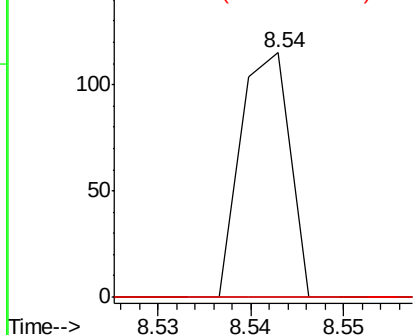


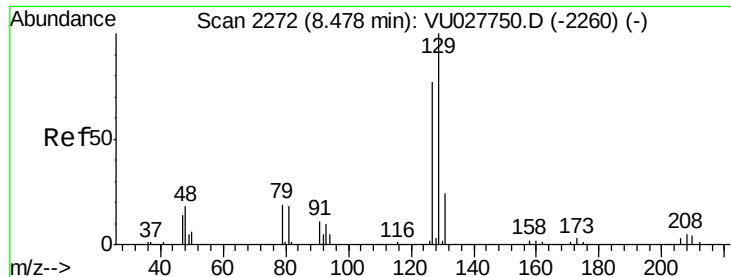
#54
 2-Hexanone
 Concen: 0.016 ug/l
 RT: 8.54 min Scan# 2292
 Delta R.T. 0.18 min
 Lab File: VU027756.D
 Acq: 23 Oct 2018 09:55

Tgt Ion:	43	Resp:	42
Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.0	70.0#
57	0.0	0.0	37.7



Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0
 Ion 57.00 (56.70 to 57.70): VU0





#55

Dibromochloromethane

Concen: 10.420 ug/l

RT: 8.48 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VU027756.D

Acq: 23 Oct 2018 09:55

Instrument :

MSVOA_U

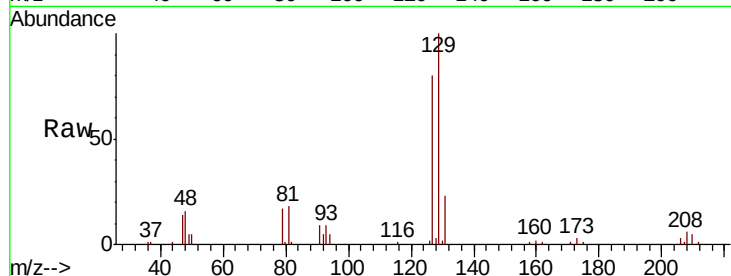
ClientSampled :

Tot Ion:129 Resp: 39734

Ion Ratio Lower Upper

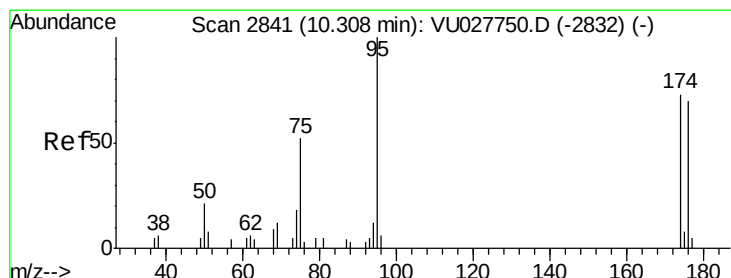
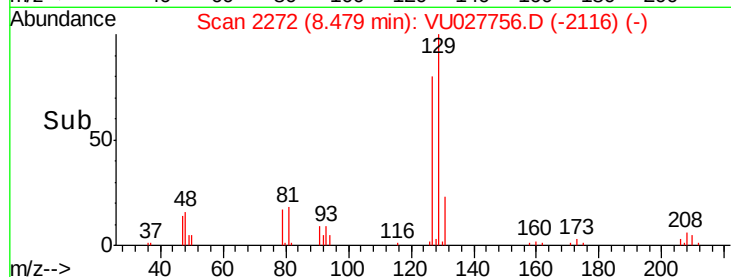
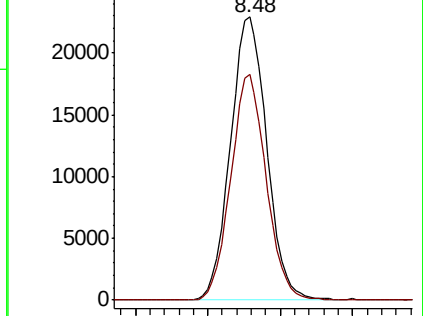
129 100

127 77.6 61.9 92.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#57

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 10.31 min Scan# 2842

Delta R.T. 0.00 min

Lab File: VU027756.D

Acq: 23 Oct 2018 09:55

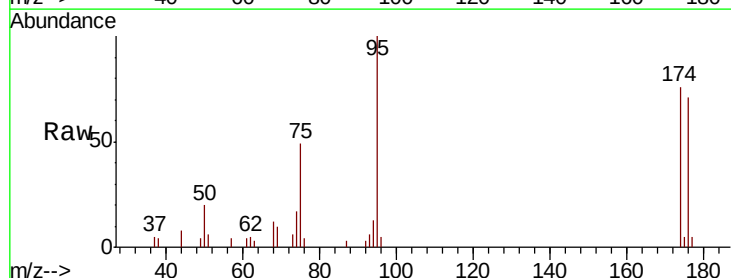
Tgt Ion: 95 Resp: 5665

Ion Ratio Lower Upper

95 100

174 75.4 64.5 96.7

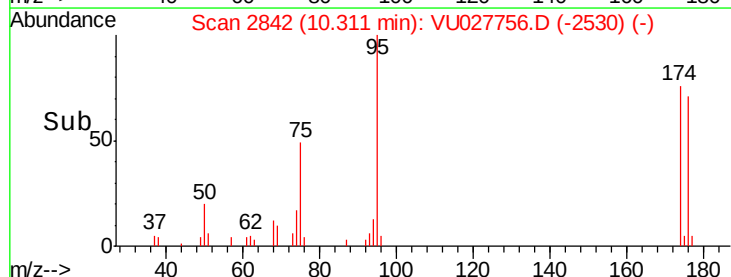
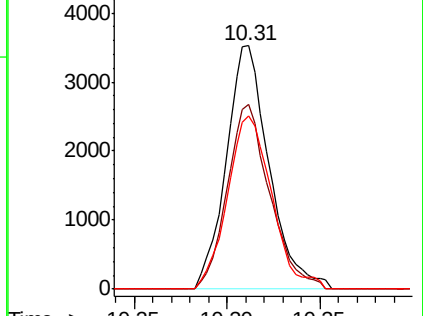
176 73.4 58.3 87.5

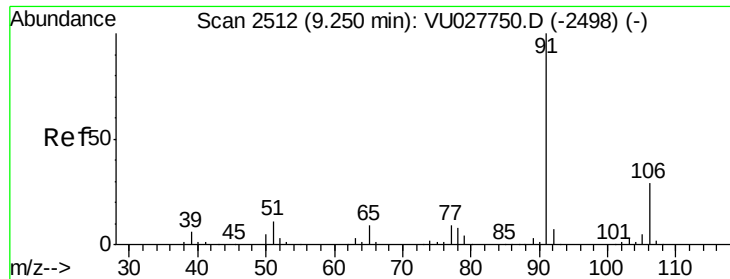


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

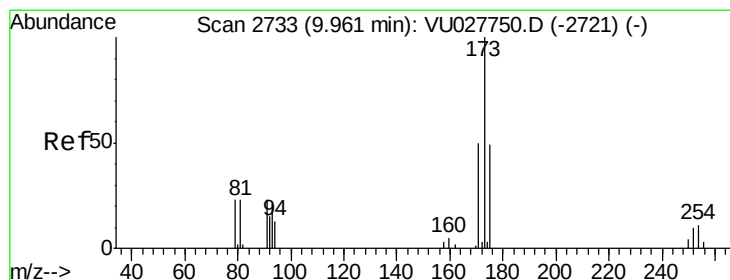
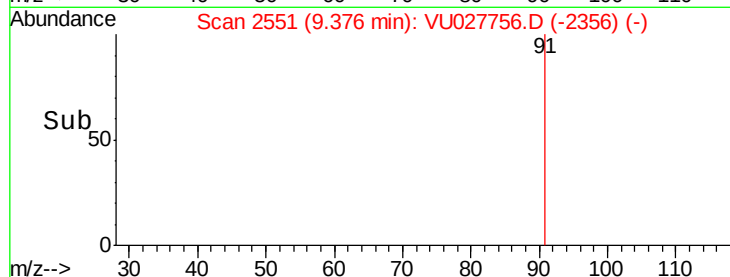
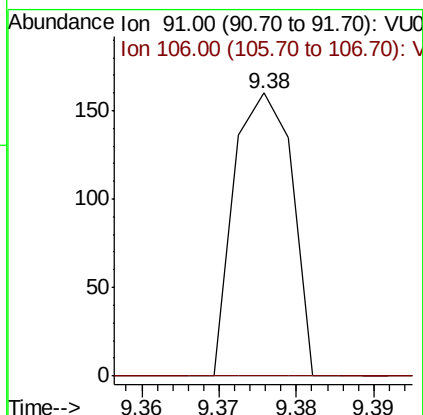
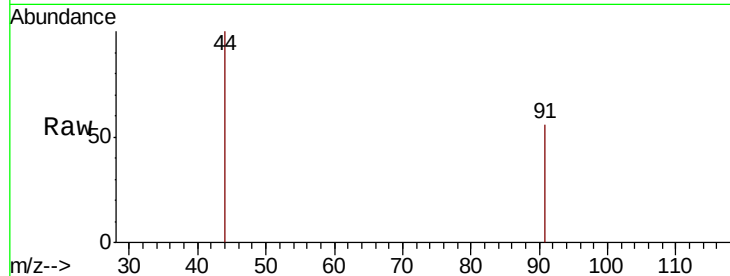




#63
Ethyl Benzene
Concen: 0.004 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.13 min
Lab File: VU027756.D
Acq: 23 Oct 2018 09:55

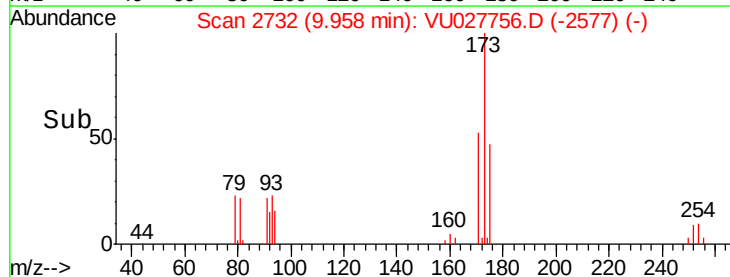
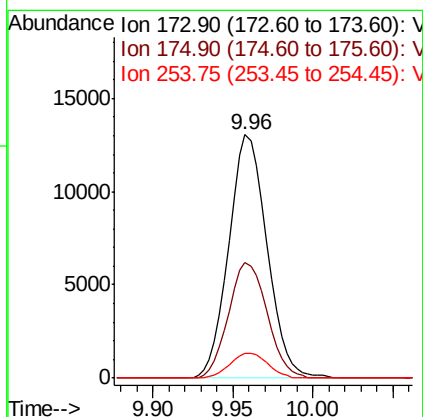
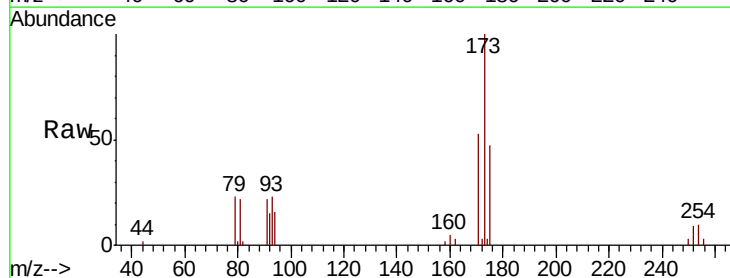
Instrument :
MSVOA_U
ClientSampleId :

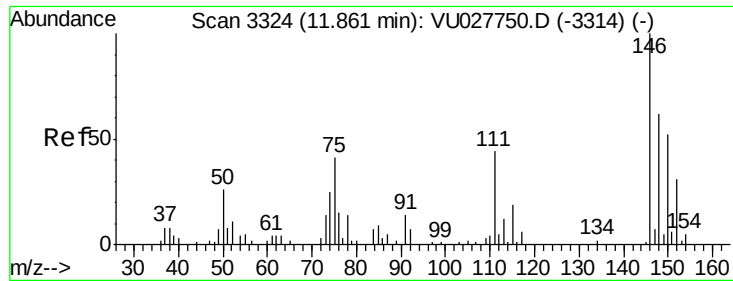
Tot Ion: 91 Resp: 83
Ion Ratio Lower Upper
91 100
106 0.0 23.5 35.3#



#67
Bromoform
Concen: 9.619 ug/l
RT: 9.96 min Scan# 2732
Delta R.T. -0.00 min
Lab File: VU027756.D
Acq: 23 Oct 2018 09:55

Tgt Ion: 173 Resp: 21229
Ion Ratio Lower Upper
173 100
175 47.8 39.6 59.4
254 10.1 7.8 11.6





#68

1,2-Dichlorobenzene-d4

Concen: 9.619 ug/l

RT: 11.86 min Scan# 3325

Delta R.T. 0.00 min

Lab File: VU027756.D

Acq: 23 Oct 2018 09:55

Instrument :

MSVOA_U

ClientSampleId :

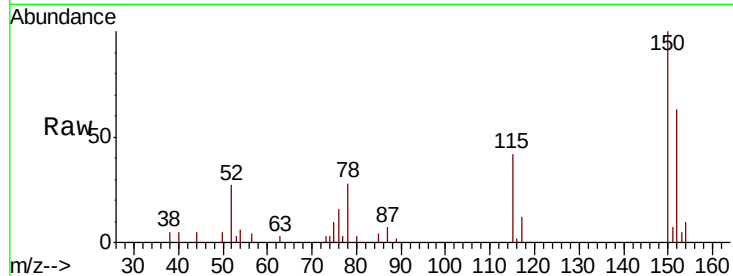
Tot Ion:152 Resp: 5097

Ion Ratio Lower Upper

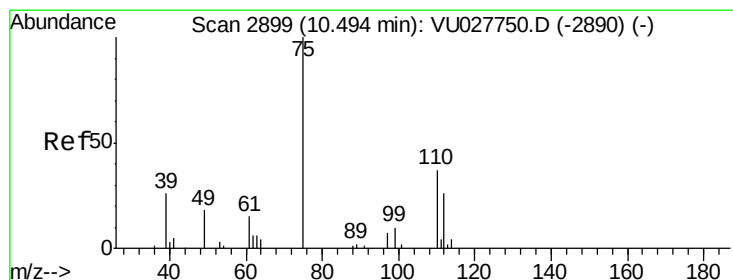
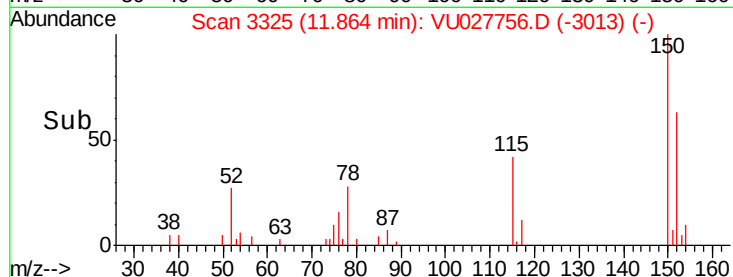
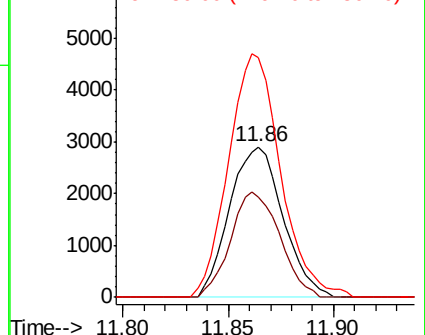
152 100

115 64.4 0.0 130.2

150 157.7 0.0 650.6



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: 0.930 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. -0.18 min

Lab File: VU027756.D

Acq: 23 Oct 2018 09:55

Tgt Ion: 75 Resp: 2914

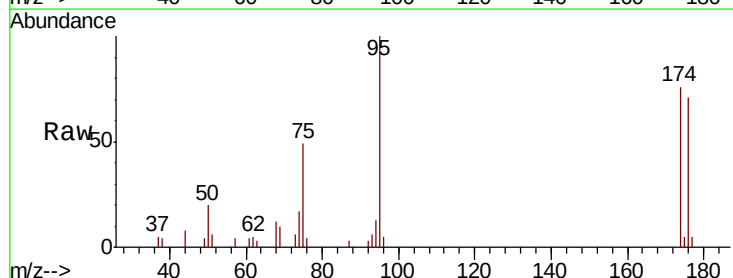
Ion Ratio Lower Upper

75 100

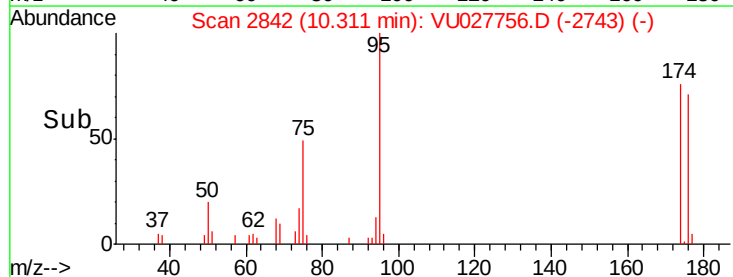
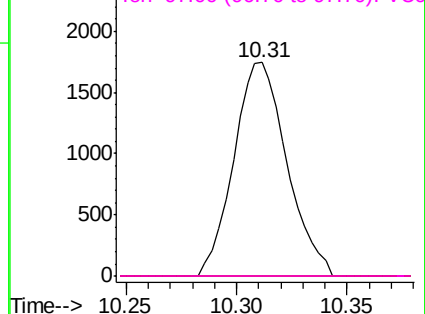
77 0.0 0.0 0.0

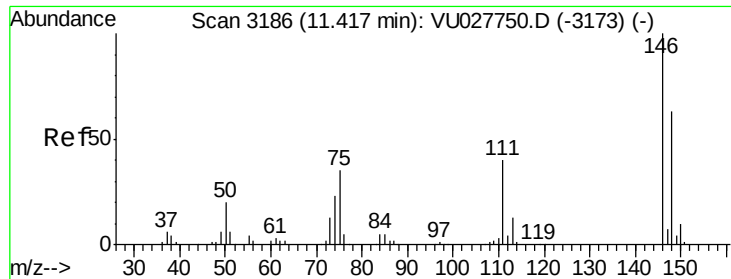
110 0.0 0.0 68.2

97 0.0 0.0 35.2



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





#82

1,3-Dichlorobenzene

Concen: 0.004 ug/l

RT: 11.42 min Scan# 3188

Delta R.T. 0.01 min

Lab File: VU027756.D

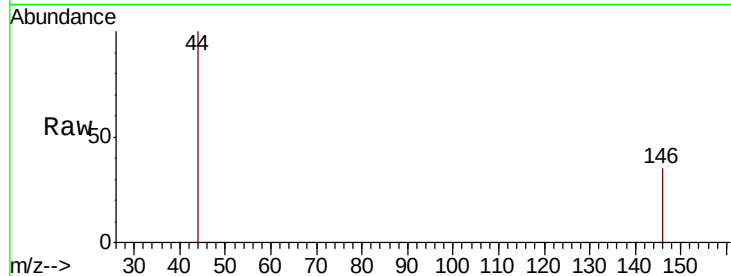
Acq: 23 Oct 2018 09:55

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	32.7	49.1#
148	0.0	50.6	75.8#

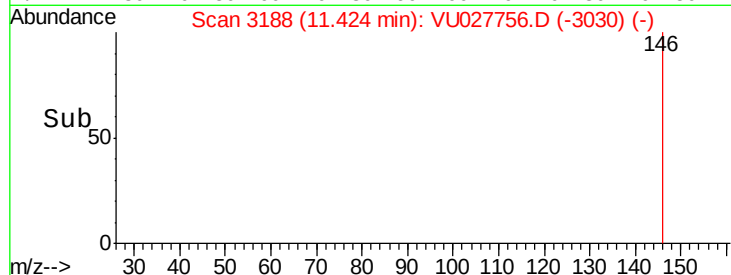


Abundance Ion 146.00 (145.70 to 146.70): V

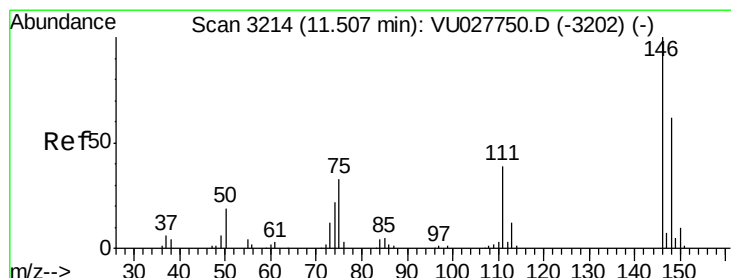
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

11.42



Time-->



#83

1,4-Dichlorobenzene

Concen: 0.002 ug/l

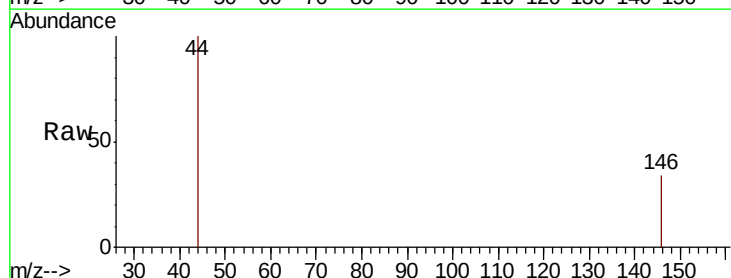
RT: 11.51 min Scan# 3216

Delta R.T. 0.01 min

Lab File: VU027756.D

Acq: 23 Oct 2018 09:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	32.0	48.0#
148	0.0	50.9	76.3#

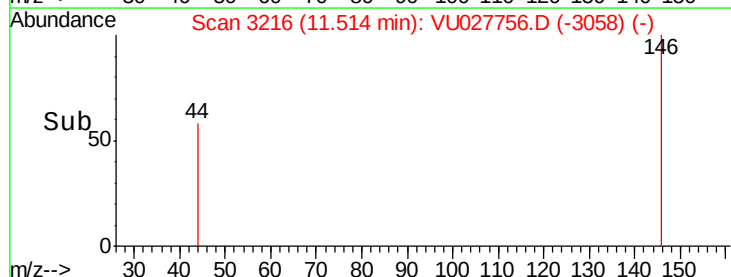


Abundance Ion 146.00 (145.70 to 146.70): V

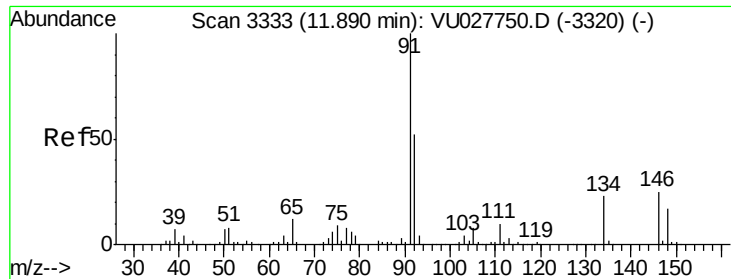
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

11.51



Time-->



#84
 n-Butylbenzene
 Concen: 0.001 ug/l
 RT: 11.89 min Scan# 3332
 Delta R.T. -0.00 min
 Lab File: VU027756.D
 Acq: 23 Oct 2018 09:55

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	91	Resp:	22
Ion	Ratio	Lower	Upper
91	100		
92	0.0	42.1	63.1#
134	0.0	18.6	28.0#

