

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU063018\
 Data File : VU025094.D
 Acq On : 30 Jun 2018 17:35
 Operator : MD/SY
 Sample : J3759-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW359-180625

Quant Time: Jul 02 05:39:22 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	214539	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	317692	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	297267	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	157776	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	160881	45.93	ug/l	0.00
Spiked Amount			Recovery	=	91.86%	
35) Dibromofluoromethane	4.89	113	125638	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	
50) Toluene-d8	7.57	98	455696	47.38	ug/l	0.00
Spiked Amount			Recovery	=	94.76%	
62) 4-Bromofluorobenzene	10.31	95	168876	44.23	ug/l	0.00
Spiked Amount			Recovery	=	88.46%	

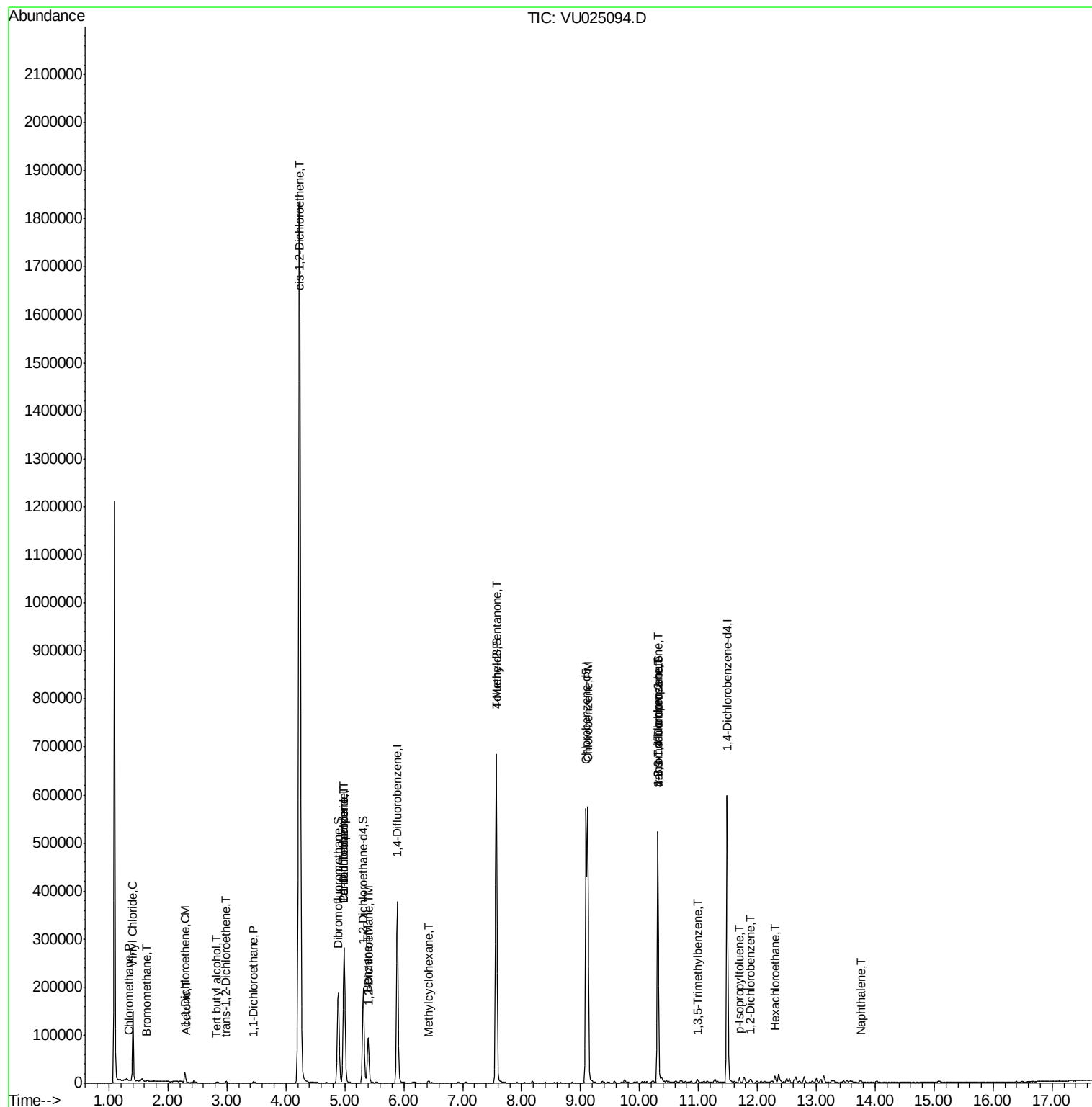
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	584	0.213	ug/l #	75
4) Vinyl Chloride	1.40	62	91644	32.391	ug/l	100
5) Bromomethane	1.64	94	496	0.363	ug/l #	75
11) Tert butyl alcohol	2.82	59	382	0.448	ug/l #	72
12) 1,1-Dichloroethene	2.29	96	7059	2.890	ug/l	91
16) Acetone	2.31	43	1179	0.627	ug/l	93
21) trans-1,2-Dichloroethene	2.99	96	1409	0.524	ug/l	85
24) 1,1-Dichloroethane	3.45	63	3257	0.630	ug/l #	83
27) cis-1,2-Dichloroethene	4.23	96	1026899	331.985	ug/l	88
31) Cyclohexane	4.99	56	4932	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15901	4.259	ug/l #	51
38) Carbon Tetrachloride	4.99	117	20134	4.905	ug/l #	16
39) Methylcyclohexane	6.42	83	1563	0.336	ug/l #	83
40) Benzene	5.39	78	89801	8.442	ug/l	99
42) 1,2-Dichloroethane	5.42	62	3007	0.742	ug/l #	77
51) 4-Methyl-2-Pentanone	7.57	43	1924	0.435	ug/l #	1
65) Chlorobenzene	9.12	112	292370	38.500	ug/l	99
76) 1,2,3-Trichloropropane	10.31	75	88742	25.547	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.97	105	2806	0.267	ug/l	79
81) trans-1,4-Dichloro-2-buten	10.31	75	88742	59.127	ug/l #	100
86) p-Isopropyltoluene	11.69	119	5883	0.520	ug/l	96
90) Hexachloroethane	12.29	117	2435	1.102	ug/l #	8
91) 1,2-Dichlorobenzene	11.89	146	2293	0.404	ug/l	88
95) Naphthalene	13.75	128	5933	1.184	ug/l #	92

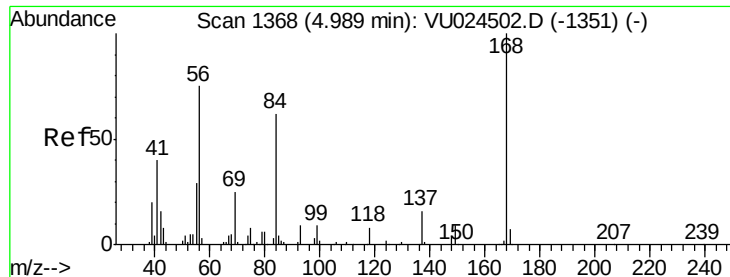
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU025094.D

Acq: 30 Jun 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

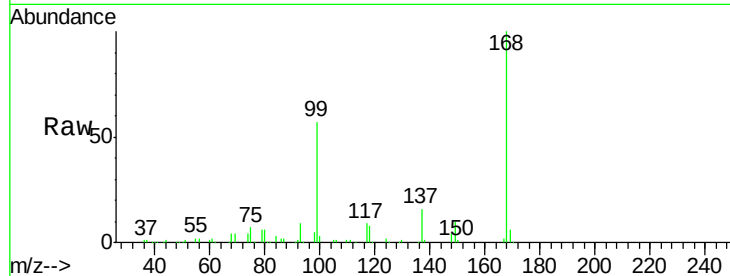
WP021MW359-180625

Tgt Ion:168 Resp: 214539

Ion Ratio Lower Upper

168 100

99 57.4 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)

4.99

100000

80000

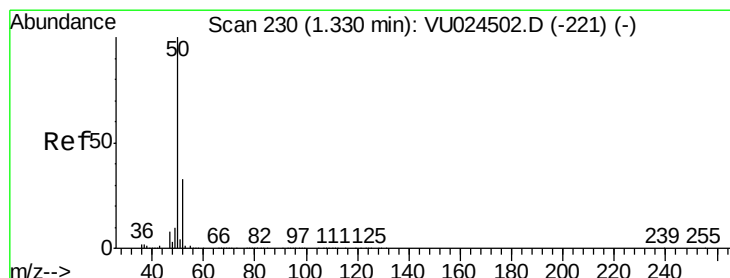
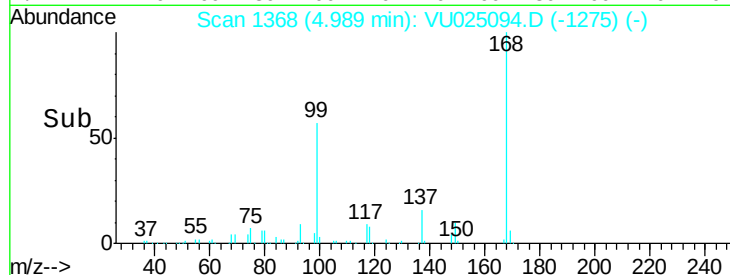
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.213 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU025094.D

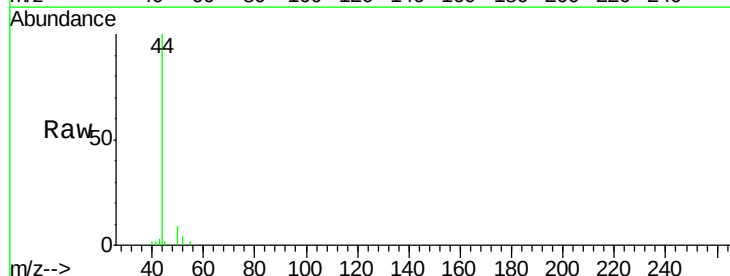
Acq: 30 Jun 2018 17:35

Tgt Ion: 50 Resp: 584

Ion Ratio Lower Upper

50 100

52 47.2 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU024502.D (-221) (-)

1.33

500

400

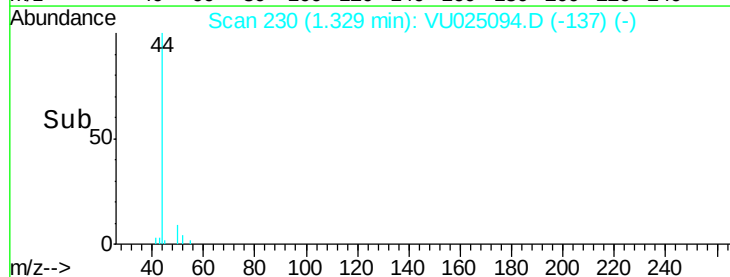
300

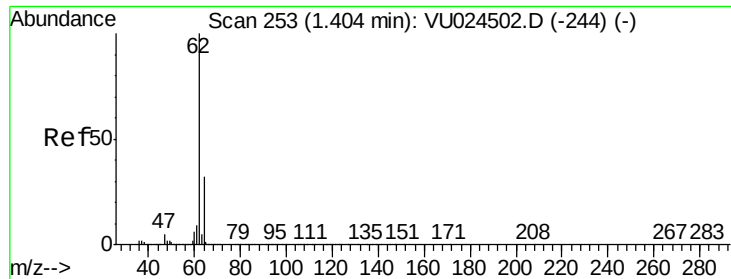
200

100

0

Time-->





#4

Vinyl Chloride

Concen: 32.391 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025094.D

Acq: 30 Jun 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

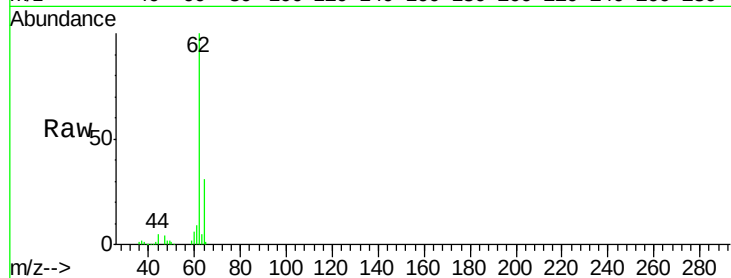
WP021MW359-180625

Tgt Ion: 62 Resp: 91644

Ion Ratio Lower Upper

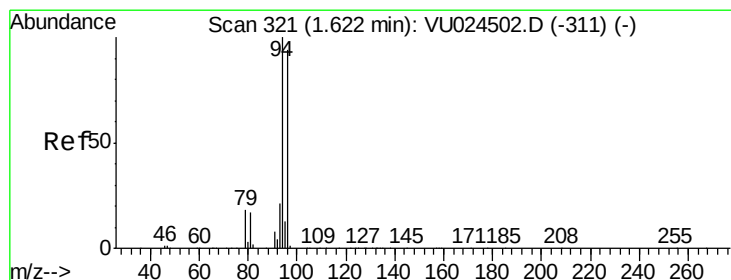
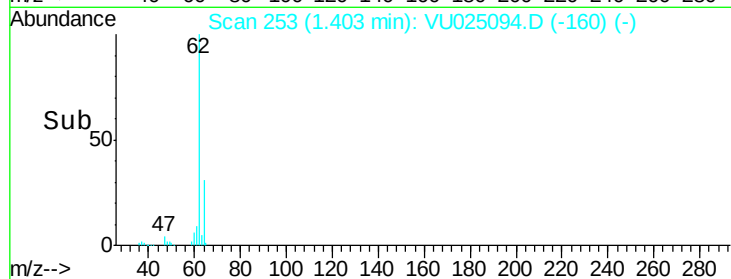
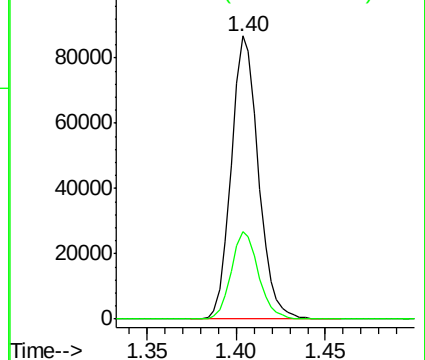
62 100

64 30.8 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#5

Bromomethane

Concen: 0.363 ug/l

RT: 1.64 min Scan# 327

Delta R.T. 0.02 min

Lab File: VU025094.D

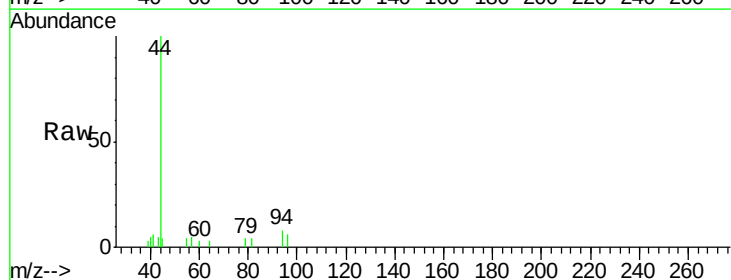
Acq: 30 Jun 2018 17:35

Tgt Ion: 94 Resp: 496

Ion Ratio Lower Upper

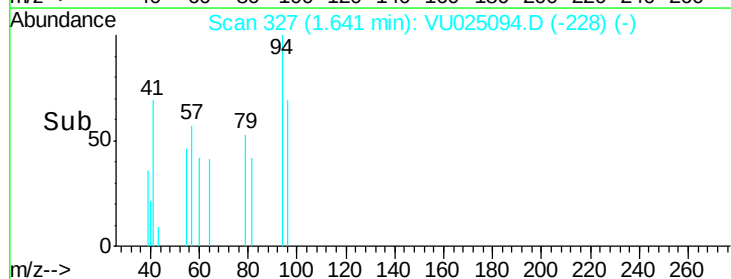
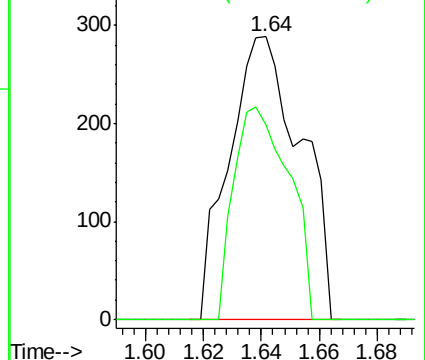
94 100

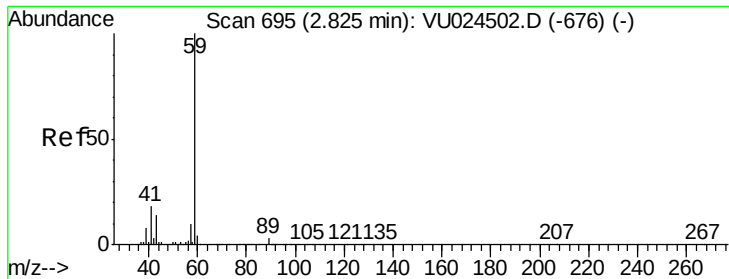
96 69.1 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



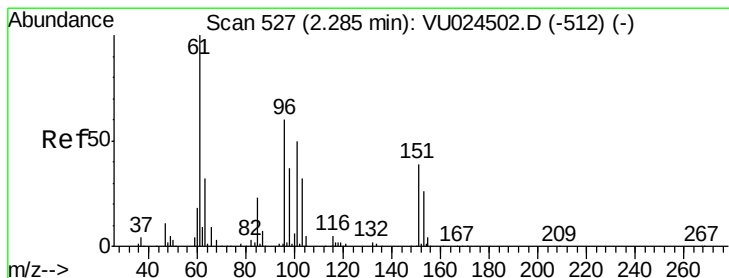
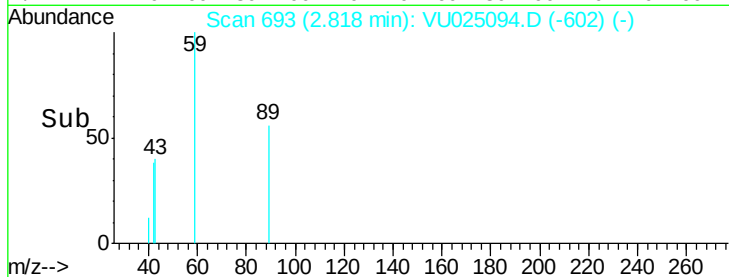
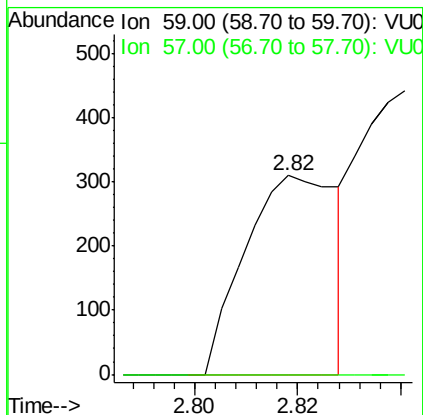
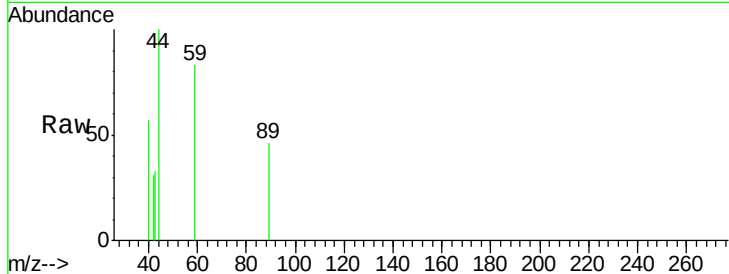


#11

Tert butyl alcohol
 Concen: 0.448 ug/l
 RT: 2.82 min Scan# 693
 Delta R.T. -0.01 min
 Lab File: VU025094.D
 Acq: 30 Jun 2018 17:35

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW359-180625

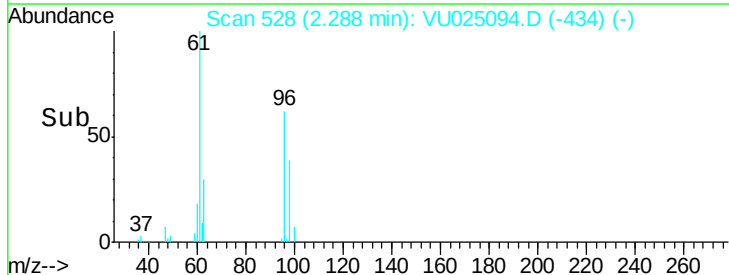
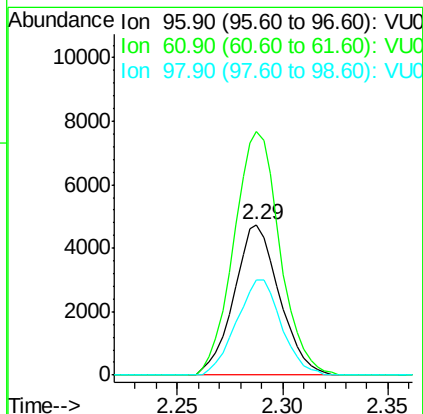
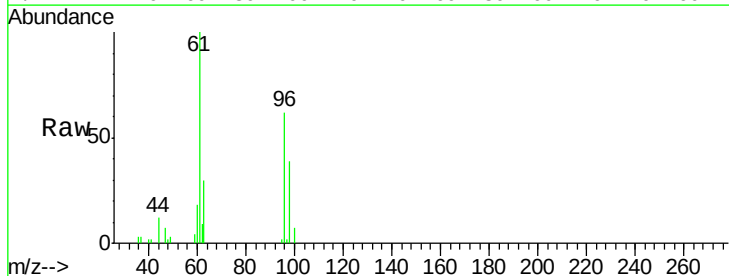
Tgt Ion: 59 Resp: 382
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

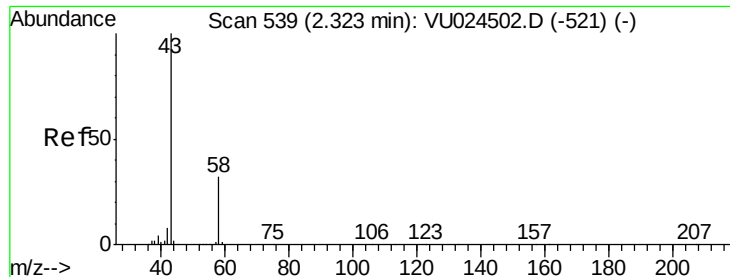


#12

1,1-Dichloroethene
 Concen: 2.890 ug/l
 RT: 2.29 min Scan# 528
 Delta R.T. 0.00 min
 Lab File: VU025094.D
 Acq: 30 Jun 2018 17:35

Tgt Ion: 96 Resp: 7059
 Ion Ratio Lower Upper
 96 100
 61 161.7 141.7 212.5
 98 63.1 51.6 77.4





#16

Acetone

Concen: 0.627 ug/l

RT: 2.31 min Scan# 536

Delta R.T. -0.01 min

Lab File: VU025094.D

Acq: 30 Jun 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

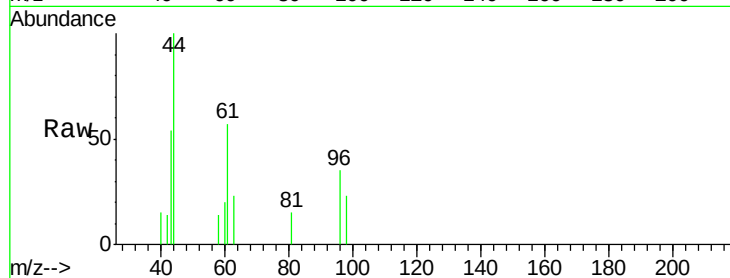
WP021MW359-180625

Tgt Ion: 43 Resp: 1179

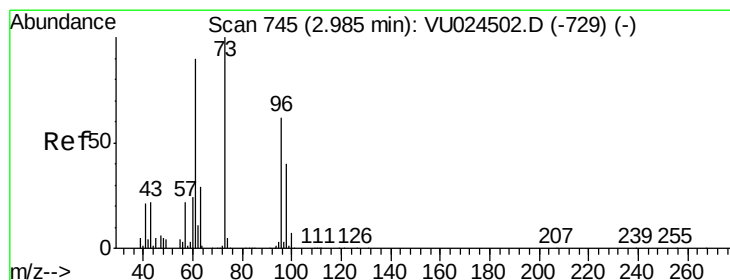
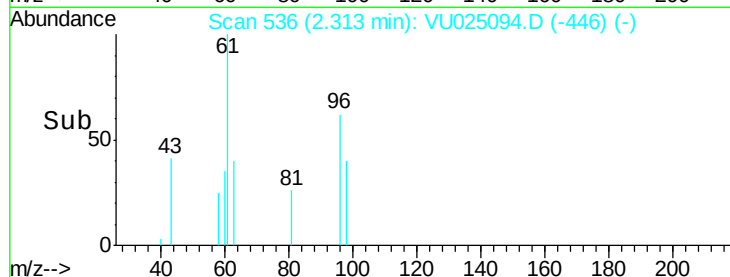
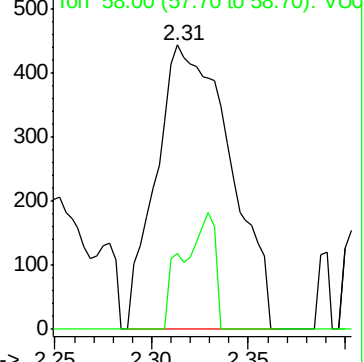
Ion Ratio Lower Upper

43 100

58 26.4 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-521) (-)



#21

trans-1,2-Dichloroethene

Concen: 0.524 ug/l

RT: 2.99 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU025094.D

Acq: 30 Jun 2018 17:35

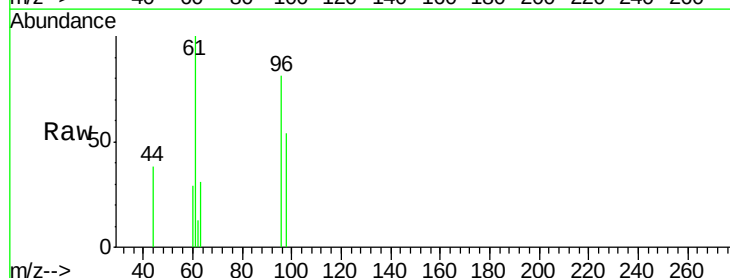
Tgt Ion: 96 Resp: 1409

Ion Ratio Lower Upper

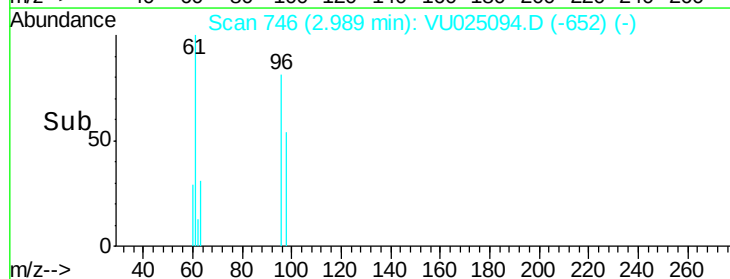
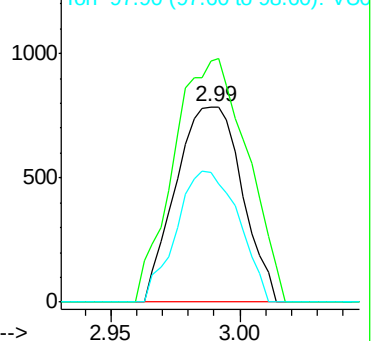
96 100

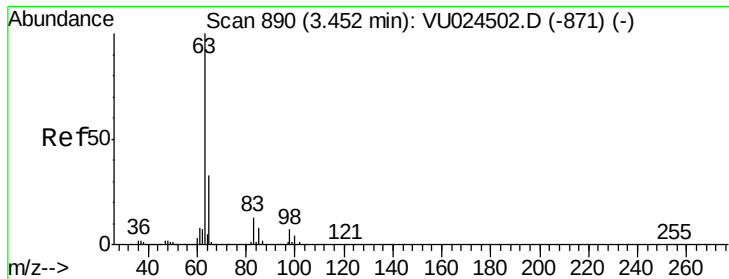
61 123.0 119.4 179.0

98 66.1 51.1 76.7



Abundance Ion 95.90 (95.60 to 96.60): VU024502.D (-729) (-)





#24

1,1-Dichloroethane

Concen: 0.630 ug/l

RT: 3.45 min Scan# 890

Delta R.T. -0.00 min

Lab File: VU025094.D

Acq: 30 Jun 2018 17:35

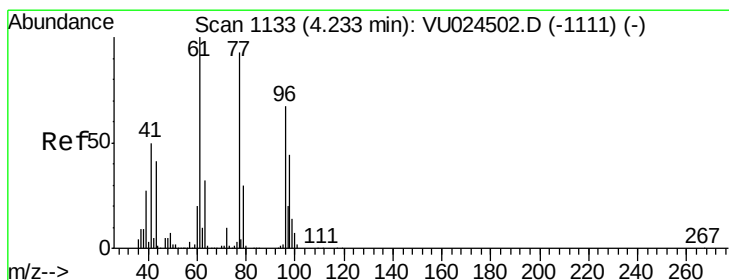
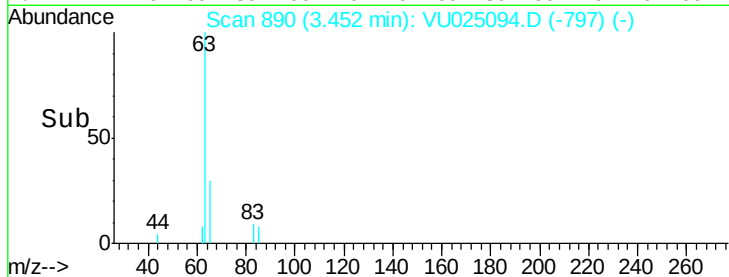
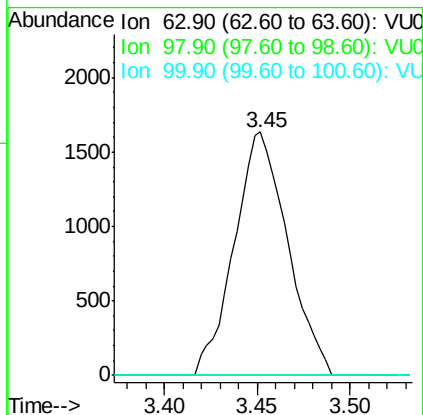
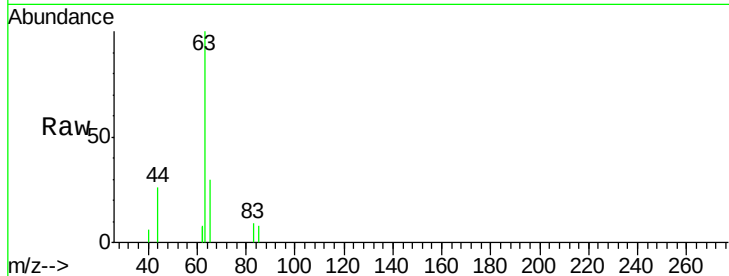
Instrument :

MSVOA_U

ClientSampleId :

WP021MW359-180625

Tgt Ion:	63	Resp:	3257
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.5	10.4#
100	0.0	1.8	5.5#



#27

cis-1,2-Dichloroethene

Concen: 331.985 ug/l

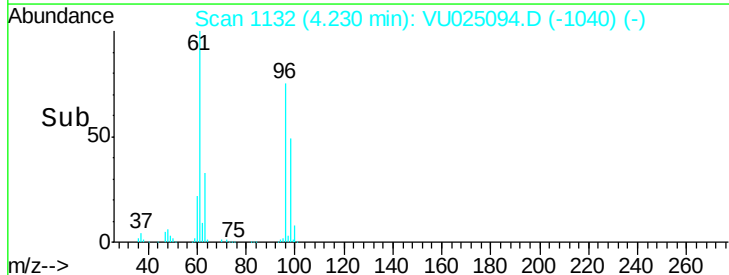
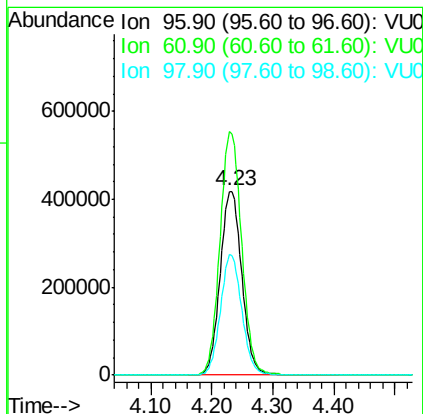
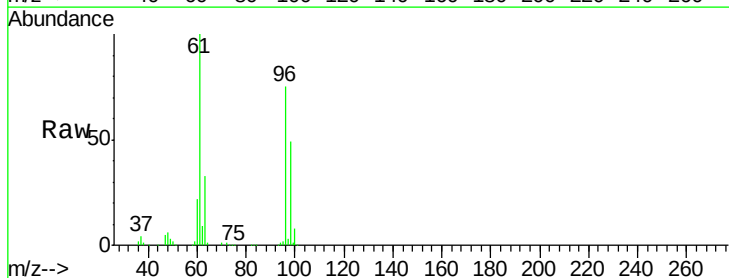
RT: 4.23 min Scan# 1132

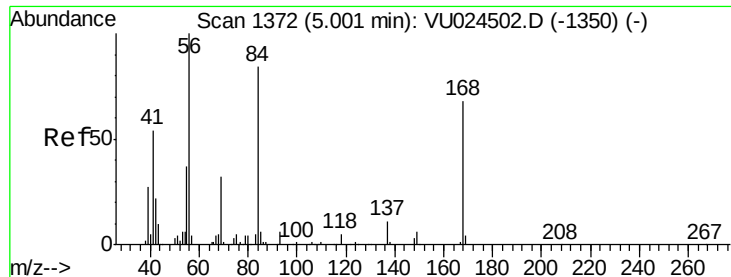
Delta R.T. -0.00 min

Lab File: VU025094.D

Acq: 30 Jun 2018 17:35

Tgt Ion:	96	Resp:	1026899
Ion	Ratio	Lower	Upper
96	100		
61	132.2	0.0	306.6
98	64.4	0.0	128.8

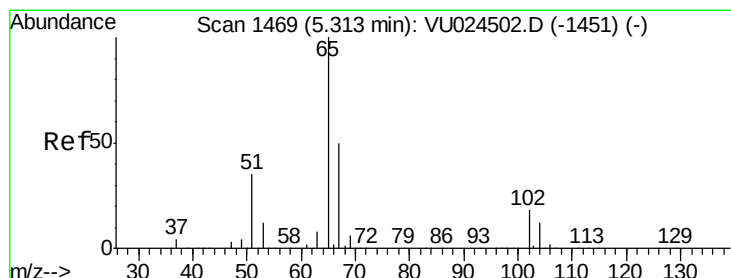
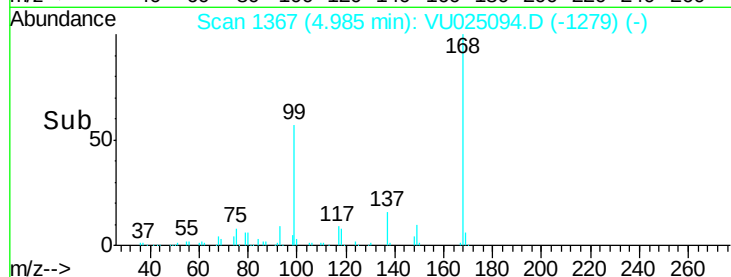
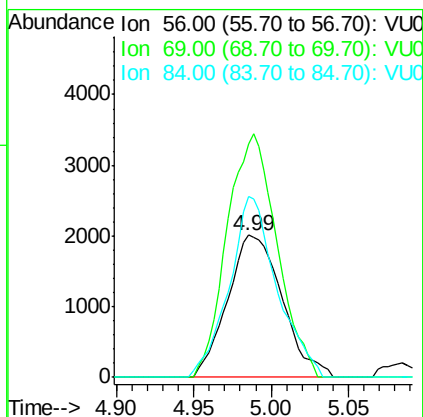
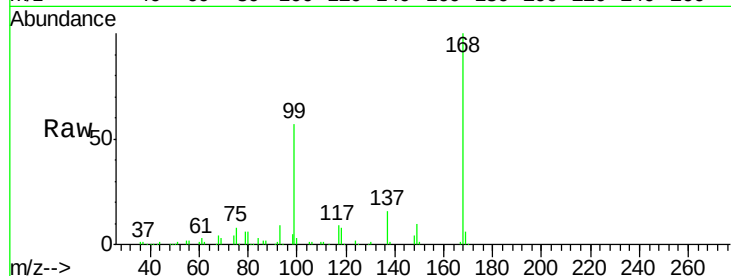




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1367
Delta R.T. -0.02 min
Lab File: VU025094.D
Acq: 30 Jun 2018 17:35

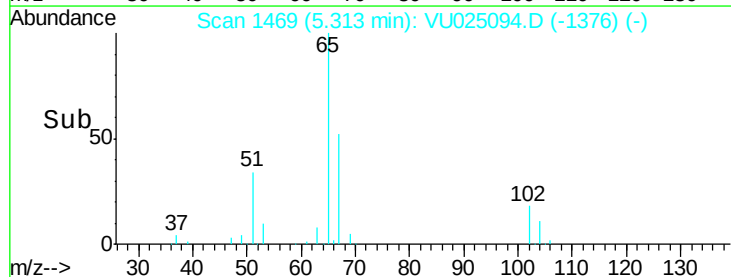
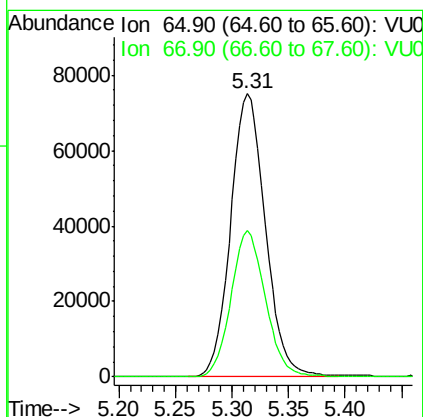
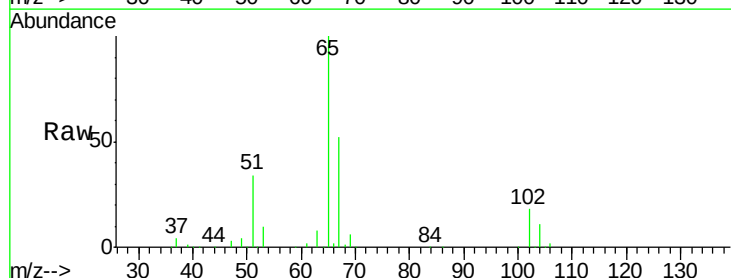
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MSVOA_U
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WP021MW359-180625

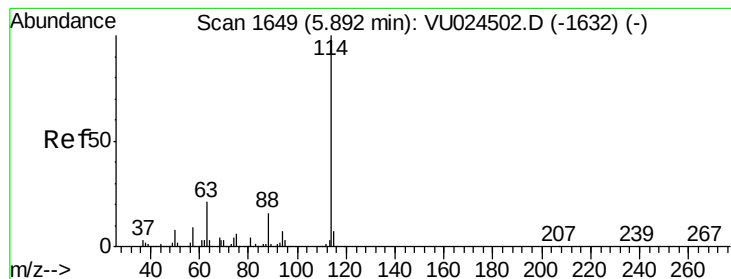
Tgt Ion: 56 Resp: 4932
Ion Ratio Lower Upper
56 100
69 164.2 24.8 37.2#
84 127.0 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 45.935 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU025094.D
Acq: 30 Jun 2018 17:35

Tgt Ion: 65 Resp: 160881
Ion Ratio Lower Upper
65 100
67 51.1 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU025094.D

Acq: 30 Jun 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

WP021MW359-180625

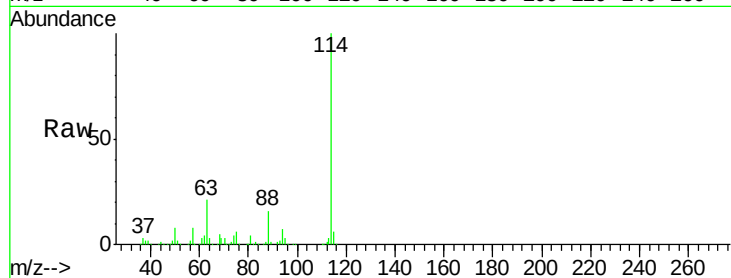
Tgt Ion:114 Resp: 317692

Ion Ratio Lower Upper

114 100

63 21.1 0.0 45.4

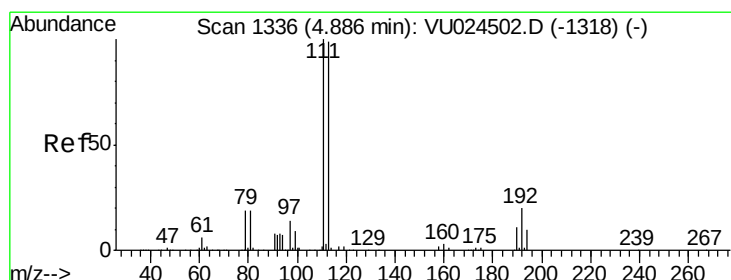
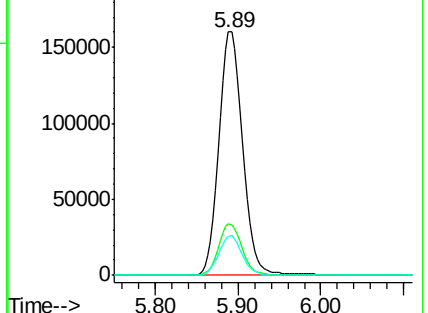
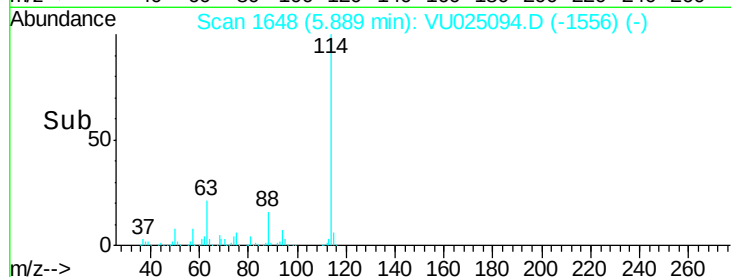
88 16.2 0.0 31.0



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: 47.652 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025094.D

Acq: 30 Jun 2018 17:35

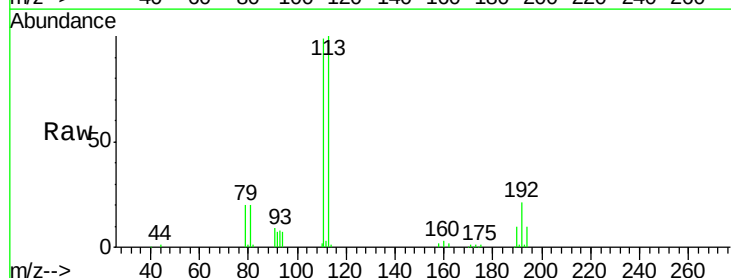
Tgt Ion:113 Resp: 125638

Ion Ratio Lower Upper

113 100

111 101.7 82.2 123.4

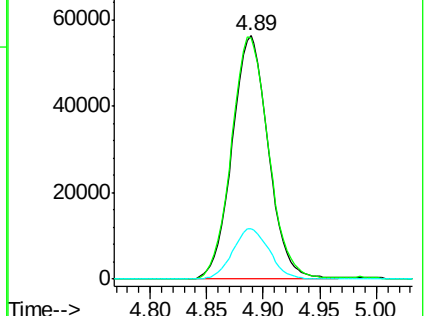
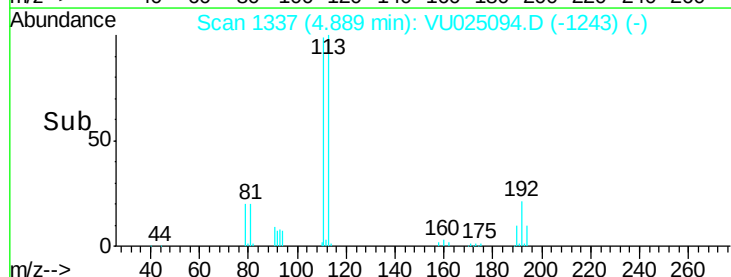
192 20.8 16.2 24.4

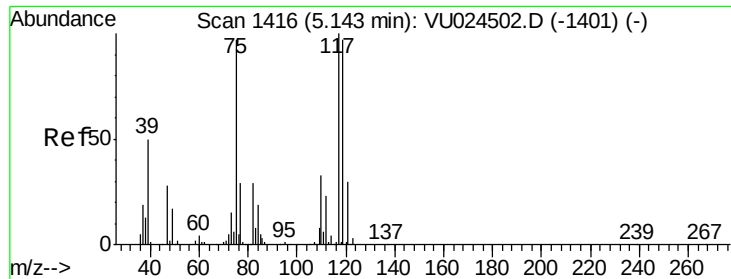


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

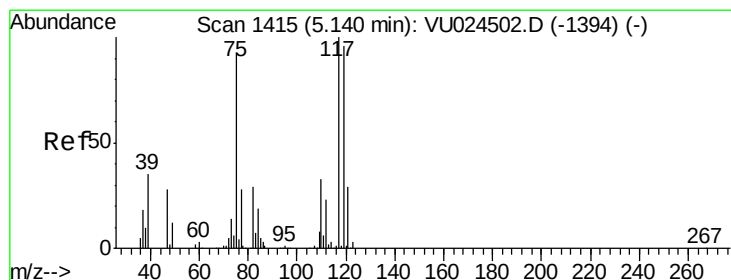
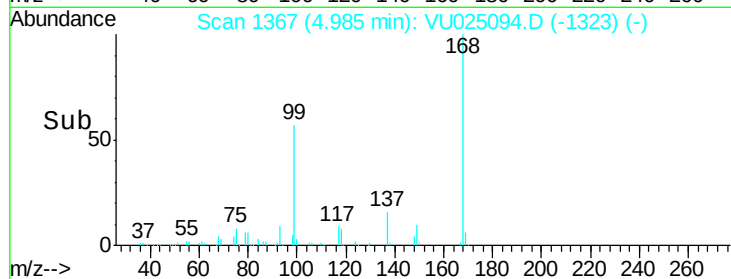
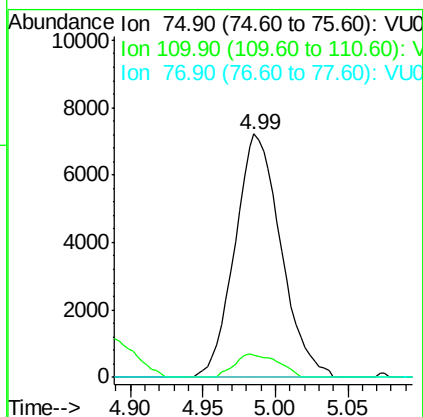
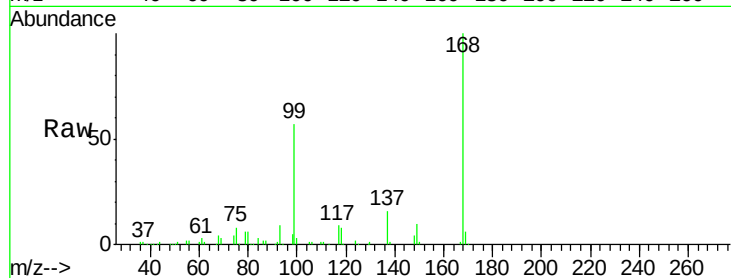




#36
 1,1-Dichloropropene
 Concen: 4.259 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025094.D
 Acq: 30 Jun 2018 17:35

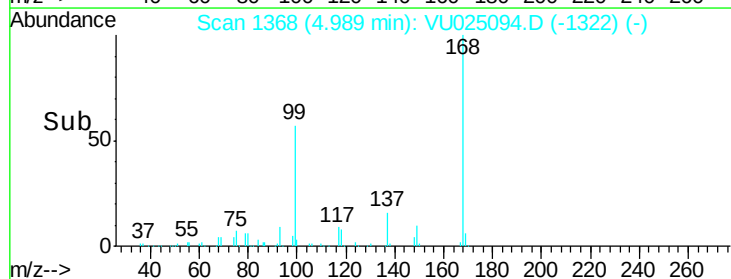
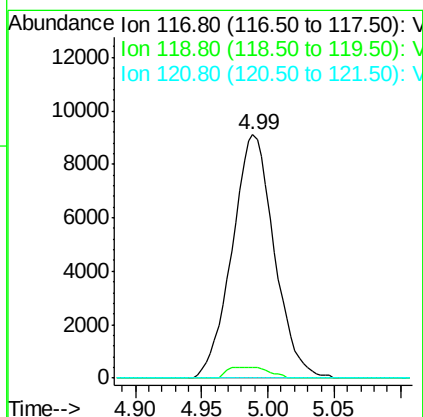
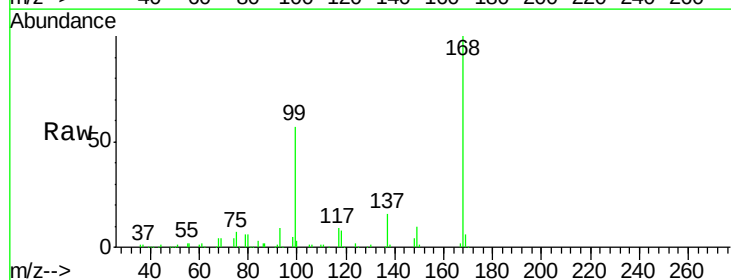
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW359-180625

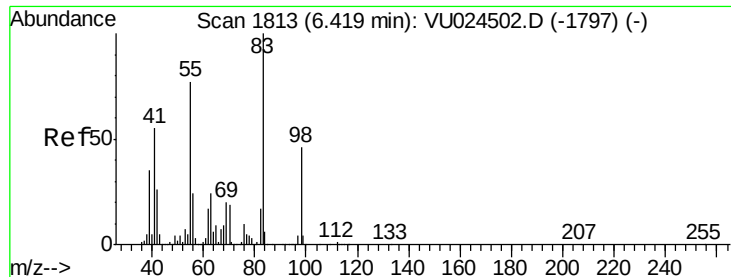
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.905 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025094.D
 Acq: 30 Jun 2018 17:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	76.1	114.1#
121	0.0	23.7	35.5#

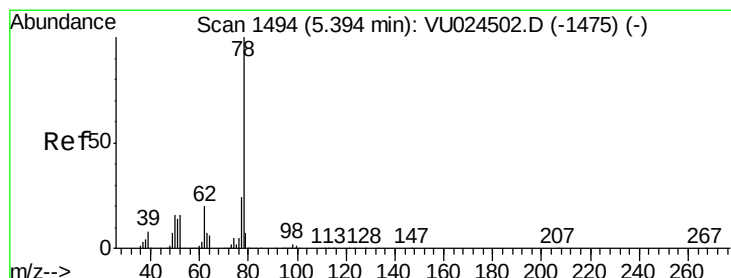
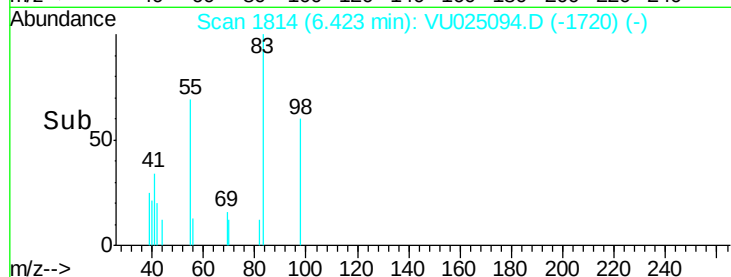
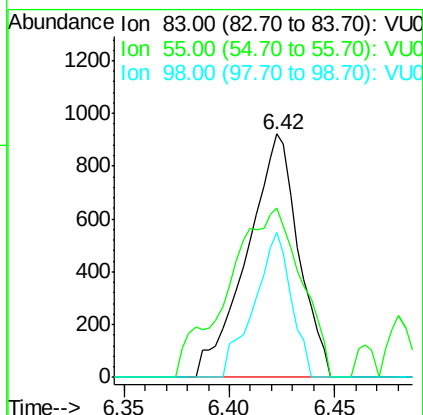
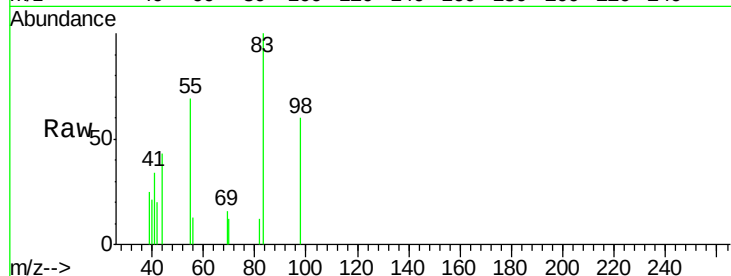




#39
Methylcyclohexane
Concen: 0.336 ug/l
RT: 6.42 min Scan# 1814
Delta R.T. 0.00 min
Lab File: VU025094.D
Acq: 30 Jun 2018 17:35

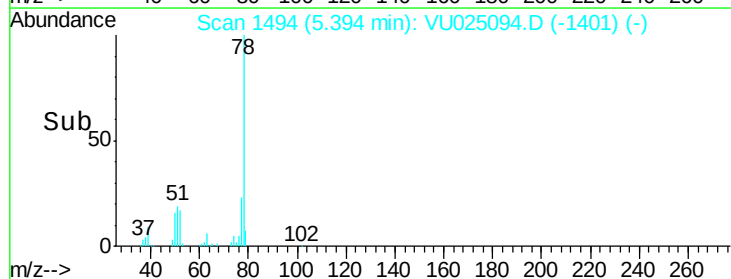
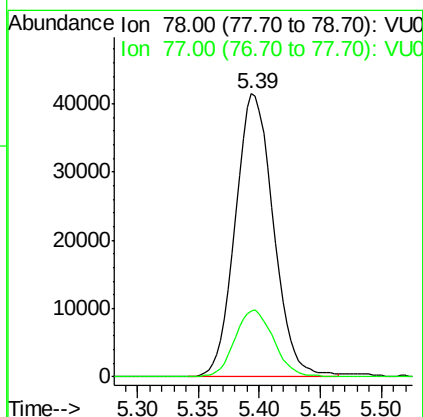
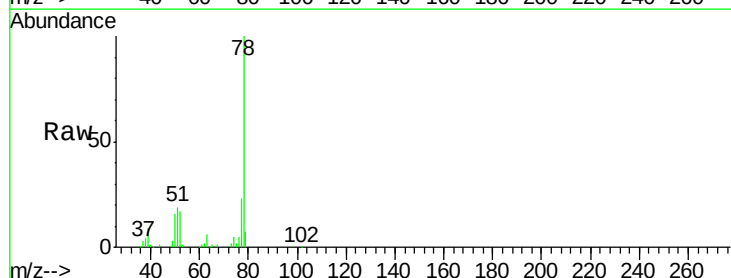
Instrument :
MSVOA_U
ClientSampleId :
WP021MW359-180625

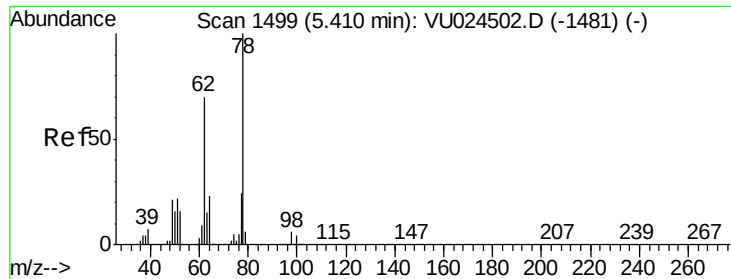
Tgt Ion: 83 Resp: 1563
Ion Ratio Lower Upper
83 100
55 69.3 65.8 98.6
98 59.6 36.7 55.1#



#40
Benzene
Concen: 8.442 ug/l
RT: 5.39 min Scan# 1494
Delta R.T. -0.00 min
Lab File: VU025094.D
Acq: 30 Jun 2018 17:35

Tgt Ion: 78 Resp: 89801
Ion Ratio Lower Upper
78 100
77 23.4 19.2 28.8

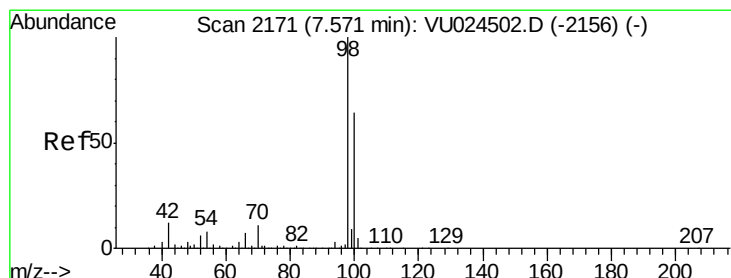
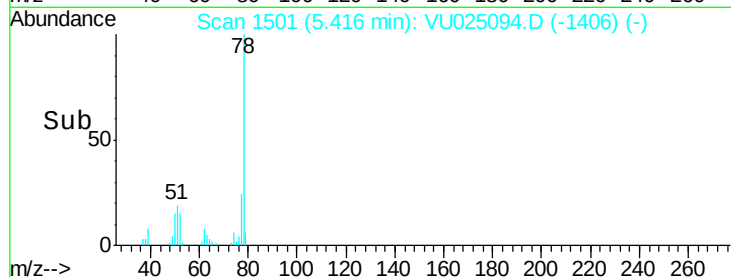
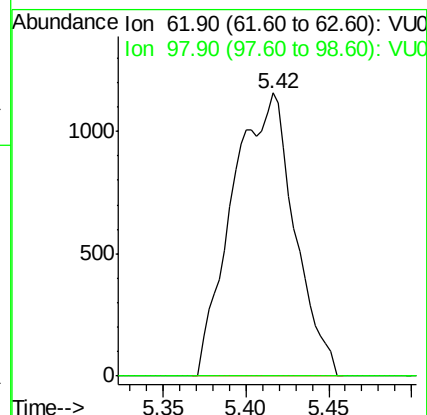
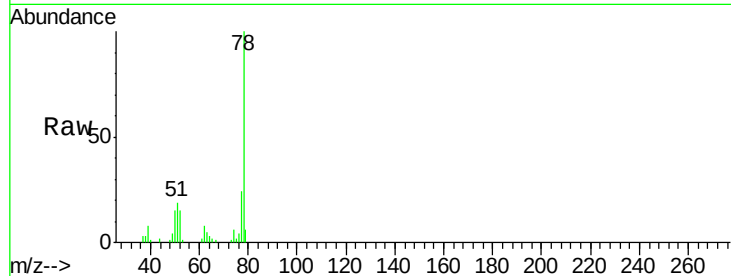




#42
 1,2-Dichloroethane
 Concen: 0.742 ug/l
 RT: 5.42 min Scan# 1501
 Delta R.T. 0.01 min
 Lab File: VU025094.D
 Acq: 30 Jun 2018 17:35

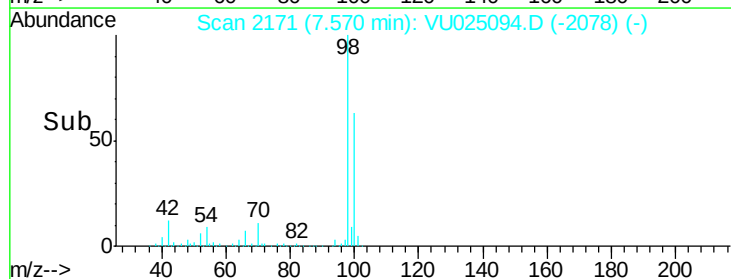
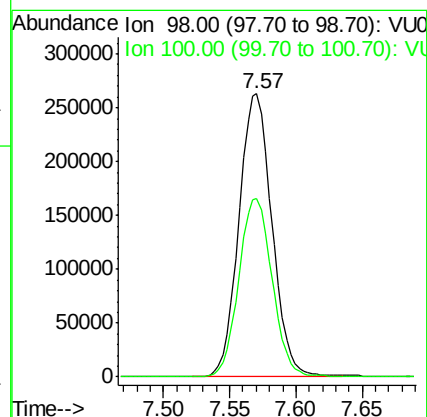
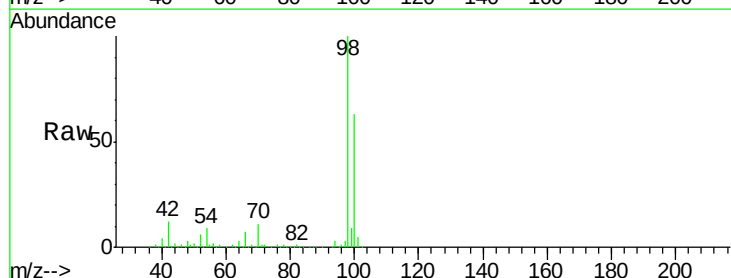
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW359-180625

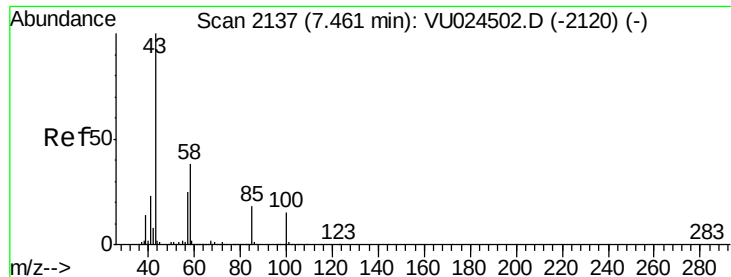
Tgt Ion: 62 Resp: 3007
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 16.6



#50
 Toluene-d8
 Concen: 47.383 ug/l
 RT: 7.57 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VU025094.D
 Acq: 30 Jun 2018 17:35

Tgt Ion: 98 Resp: 455696
 Ion Ratio Lower Upper
 98 100
 100 63.9 51.1 76.7

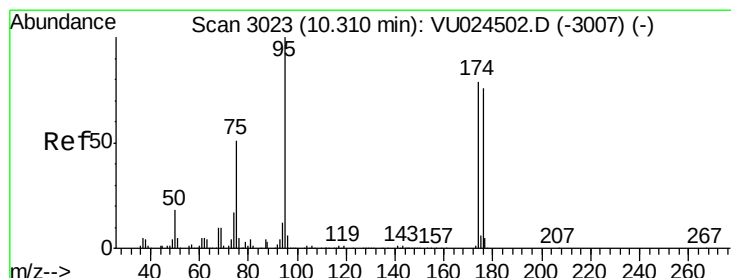
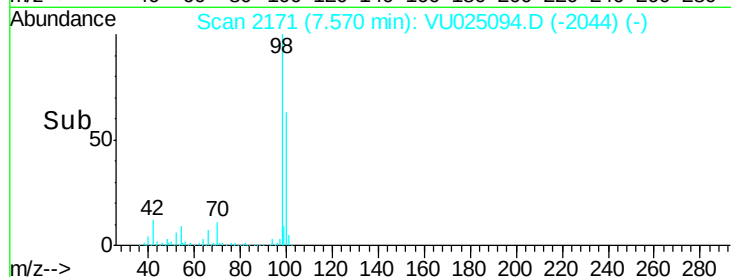
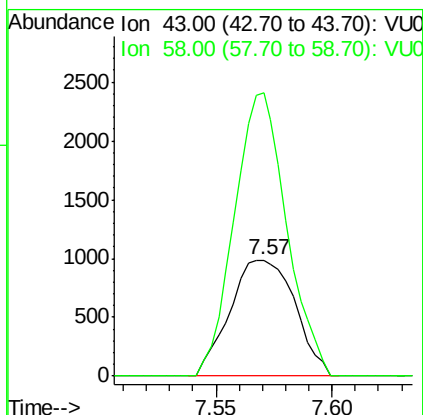
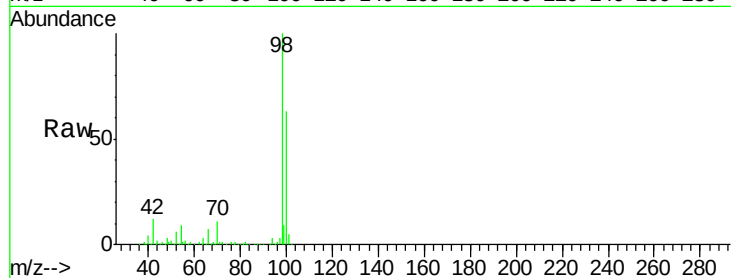




#51
 4-Methyl-2-Pentanone
 Concen: 0.435 ug/l
 RT: 7.57 min Scan# 2171
 Delta R.T. 0.11 min
 Lab File: VU025094.D
 Acq: 30 Jun 2018 17:35

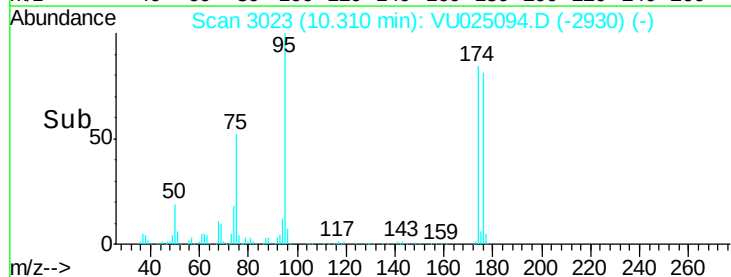
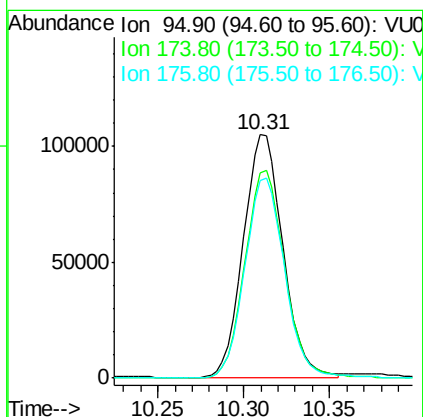
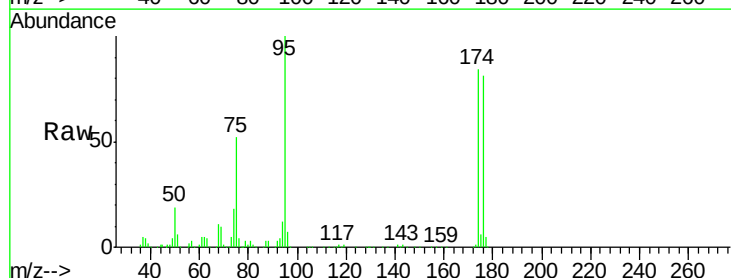
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW359-180625

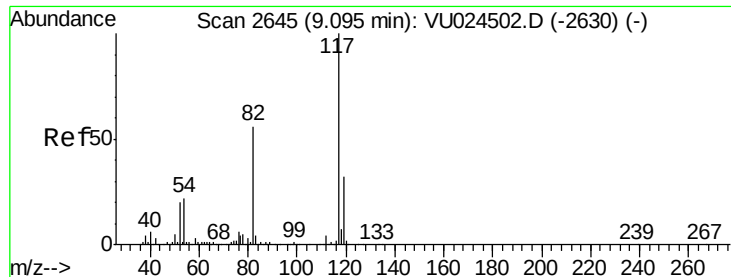
Tgt Ion: 43 Resp: 1924
 Ion Ratio Lower Upper
 43 100
 58 196.2 30.0 45.0#



#62
 4-Bromofluorobenzene
 Concen: 44.227 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.00 min
 Lab File: VU025094.D
 Acq: 30 Jun 2018 17:35

Tgt Ion: 95 Resp: 168876
 Ion Ratio Lower Upper
 95 100
 174 85.8 0.0 165.8
 176 82.7 0.0 159.4

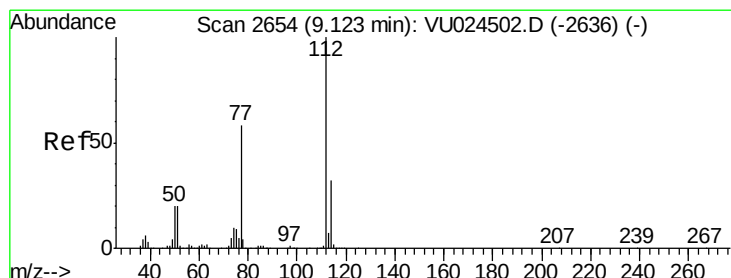
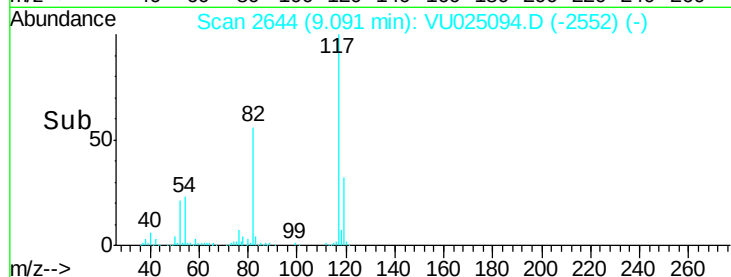
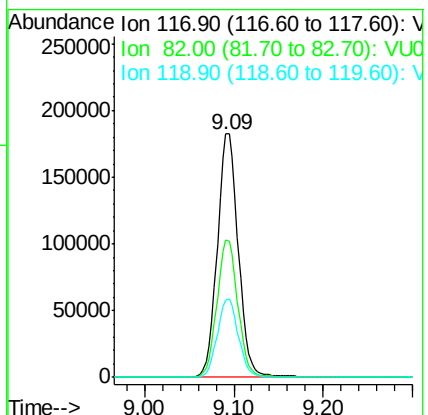
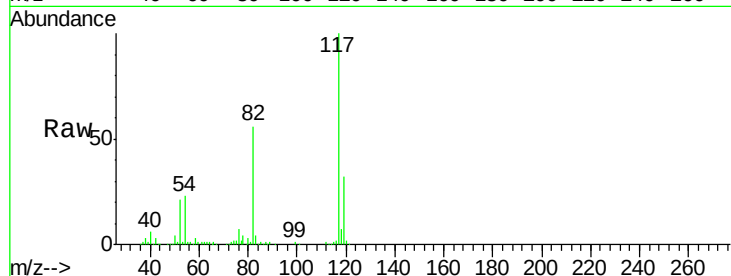




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU025094.D
Acq: 30 Jun 2018 17:35

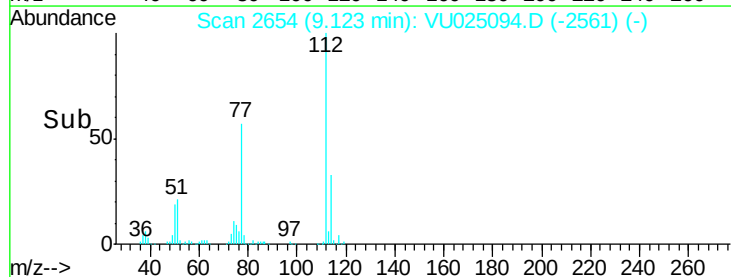
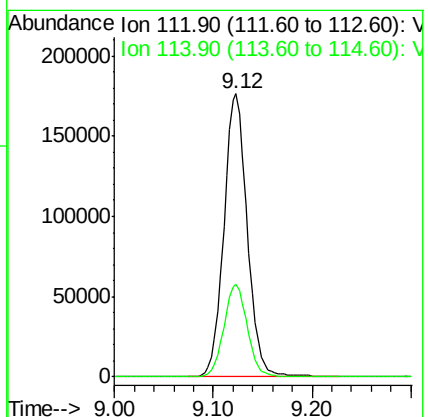
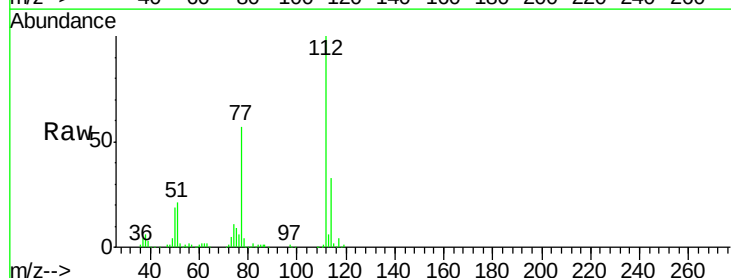
Instrument :
MSVOA_U
ClientSampleId :
WP021MW359-180625

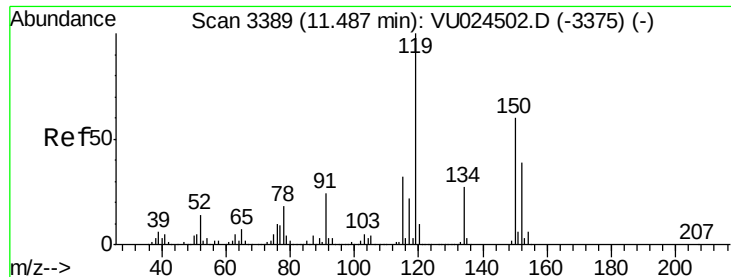
Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.3	44.3	66.5
119	31.9	25.4	38.2



#65
Chlorobenzene
Concen: 38.500 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. -0.00 min
Lab File: VU025094.D
Acq: 30 Jun 2018 17:35

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU025094.D

Acq: 30 Jun 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

WP021MW359-180625

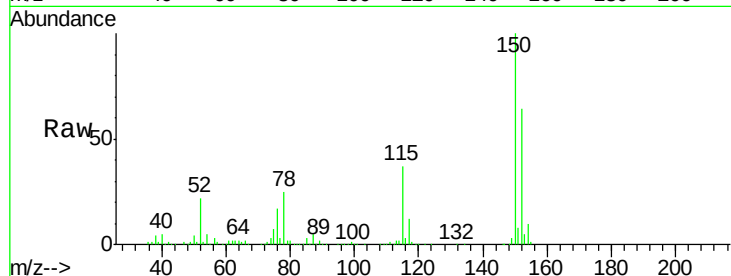
Tgt Ion:152 Resp: 157776

Ion Ratio Lower Upper

152 100

115 57.9 43.0 129.0

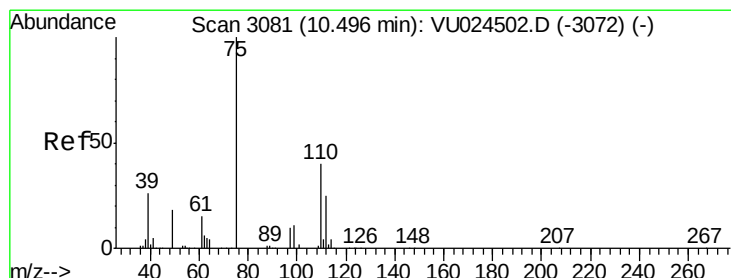
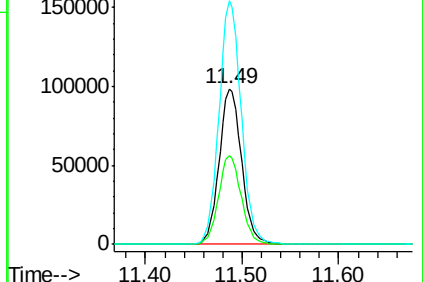
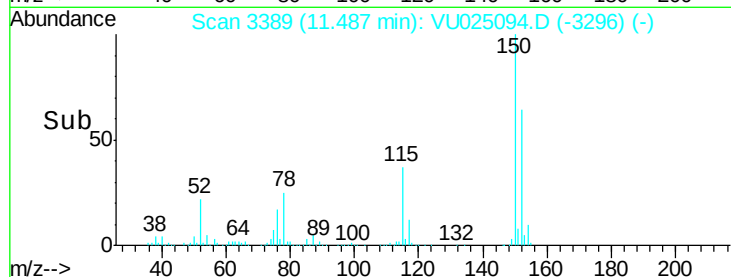
150 155.8 0.0 354.0



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



#76

1,2,3-Trichloropropane

Concen: 25.547 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025094.D

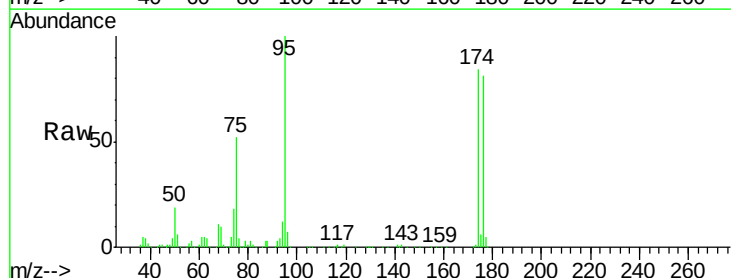
Acq: 30 Jun 2018 17:35

Tgt Ion: 75 Resp: 88742

Ion Ratio Lower Upper

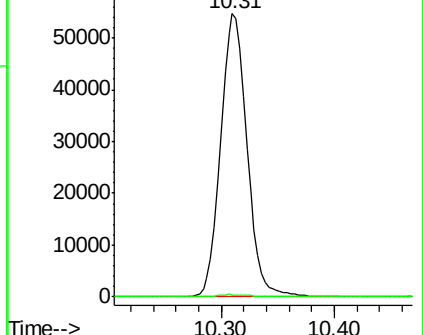
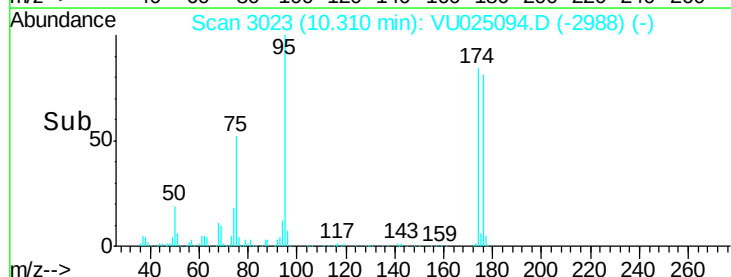
75 100

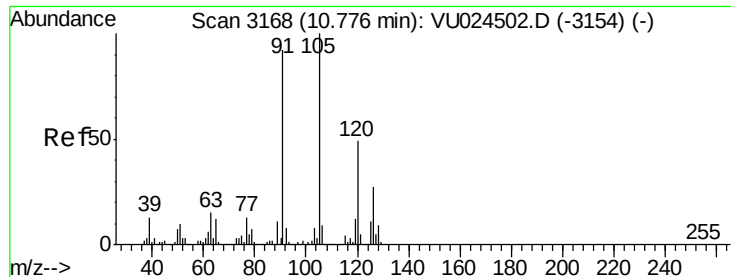
77 0.8 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#80

1,3,5-Trimethylbenzene

Concen: 0.267 ug/l

RT: 10.97 min Scan# 3229

Delta R.T. 0.20 min

Lab File: VU025094.D

Acq: 30 Jun 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

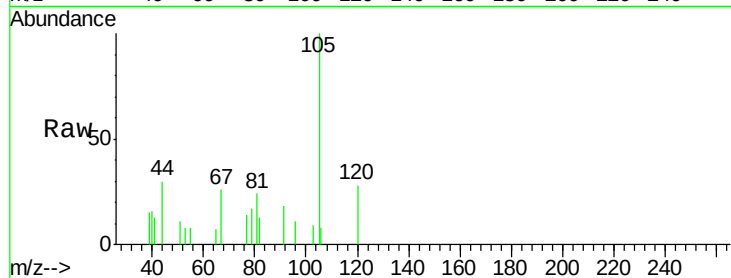
WP021MW359-180625

Tgt Ion:105 Resp: 2806

Ion Ratio Lower Upper

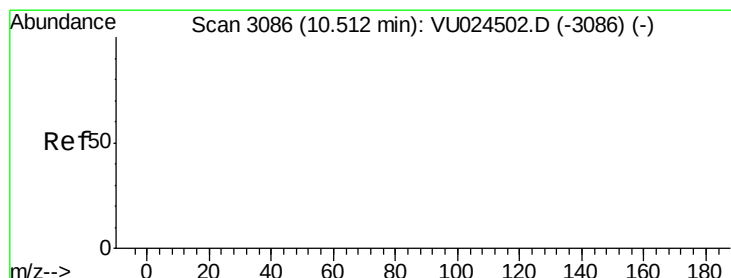
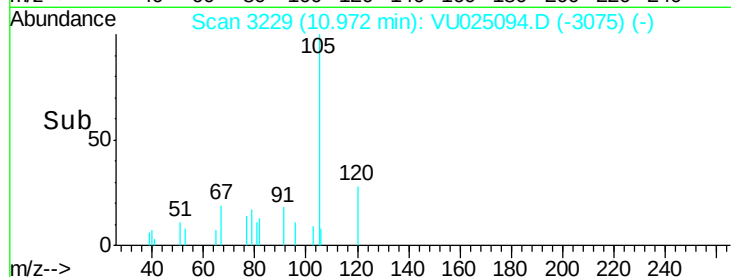
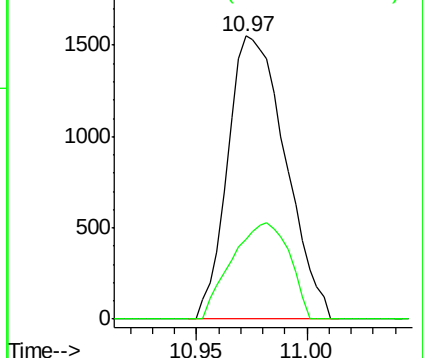
105 100

120 33.9 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 59.127 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025094.D

Acq: 30 Jun 2018 17:35

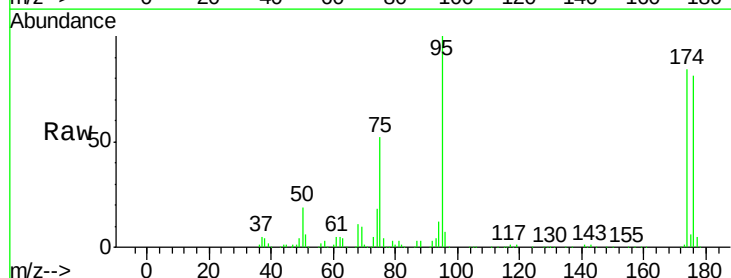
Tgt Ion: 75 Resp: 88742

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

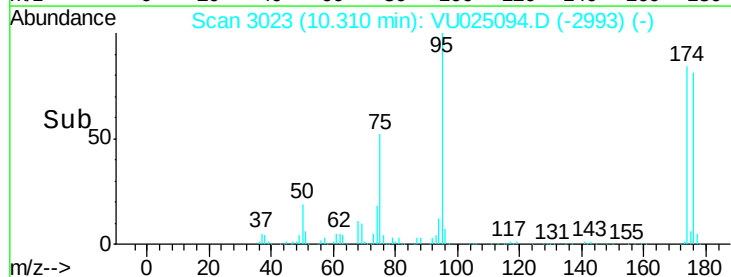
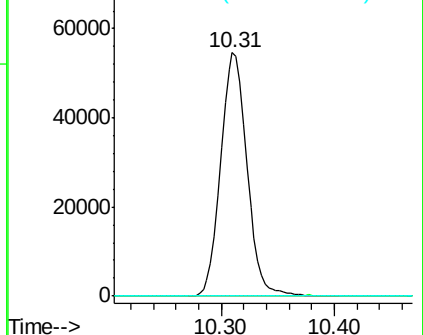
89 0.0 0.0 0.0

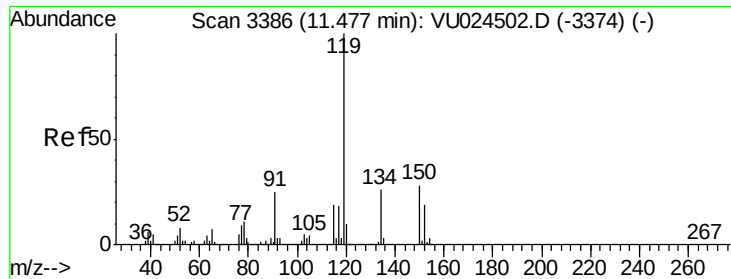


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

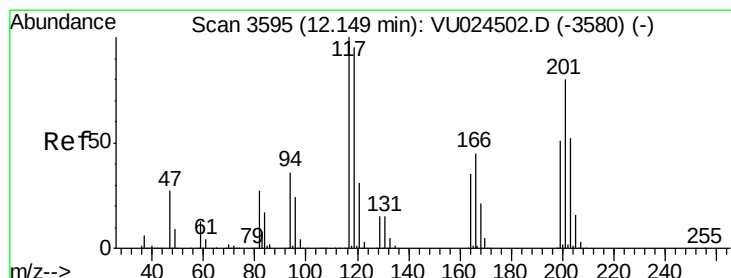
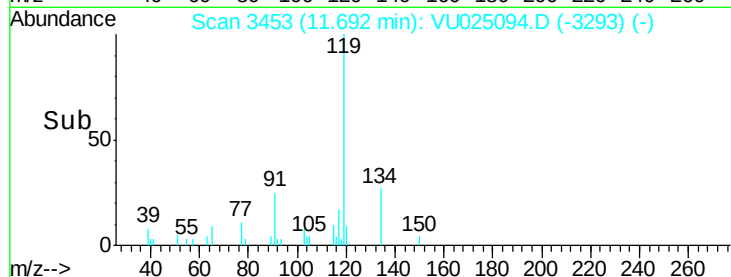
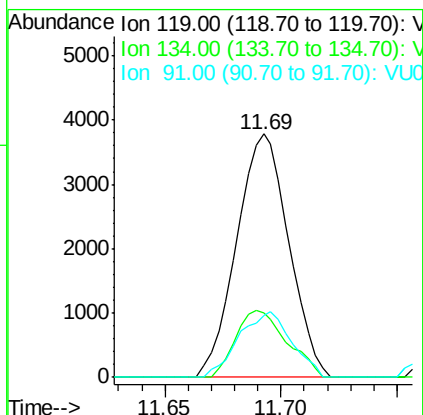
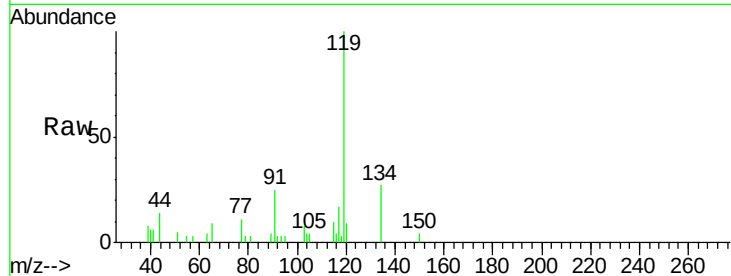




#86
p-Isopropyltoluene
Concen: 0.520 ug/l
RT: 11.69 min Scan# 3453
Delta R.T. 0.22 min
Lab File: VU025094.D
Acq: 30 Jun 2018 17:35

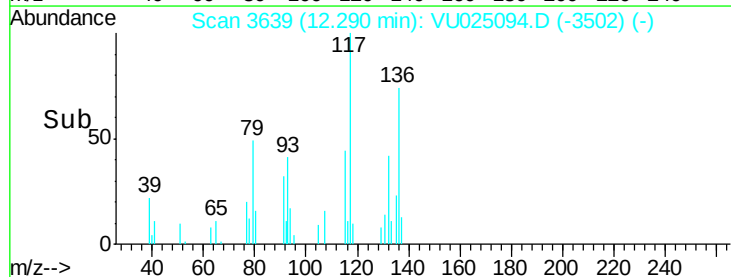
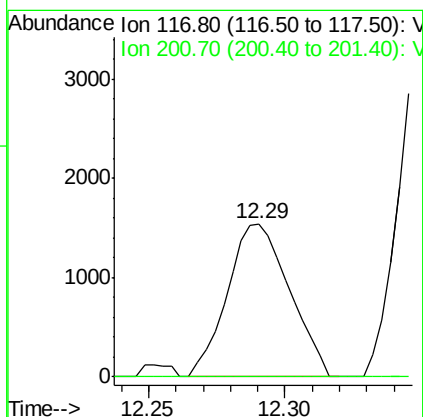
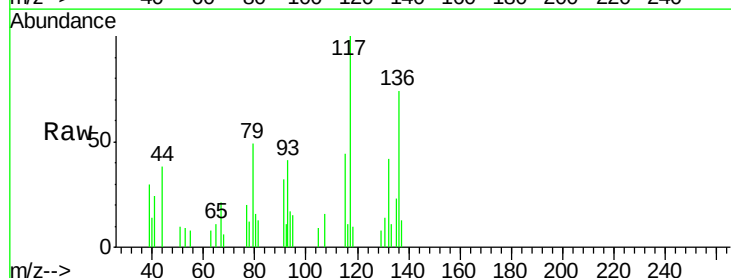
Instrument :
MSVOA_U
ClientSampleId :
WP021MW359-180625

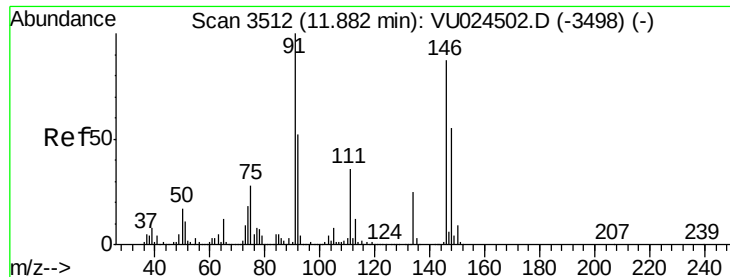
Tgt Ion:119 Resp: 5883
Ion Ratio Lower Upper
119 100
134 26.9 12.9 38.6
91 27.3 12.0 36.1



#90
Hexachloroethane
Concen: 1.102 ug/l
RT: 12.29 min Scan# 3639
Delta R.T. 0.14 min
Lab File: VU025094.D
Acq: 30 Jun 2018 17:35

Tgt Ion:117 Resp: 2435
Ion Ratio Lower Upper
117 100
201 0.0 41.1 123.3#





#91

1,2-Dichlorobenzene

Concen: 0.404 ug/l

RT: 11.89 min Scan# 3513

Delta R.T. 0.00 min

Lab File: VU025094.D

Acq: 30 Jun 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

WP021MW359-180625

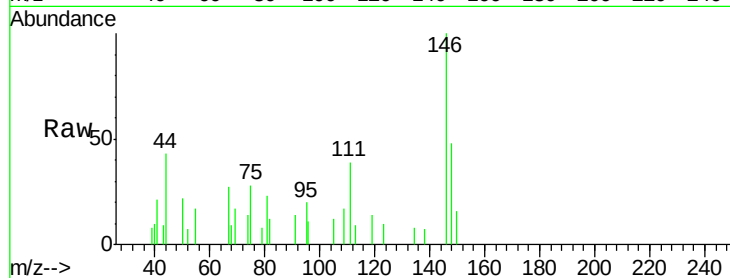
Tgt Ion:146 Resp: 2293

Ion Ratio Lower Upper

146 100

111 35.7 20.5 61.6

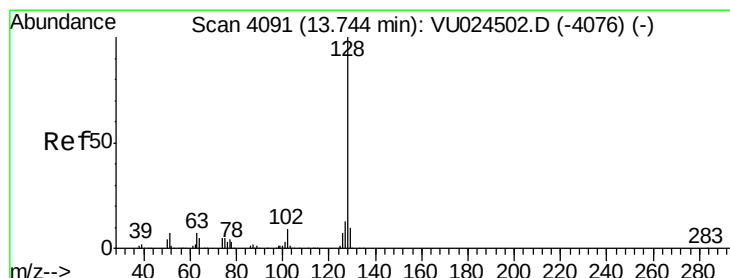
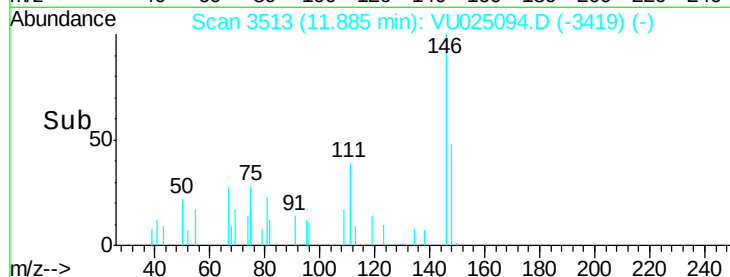
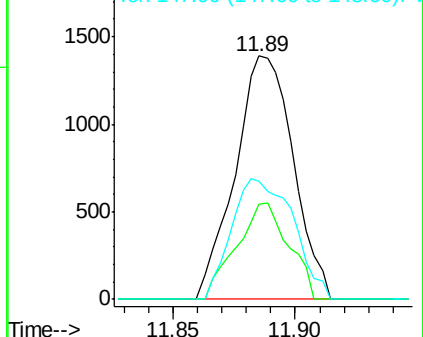
148 52.7 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 1.184 ug/l

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU025094.D

Acq: 30 Jun 2018 17:35

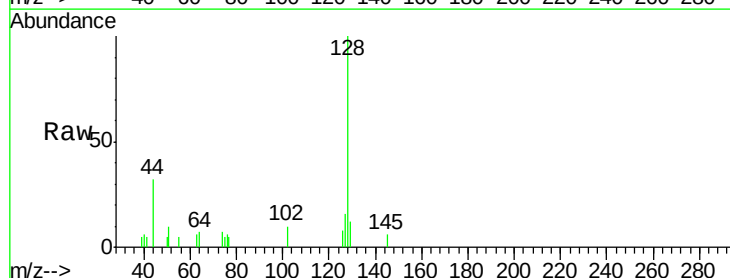
Tgt Ion:128 Resp: 5933

Ion Ratio Lower Upper

128 100

127 11.3 10.6 16.0

129 6.4 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

