

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU063018\
 Data File : VU025103.D
 Acq On : 30 Jun 2018 21:14
 Operator : MD/SY
 Sample : J3759-16
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW124-180626

Quant Time: Jul 02 07:36:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	217070	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	326931	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	307253	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	170295	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	165890	46.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.62%	
35) Dibromofluoromethane	4.89	113	129582	47.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.52%	
50) Toluene-d8	7.57	98	472550	47.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.50%	
62) 4-Bromofluorobenzene	10.31	95	181069	46.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.16%	

Target Compounds

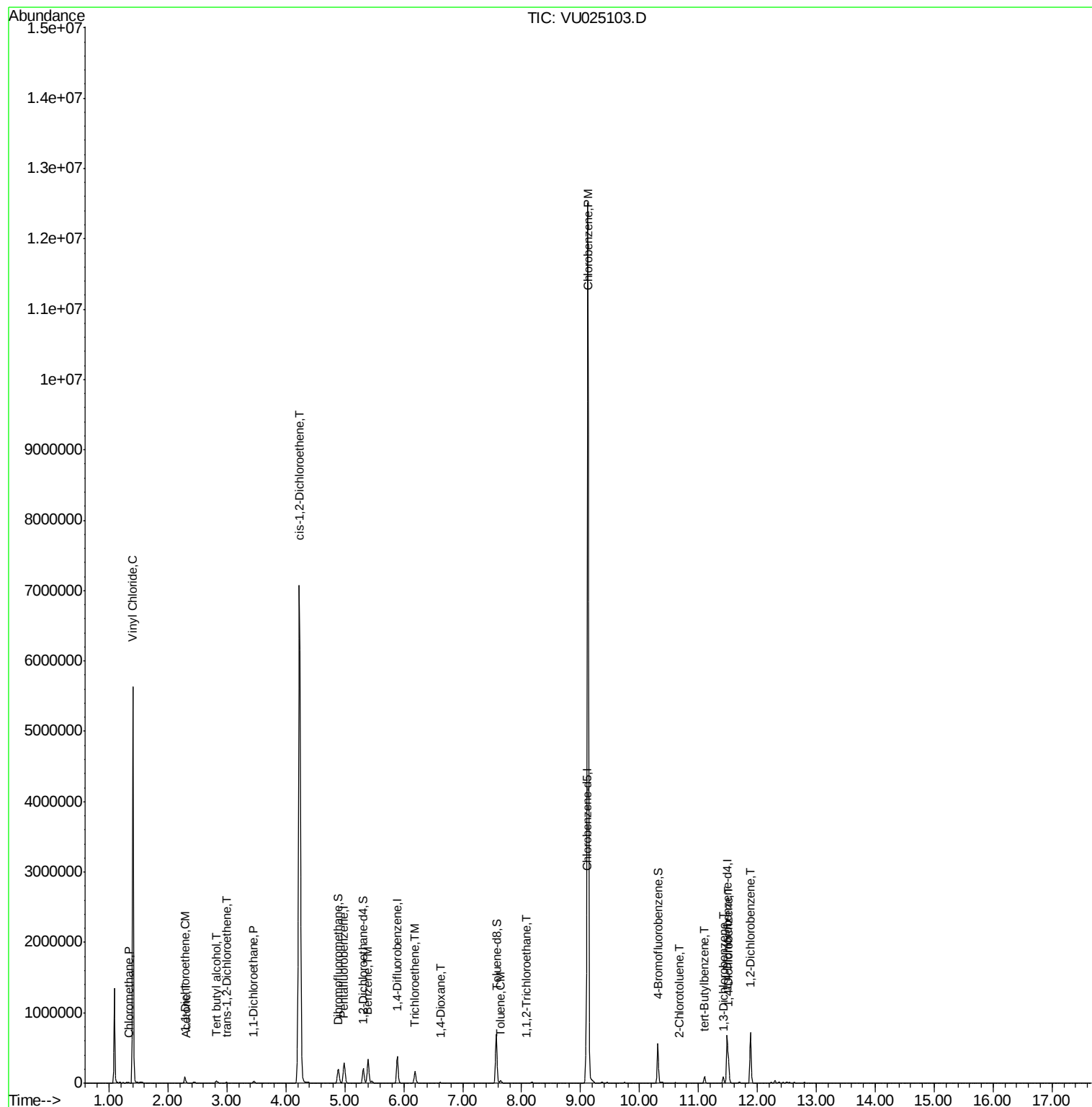
						Qvalue
3) Chloromethane	1.33	50	1899	0.68	ug/l	91
4) Vinyl Chloride	1.40	62	3517683	1228.80	ug/l	98
11) Tert butyl alcohol	2.82	59	35991	41.76	ug/l	98
12) 1,1-Dichloroethene	2.29	96	27858	11.27	ug/l	98
16) Acetone	2.32	43	6601	3.47	ug/l	92
21) trans-1,2-Dichloroethene	2.99	96	6201	2.28	ug/l	95
24) 1,1-Dichloroethane	3.45	63	29007	5.54	ug/l	99
27) cis-1,2-Dichloroethene	4.23	96	3952865	1263.02	ug/l	89
40) Benzene	5.39	78	324591	29.65	ug/l	100
44) Trichloroethene	6.19	130	58738	18.85	ug/l	98
49) 1,4-Dioxane	6.62	88	6833	99.14	ug/l	93
52) Toluene	7.64	92	15210	2.16	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	1360	0.48	ug/l	# 88
65) Chlorobenzene	9.13	112	6529648	831.89	ug/l	98
79) 2-Chlorotoluene	10.67	91	2450	0.27	ug/l	98
83) tert-Butylbenzene	11.10	119	45061	4.13	ug/l	90
87) 1,3-Dichlorobenzene	11.42	146	39310	6.43	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	109047	17.72	ug/l	98
91) 1,2-Dichlorobenzene	11.88	146	290522	47.43	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

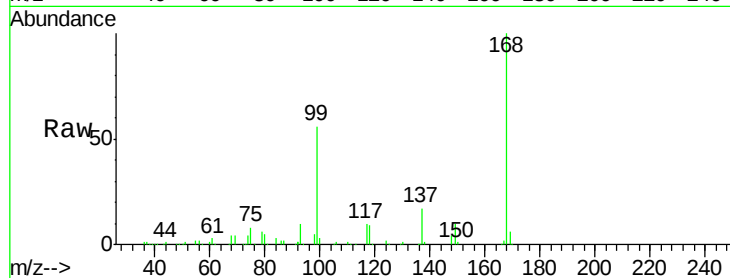
WP021MW124-180626

Tot Ion:168 Resp: 217070

Ion Ratio Lower Upper

168 100

99 56.0 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D

Ion 98.90 (98.60 to 99.60): VU024502.D

4.99

100000

80000

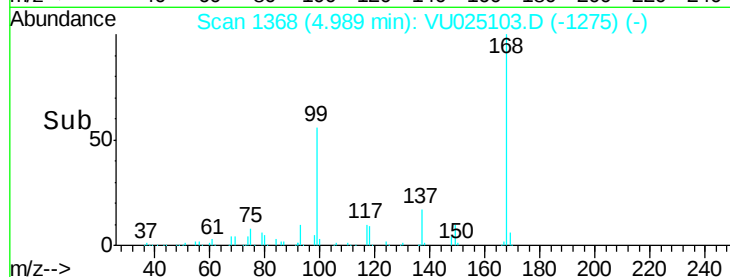
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.68 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025103.D

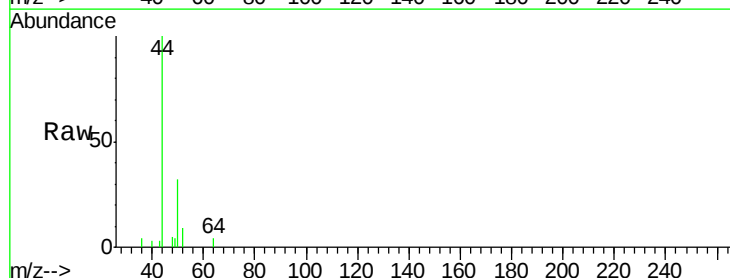
Acq: 30 Jun 2018 21:14

Tgt Ion: 50 Resp: 1899

Ion Ratio Lower Upper

50 100

52 28.1 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D

Ion 51.90 (51.60 to 52.60): VU024502.D

1.33

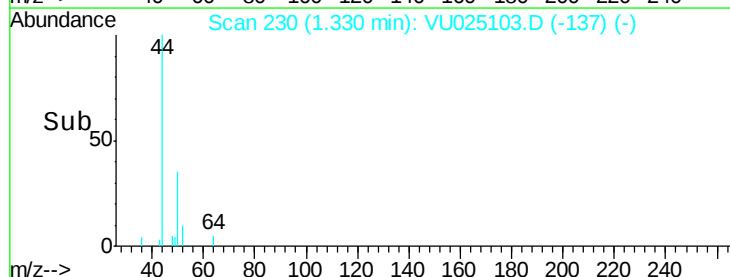
1500

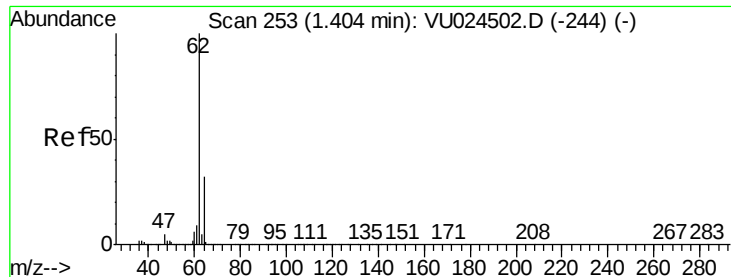
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 1228.80 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

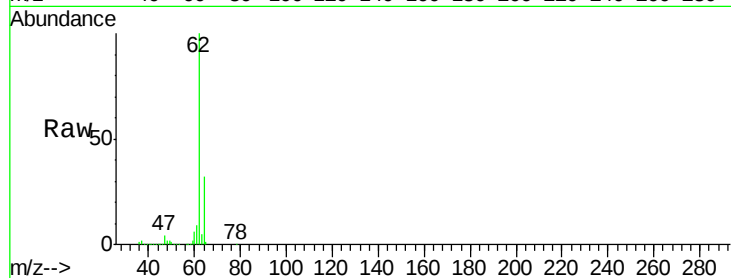
WP021MW124-180626

Tot Ion: 62 Resp: 3517683

Ion Ratio Lower Upper

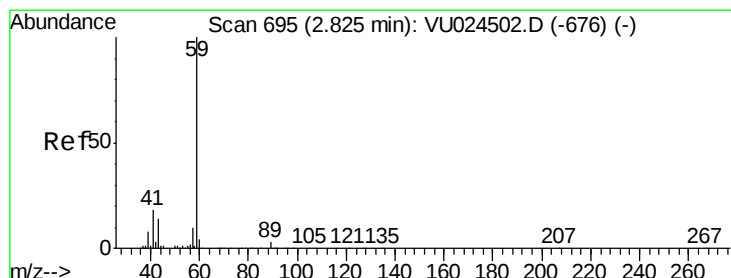
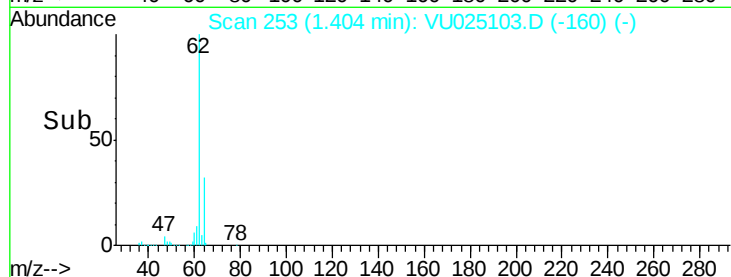
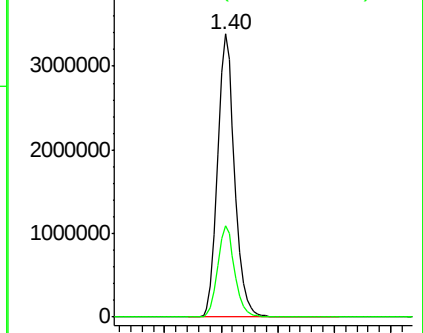
62 100

64 32.1 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#11

Tert butyl alcohol

Concen: 41.76 ug/l

RT: 2.82 min Scan# 694

Delta R.T. -0.00 min

Lab File: VU025103.D

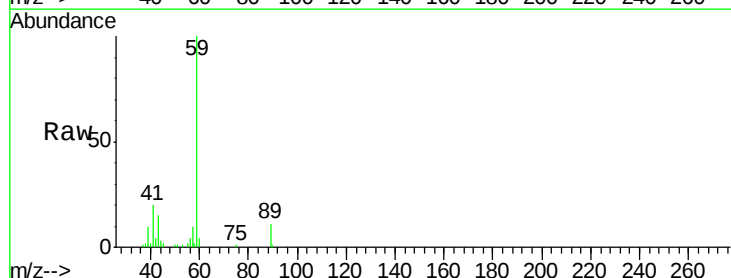
Acq: 30 Jun 2018 21:14

Tgt Ion: 59 Resp: 35991

Ion Ratio Lower Upper

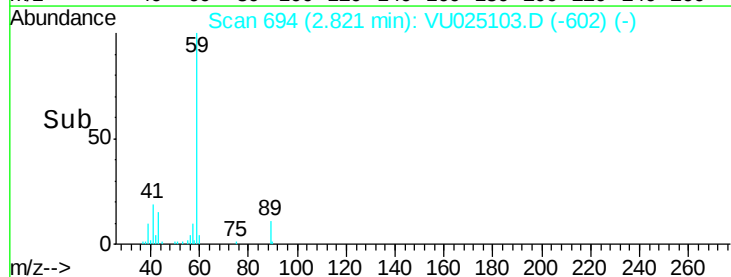
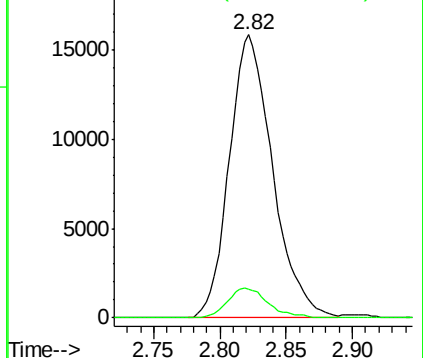
59 100

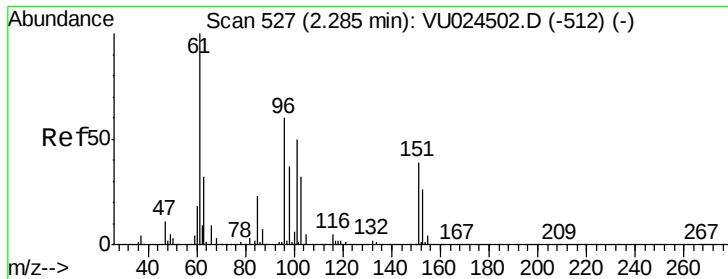
57 9.8 8.5 12.7



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#12

1,1-Dichloroethene

Concen: 11.27 ug/l

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

WP021MW124-180626

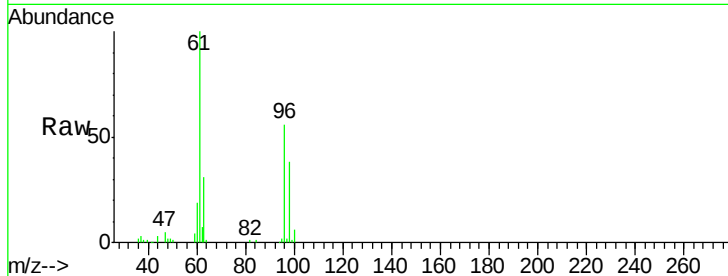
Tot Ion: 96 Resp: 27858

Ion Ratio Lower Upper

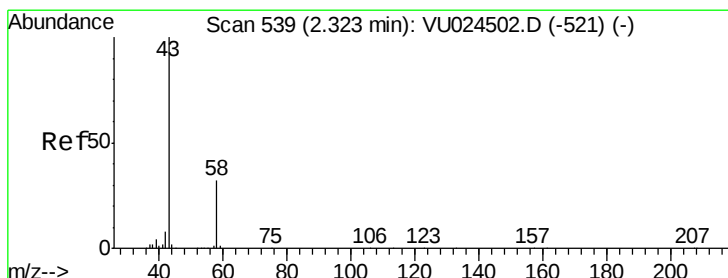
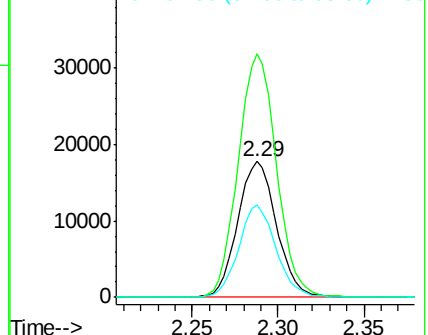
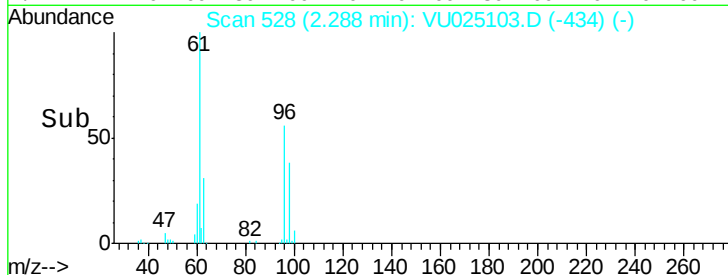
96 100

61 179.3 141.7 212.5

98 67.7 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VU025103.D (-434) (-)



#16

Acetone

Concen: 3.47 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025103.D

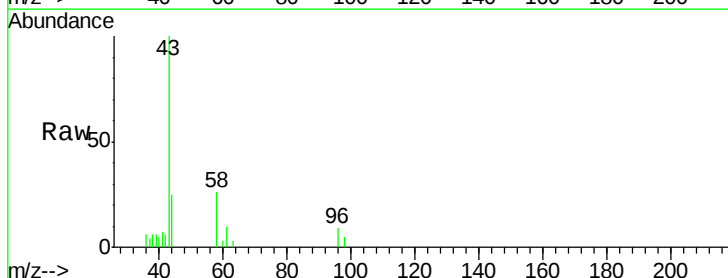
Acq: 30 Jun 2018 21:14

Tgt Ion: 43 Resp: 6601

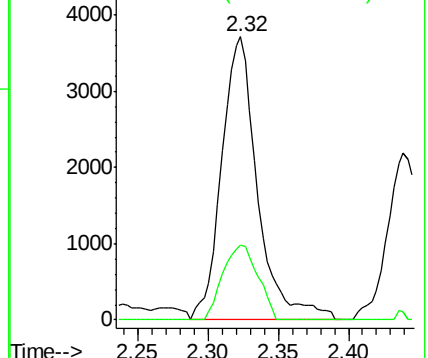
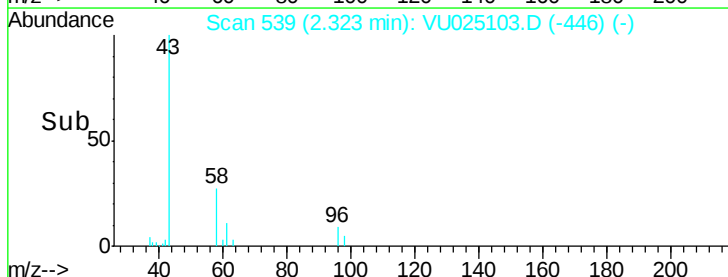
Ion Ratio Lower Upper

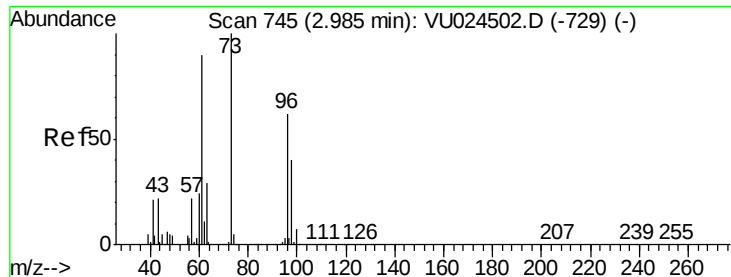
43 100

58 26.3 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU025103.D (-446) (-)





#21

trans-1,2-Dichloroethene

Concen: 2.28 ug/l

RT: 2.99 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

WP021MW124-180626

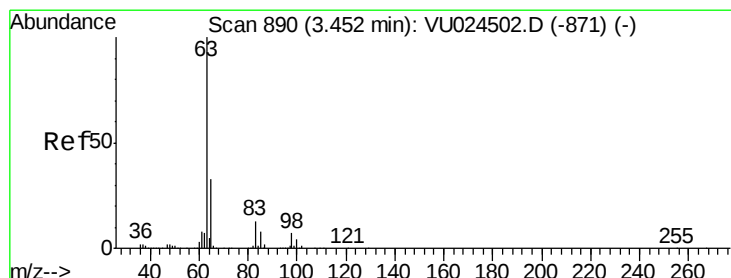
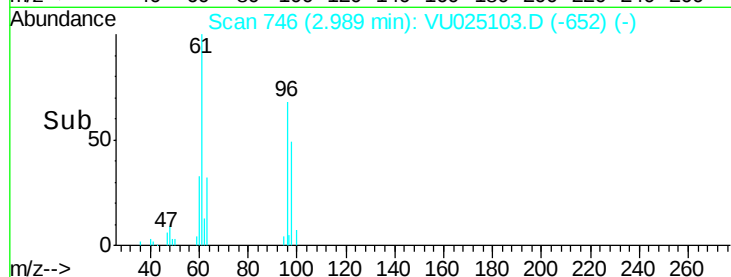
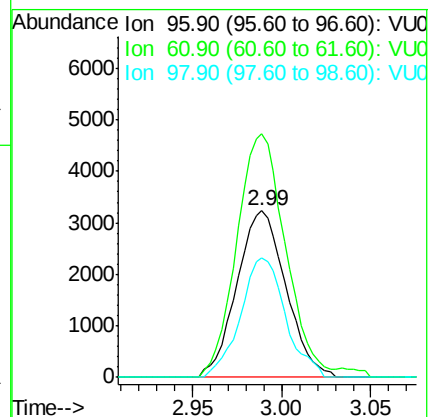
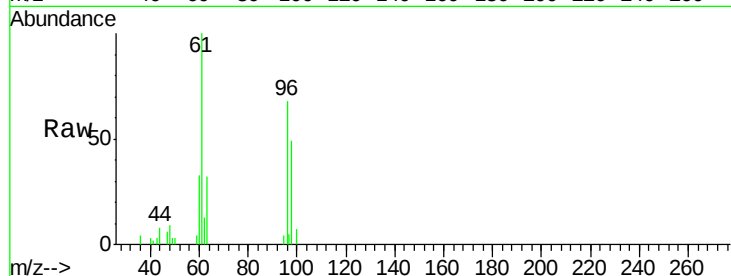
Tot Ion: 96 Resp: 6201

Ion Ratio Lower Upper

96 100

61 146.3 119.4 179.0

98 71.6 51.1 76.7



#24

1,1-Dichloroethane

Concen: 5.54 ug/l

RT: 3.45 min Scan# 891

Delta R.T. 0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

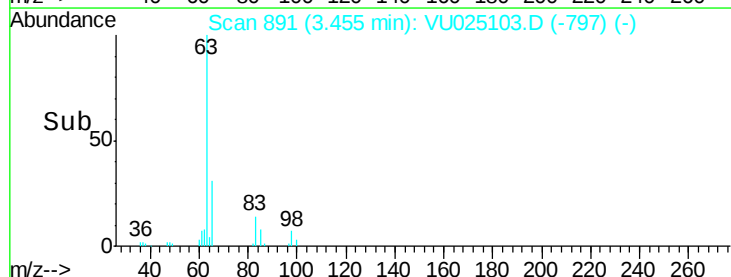
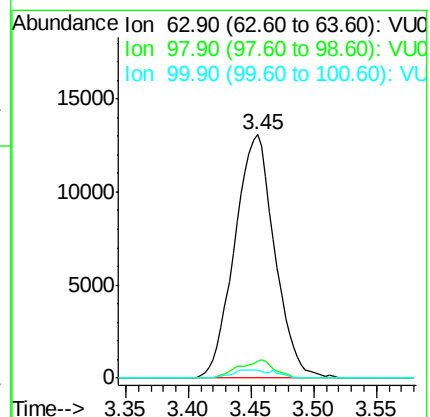
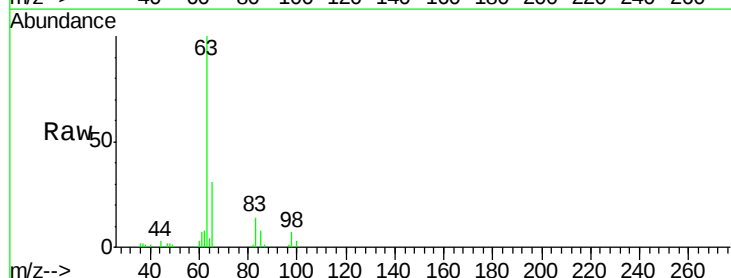
Tgt Ion: 63 Resp: 29007

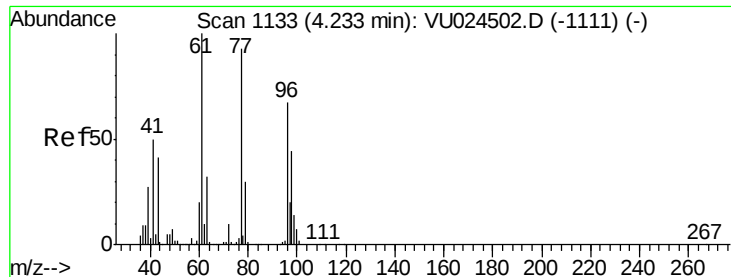
Ion Ratio Lower Upper

63 100

98 7.0 3.5 10.4

100 3.2 1.8 5.5





#27

cis-1,2-Dichloroethene

Concen: 1263.02 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

WP021MW124-180626

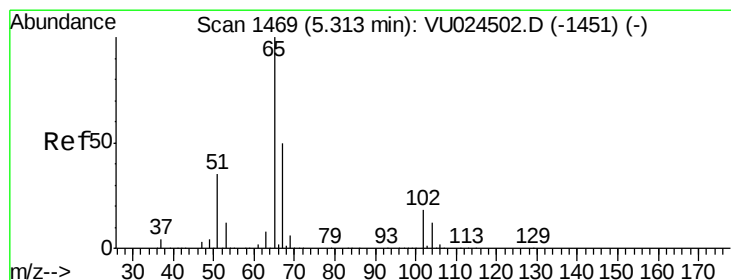
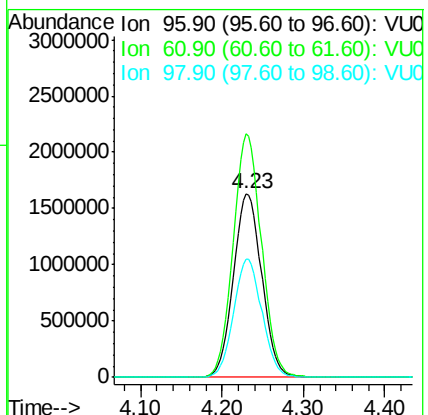
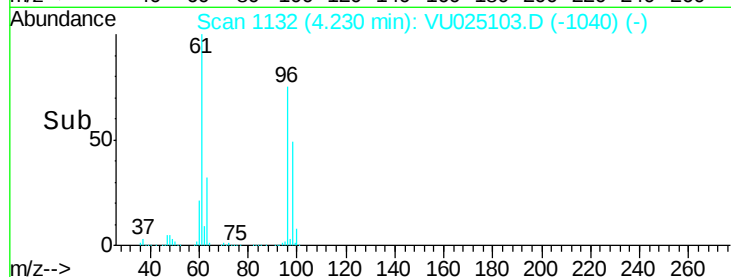
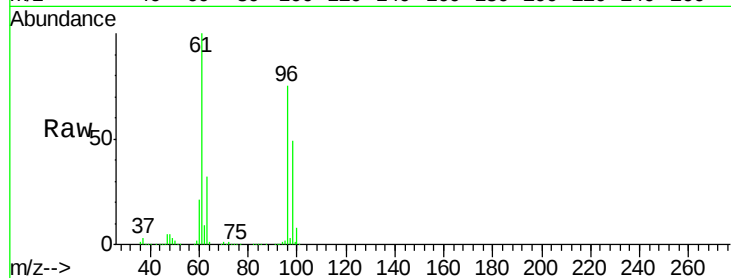
Tot Ion: 96 Resp: 3952865

Ion Ratio Lower Upper

96 100

61 132.7 0.0 306.6

98 64.4 0.0 128.8



#33

1,2-Dichloroethane-d4

Concen: 46.81 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025103.D

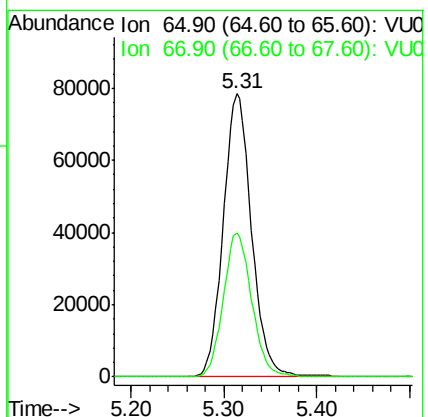
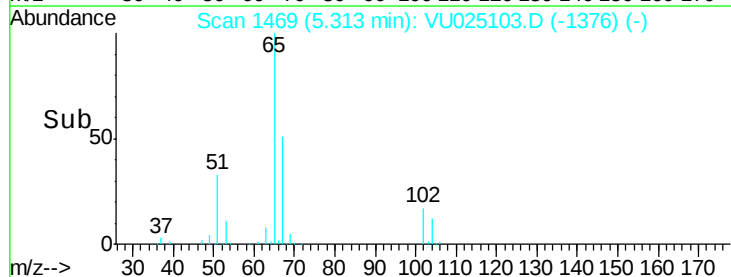
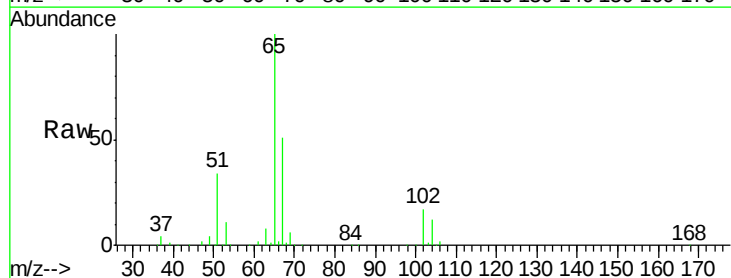
Acq: 30 Jun 2018 21:14

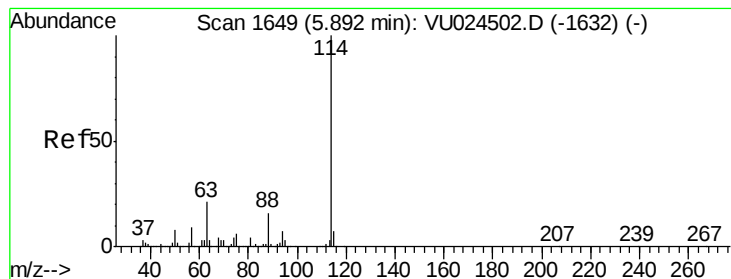
Tgt Ion: 65 Resp: 165890

Ion Ratio Lower Upper

65 100

67 51.1 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

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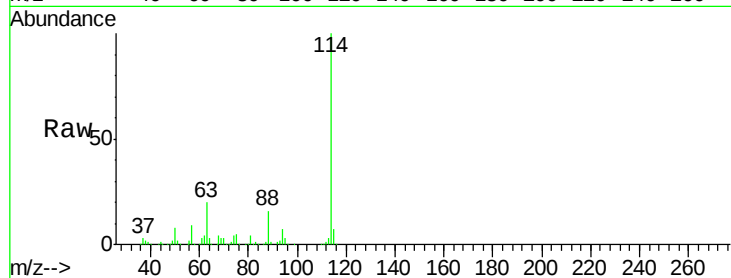
Tot Ion:114 Resp: 326931

Ion Ratio Lower Upper

114 100

63 20.2 0.0 45.4

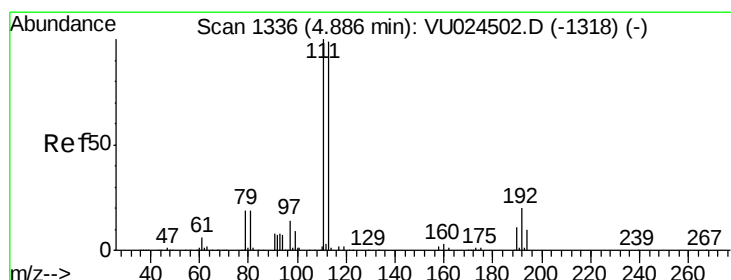
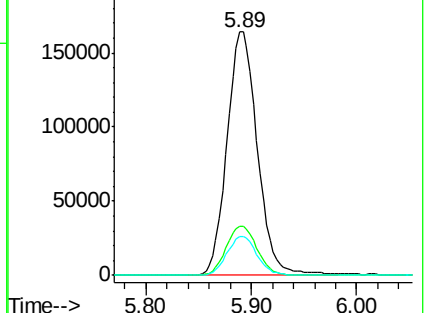
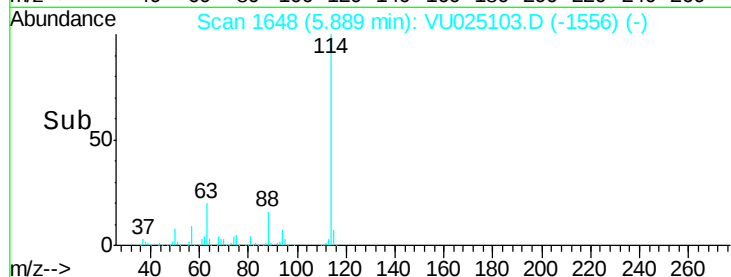
88 16.1 0.0 31.0



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: 47.76 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

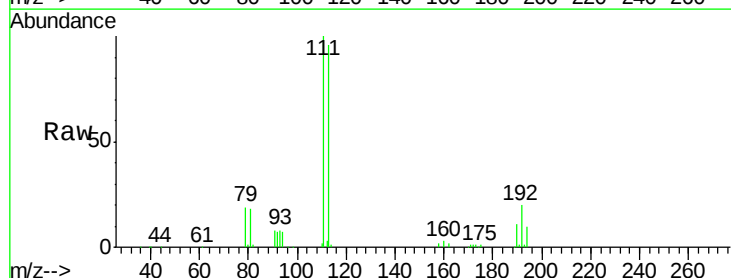
Tgt Ion:113 Resp: 129582

Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.4

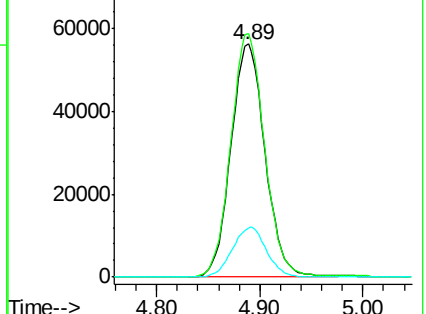
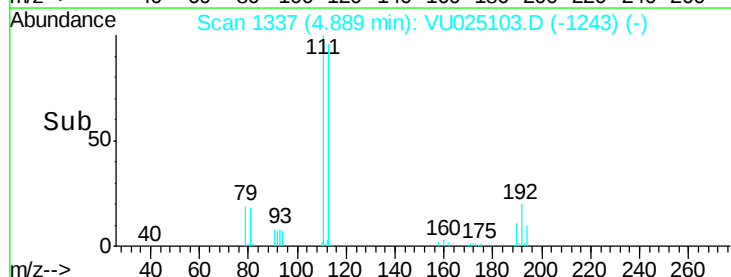
192 21.4 16.2 24.4

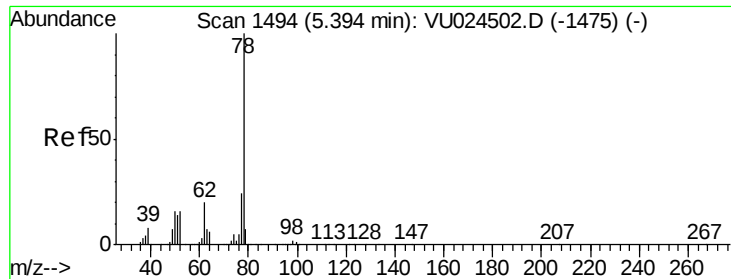


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 29.65 ug/l

RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

Instrument :

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ClientSampleId :

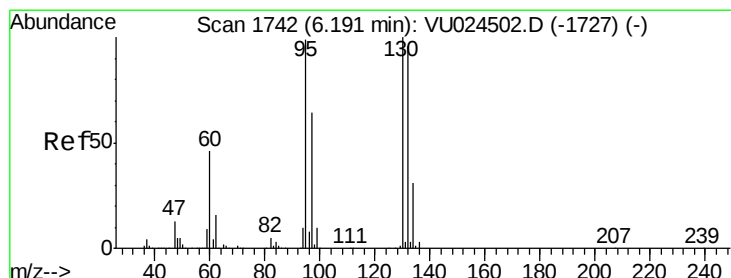
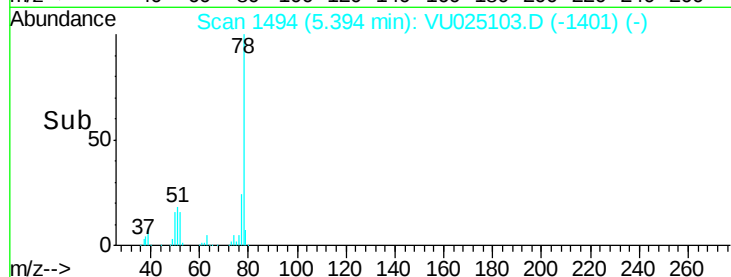
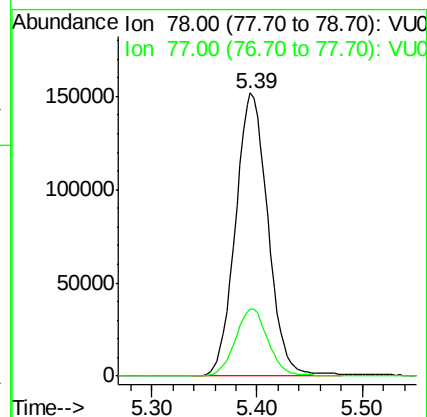
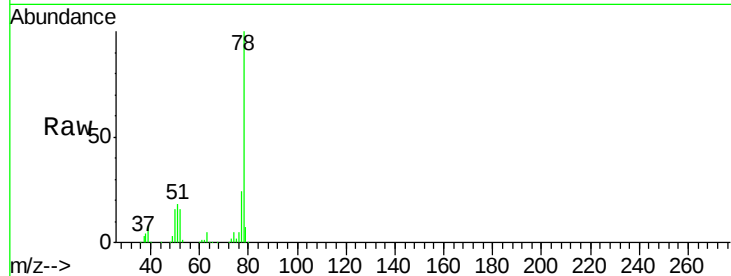
WP021MW124-180626

Tot Ion: 78 Resp: 324591

Ion Ratio Lower Upper

78 100

77 23.8 19.2 28.8



#44

Trichloroethene

Concen: 18.85 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU025103.D

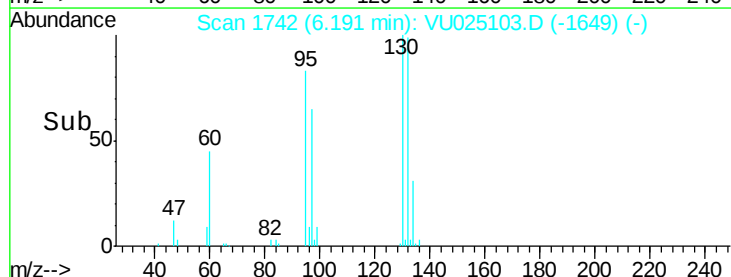
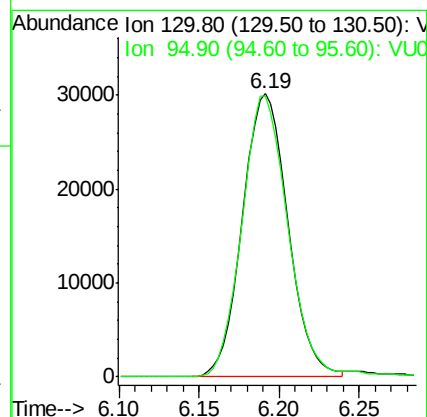
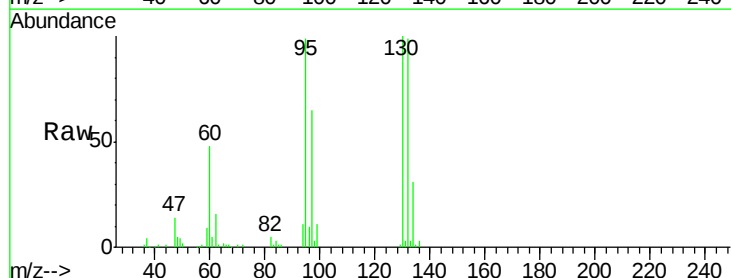
Acq: 30 Jun 2018 21:14

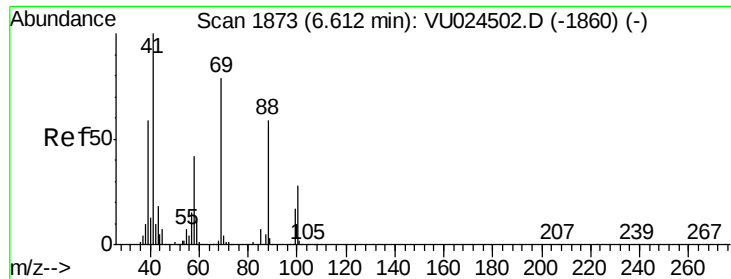
Tgt Ion:130 Resp: 58738

Ion Ratio Lower Upper

130 100

95 99.2 0.0 202.4





#49

1,4-Dioxane

Concen: 99.14 ug/l

RT: 6.62 min Scan# 1874

Delta R.T. 0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

WP021MW124-180626

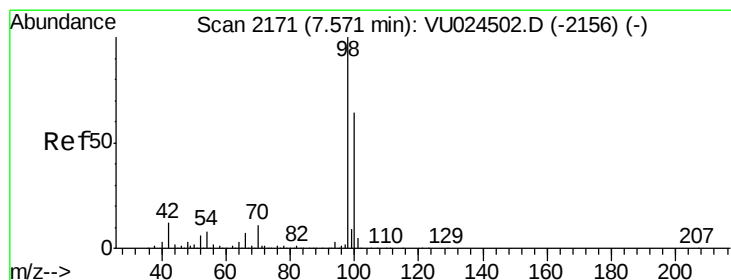
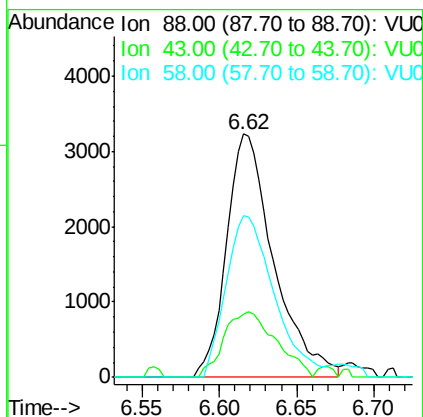
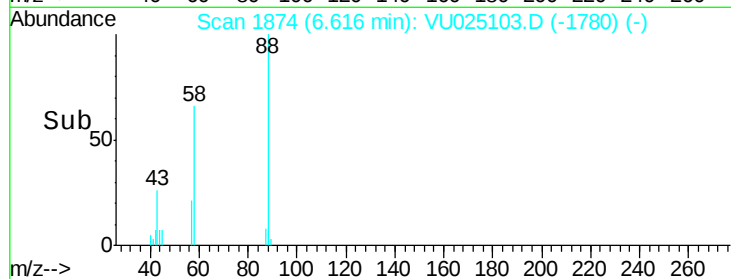
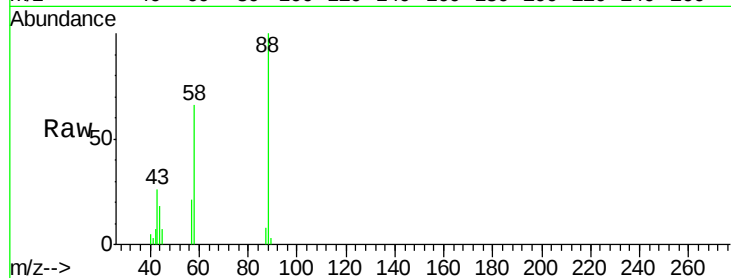
Tot Ion: 88 Resp: 6833

Ion Ratio Lower Upper

88 100

43 29.8 28.6 42.8

58 67.6 58.2 87.4



#50

Toluene-d8

Concen: 47.75 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025103.D

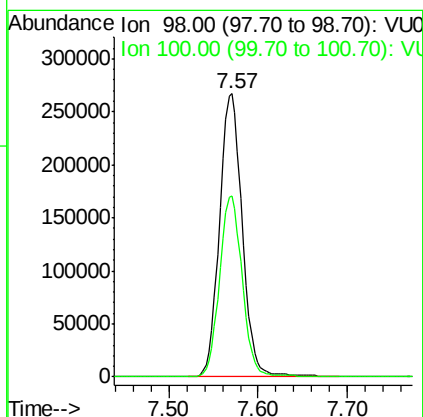
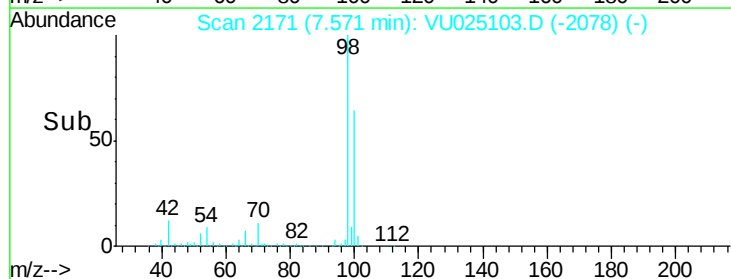
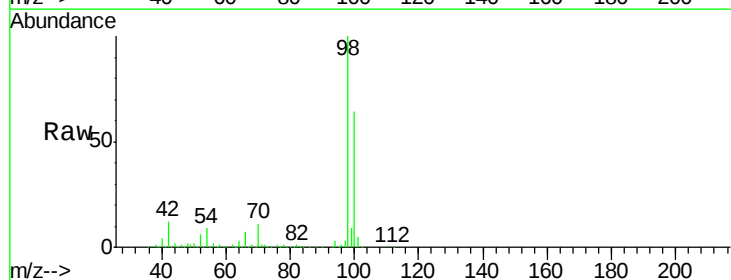
Acq: 30 Jun 2018 21:14

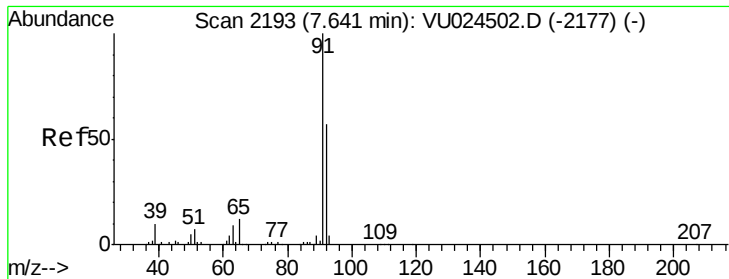
Tgt Ion: 98 Resp: 472550

Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7





#52

Toluene

Concen: 2.16 ug/l

RT: 7.64 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

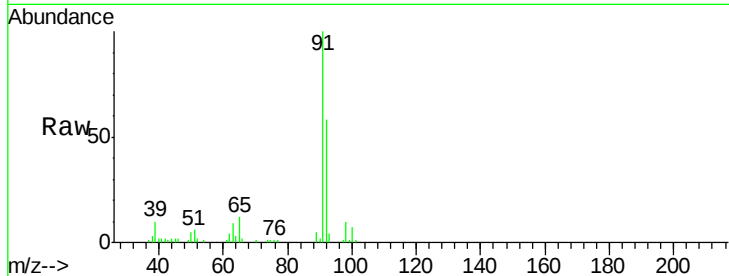
WP021MW124-180626

Tot Ion: 92 Resp: 15210

Ion Ratio Lower Upper

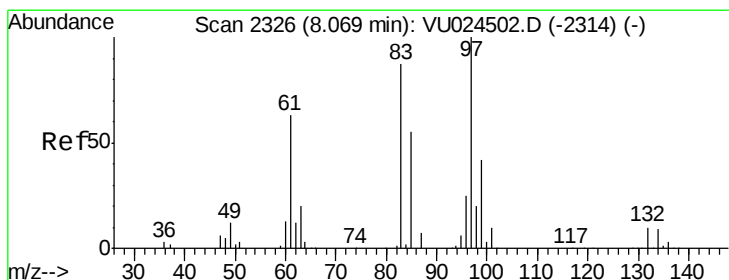
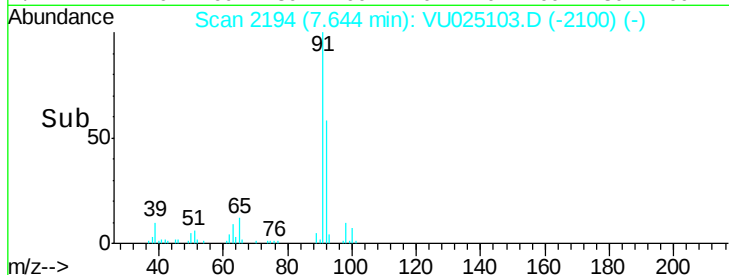
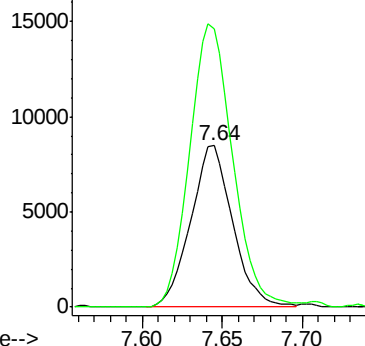
92 100

91 179.0 140.5 210.7



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



#55

1,1,2-Trichloroethane

Concen: 0.48 ug/l

RT: 8.07 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

Tgt Ion: 97 Resp: 1360

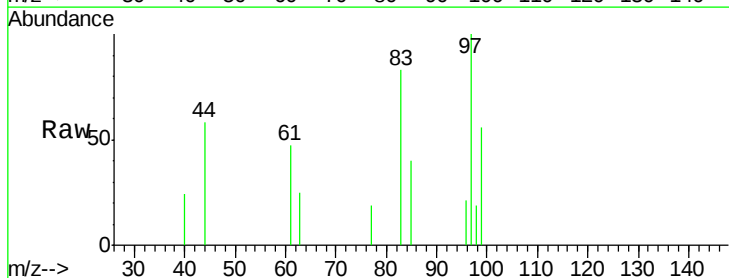
Ion Ratio Lower Upper

97 100

83 82.7 70.5 105.7

85 39.6 46.4 69.6#

99 55.8 50.2 75.2

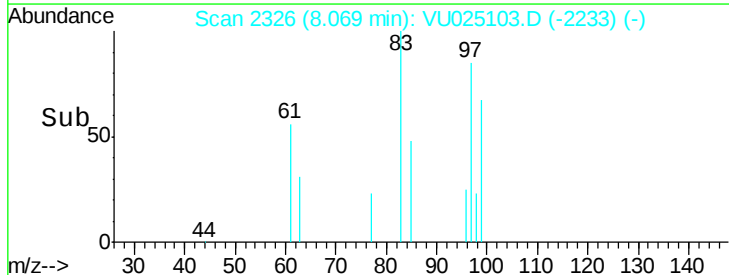
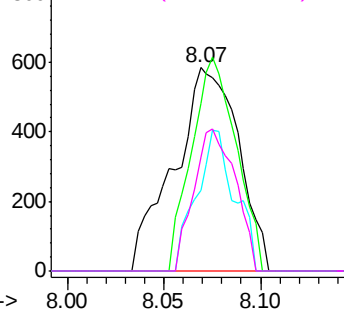


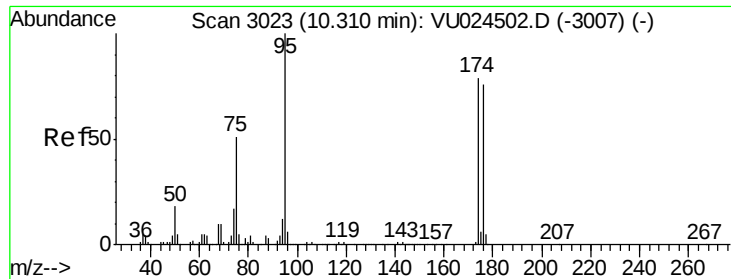
Abundance Ion 96.90 (96.60 to 97.60): VU0

Ion 82.90 (82.60 to 83.60): VU0

Ion 84.90 (84.60 to 85.60): VU0

Ion 98.90 (98.60 to 99.60): VU0

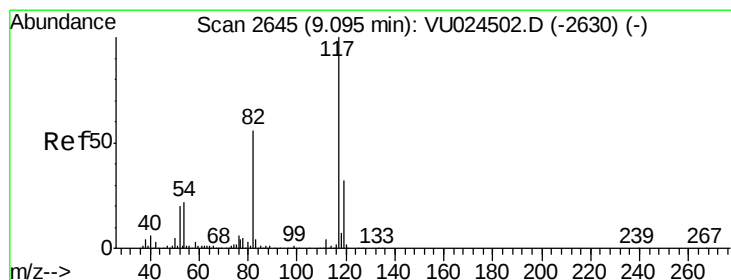
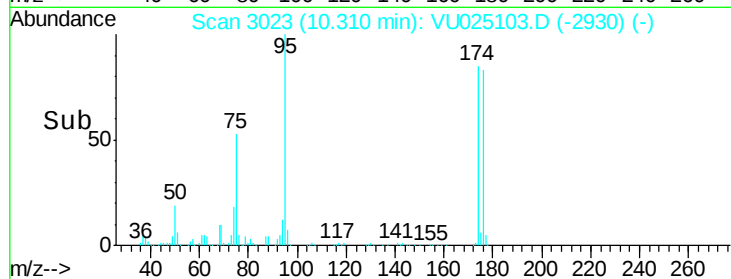
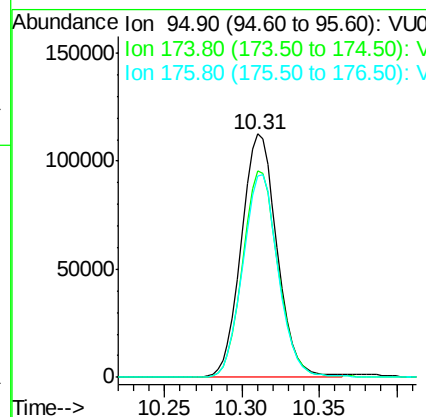
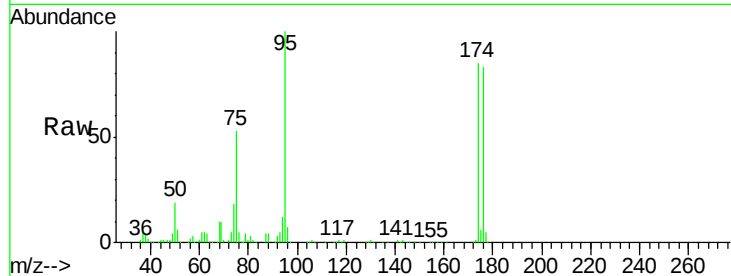




#62
4-Bromofluorobenzene
Concen: 46.08 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025103.D
Acq: 30 Jun 2018 21:14

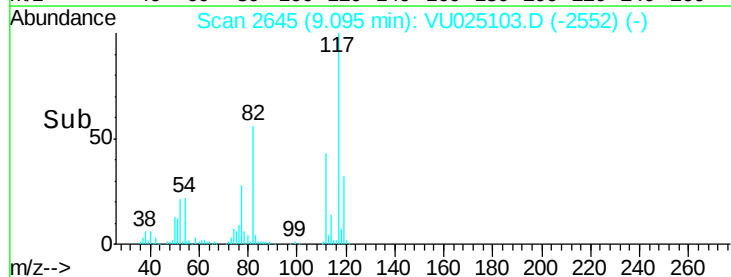
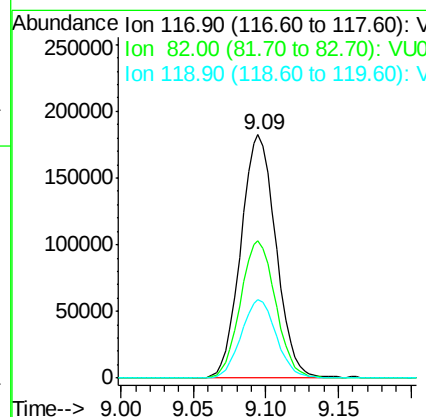
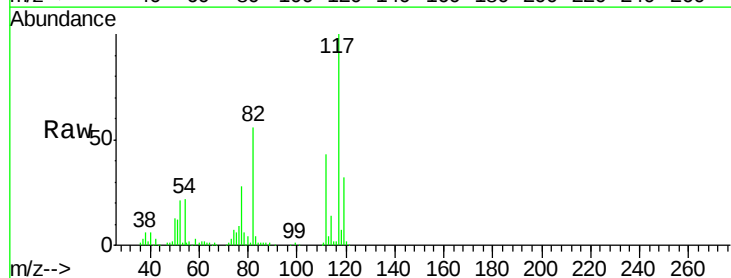
Instrument :
MSVOA_U
ClientSampleId :
WP021MW124-180626

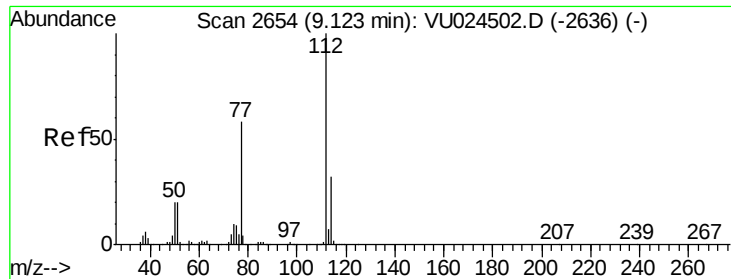
Tot Ion	95	Resp	181069
Ion Ratio	100		
Lower			
Upper			
95	100		
174	84.1	0.0	165.8
176	82.9	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025103.D
Acq: 30 Jun 2018 21:14

Tgt Ion	117	Resp	307253
Ion Ratio	100		
Lower			
Upper			
117	100		
82	56.3	44.3	66.5
119	32.4	25.4	38.2





#65

Chlorobenzene

Concen: 831.89 ug/l

RT: 9.13 min Scan# 2655

Delta R.T. 0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

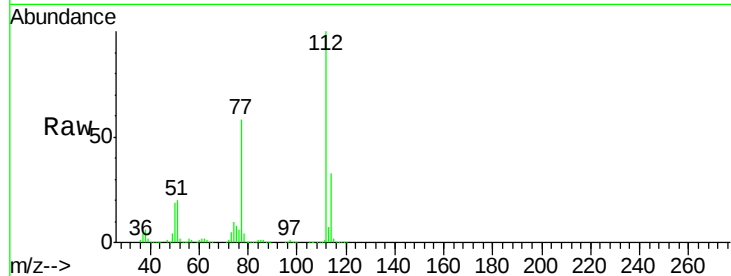
WP021MW124-180626

Tot Ion:112 Resp: 6529648

Ion Ratio Lower Upper

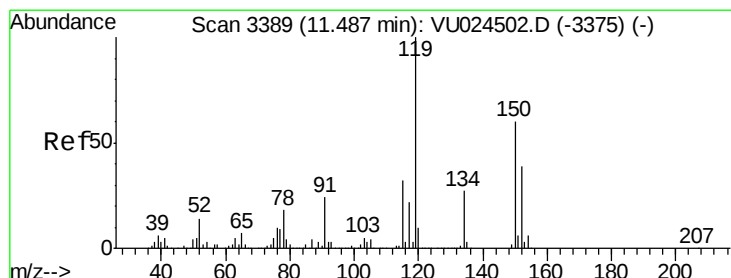
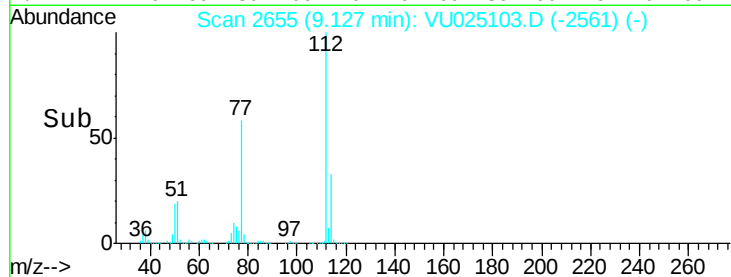
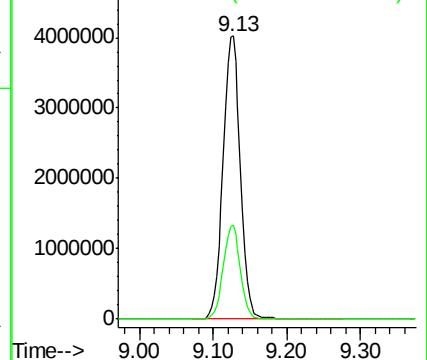
112 100

114 33.0 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

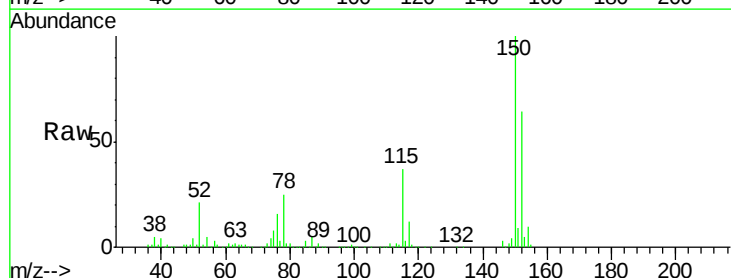
Tgt Ion:152 Resp: 170295

Ion Ratio Lower Upper

152 100

115 57.3 43.0 129.0

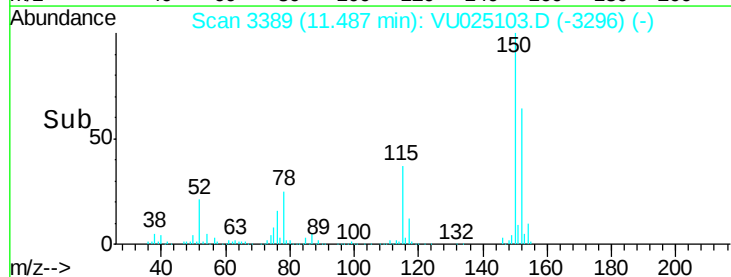
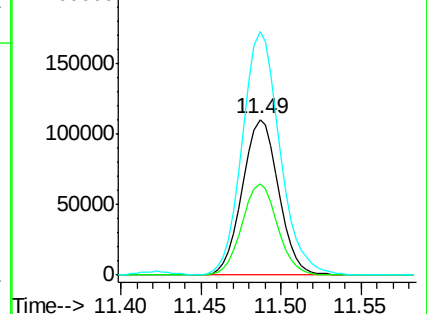
150 161.8 0.0 354.0

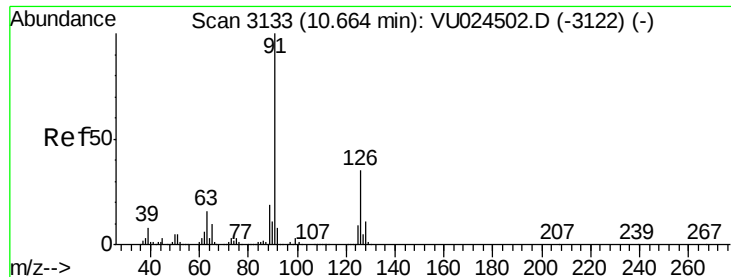


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

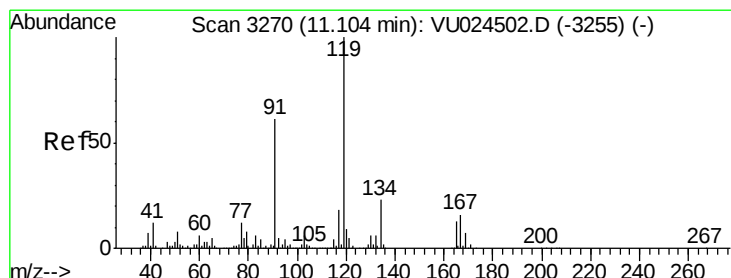
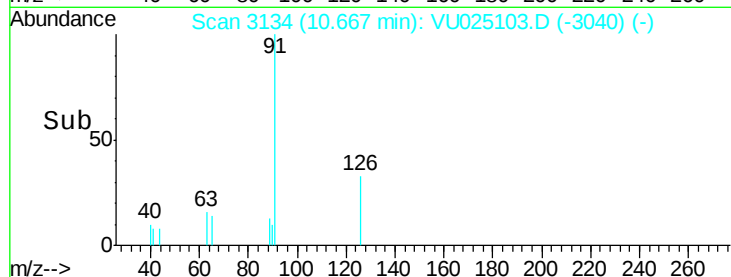
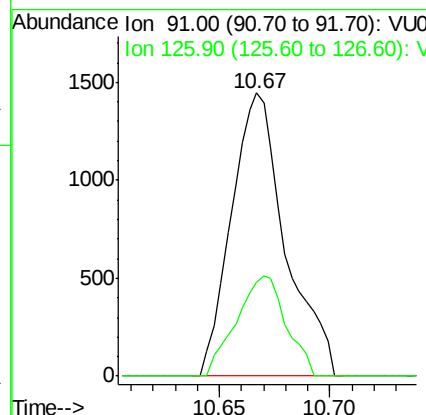
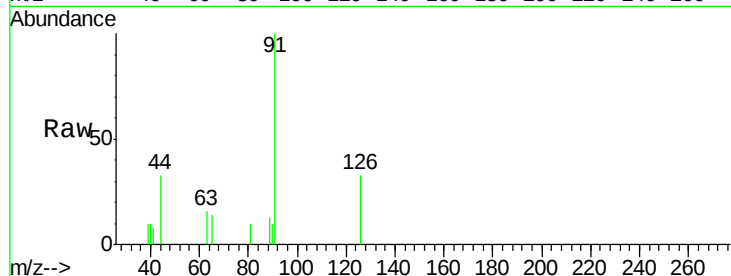




#79
 2-Chlorotoluene
 Concen: 0.27 ug/l
 RT: 10.67 min Scan# 3134
 Delta R.T. 0.00 min
 Lab File: VU025103.D
 Acq: 30 Jun 2018 21:14

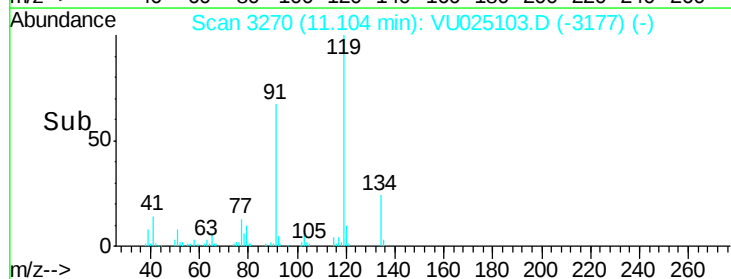
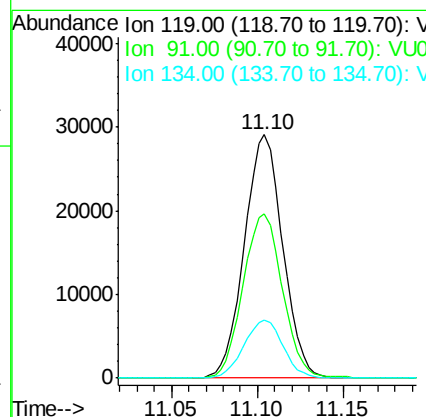
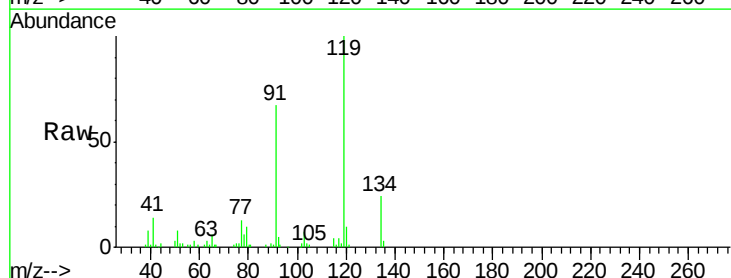
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW124-180626

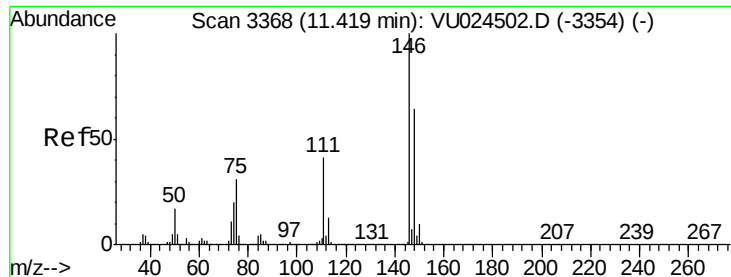
Tot Ion: 91 Resp: 2450
 Ion Ratio Lower Upper
 91 100
 126 32.6 16.9 50.7



#83
 tert-Butylbenzene
 Concen: 4.13 ug/l
 RT: 11.10 min Scan# 3270
 Delta R.T. 0.00 min
 Lab File: VU025103.D
 Acq: 30 Jun 2018 21:14

Tgt Ion: 119 Resp: 45061
 Ion Ratio Lower Upper
 119 100
 91 69.3 29.7 89.1
 134 24.2 11.6 34.7

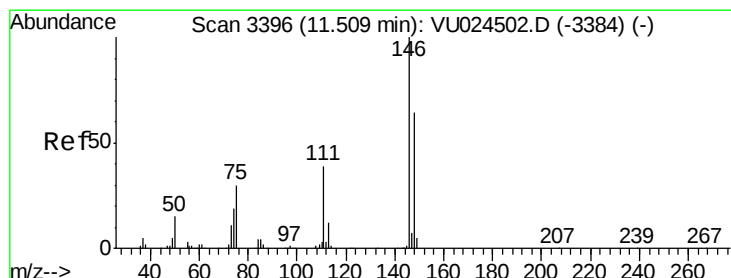
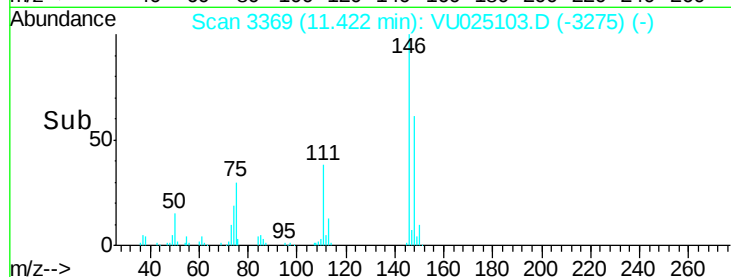
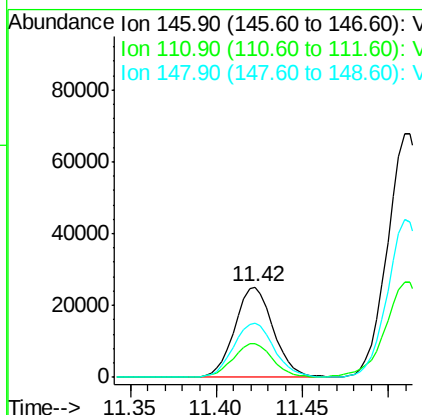
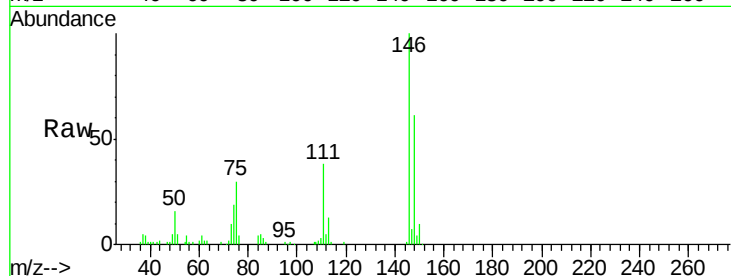




#87
 1,3-Dichlorobenzene
 Concen: 6.43 ug/l
 RT: 11.42 min Scan# 3369
 Delta R.T. 0.00 min
 Lab File: VU025103.D
 Acq: 30 Jun 2018 21:14

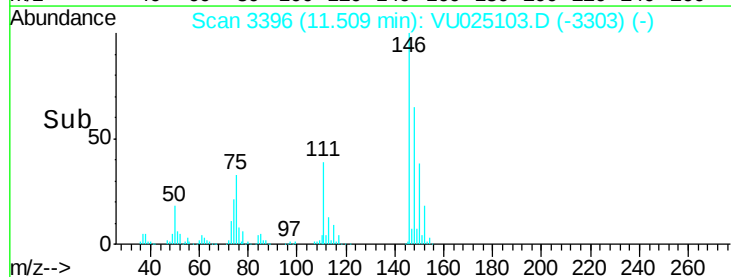
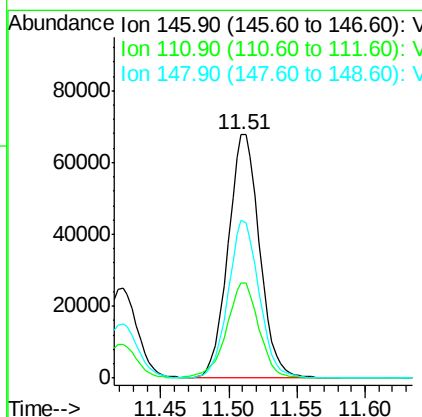
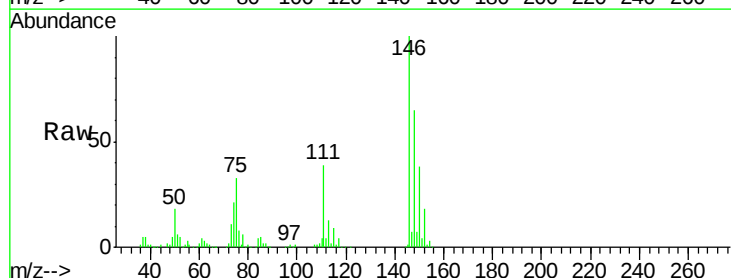
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW124-180626

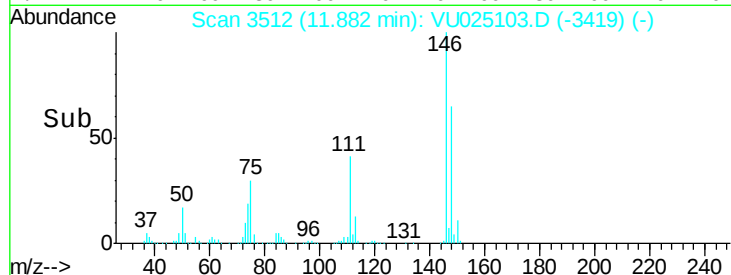
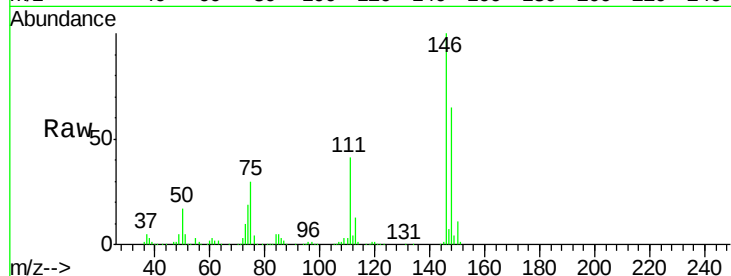
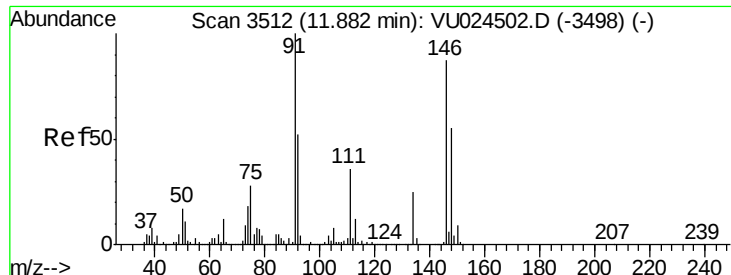
Tot Ion:146 Resp: 39310
 Ion Ratio Lower Upper
 146 100
 111 38.9 20.0 60.0
 148 63.3 32.1 96.5



#88
 1,4-Dichlorobenzene
 Concen: 17.72 ug/l
 RT: 11.51 min Scan# 3396
 Delta R.T. 0.00 min
 Lab File: VU025103.D
 Acq: 30 Jun 2018 21:14

Tgt Ion:146 Resp: 109047
 Ion Ratio Lower Upper
 146 100
 111 40.4 19.5 58.5
 148 63.8 32.4 97.0





#91

1,2-Dichlorobenzene

Concen: 47.43 ug/l

RT: 11.88 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VU025103.D

Acq: 30 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

WP021MW124-180626

Tot Ion:146 Resp: 290522

Ion Ratio Lower Upper

146 100

111 41.5 20.5 61.6

148 64.8 31.9 95.7

