

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U0102318\
 Data File : VU027763.D
 Acq On : 23 Oct 2018 15:21
 Operator : MD/SY
 Sample : J5617-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 24 05:13:18 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

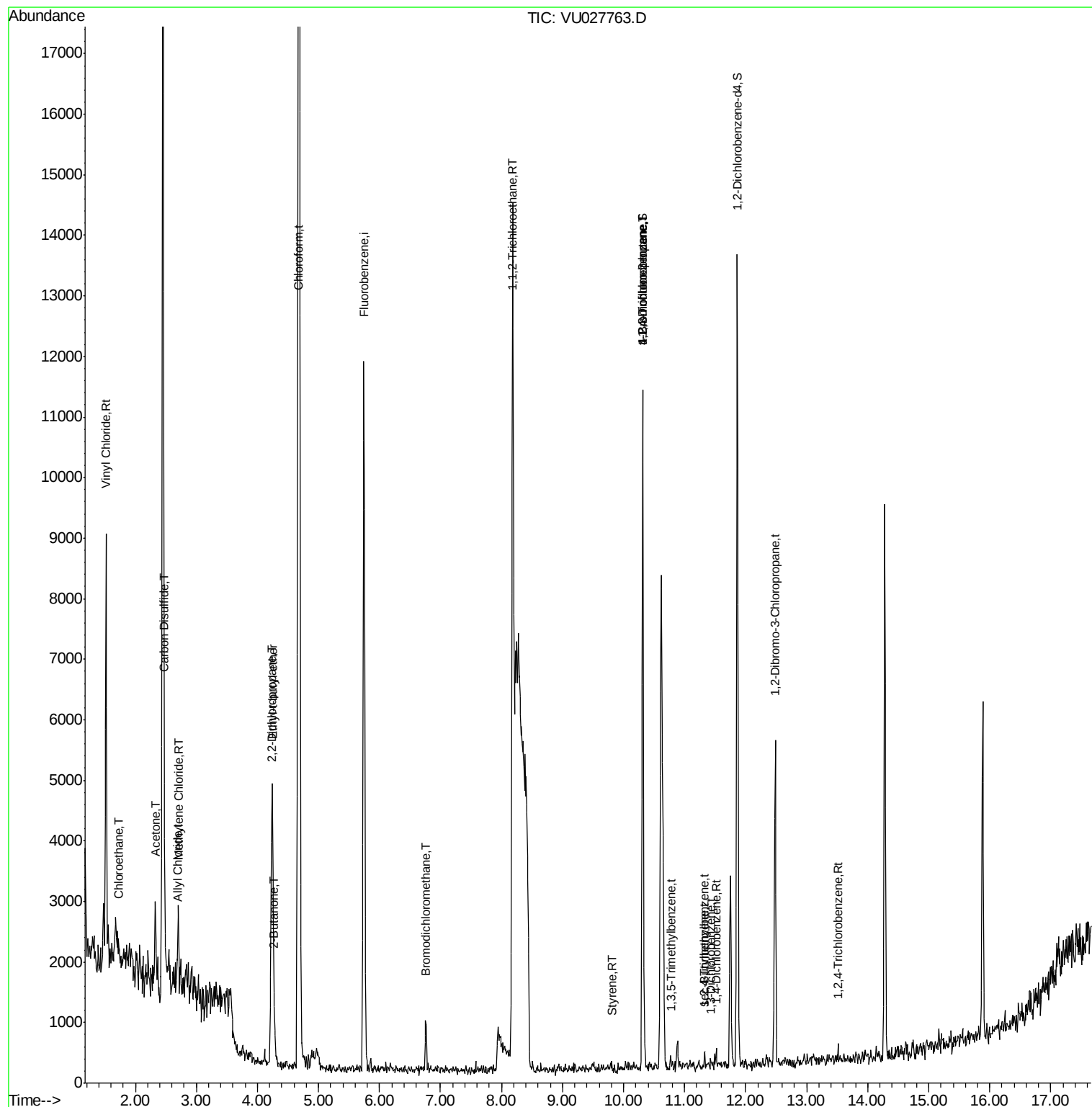
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.75	96	11235	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	4183	0.98	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	3771	0.94	ug/l	0.00
Spiked Amount 1.000			Recovery	=	94.00%	
Target Compounds					Ovalue	
4) Vinyl Chloride	1.52	62	65	0.015	ug/l #	58
6) Chloroethane	1.74	64	78	0.032	ug/l #	44
11) Allyl Chloride	2.68	41	175	0.029	ug/l	90
13) Acetone	2.32	43	1425	2.044	ug/l	92
14) Carbon Disulfide	2.48	76	108	0.012	ug/l #	75
15) Methylene Chloride	2.71	84	376	0.119	ug/l	91
18) 2-Butanone	4.28	43	117	0.101	ug/l	79
21) 2,2-Dichloropropane	4.23	77	41	0.008	ug/l #	55
27) Chloroform	4.68	83	26378	4.401	ug/l	95
32) Ethyl-t-butyl ether	4.24	59	45	0.005	ug/l #	38
44) Bromodichloromethane	6.76	83	744	0.165	ug/l #	90
46) t-1,4-Dichloro-2-butene	10.31	75	2289	2.353	ug/l #	19
52) 1,1,2-Trichloroethane	8.19	97	89	0.040	ug/l #	13
66) Styrene	9.81	104	65	0.007	ug/l #	23
71) 1,2,3-Trichloropropane	10.31	75	2289	0.987	ug/l #	47
75) 1,3,5-Trimethylbenzene	10.77	105	41	0.003	ug/l #	30
78) 1,2,4-Trimethylbenzene	11.33	105	153	0.012	ug/l #	33
79) sec-Butylbenzene	11.33	105	153	0.009	ug/l #	58
82) 1,3-Dichlorobenzene	11.42	146	47	0.007	ug/l #	25
83) 1,4-Dichlorobenzene	11.51	146	183	0.027	ug/l #	54
86) 1,2-Dibromo-3-Chloropropan	12.48	75	67	0.121	ug/l #	9
87) 1,2,4-Trichlorobenzene	13.51	180	73	0.016	ug/l #	35
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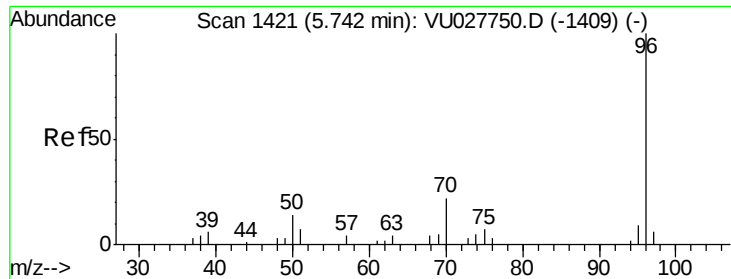
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU102318\
Data File : VU027763.D
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Misc : 25.0mL/MSVOA U/WATER
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA U\METHOD\524U0102318DW.M
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QLast Update : Tue Oct 23 09:12:15 2018
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.75 min Scan# 1422

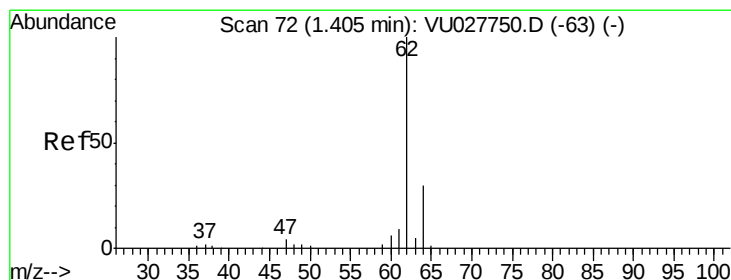
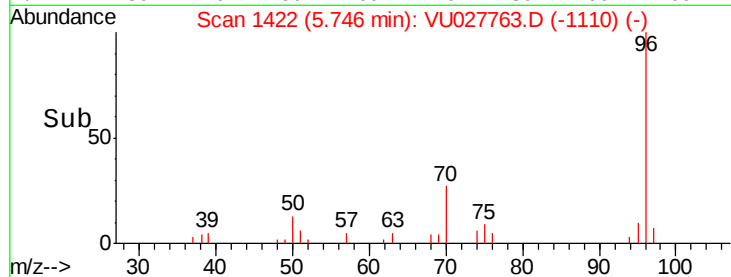
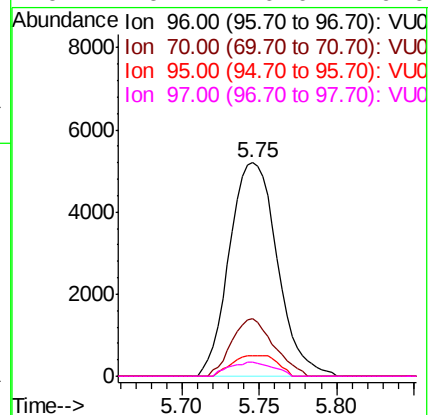
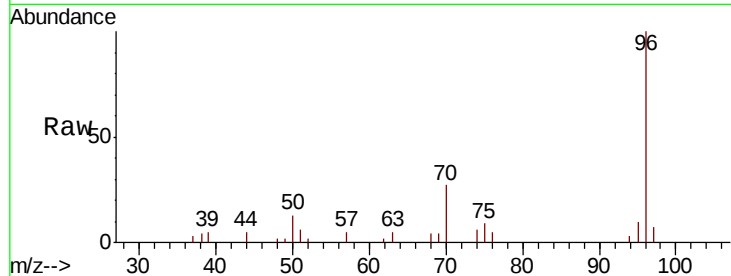
Delta R.T. 0.00 min

Lab File: VU027763.D

Acq: 23 Oct 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	96	Resp:	11235
Ion	Ratio	Lower	Upper
96	100		
70	23.5	17.7	26.5
95	9.2	7.0	10.6
97	6.1	0.0	0.0#



#4

Vinyl Chloride

Concen: 0.015 ug/l

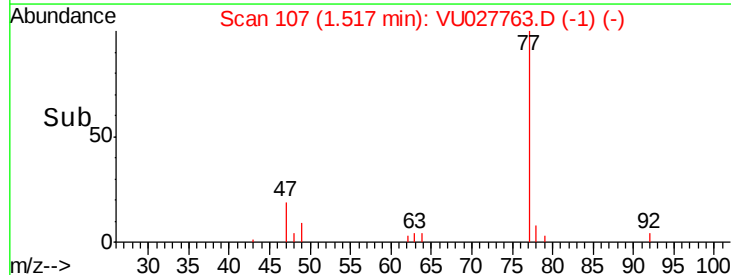
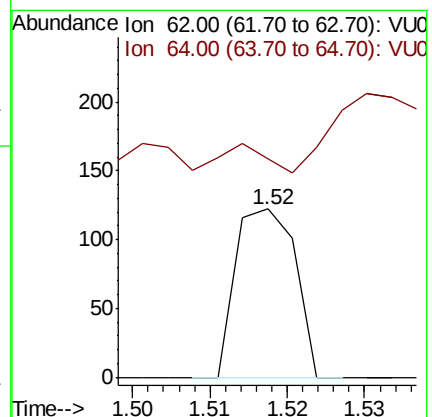
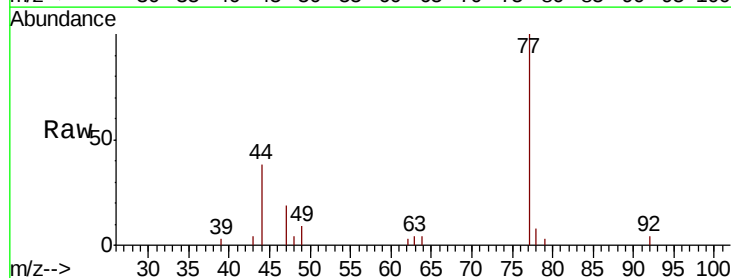
RT: 1.52 min Scan# 107

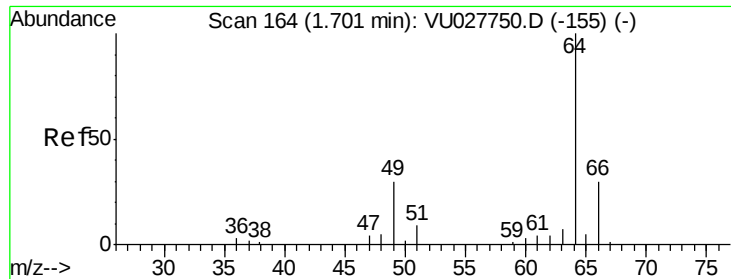
Delta R.T. 0.11 min

Lab File: VU027763.D

Acq: 23 Oct 2018 15:21

Tgt Ion:	62	Resp:	65
Ion	Ratio	Lower	Upper
62	100		
64	7.4	24.3	36.5#





#6

Chloroethane

Concen: 0.032 ug/l

RT: 1.74 min Scan# 176

Delta R.T. 0.04 min

Lab File: VU027763.D

Acq: 23 Oct 2018 15:21

Instrument :

MSVOA_U

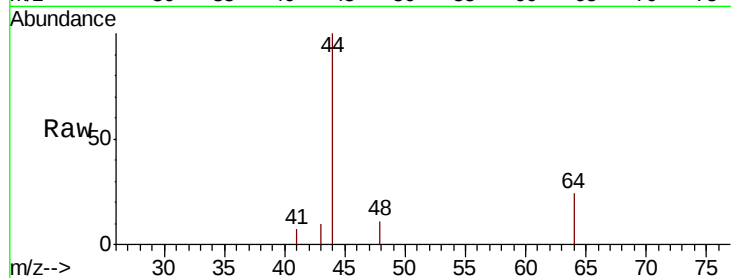
ClientSampleId :

Tot Ion: 64 Resp: 78

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

1.74

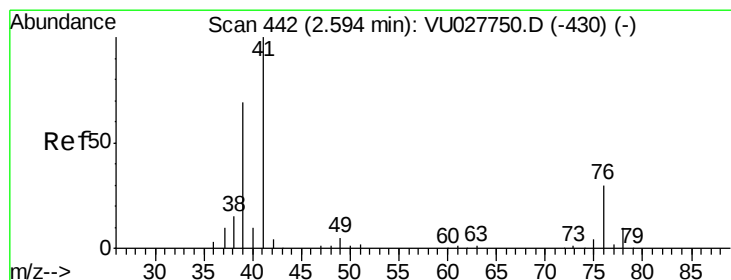
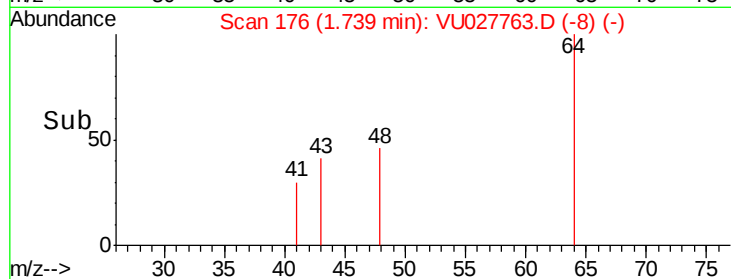
300

200

100

0

Time--> 1.72 1.73 1.74 1.75



#11

Allyl Chloride

Concen: 0.029 ug/l

RT: 2.68 min Scan# 470

Delta R.T. 0.09 min

Lab File: VU027763.D

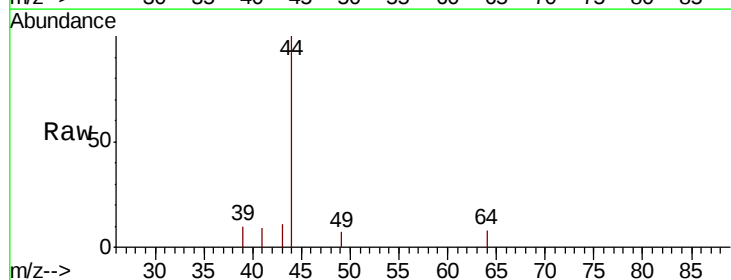
Acq: 23 Oct 2018 15:21

Tgt Ion: 41 Resp: 175

Ion Ratio Lower Upper

41 100

39 77.7 55.4 83.0



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

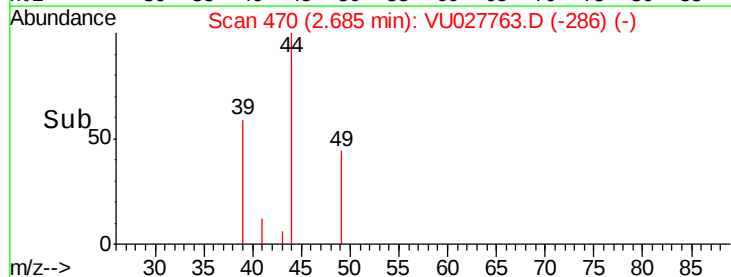
150

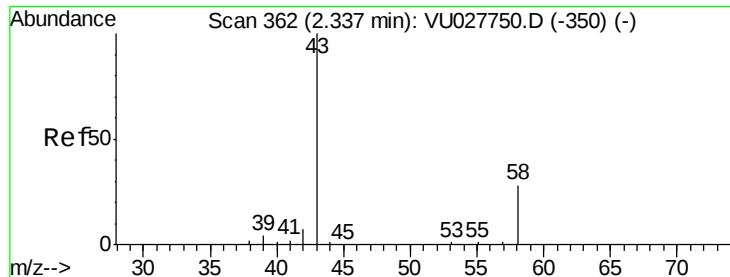
100

50

0

Time--> 2.66 2.68 2.70





#13

Acetone

Concen: 2.044 ug/l

RT: 2.32 min Scan# 358

Delta R.T. -0.01 min

Lab File: VU027763.D

Acq: 23 Oct 2018 15:21

Instrument :

MSVOA_U

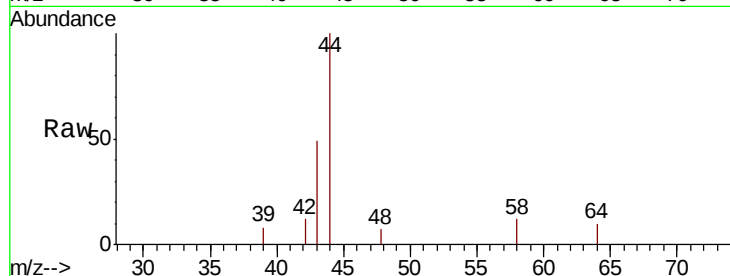
ClientSampleId :

Tot Ion: 43 Resp: 1425

Ion Ratio Lower Upper

43 100

58 23.7 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

2.35

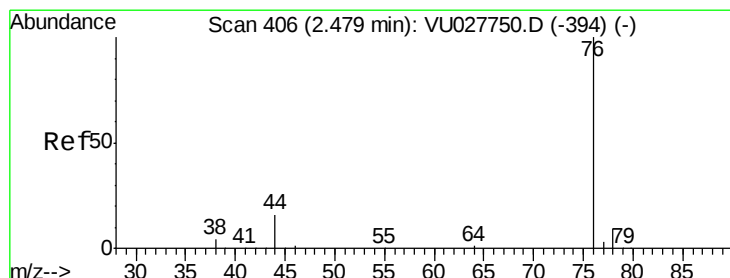
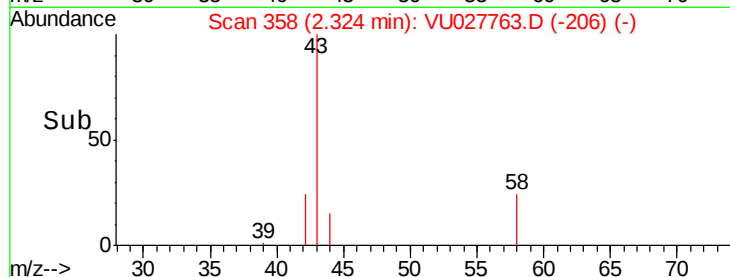
200

400

600

800

Time-->



#14

Carbon Disulfide

Concen: 0.012 ug/l

RT: 2.48 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU027763.D

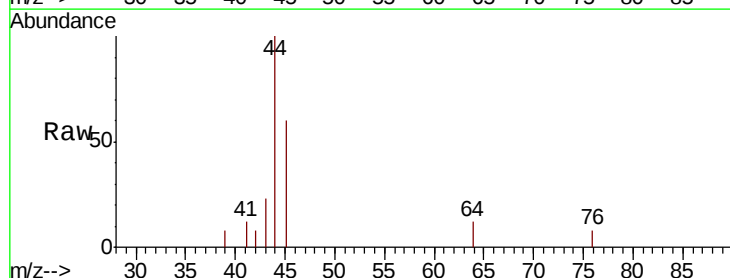
Acq: 23 Oct 2018 15:21

Tgt Ion: 76 Resp: 108

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

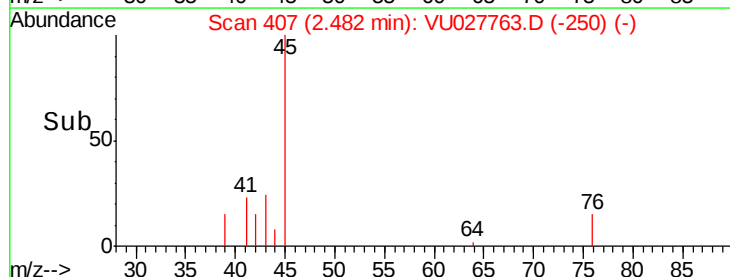
2.48

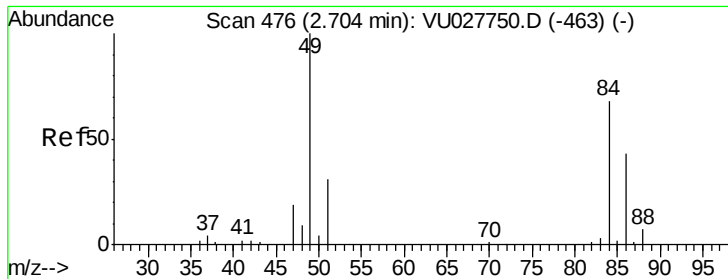
2.49

100

50

Time-->

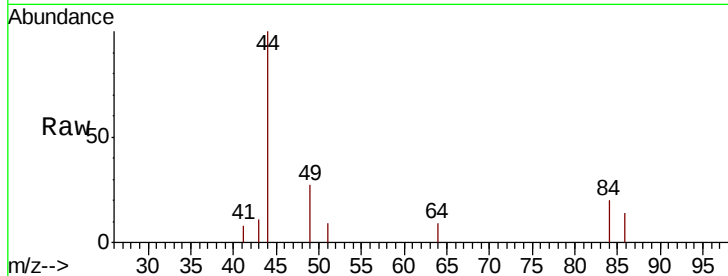




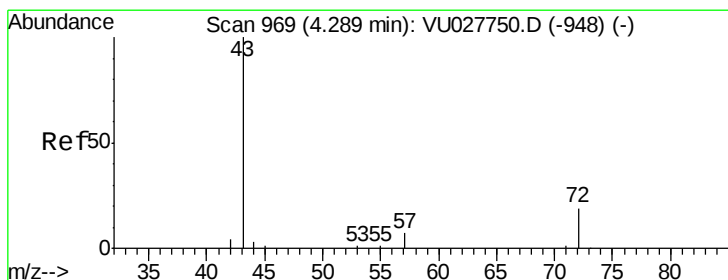
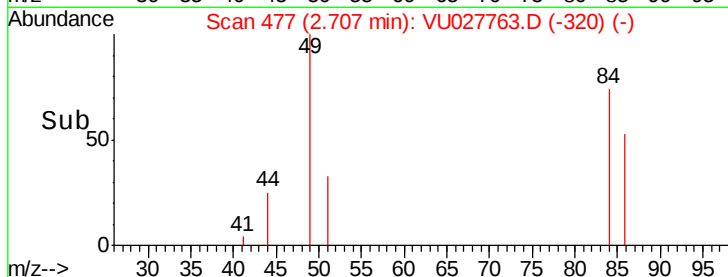
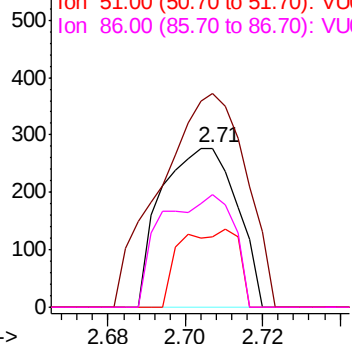
#15
Methvlene Chloride
Concen: 0.119 ug/l
RT: 2.71 min Scan# 477
Delta R.T. 0.00 min
Lab File: VU027763.D
Acq: 23 Oct 2018 15:21

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 376
Ion Ratio Lower Upper
84 100
49 134.3 118.5 177.7
51 44.0 0.0 91.0
86 70.8 50.7 76.1

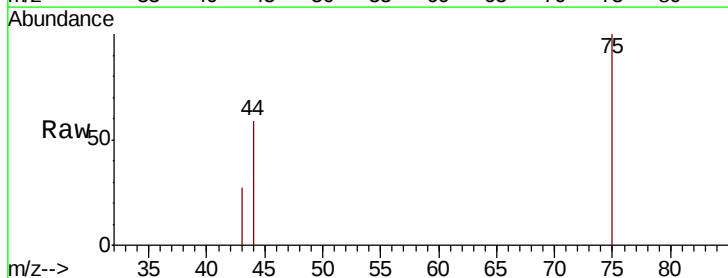


Abundance Ion 84.00 (83.70 to 84.70): VU0
Ion 49.00 (48.70 to 49.70): VU0
Ion 51.00 (50.70 to 51.70): VU0
Ion 86.00 (85.70 to 86.70): VU0

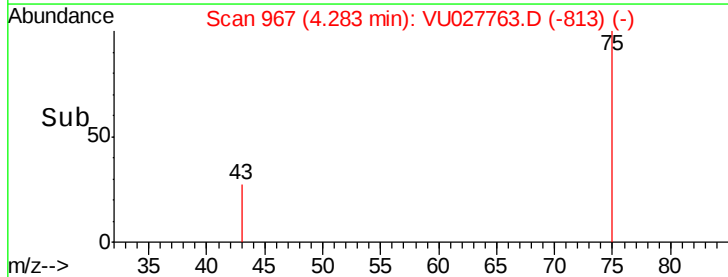
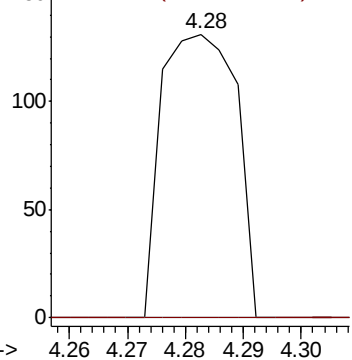


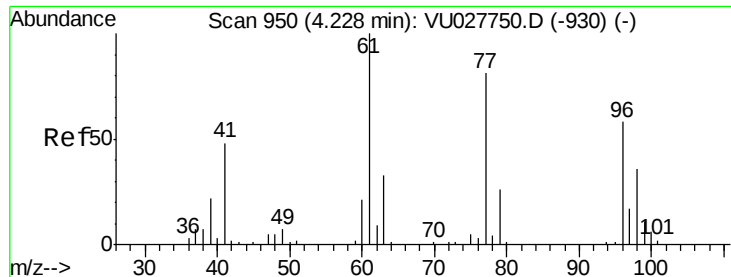
#18
2-Butanone
Concen: 0.101 ug/l
RT: 4.28 min Scan# 967
Delta R.T. -0.01 min
Lab File: VU027763.D
Acq: 23 Oct 2018 15:21

Tgt Ion: 43 Resp: 117
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

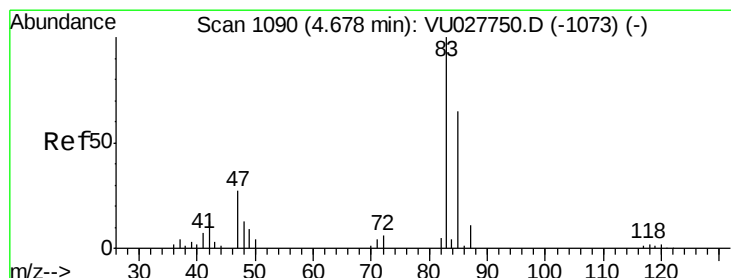
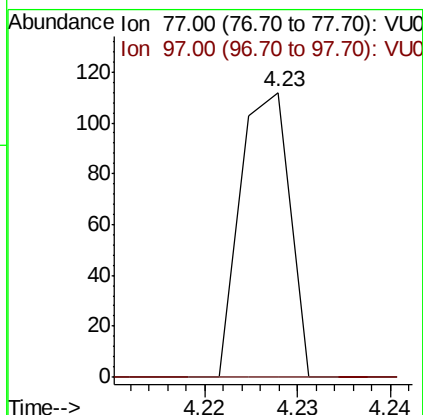
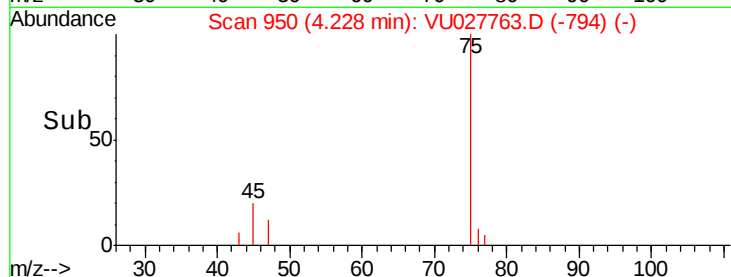
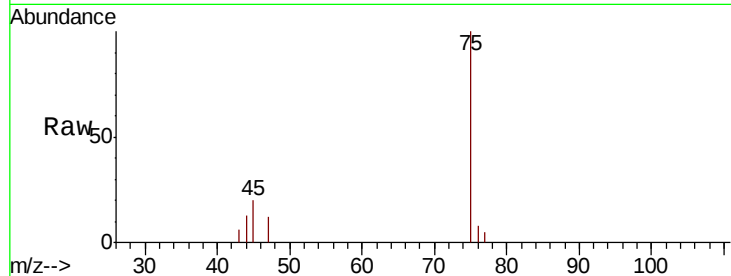




#21
 2,2-Dichloropropane
 Concen: 0.008 ug/l
 RT: 4.23 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VU027763.D
 Acq: 23 Oct 2018 15:21

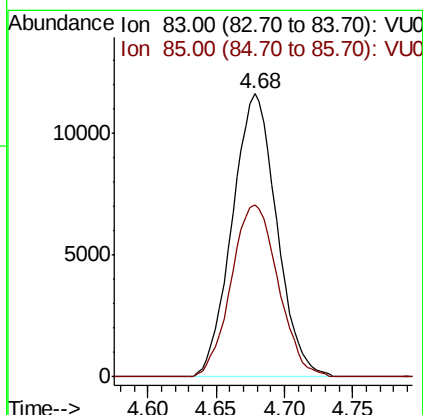
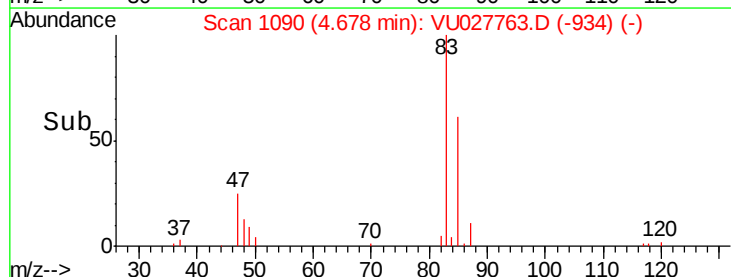
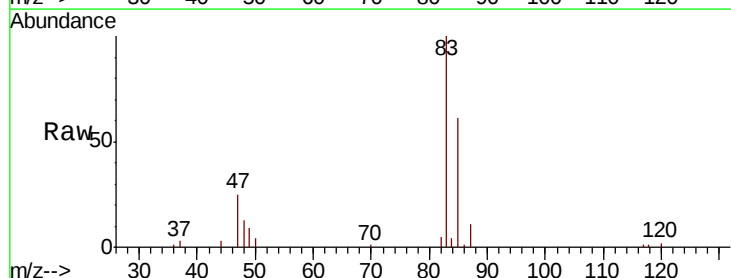
Instrument :
 MSVOA_U
 ClientSampleId :

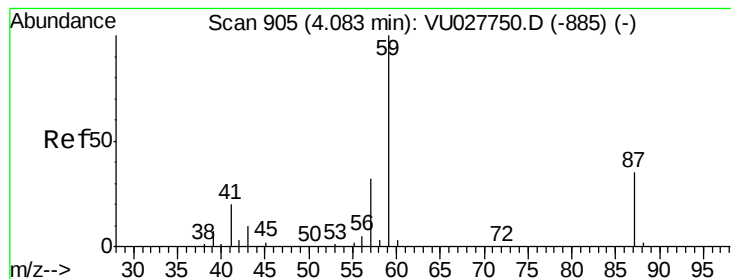
Tot Ion: 77 Resp: 41
 Ion Ratio Lower Upper
 77 100
 97 0.0 16.9 25.3#



#27
 Chloroform
 Concen: 4.401 ug/l
 RT: 4.68 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VU027763.D
 Acq: 23 Oct 2018 15:21

Tgt Ion: 83 Resp: 26378
 Ion Ratio Lower Upper
 83 100
 85 60.9 0.0 130.2





#32

Ethyl-t-butyl ether

Concen: 0.005 ug/l

RT: 4.24 min Scan# 955

Delta R.T. 0.16 min

Lab File: VU027763.D

Acq: 23 Oct 2018 15:21

Instrument :

MSVOA_U

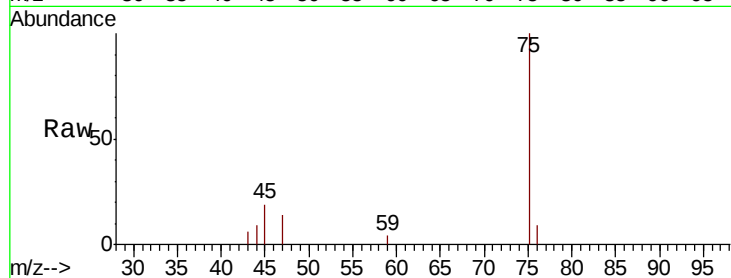
ClientSampleId :

Tot Ion: 59 Resp: 45

Ion Ratio Lower Upper

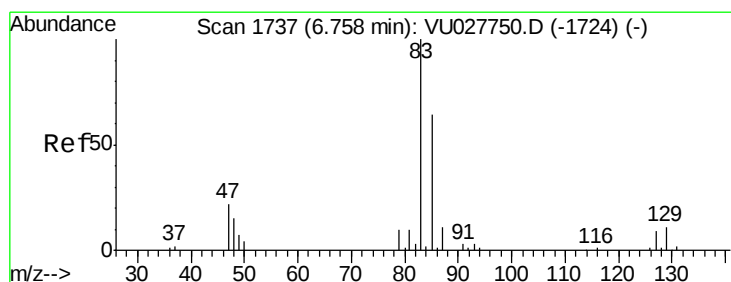
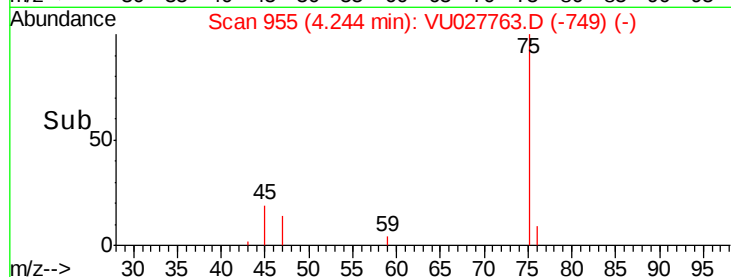
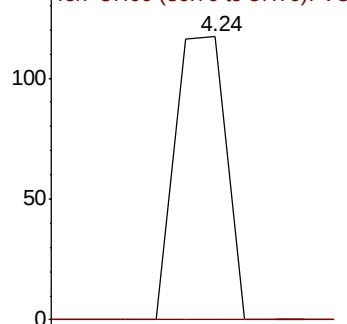
59 100

87 0.0 29.4 44.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#44

Bromodichloromethane

Concen: 0.165 ug/l

RT: 6.76 min Scan# 1739

Delta R.T. 0.01 min

Lab File: VU027763.D

Acq: 23 Oct 2018 15:21

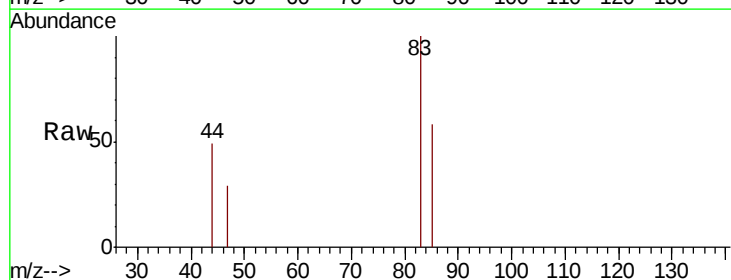
Tgt Ion: 83 Resp: 744

Ion Ratio Lower Upper

83 100

85 58.1 51.5 77.3

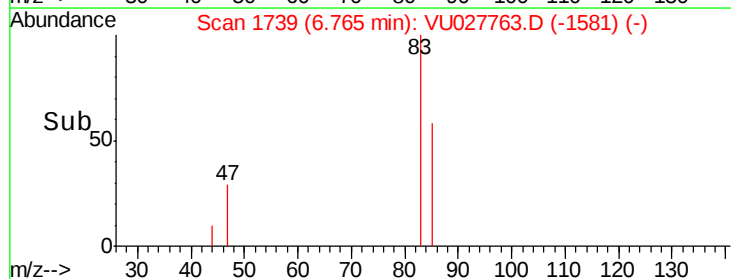
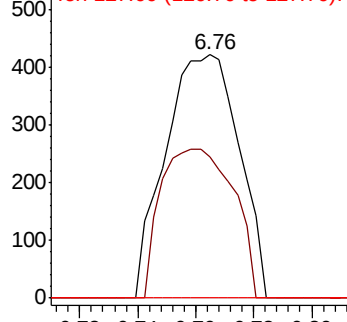
127 0.0 7.0 10.4#

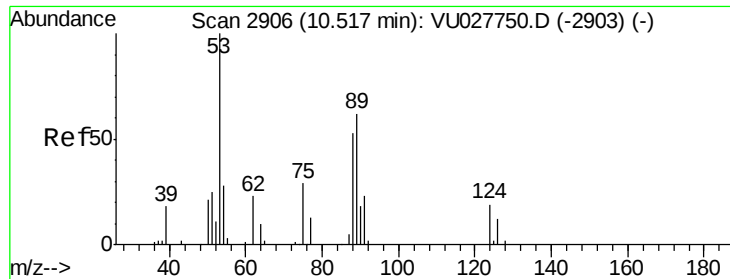


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V

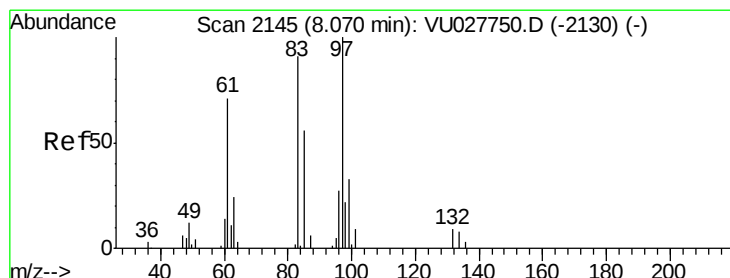
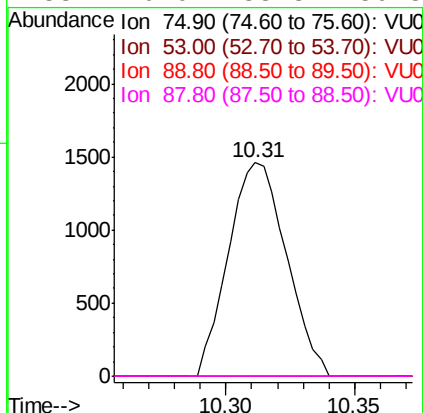
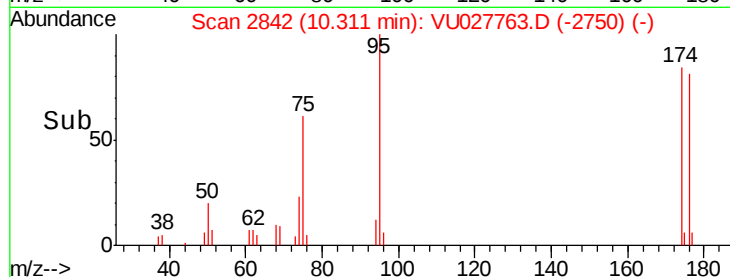
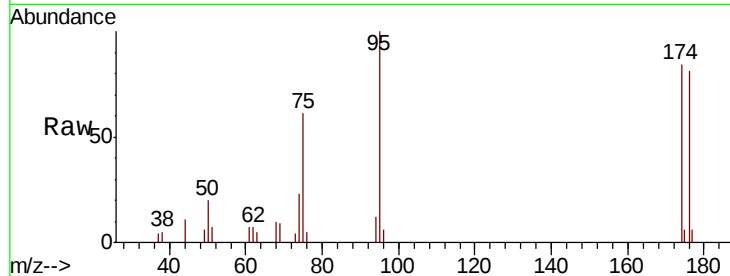




#46
t-1,4-Dichloro-2-butene
Concen: 2.353 ug/l
RT: 10.31 min Scan# 2842
Delta R.T. -0.21 min
Lab File: VU027763.D
Acq: 23 Oct 2018 15:21

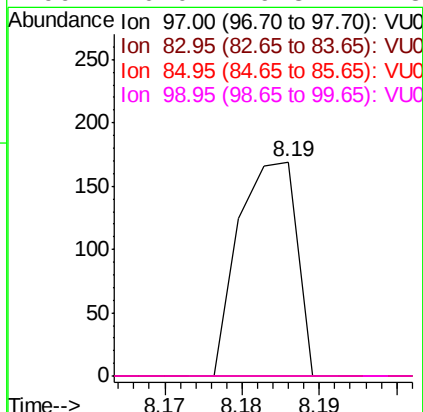
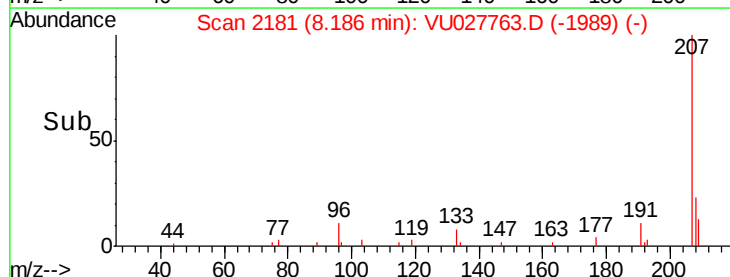
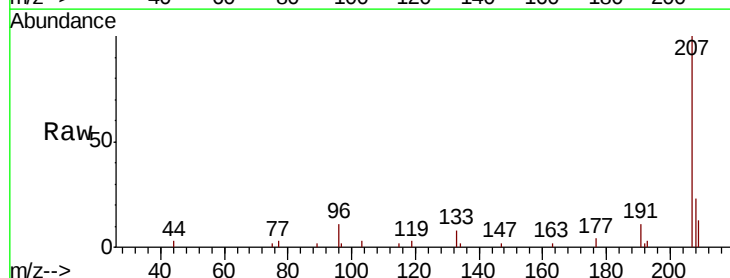
Instrument :
MSVOA_U
ClientSampleId :

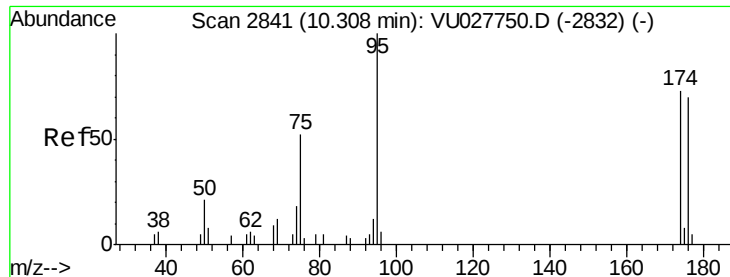
Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	68.2	102.4#
89	0.0	41.8	62.6#
88	0.0	33.8	50.8#



#52
1,1,2-Trichloroethane
Concen: 0.040 ug/l
RT: 8.19 min Scan# 2181
Delta R.T. 0.12 min
Lab File: VU027763.D
Acq: 23 Oct 2018 15:21

Tgt 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#





#57

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 10.31 min Scan# 2842

Delta R.T. 0.00 min

Lab File: VU027763.D

Acq: 23 Oct 2018 15:21

Instrument :

MSVOA_U

ClientSampleId :

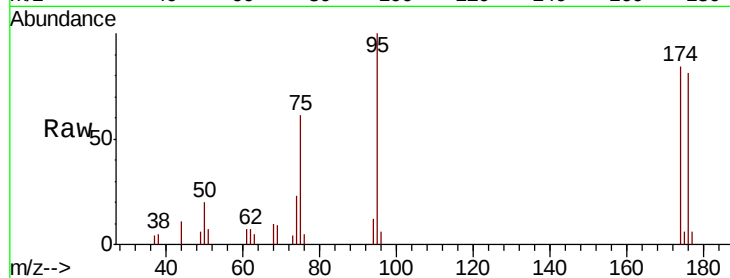
Tot Ion: 95 Resp: 4183

Ion Ratio Lower Upper

95 100

174 76.4 64.5 96.7

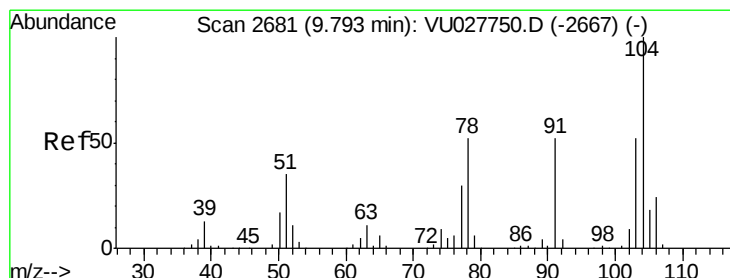
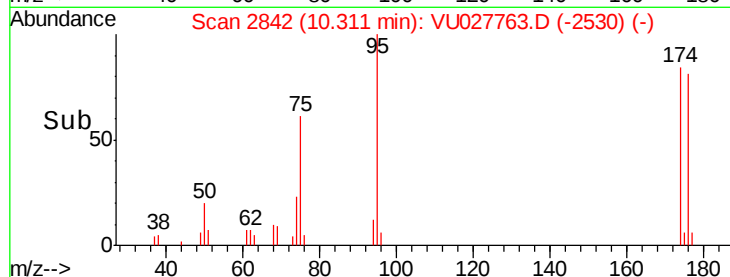
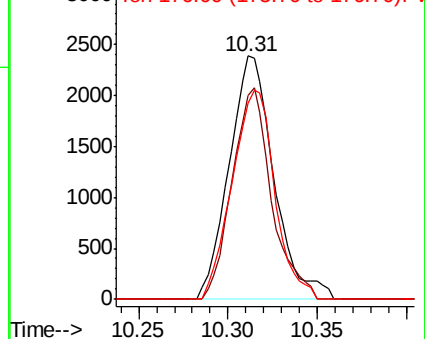
176 81.7 58.3 87.5



Abundance Ion 95.00 (94.70 to 95.70): VU027750.D (-2832) (-)

Ion 174.00 (173.70 to 174.70): VU027750.D (-2832) (-)

Ion 176.00 (175.70 to 176.70): VU027750.D (-2832) (-)



#66

Styrene

Concen: 0.007 ug/l

RT: 9.81 min Scan# 2685

Delta R.T. 0.01 min

Lab File: VU027763.D

Acq: 23 Oct 2018 15:21

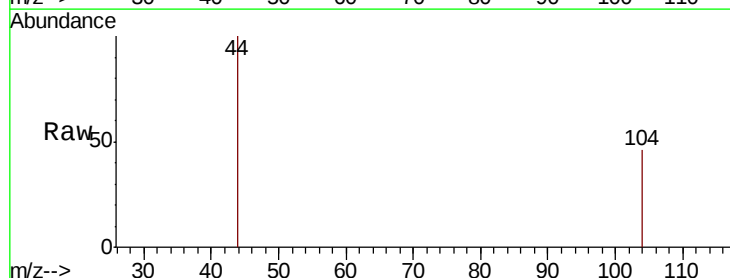
Tgt Ion: 104 Resp: 65

Ion Ratio Lower Upper

104 100

78 0.0 45.2 67.8#

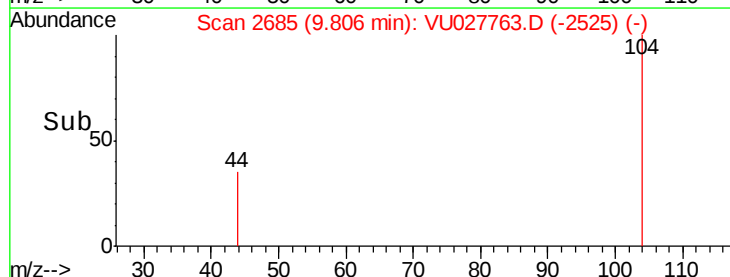
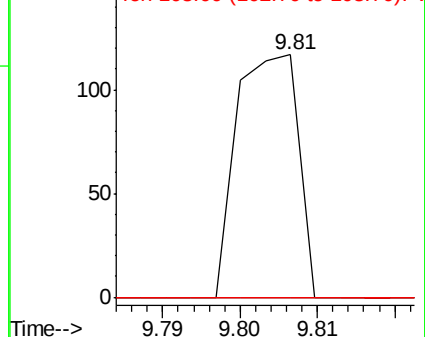
103 0.0 44.8 67.2#

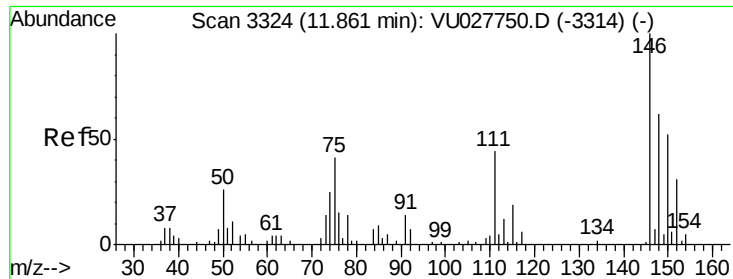


Abundance Ion 104.00 (103.70 to 104.70): VU027750.D (-2667) (-)

Ion 78.00 (77.70 to 78.70): VU027750.D (-2667) (-)

Ion 103.00 (102.70 to 103.70): VU027750.D (-2667) (-)

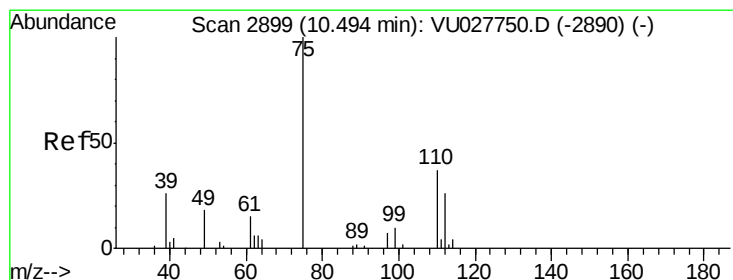
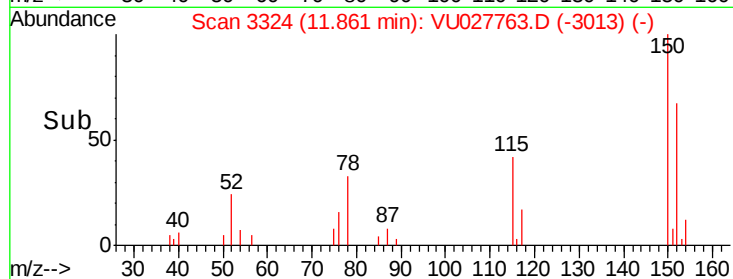
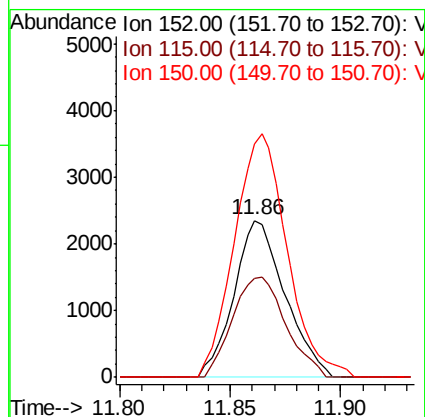
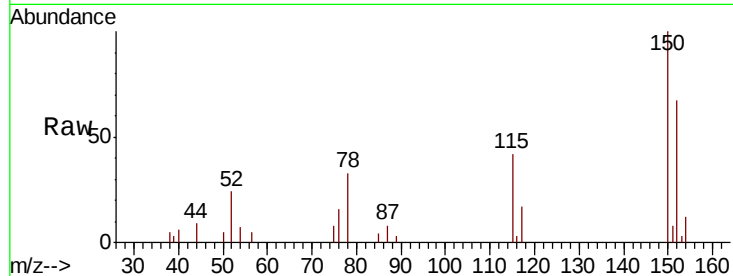




#68
 1,2-Dichlorobenzene-d4
 Concen: N.D. ug/l
 RT: 11.86 min Scan# 3324
 Delta R.T. 0.00 min
 Lab File: VU027763.D
 Acq: 23 Oct 2018 15:21

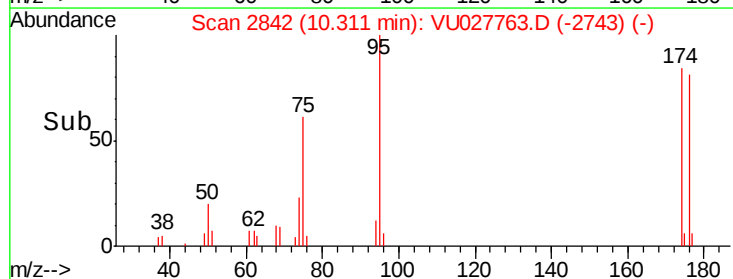
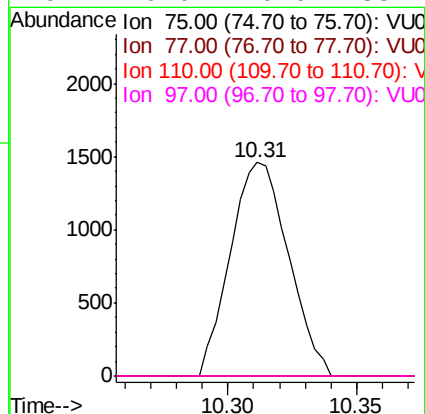
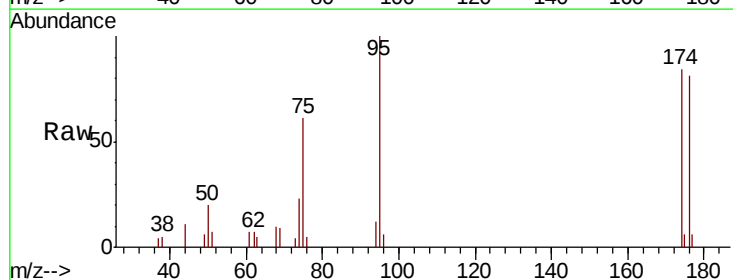
Instrument :
 MSVOA_U
 ClientSampled :

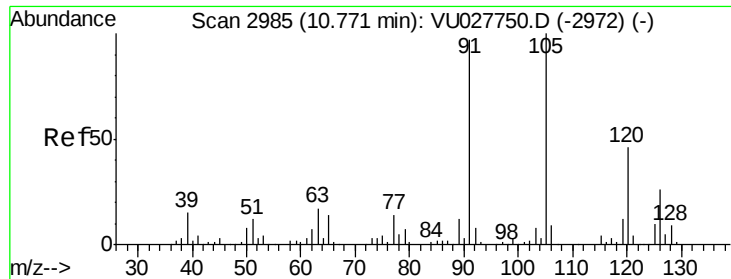
Tot Ion:152 Resp: 3771
 Ion Ratio Lower Upper
 152 100
 115 66.7 0.0 130.2
 150 161.2 0.0 650.6



#71
 1,2,3-Trichloropropane
 Concen: 0.987 ug/l
 RT: 10.31 min Scan# 2842
 Delta R.T. -0.18 min
 Lab File: VU027763.D
 Acq: 23 Oct 2018 15:21

Tgt Ion: 75 Resp: 2289
 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





#75

1,3,5-Trimethylbenzene

Concen: 0.003 ug/l

RT: 10.77 min Scan# 2984

Delta R.T. -0.00 min

Lab File: VU027763.D

Acq: 23 Oct 2018 15:21

Instrument :

MSVOA_U

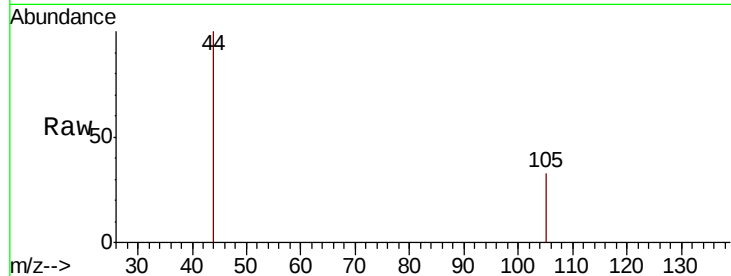
ClientSampleId :

Tot Ion:105 Resp: 41

Ion Ratio Lower Upper

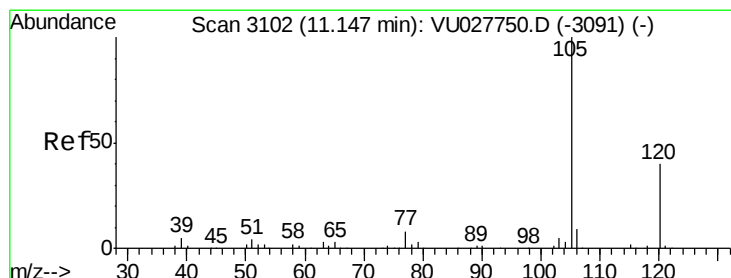
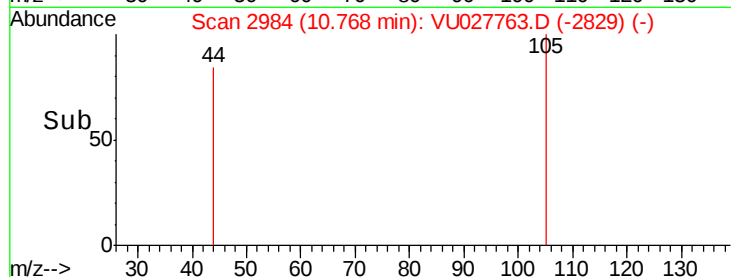
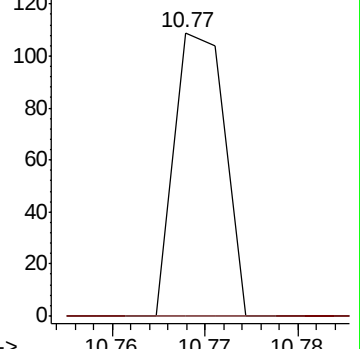
105 100

120 0.0 37.2 55.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

1,2,4-Trimethylbenzene

Concen: 0.012 ug/l

RT: 11.33 min Scan# 3158

Delta R.T. 0.18 min

Lab File: VU027763.D

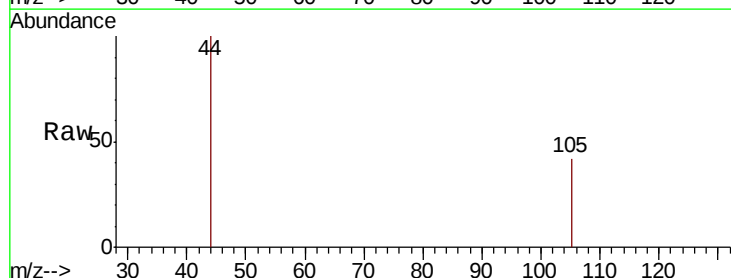
Acq: 23 Oct 2018 15:21

Tgt Ion:105 Resp: 153

Ion Ratio Lower Upper

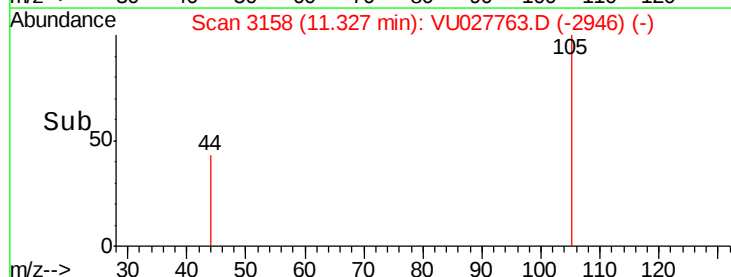
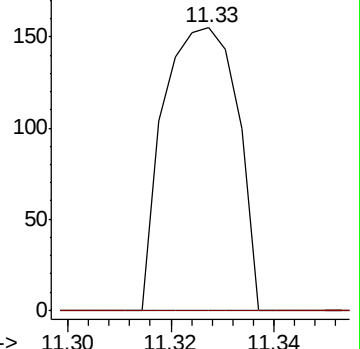
105 100

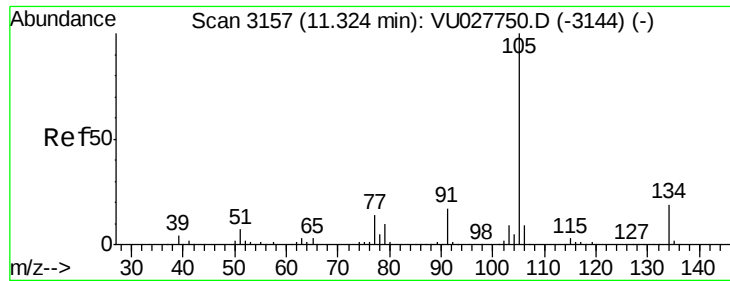
120 0.0 21.6 64.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#79

sec-Butylbenzene

Concen: 0.009 ug/l

RT: 11.33 min Scan# 3158

Delta R.T. 0.00 min

Lab File: VU027763.D

Acq: 23 Oct 2018 15:21

Instrument :

MSVOA_U

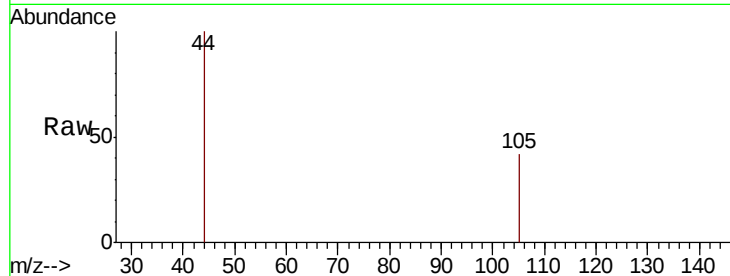
ClientSampleId :

Tot Ion:105 Resp: 153

Ion Ratio Lower Upper

105 100

134 0.0 15.2 22.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.33

150

100

50

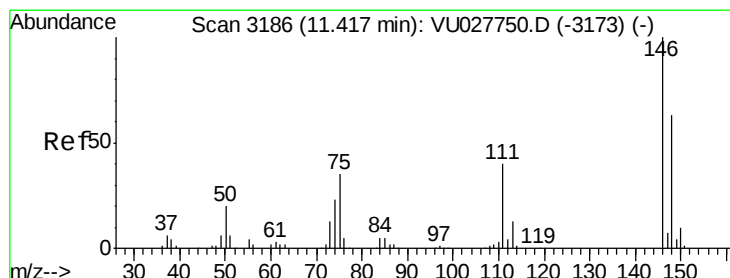
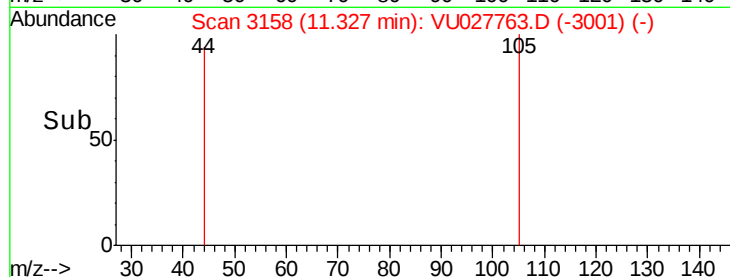
0

Time-->

11.30

11.32

11.34



#82

1,3-Dichlorobenzene

Concen: 0.007 ug/l

RT: 11.42 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VU027763.D

Acq: 23 Oct 2018 15:21

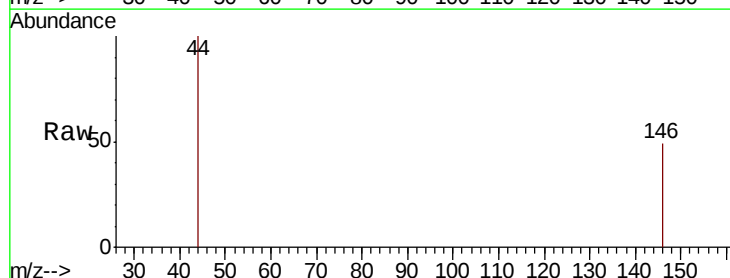
Tgt Ion:146 Resp: 47

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

150

100

50

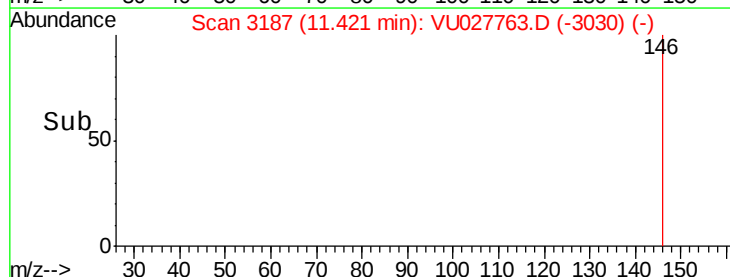
0

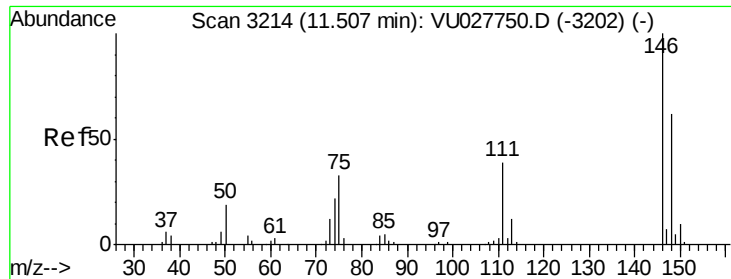
Time-->

11.41

11.42

11.43

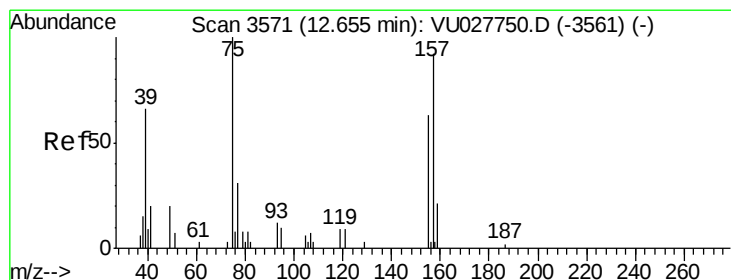
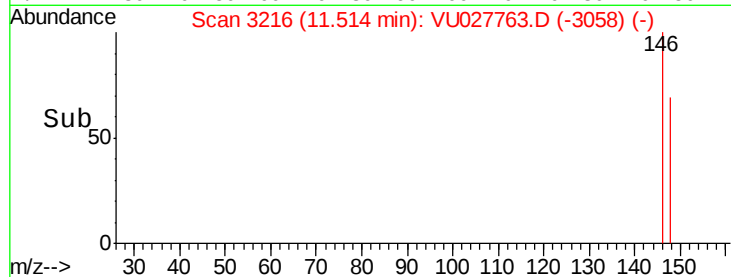
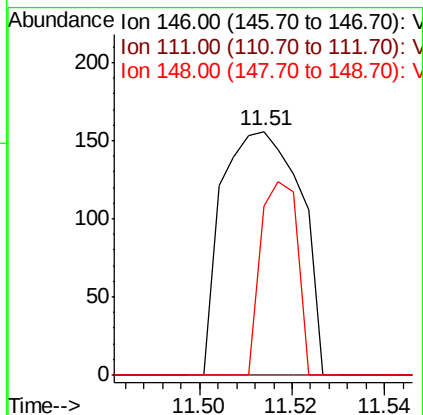
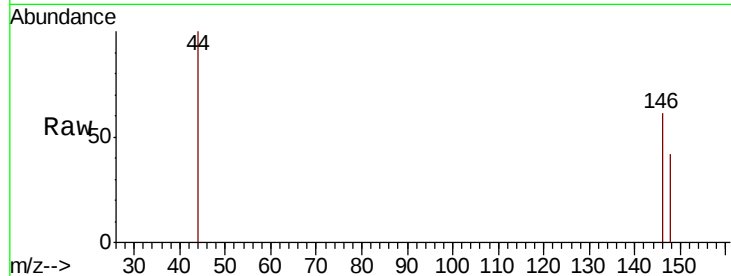




#83
 1,4-Dichlorobenzene
 Concen: 0.027 ug/l
 RT: 11.51 min Scan# 3216
 Delta R.T. 0.01 min
 Lab File: VU027763.D
 Acq: 23 Oct 2018 15:21

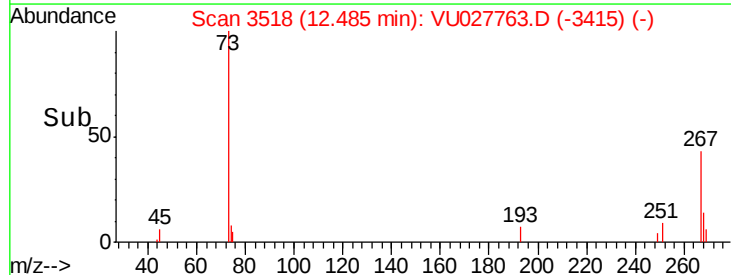
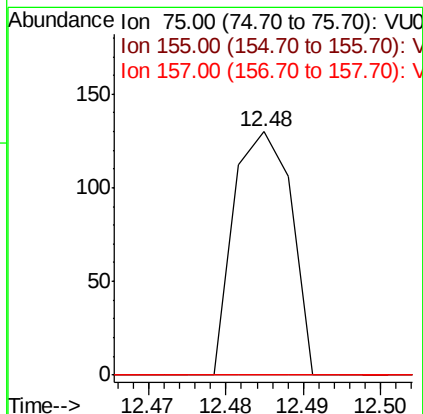
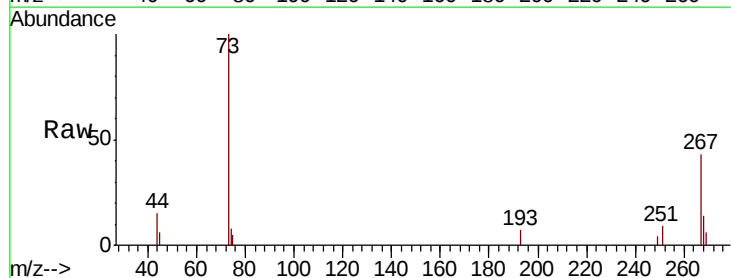
Instrument :
 MSVOA_U
 ClientSampleId :

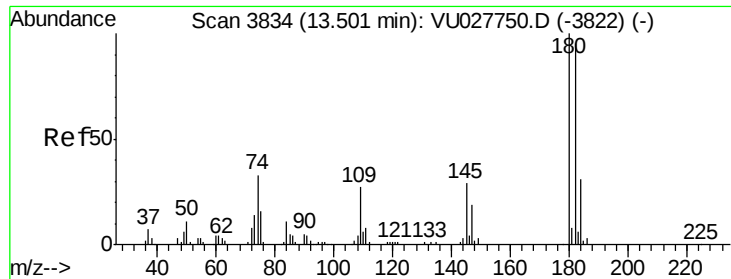
Tot Ion:146 Resp: 183
 Ion Ratio Lower Upper
 146 100
 111 0.0 32.0 48.0#
 148 36.6 50.9 76.3#



#86
 1,2-Dibromo-3-Chloropropane
 Concen: 0.121 ug/l
 RT: 12.48 min Scan# 3518
 Delta R.T. -0.17 min
 Lab File: VU027763.D
 Acq: 23 Oct 2018 15:21

Tgt Ion: 75 Resp: 67
 Ion Ratio Lower Upper
 75 100
 155 0.0 55.5 83.3#
 157 0.0 71.0 106.4#

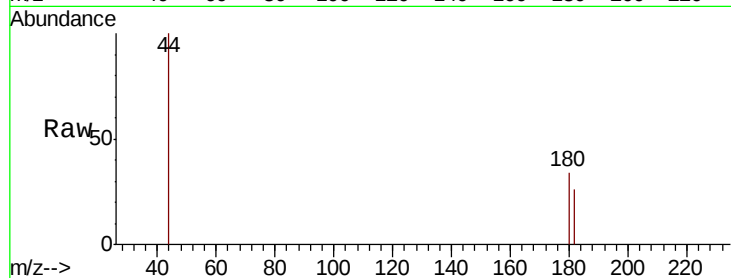




#87
 1,2,4-Trichlorobenzene
 Concen: 0.016 ug/l
 RT: 13.51 min Scan# 3838
 Delta R.T. 0.01 min
 Lab File: VU027763.D
 Acq: 23 Oct 2018 15:21

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	28.8	75.9	113.9#
145	0.0	23.6	35.4#



Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

