

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092418\
 Data File : VU027100.D
 Acq On : 24 Sep 2018 11:53
 Operator : MD/SY
 Sample : J4969-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ172I-20180916

Quant Time: Sep 25 01:34:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	97340	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	165713	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	157997	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	73966	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	99904	50.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.98%	
35) Dibromofluoromethane	4.88	113	68899	47.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.94%	
50) Toluene-d8	7.57	98	266215	48.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.26%	
62) 4-Bromofluorobenzene	10.31	95	85773	45.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.32%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.70	64	8398	6.426	ug/l	99
11) Tert butyl alcohol	2.84	59	149	0.332	ug/l #	72
12) 1,1-Dichloroethene	2.29	96	4993	3.714	ug/l	88
16) Acetone	2.32	43	591	Below Cal		94
18) Methyl Acetate	2.70	43	610	0.219	ug/l #	55
24) 1,1-Dichloroethane	3.45	63	181499	56.502	ug/l	99
31) Cyclohexane	4.98	56	2513	0.289	ug/l #	1
32) 1,1,1-Trichloroethane	4.92	97	6002	2.521	ug/l	97
36) 1,1-Dichloropropene	4.98	75	9183	4.152	ug/l #	49
38) Carbon Tetrachloride	4.99	117	10123	4.810	ug/l #	18
51) 4-Methyl-2-Pentanone	7.56	43	1276	0.435	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	46488	20.688	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	46488	66.206	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.32	105	2154	0.456	ug/l #	31
85) sec-Butylbenzene	11.32	105	2154	0.384	ug/l	100
88) 1,4-Dichlorobenzene	11.51	146	2372	0.851	ug/l	78
89) n-Butylbenzene	11.89	91	70	2.405	ug/l #	33
91) 1,2-Dichlorobenzene	11.88	146	857	0.315	ug/l	94
93) 1,2,4-Trichlorobenzene	13.51	180	1508	0.963	ug/l	88
95) Naphthalene	13.75	128	41	1.696	ug/l #	69
96) 1,2,3-Trichlorobenzene	13.99	180	447	0.266	ug/l #	85

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027100.D

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ClientSampleId :

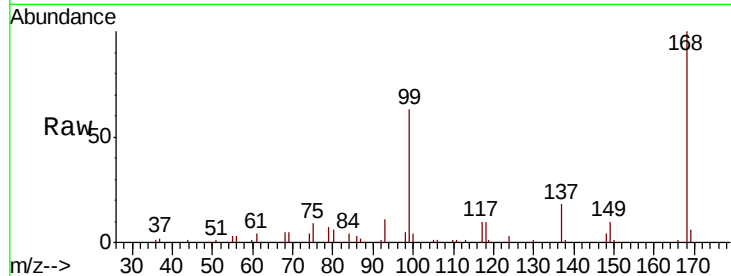
SA-PZ172I-20180916

Tgt Ion:168 Resp: 97340

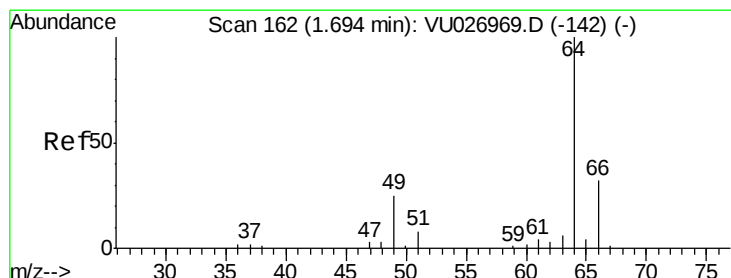
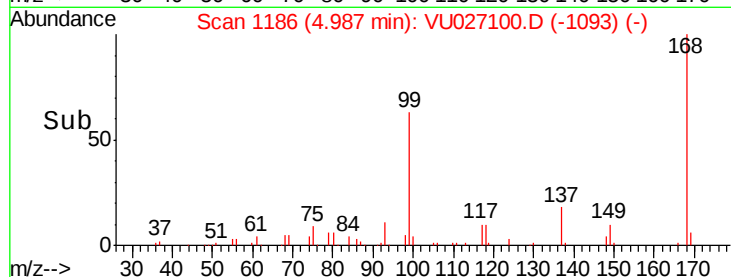
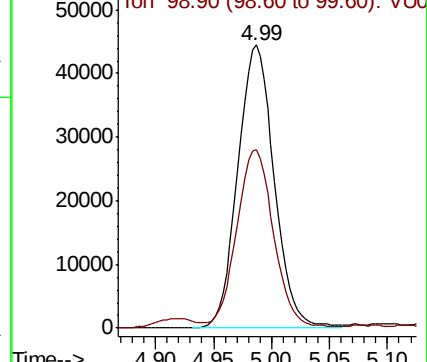
Ion Ratio Lower Upper

168 100

99 62.1 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)



#6

Chloroethane

Concen: 6.426 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU027100.D

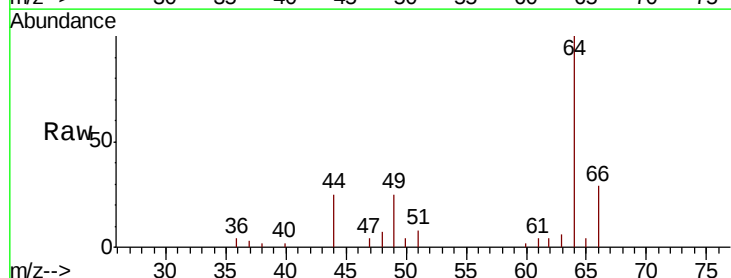
Acq: 24 Sep 2018 11:53

Tgt Ion: 64 Resp: 8398

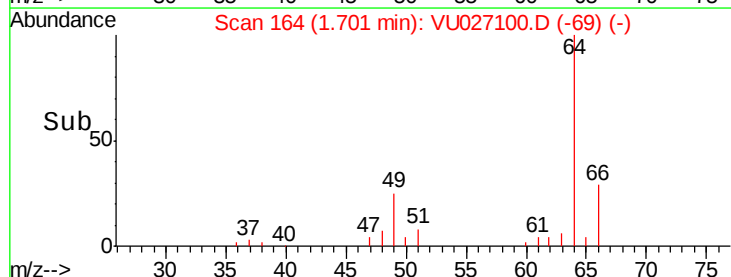
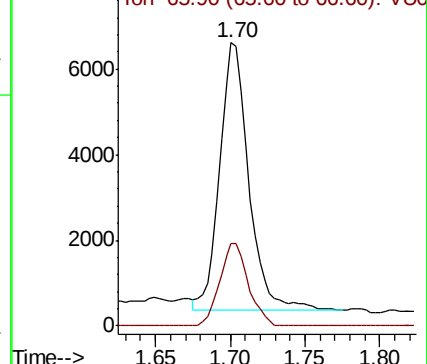
Ion Ratio Lower Upper

64 100

66 30.8 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VU026969.D (-142) (-)



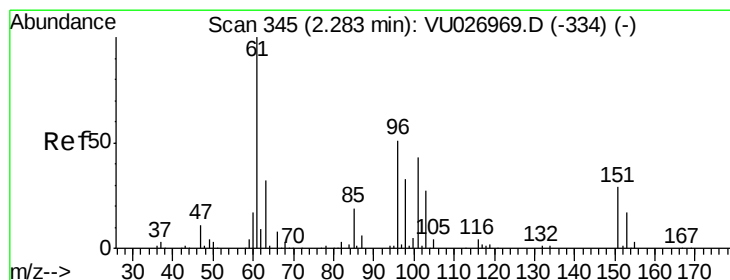
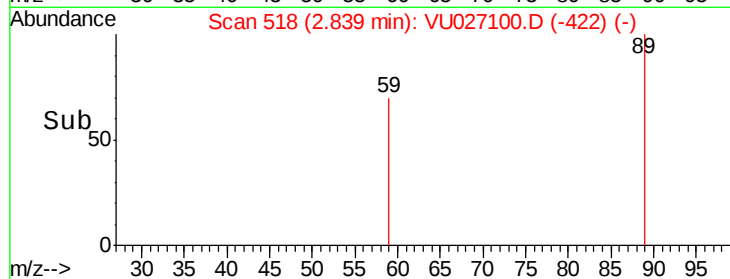
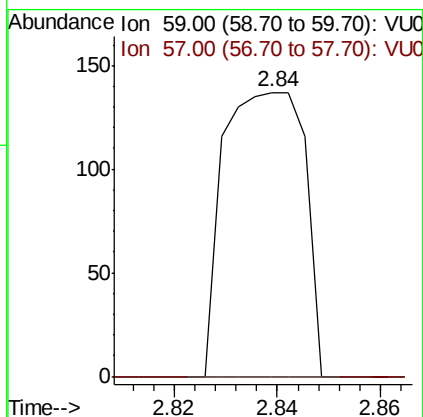
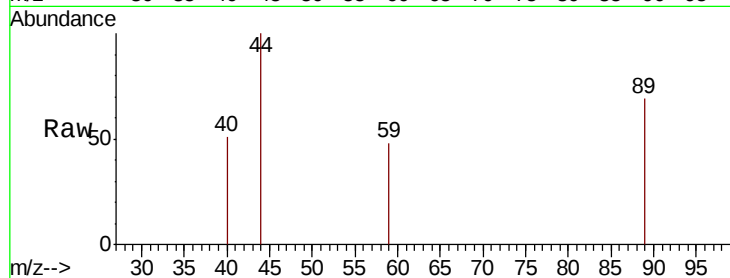


#11

Tert butyl alcohol
 Concen: 0.332 ug/l
 RT: 2.84 min Scan# 518
 Delta R.T. 0.01 min
 Lab File: VU027100.D
 Acq: 24 Sep 2018 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ172I-20180916

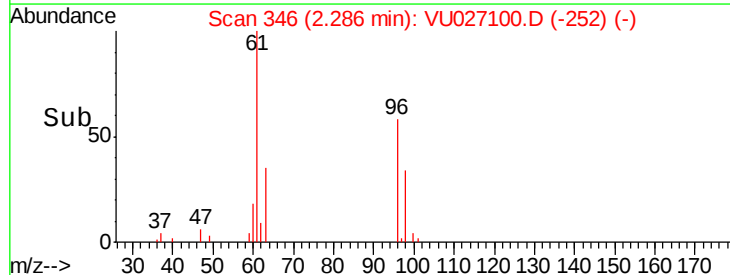
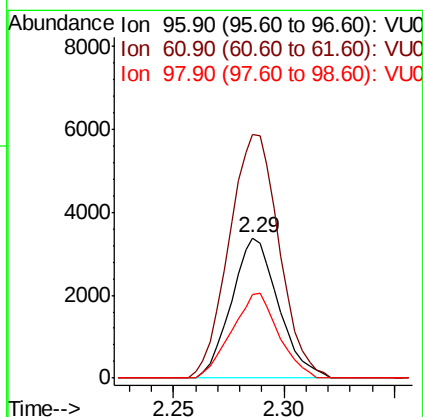
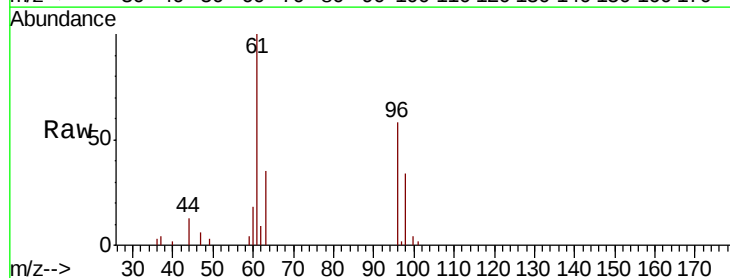
Tgt Ion: 59 Resp: 149
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

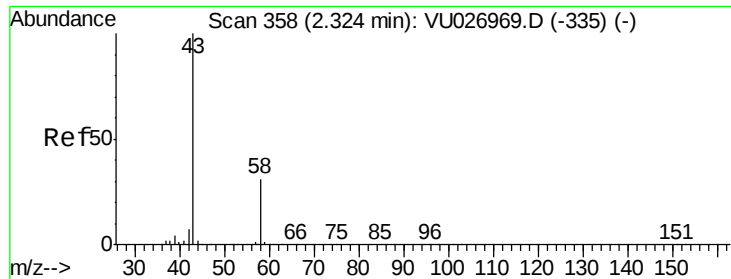


#12

1,1-Dichloroethene
 Concen: 3.714 ug/l
 RT: 2.29 min Scan# 346
 Delta R.T. 0.00 min
 Lab File: VU027100.D
 Acq: 24 Sep 2018 11:53

Tgt Ion: 96 Resp: 4993
 Ion Ratio Lower Upper
 96 100
 61 173.5 156.1 234.1
 98 59.4 51.4 77.0





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 356

Delta R.T. -0.01 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

Instrument :

MSVOA_U

ClientSampleId :

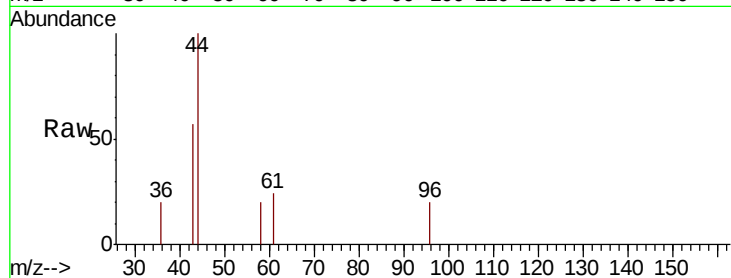
SA-PZ172I-20180916

Tgt Ion: 43 Resp: 591

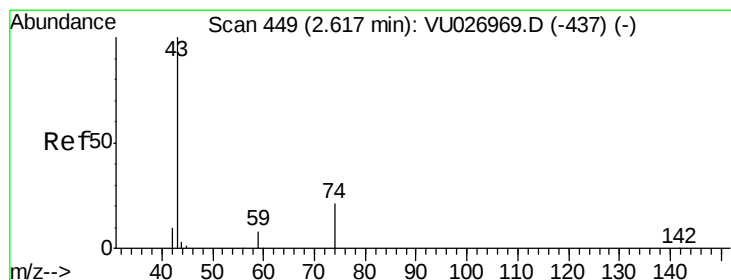
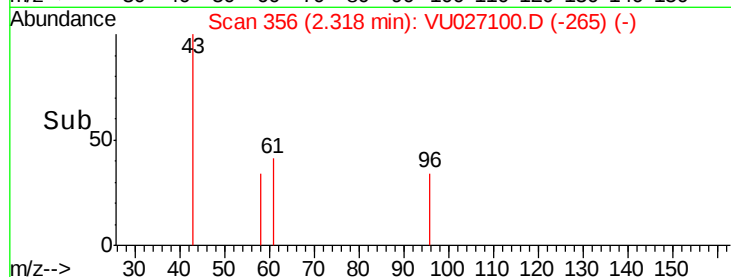
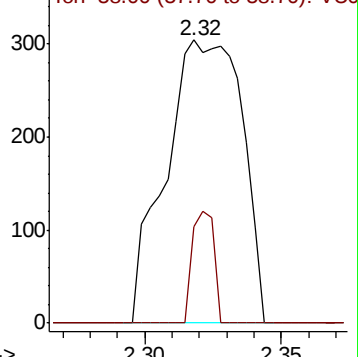
Ion Ratio Lower Upper

43 100

58 34.2 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-335) (-)



#18

Methyl Acetate

Concen: 0.219 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.09 min

Lab File: VU027100.D

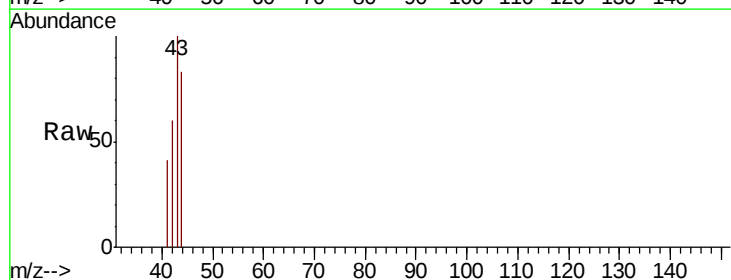
Acq: 24 Sep 2018 11:53

Tgt Ion: 43 Resp: 610

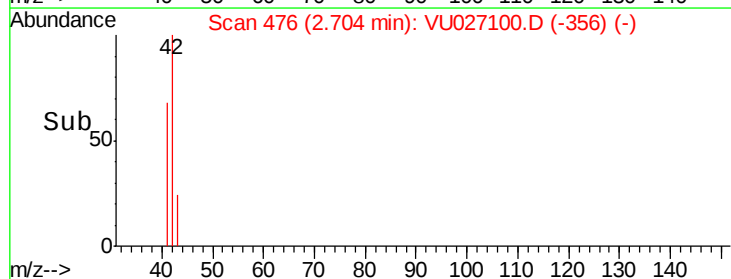
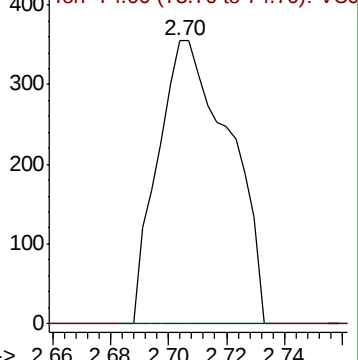
Ion Ratio Lower Upper

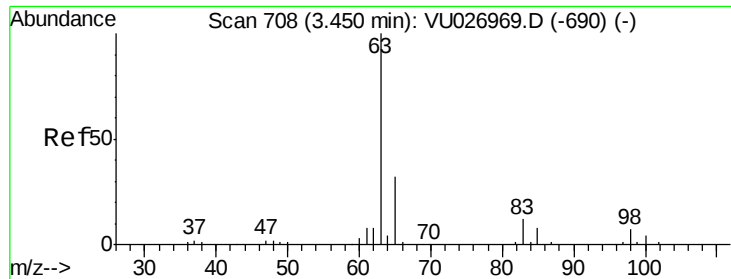
43 100

74 0.0 16.6 25.0#



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-437) (-)





#24

1,1-Dichloroethane

Concen: 56.502 ug/l

RT: 3.45 min Scan# 708

Delta R.T. 0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ172I-20180916

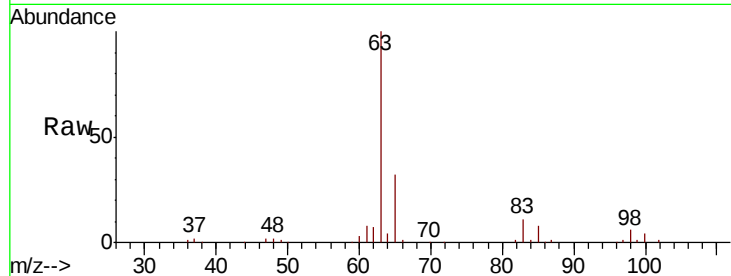
Tgt Ion: 63 Resp: 181499

Ion Ratio Lower Upper

63 100

98 6.1 3.3 9.8

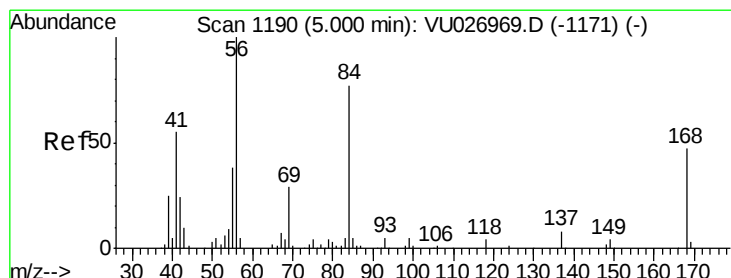
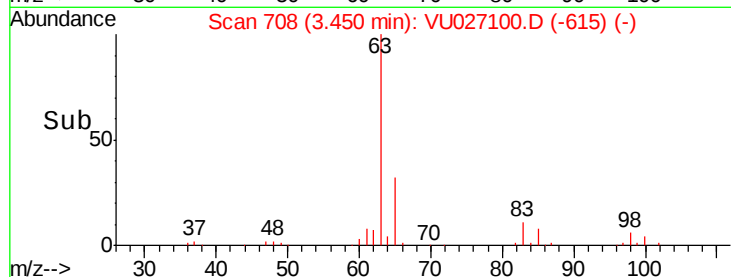
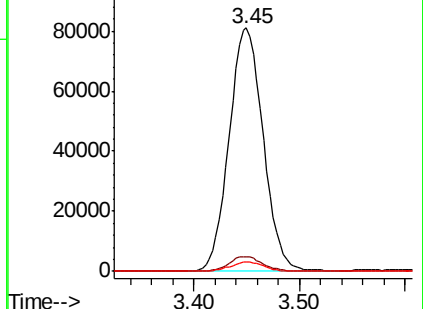
100 4.0 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VU026969.D (-690) (-)

Ion 97.90 (97.60 to 98.60): VU026969.D (-690) (-)

Ion 99.90 (99.60 to 100.60): VU026969.D (-690) (-)



#31

Cyclohexane

Concen: 0.289 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.02 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

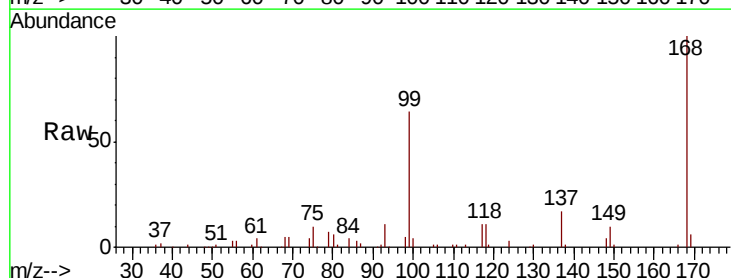
Tgt Ion: 56 Resp: 2513

Ion Ratio Lower Upper

56 100

69 169.6 23.0 34.4#

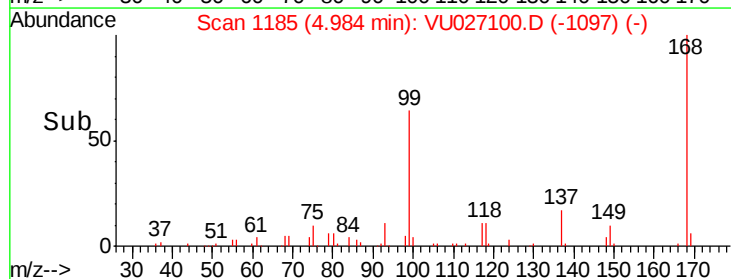
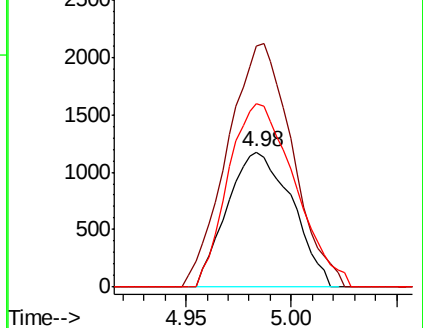
84 135.6 61.4 92.2#

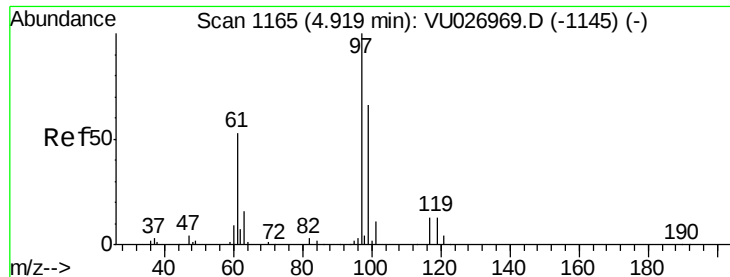


Abundance Ion 56.00 (55.70 to 56.70): VU026969.D (-1171) (-)

Ion 69.00 (68.70 to 69.70): VU026969.D (-1171) (-)

Ion 84.00 (83.70 to 84.70): VU026969.D (-1171) (-)





#32

1,1,1-Trichloroethane

Concen: 2.521 ug/l

RT: 4.92 min Scan# 1165

Delta R.T. 0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

Instrument :

MSVOA_U

ClientSampleId :

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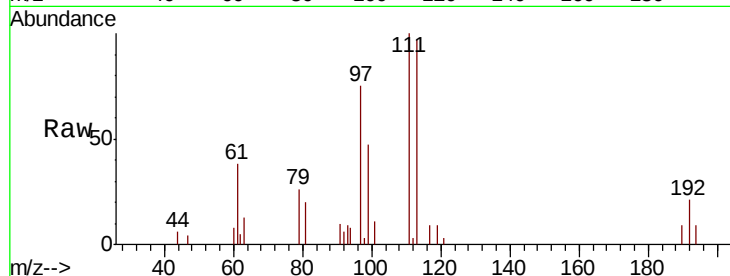
Tgt Ion: 97 Resp: 6002

Ion Ratio Lower Upper

97 100

99 61.9 51.8 77.6

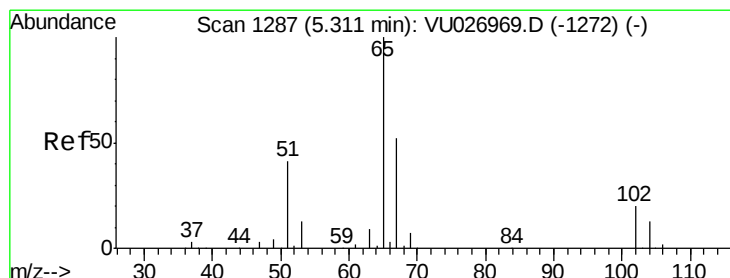
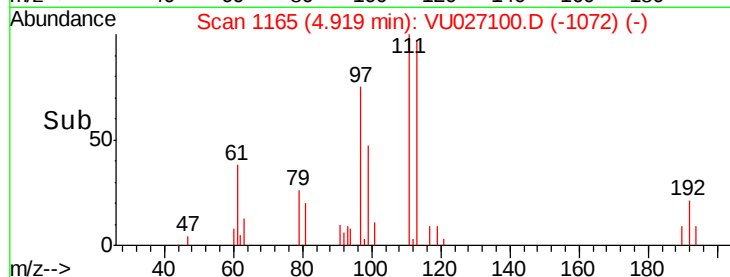
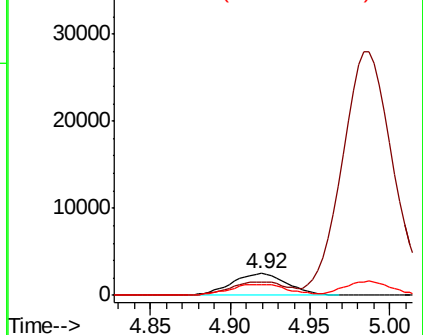
61 53.0 41.1 61.7



Abundance Ion 96.90 (96.60 to 97.60): VU026969.D (-1145) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1145) (-)

Ion 60.90 (60.60 to 61.60): VU026969.D (-1145) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.994 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027100.D

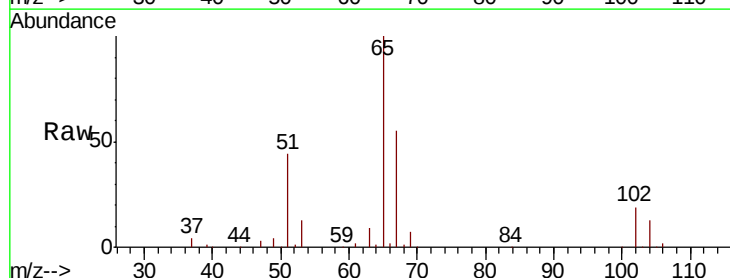
Acq: 24 Sep 2018 11:53

Tgt Ion: 65 Resp: 99904

Ion Ratio Lower Upper

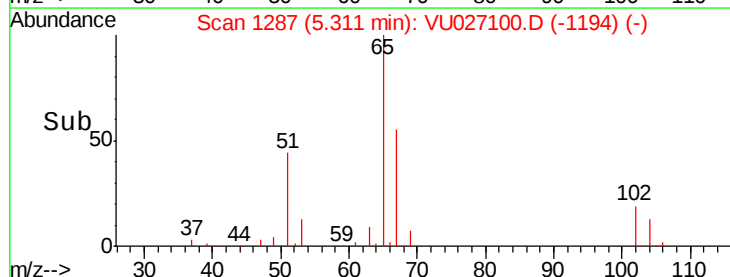
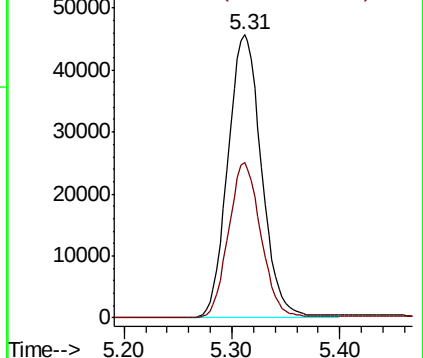
65 100

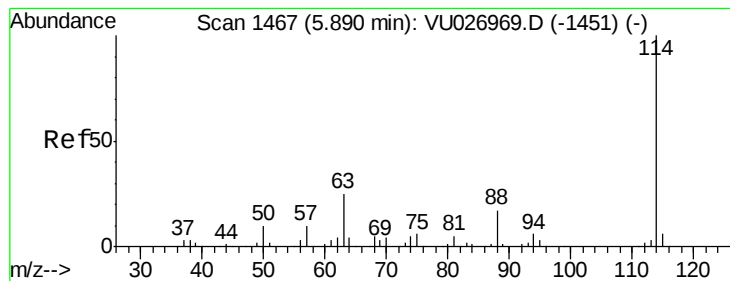
67 52.5 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU026969.D (-1272) (-)

Ion 66.90 (66.60 to 67.60): VU026969.D (-1272) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1467

Delta R.T. 0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

Instrument :

MSVOA_U

ClientSampleId :

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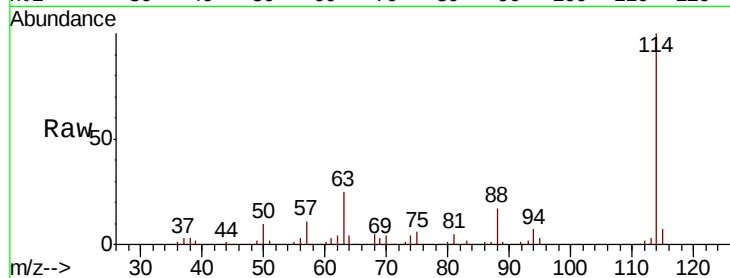
Tgt Ion:114 Resp: 165713

Ion Ratio Lower Upper

114 100

63 25.3 0.0 49.2

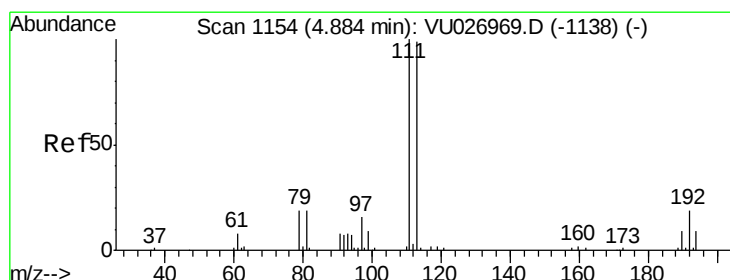
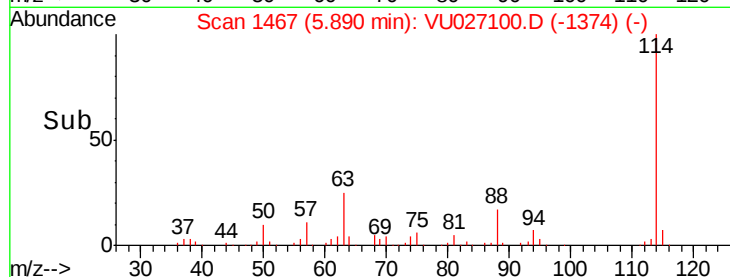
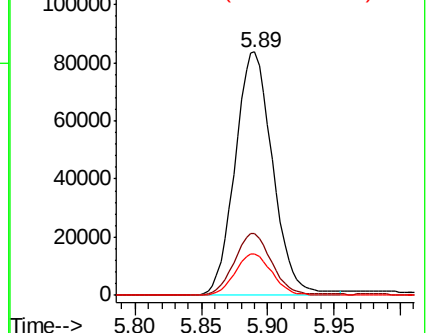
88 16.8 0.0 33.8



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: 47.966 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

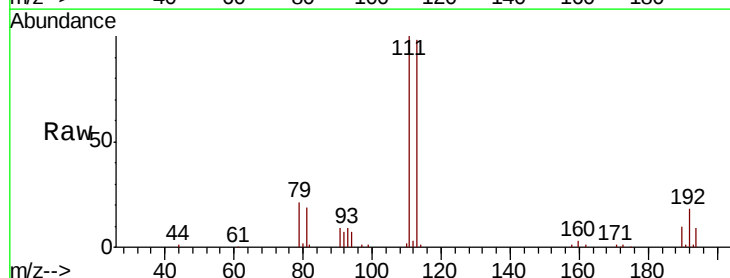
Tgt Ion:113 Resp: 68899

Ion Ratio Lower Upper

113 100

111 104.1 82.2 123.4

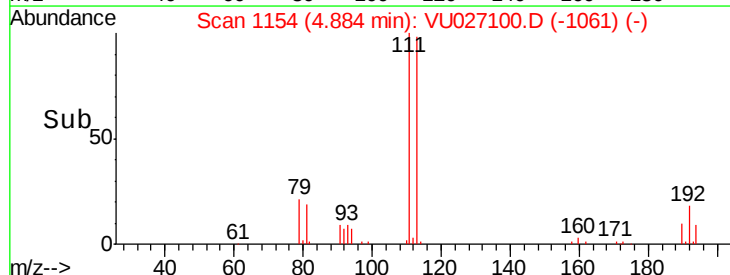
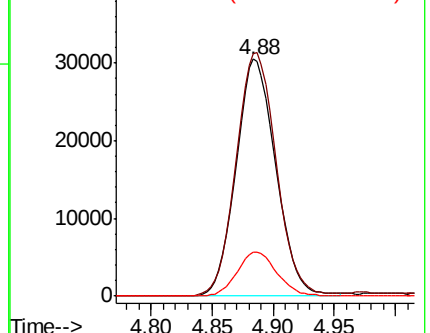
192 18.5 15.2 22.8

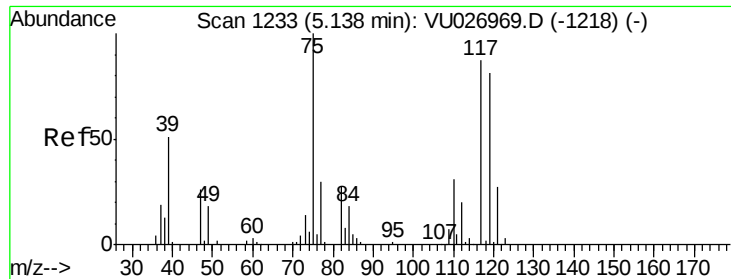


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

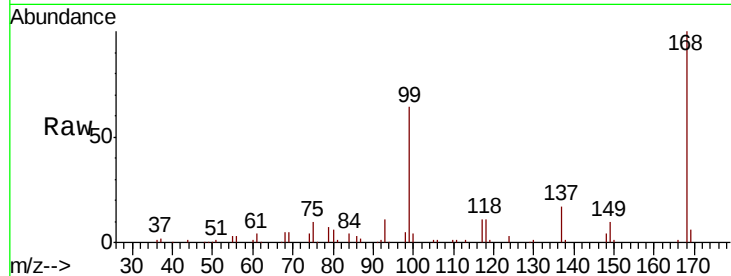




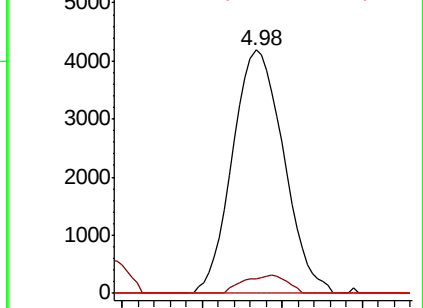
#36
 1,1-Dichloropropene
 Concen: 4.152 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027100.D
 Acq: 24 Sep 2018 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ172I-20180916

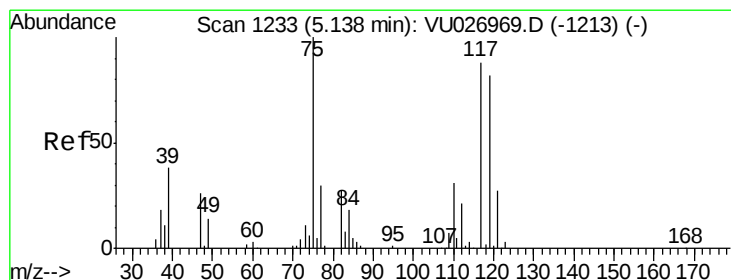
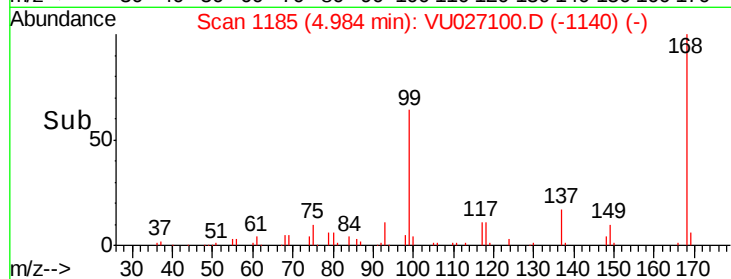
Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.4	16.1	48.2#
77	0.0	24.6	36.8#



Abundance Ion 74.90 (74.60 to 75.60): VU026969.D (-1218) (-)
 Ion 109.90 (109.60 to 110.60): VU026969.D (-1218) (-)
 Ion 76.90 (76.60 to 77.60): VU026969.D (-1218) (-)

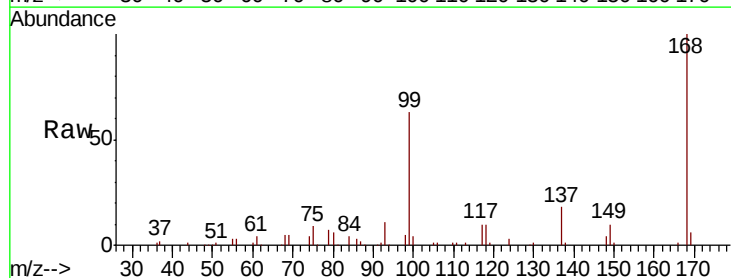


Time-->

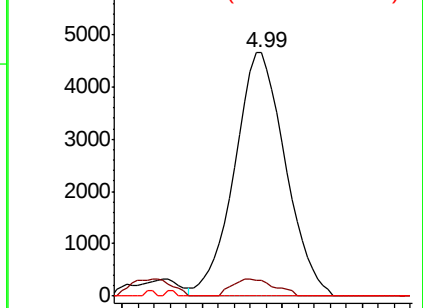


#38
 Carbon Tetrachloride
 Concen: 4.810 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027100.D
 Acq: 24 Sep 2018 11:53

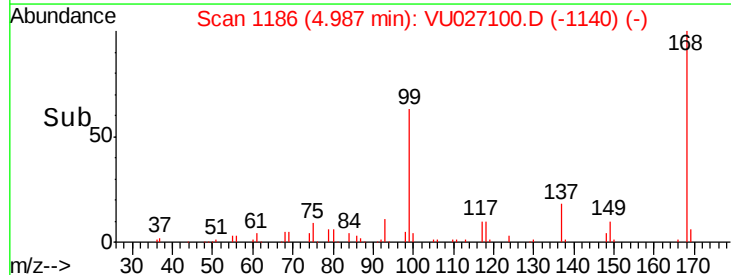
Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	74.4	111.6#
121	0.0	24.2	36.4#

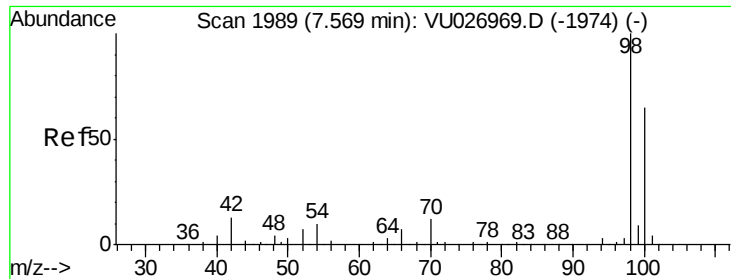


Abundance Ion 116.80 (116.50 to 117.50): VU026969.D (-1213) (-)
 Ion 118.80 (118.50 to 119.50): VU026969.D (-1213) (-)
 Ion 120.80 (120.50 to 121.50): VU026969.D (-1213) (-)



Time-->





#50

Toluene-d8

Concen: 48.631 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

Instrument :

MSVOA_U

ClientSampleId :

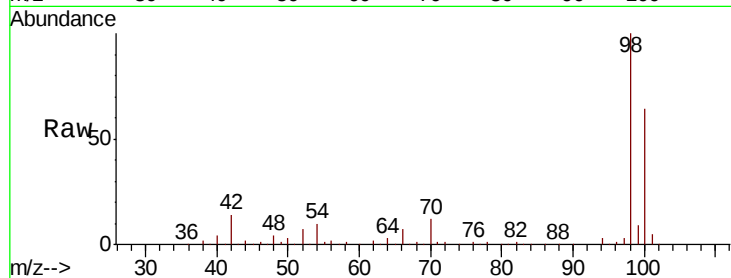
SA-PZ172I-20180916

Tgt Ion: 98 Resp: 266215

Ion Ratio Lower Upper

98 100

100 63.1 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU026969.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VU026969.D (-1974) (-)

7.57

150000

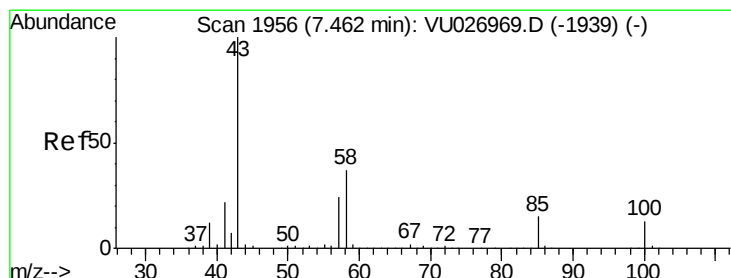
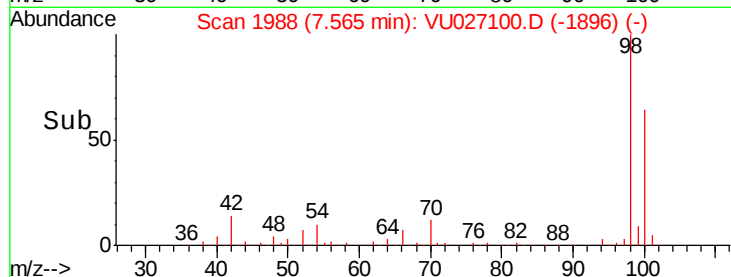
100000

50000

0

7.50 7.55 7.60 7.65 7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.435 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VU027100.D

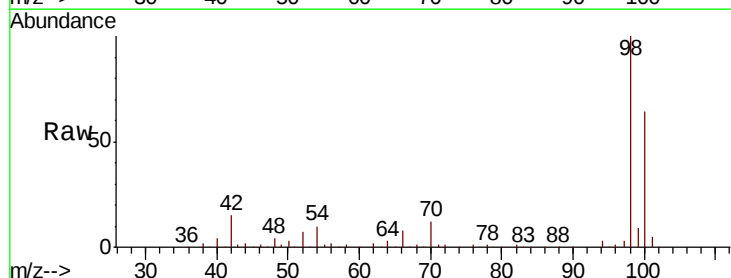
Acq: 24 Sep 2018 11:53

Tgt Ion: 43 Resp: 1276

Ion Ratio Lower Upper

43 100

58 185.5 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU026969.D (-1939) (-)

7.56

1500

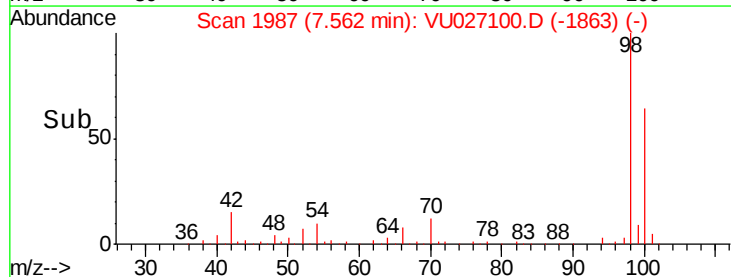
1000

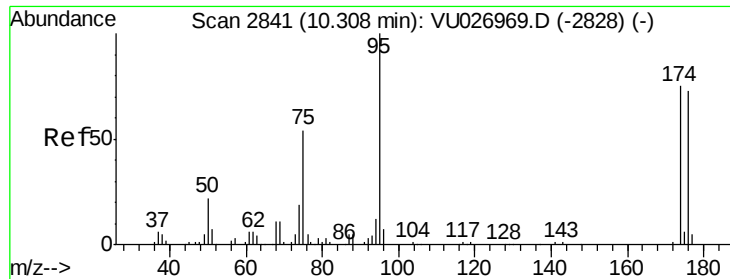
500

0

7.55 7.56 7.57 7.58 7.59 7.60

Time-->





#62

4-Bromofluorobenzene

Concen: 45.664 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ172I-20180916

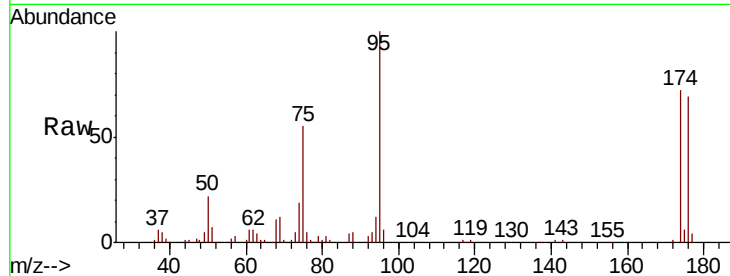
Tgt Ion: 95 Resp: 85773

Ion Ratio Lower Upper

95 100

174 72.9 0.0 150.2

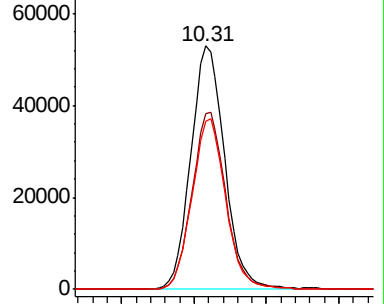
176 69.8 0.0 145.2



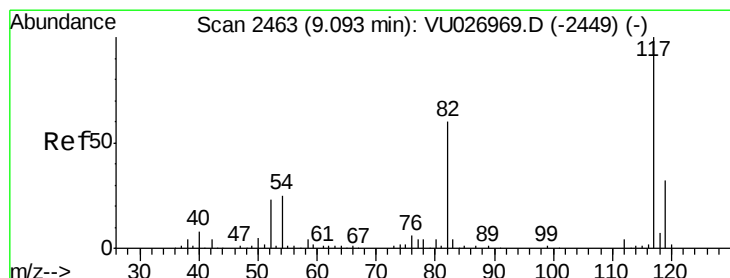
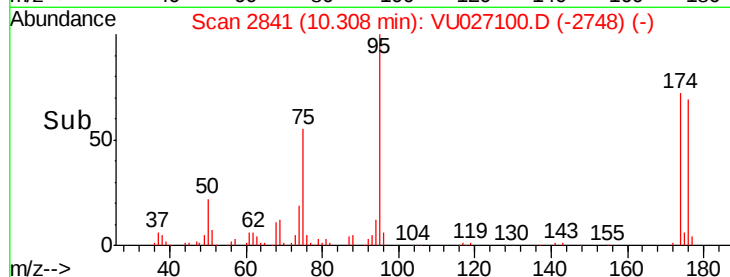
Abundance Ion 94.90 (94.60 to 95.60): VU026969.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU026969.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU026969.D (-2828) (-)



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

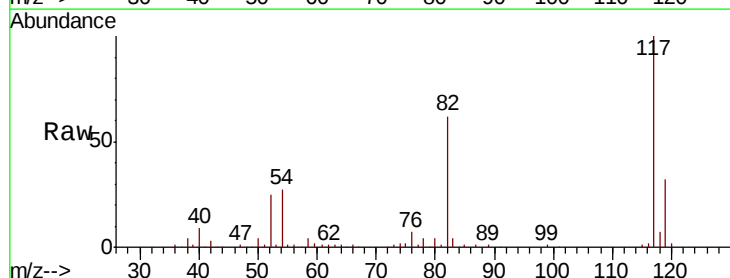
Tgt Ion: 117 Resp: 157997

Ion Ratio Lower Upper

117 100

82 62.4 48.0 72.0

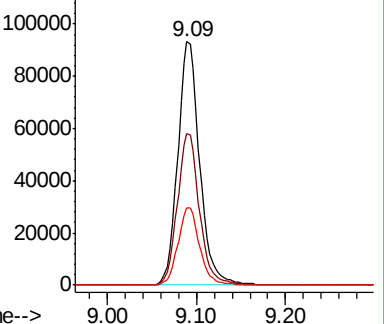
119 31.7 25.8 38.8



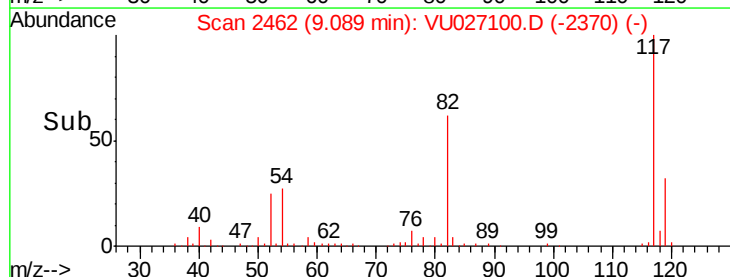
Abundance Ion 116.90 (116.60 to 117.60): VU026969.D (-2449) (-)

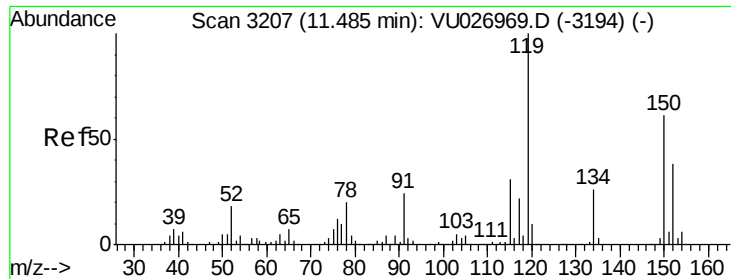
Ion 82.00 (81.70 to 82.70): VU026969.D (-2449) (-)

Ion 118.90 (118.60 to 119.60): VU026969.D (-2449) (-)



Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ172I-20180916

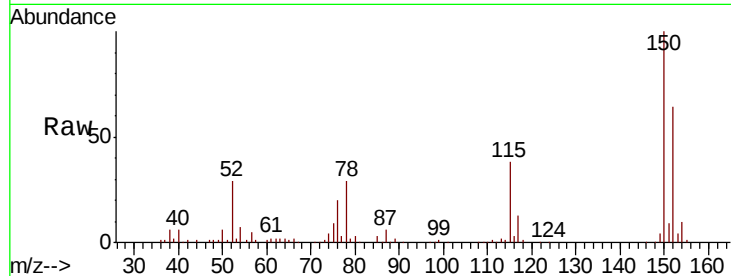
Tgt Ion:152 Resp: 73966

Ion Ratio Lower Upper

152 100

115 60.7 44.9 134.5

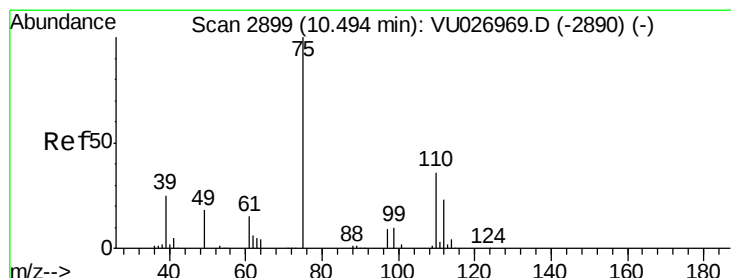
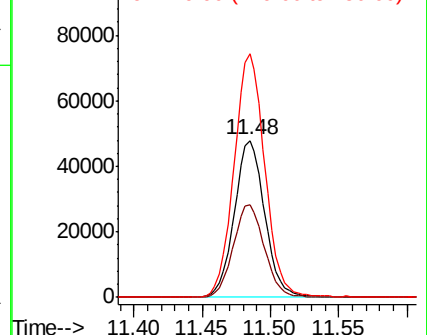
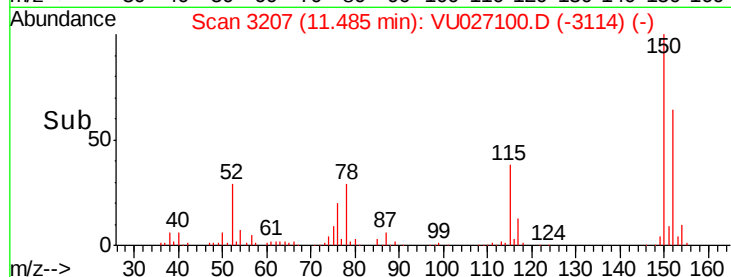
150 157.3 0.0 355.8



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: 20.688 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027100.D

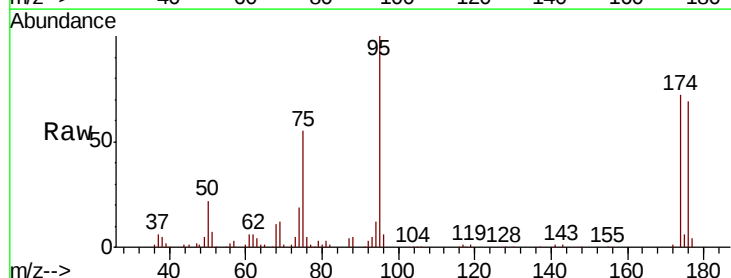
Acq: 24 Sep 2018 11:53

Tgt Ion: 75 Resp: 46488

Ion Ratio Lower Upper

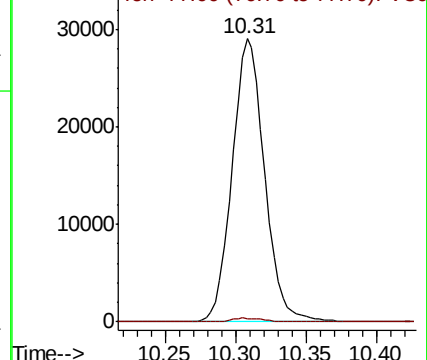
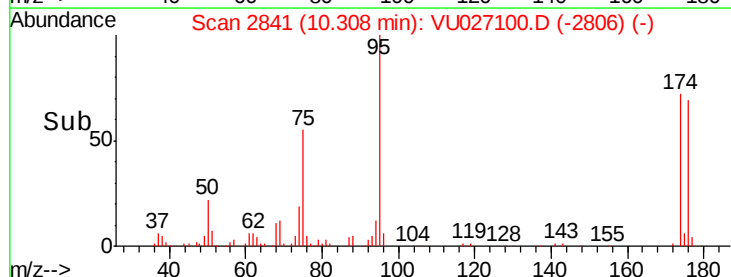
75 100

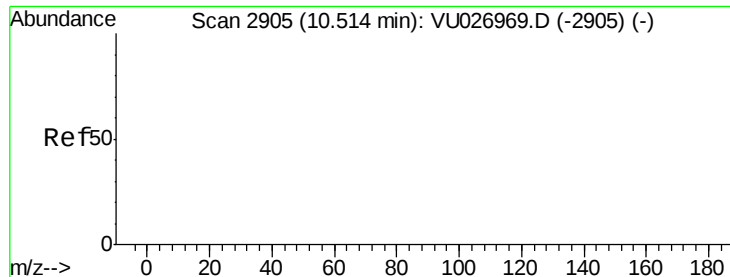
77 1.3 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 66.206 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ172I-20180916

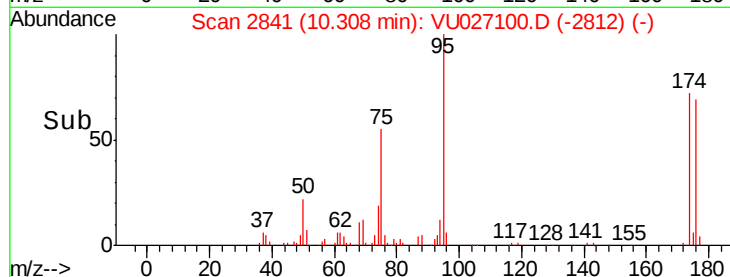
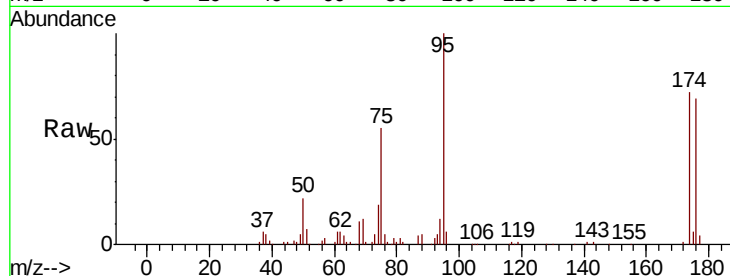
Tgt Ion: 75 Resp: 46488

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

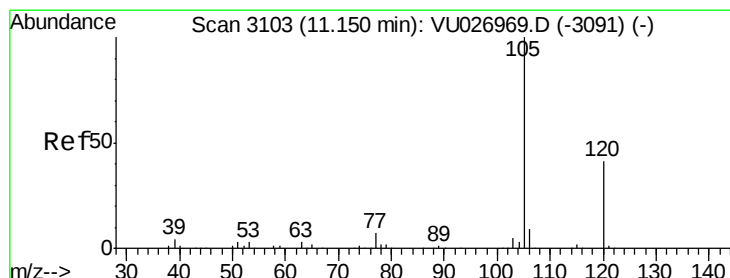
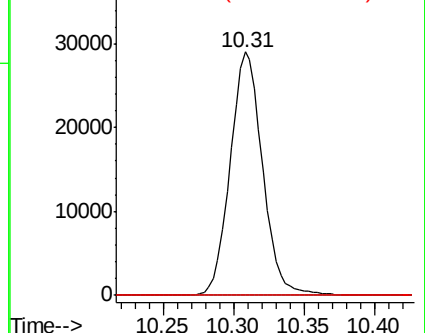
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU027100.D (-2812) (-)

Ion 53.00 (52.70 to 53.70): VU027100.D (-2812) (-)

Ion 88.90 (88.60 to 89.60): VU027100.D (-2812) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.456 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. 0.17 min

Lab File: VU027100.D

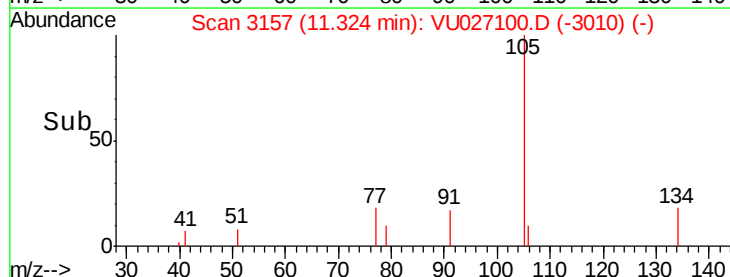
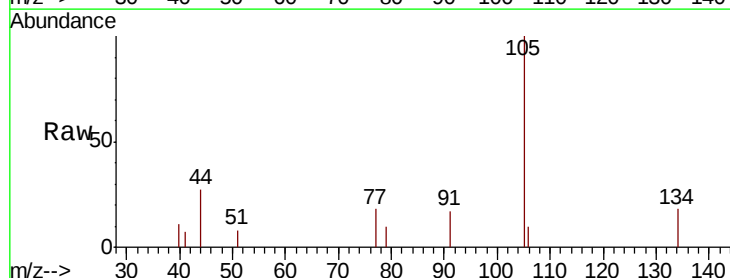
Acq: 24 Sep 2018 11:53

Tgt Ion: 105 Resp: 2154

Ion Ratio Lower Upper

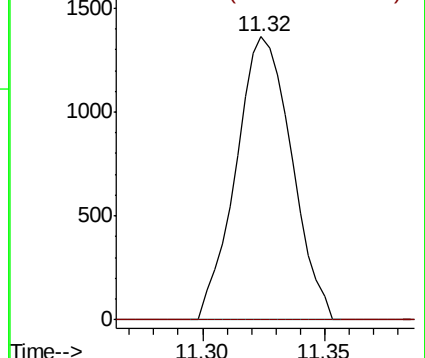
105 100

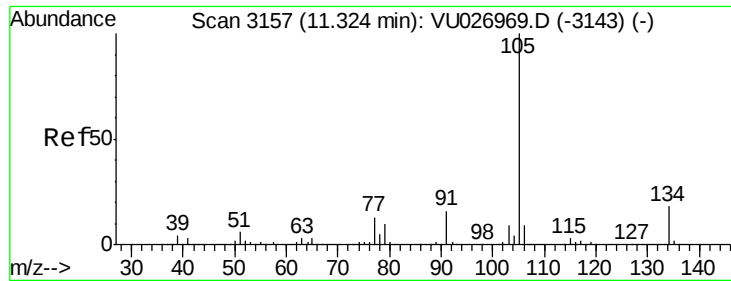
120 0.0 22.4 67.2#



Abundance Ion 105.00 (104.70 to 105.70): VU027100.D (-3010) (-)

Ion 120.00 (119.70 to 120.70): VU027100.D (-3010) (-)

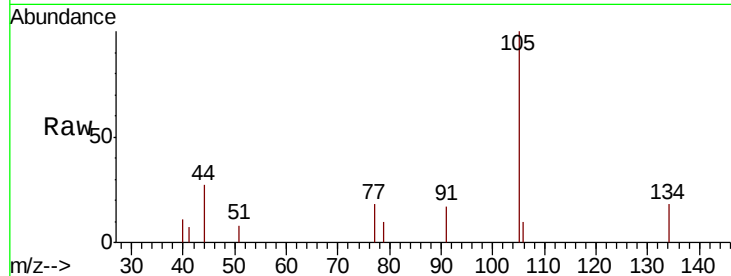




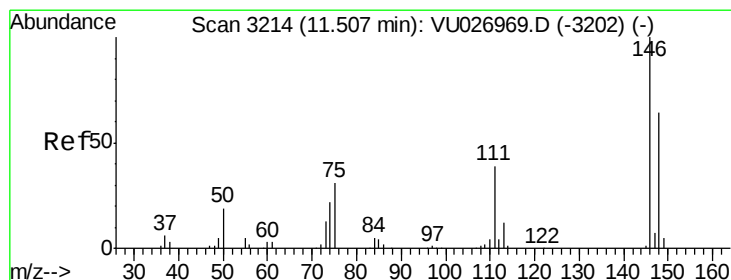
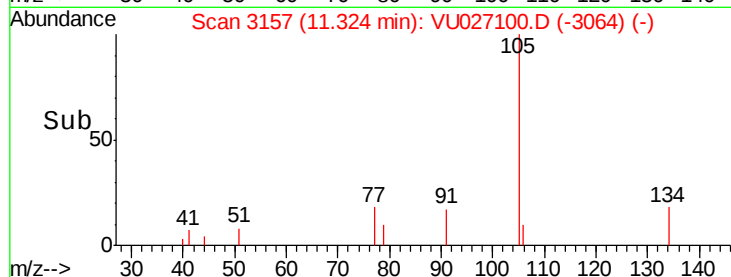
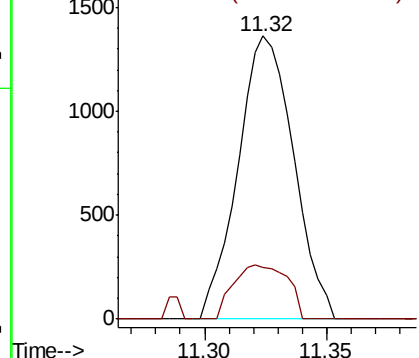
#85
 sec-Butylbenzene
 Concen: 0.384 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: VU027100.D
 Acq: 24 Sep 2018 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ172I-20180916

Tgt Ion:105 Resp: 2154
 Ion Ratio Lower Upper
 105 100
 134 18.6 9.4 28.2

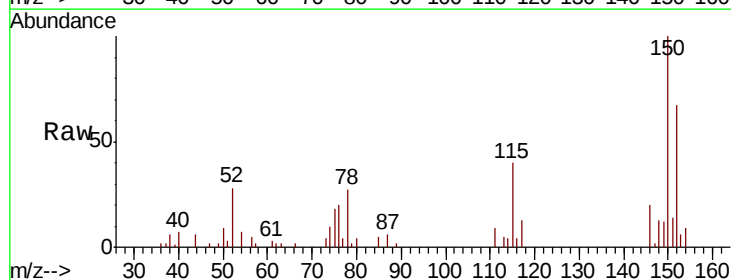


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 134.00 (133.70 to 134.70): V

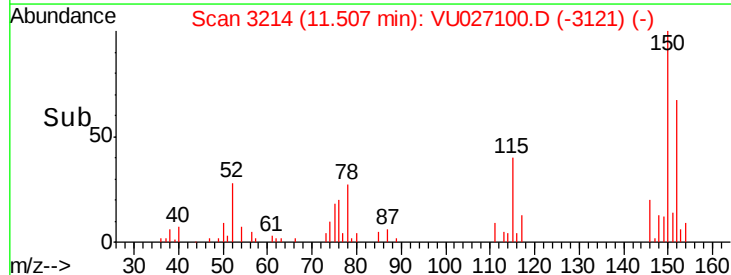
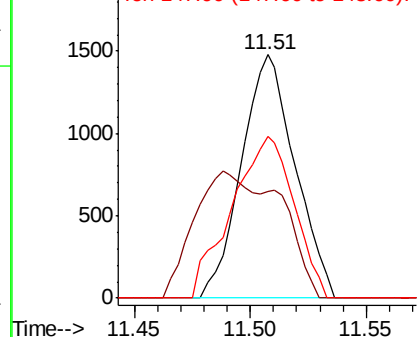


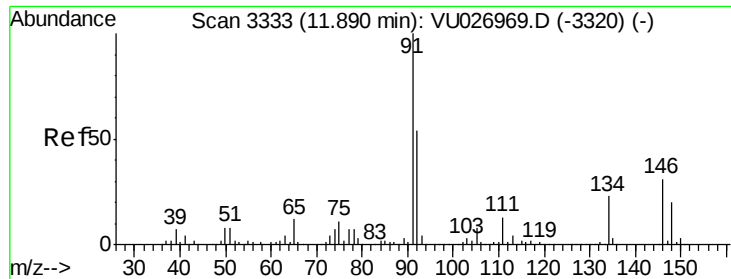
#88
 1,4-Dichlorobenzene
 Concen: 0.851 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027100.D
 Acq: 24 Sep 2018 11:53

Tgt Ion:146 Resp: 2372
 Ion Ratio Lower Upper
 146 100
 111 58.9 20.3 60.9
 148 76.9 31.9 95.9



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





#89

n-Butylbenzene

Concen: 2.405 ug/l

RT: 11.89 min Scan# 3333

Delta R.T. 0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

Instrument :

MSVOA_U

ClientSampleId :

SA-PZ172I-20180916

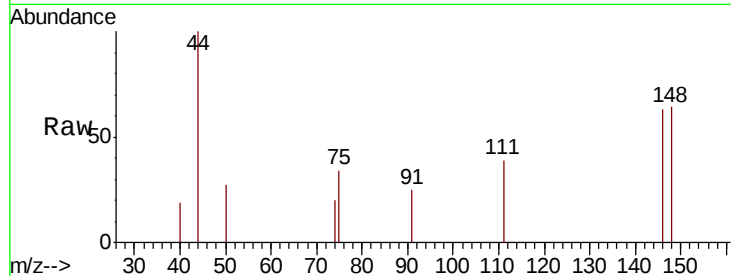
Tgt Ion: 91 Resp: 70

Ion Ratio Lower Upper

91 100

92 0.0 27.1 81.2#

134 0.0 11.7 35.0#

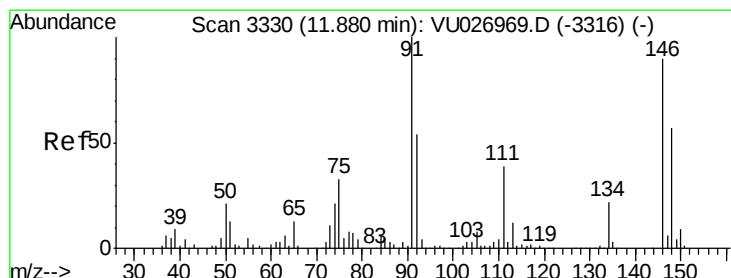
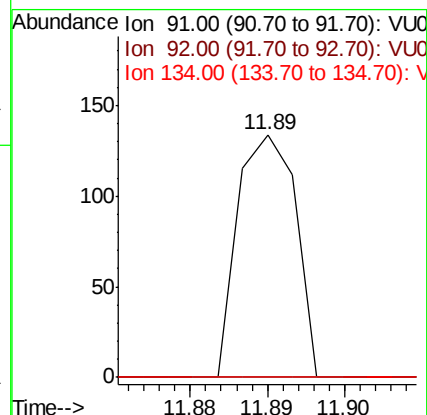
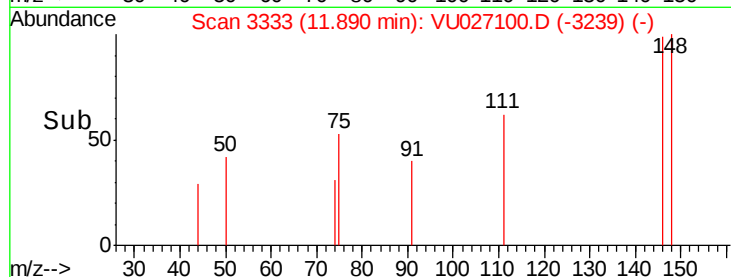


Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-3320) (-)

Ion 92.00 (91.70 to 92.70): VU026969.D (-3320) (-)

Ion 134.00 (133.70 to 134.70): VU026969.D (-3320) (-)

Time-->



#91

1,2-Dichlorobenzene

Concen: 0.315 ug/l

RT: 11.88 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VU027100.D

Acq: 24 Sep 2018 11:53

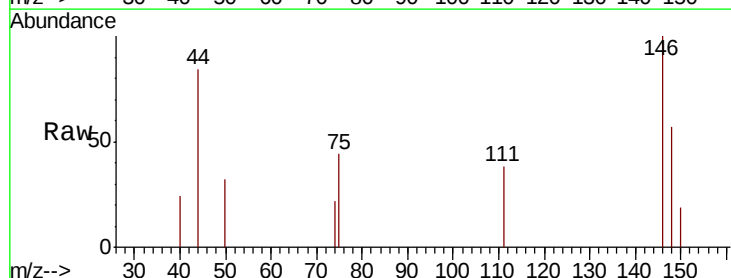
Tgt Ion: 146 Resp: 857

Ion Ratio Lower Upper

146 100

111 36.2 21.8 65.3

148 62.0 31.9 95.7

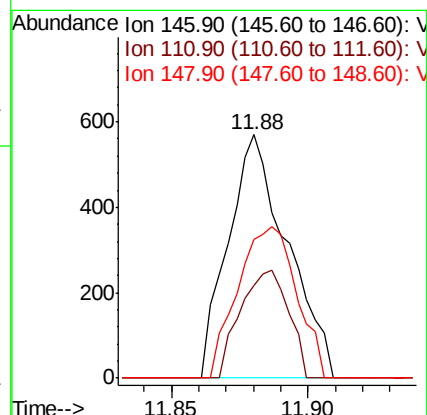
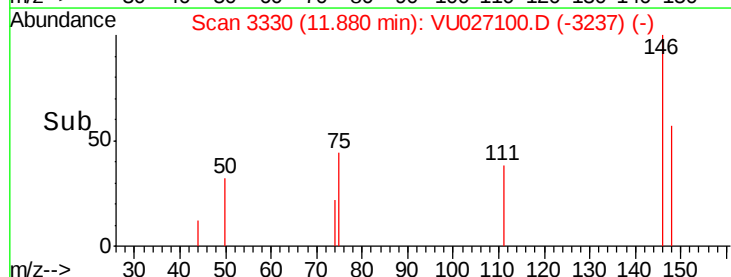


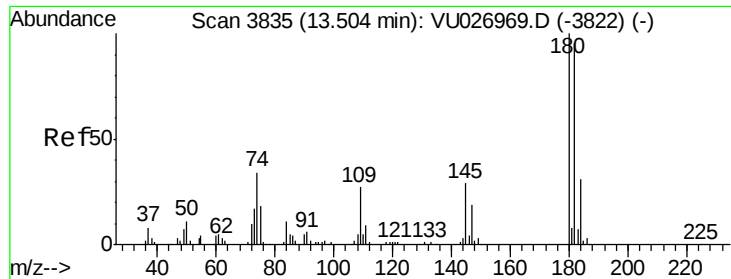
Abundance Ion 145.90 (145.60 to 146.60): VU026969.D (-3316) (-)

Ion 110.90 (110.60 to 111.60): VU026969.D (-3316) (-)

Ion 147.90 (147.60 to 148.60): VU026969.D (-3316) (-)

Time-->

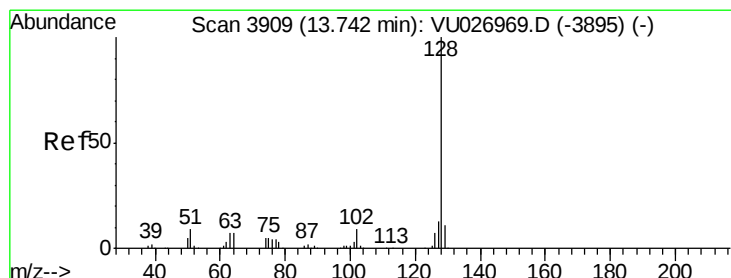
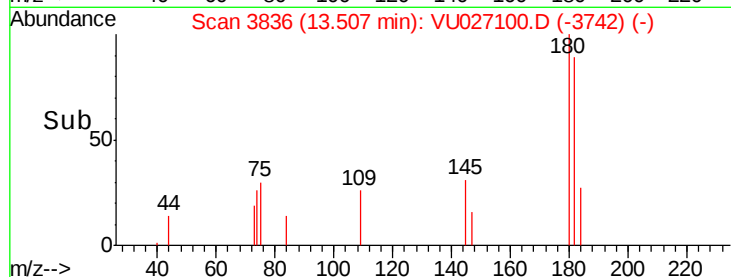
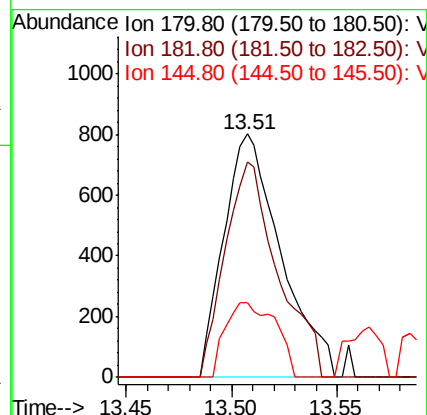
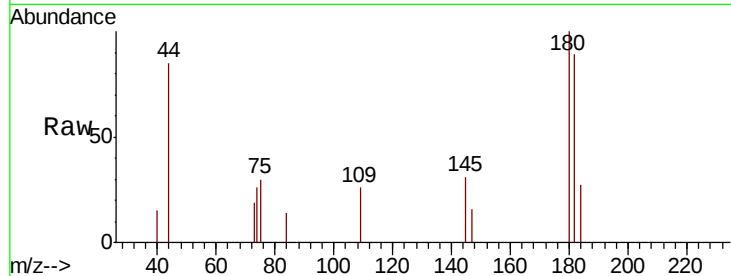




#93
 1,2,4-Trichlorobenzene
 Concen: 0.963 ug/l
 RT: 13.51 min Scan# 3836
 Delta R.T. 0.00 min
 Lab File: VU027100.D
 Acq: 24 Sep 2018 11:53

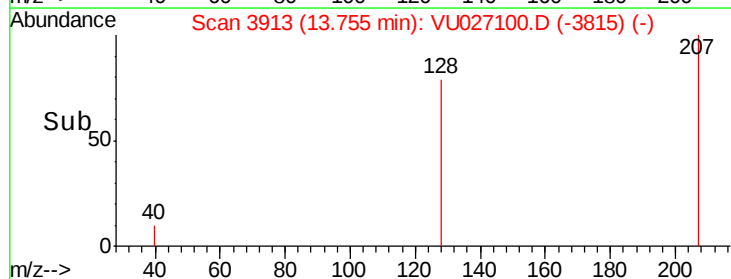
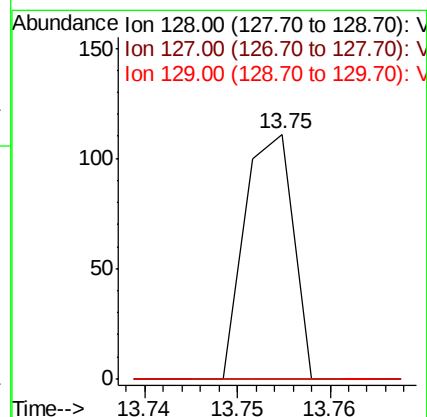
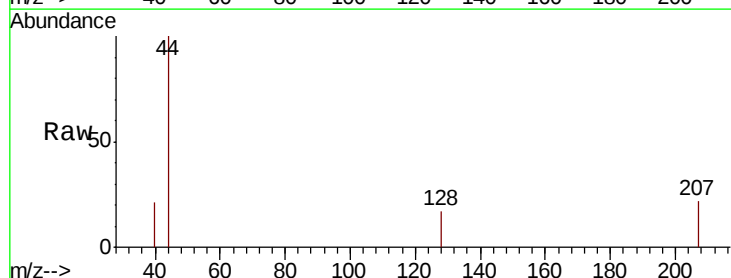
Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ172I-20180916

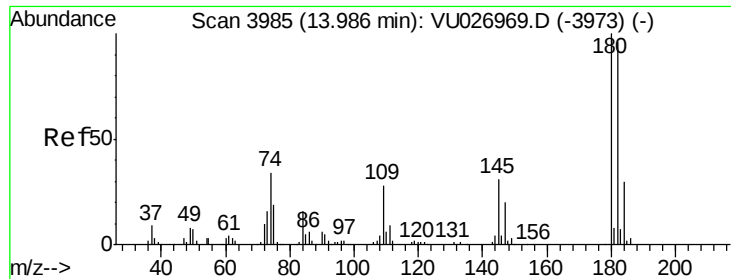
Tgt Ion:180 Resp: 1508
 Ion Ratio Lower Upper
 180 100
 182 81.4 47.4 142.2
 145 26.7 14.9 44.5



#95
 Naphthalene
 Concen: 1.696 ug/l
 RT: 13.75 min Scan# 3913
 Delta R.T. 0.01 min
 Lab File: VU027100.D
 Acq: 24 Sep 2018 11:53

Tgt Ion:128 Resp: 41
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 15.8#
 129 0.0 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.266 ug/l
 RT: 13.99 min Scan# 3986
 Delta R.T. 0.00 min
 Lab File: VU027100.D
 Acq: 24 Sep 2018 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 SA-PZ172I-20180916

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.1	47.5	142.5
145	0.0	15.4	46.4

