

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U070218\
 Data File : VU025145.D
 Acq On : 02 Jul 2018 16:00
 Operator : MD/SY
 Sample : J3759-13DL2 1000X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW357-180625DL2

Quant Time: Jul 03 02:59:57 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

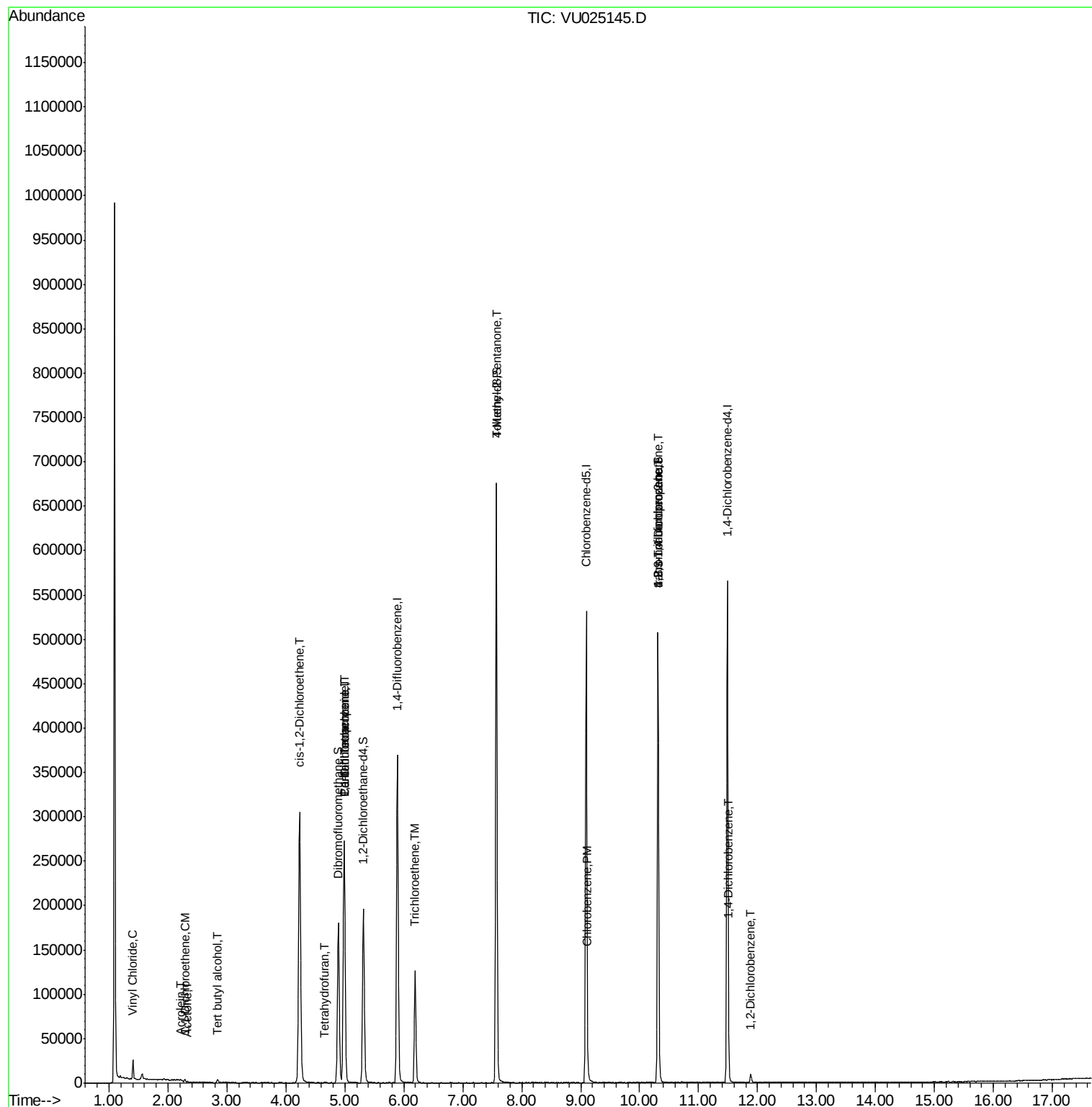
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	211564	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	312382	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	291638	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	149289	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	159922	46.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.60%	
35) Dibromofluoromethane	4.89	113	121460	46.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.70%	
50) Toluene-d8	7.57	98	449314	47.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.02%	
62) 4-Bromofluorobenzene	10.31	95	165555	44.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.18%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.40	62	13183	4.725	ug/l	98
6) Chloroethane	1.71	64	433	Below Cal	#	43
11) Tert butyl alcohol	2.84	59	1690	2.012	ug/l #	72
12) 1,1-Dichloroethene	2.28	96	1061	0.440	ug/l	87
13) Acrolein	2.20	56	118	0.268	ug/l	87
16) Acetone	2.32	43	655	0.353	ug/l #	44
27) cis-1,2-Dichloroethene	4.23	96	172401	56.519	ug/l	90
29) Tetrahydrofuran	4.66	42	382	0.247	ug/l #	34
31) Cyclohexane	4.99	56	4264	Below Cal	#	21
36) 1,1-Dichloropropene	4.99	75	15788	4.301	ug/l #	51
38) Carbon Tetrachloride	4.99	117	19574	4.849	ug/l #	15
44) Trichloroethene	6.19	130	44362	14.903	ug/l	93
51) 4-Methyl-2-Pentanone	7.57	43	2030	0.467	ug/l #	1
65) Chlorobenzene	9.12	112	2045	0.274	ug/l	89
76) 1,2,3-Trichloropropane	10.31	75	87138	26.511	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	87138	61.359	ug/l #	100
88) 1,4-Dichlorobenzene	11.52	146	1145	0.212	ug/l #	76
91) 1,2-Dichlorobenzene	11.89	146	4400	0.819	ug/l	95

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

Instrument :

MSVOA_U

ClientSampleId :

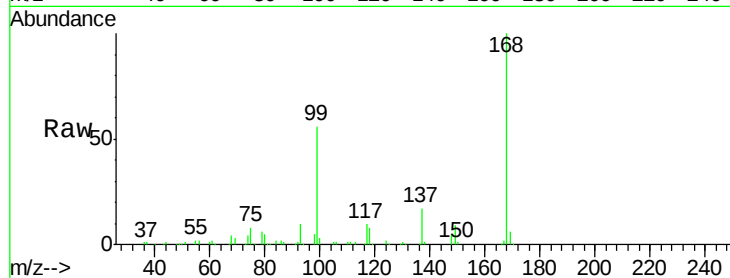
WP021MW357-180625DL2

Tot Ion:168 Resp: 211564

Ion Ratio Lower Upper

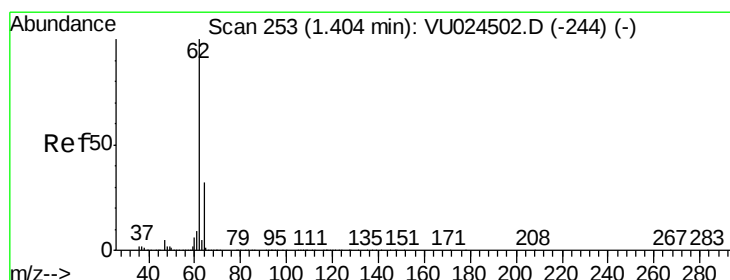
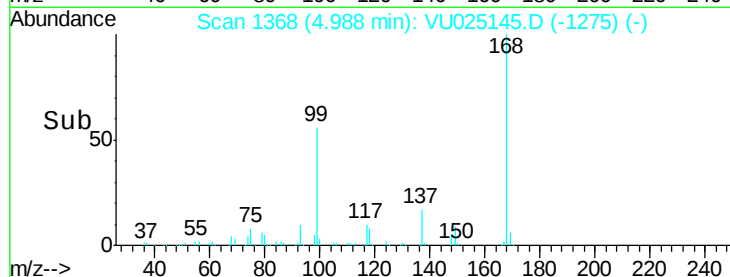
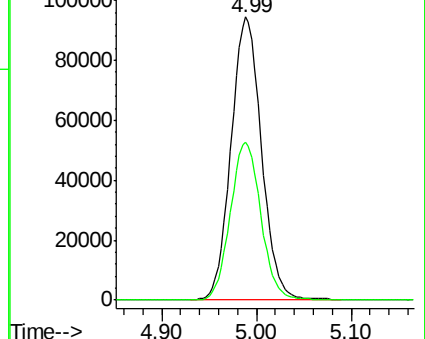
168 100

99 55.9 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

Vinyl Chloride

Concen: 4.725 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025145.D

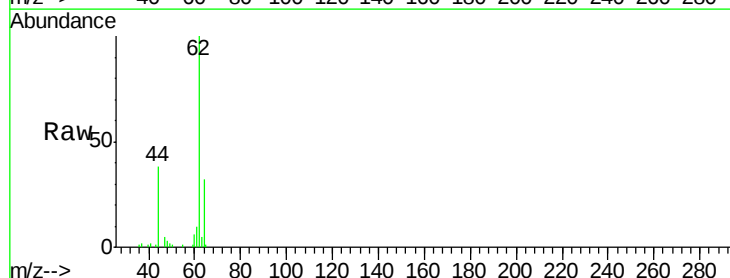
Acq: 02 Jul 2018 16:00

Tgt Ion: 62 Resp: 13183

Ion Ratio Lower Upper

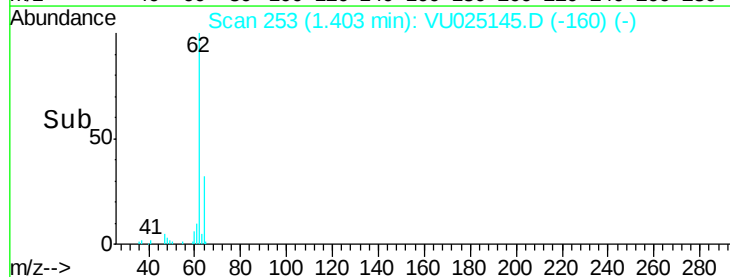
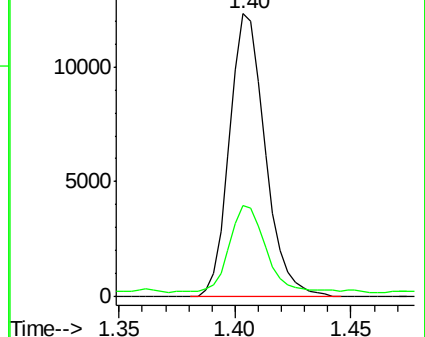
62 100

64 30.1 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU024502.D

Ion 63.90 (63.60 to 64.60): VU024502.D





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 348

Delta R.T. 0.01 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

Instrument :

MSVOA_U

ClientSampleId :

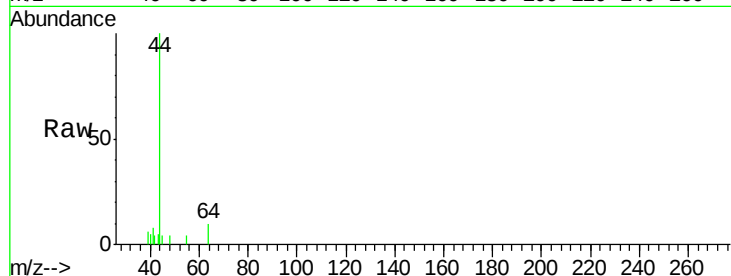
WP021MW357-180625DL2

Tot Ion: 64 Resp: 433

Ion Ratio Lower Upper

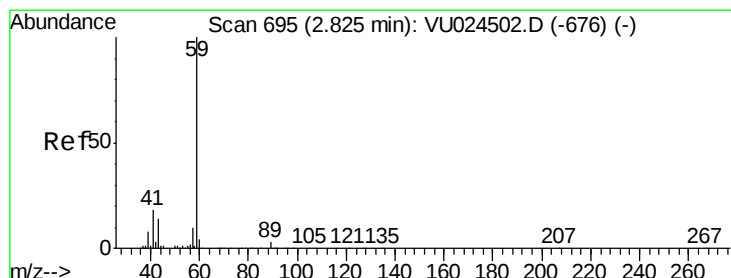
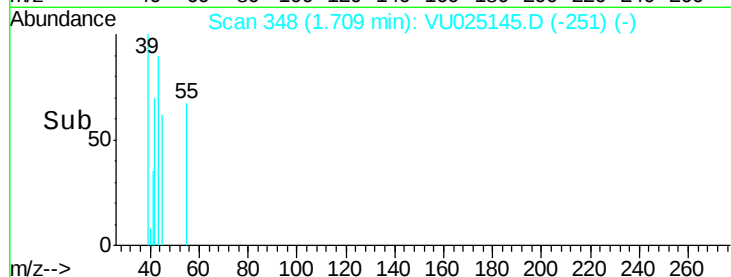
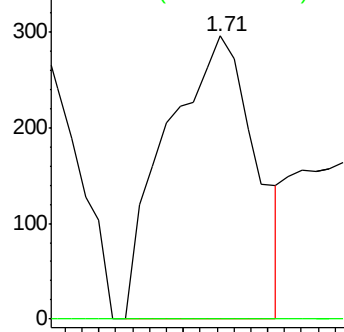
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



#11

Tert butyl alcohol

Concen: 2.012 ug/l

RT: 2.84 min Scan# 699

Delta R.T. 0.01 min

Lab File: VU025145.D

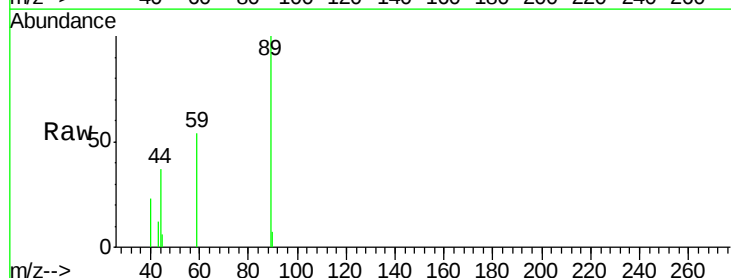
Acq: 02 Jul 2018 16:00

Tgt Ion: 59 Resp: 1690

Ion Ratio Lower Upper

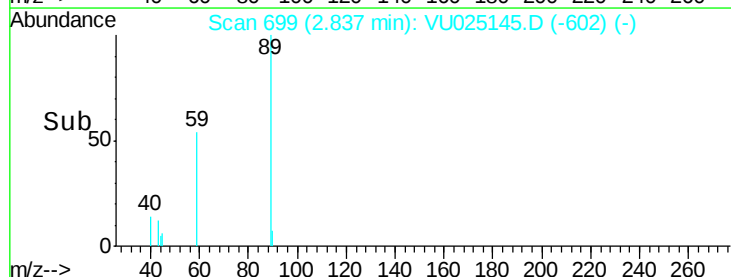
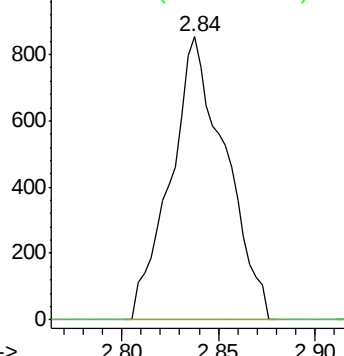
59 100

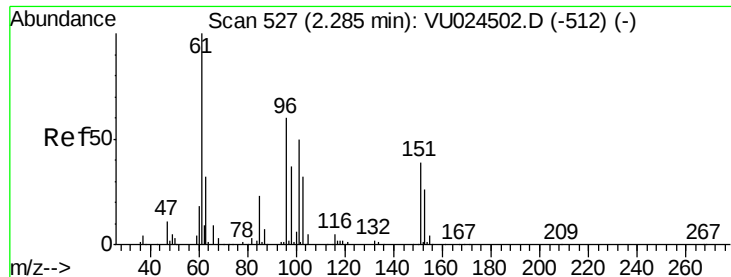
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#12

1,1-Dichloroethene

Concen: 0.440 ug/l

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

Instrument :

MSVOA_U

ClientSampleId :

WP021MW357-180625DL2

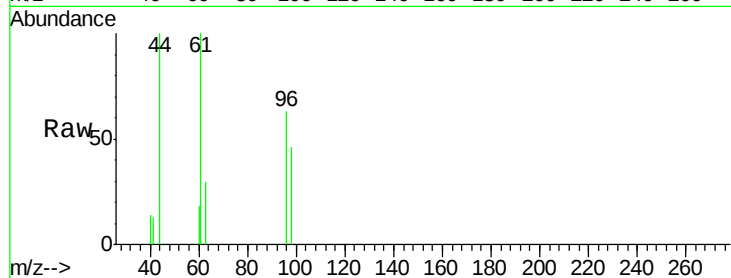
Tot Ion: 96 Resp: 1061

Ion Ratio Lower Upper

96 100

61 158.4 141.7 212.5

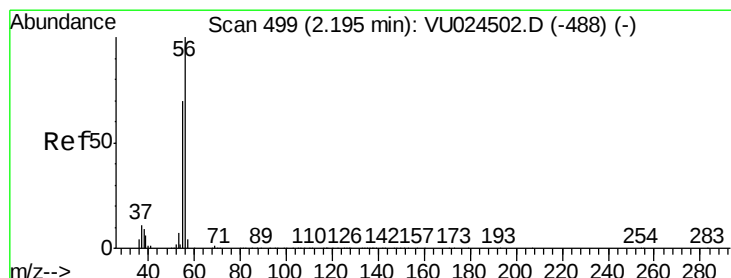
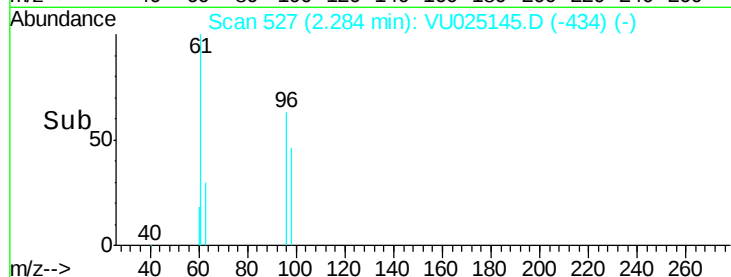
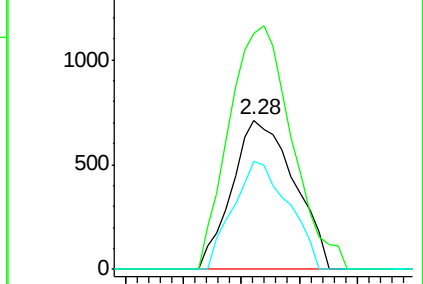
98 72.6 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#13

Acrolein

Concen: 0.268 ug/l

RT: 2.20 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU025145.D

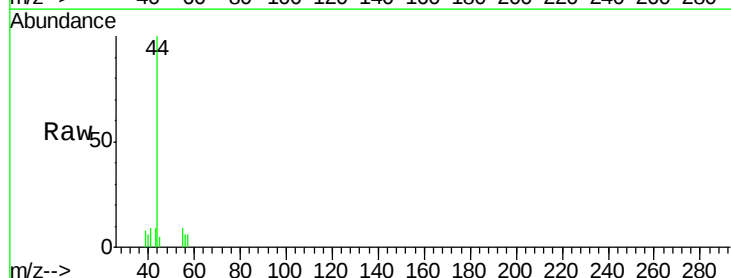
Acq: 02 Jul 2018 16:00

Tgt Ion: 56 Resp: 118

Ion Ratio Lower Upper

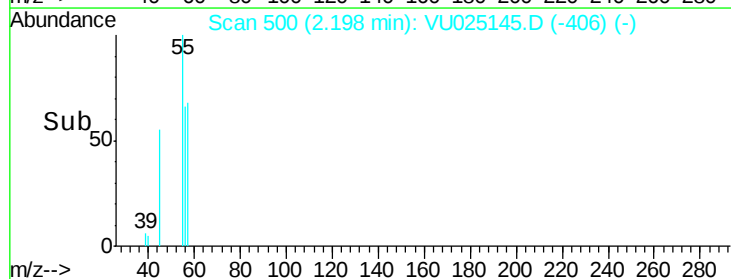
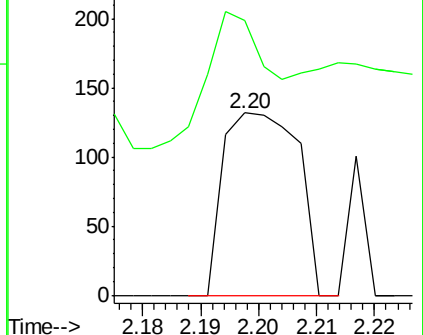
56 100

55 61.9 58.4 87.6



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0





#16

Acetone

Concen: 0.353 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

Instrument :

MSVOA_U

ClientSampleId :

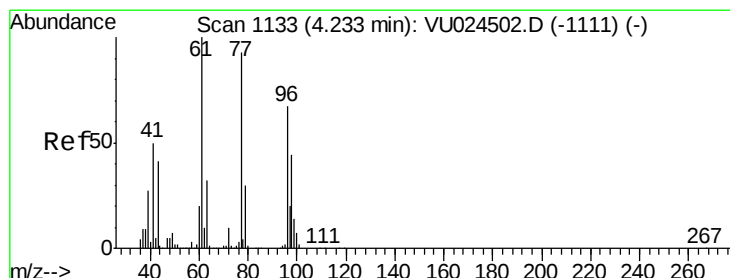
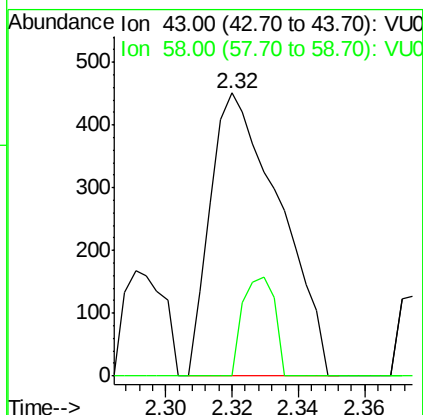
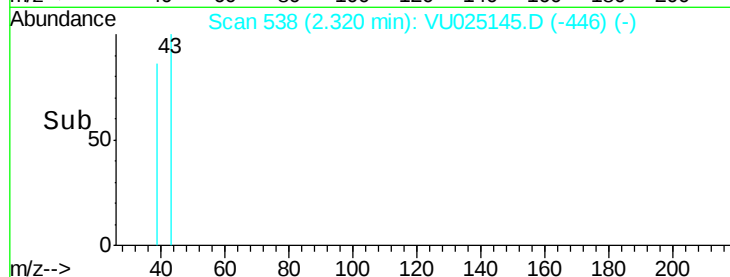
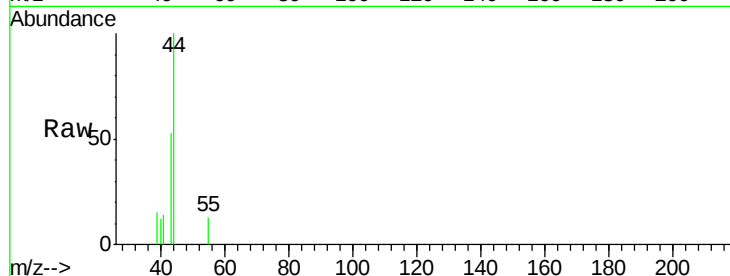
WP021MW357-180625DL2

Tot Ion: 43 Resp: 655

Ion Ratio Lower Upper

43 100

58 0.0 24.4 36.6#



#27

cis-1,2-Dichloroethene

Concen: 56.519 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. -0.00 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

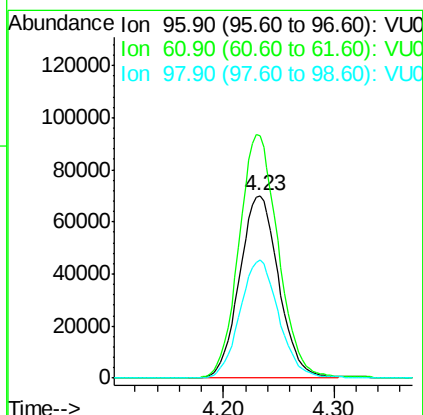
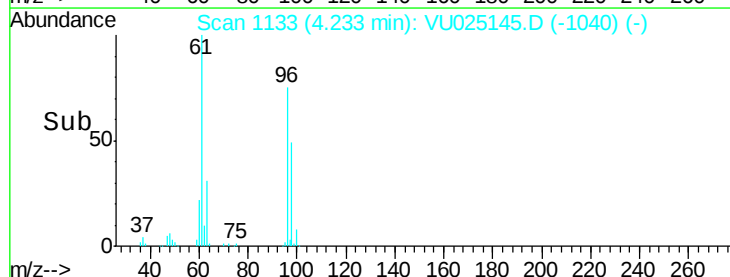
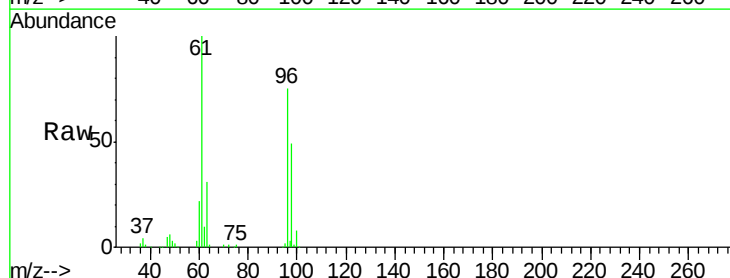
Tgt Ion: 96 Resp: 172401

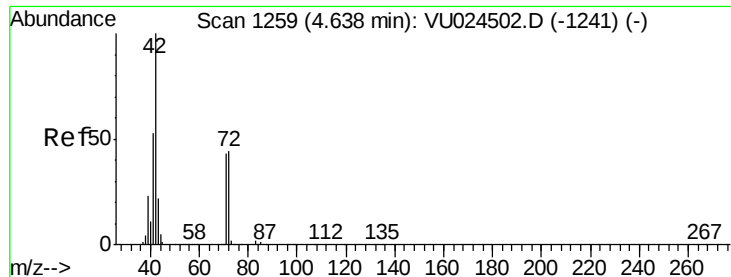
Ion Ratio Lower Upper

96 100

61 134.3 0.0 306.6

98 64.4 0.0 128.8





#29

Tetrahydrofuran

Concen: 0.247 ug/l

RT: 4.66 min Scan# 1266

Delta R.T. 0.02 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

Instrument :

MSVOA_U

ClientSampleId :

WP021MW357-180625DL2

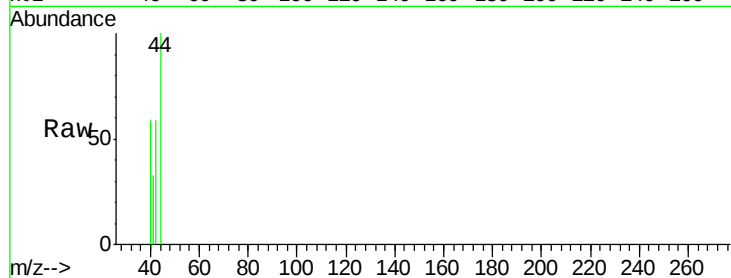
Tot Ion: 42 Resp: 382

Ion Ratio Lower Upper

42 100

72 0.0 34.5 51.7#

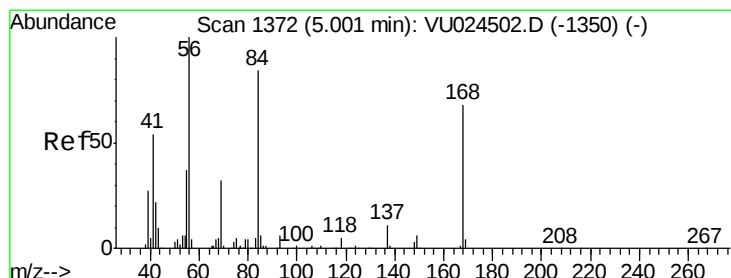
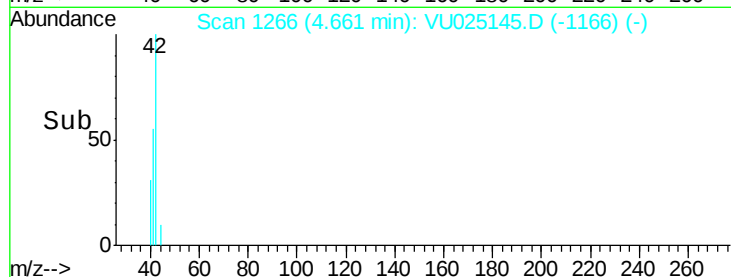
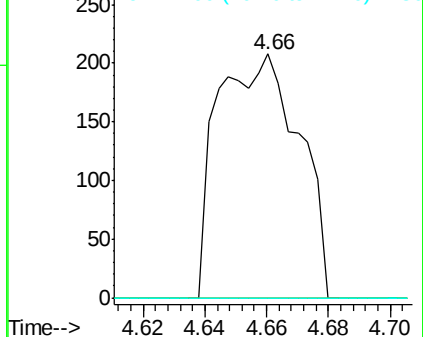
71 0.0 32.2 48.4#



Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

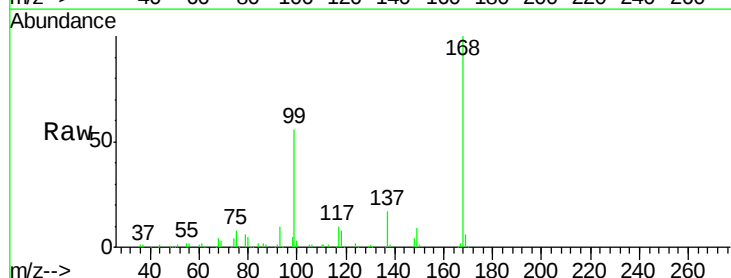
Tgt Ion: 56 Resp: 4264

Ion Ratio Lower Upper

56 100

69 150.7 24.8 37.2#

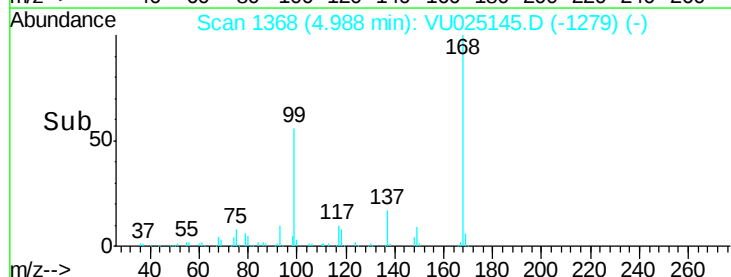
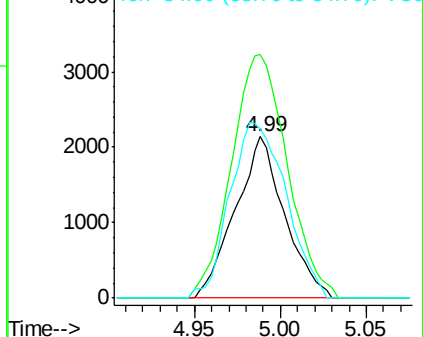
84 104.4 65.2 97.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

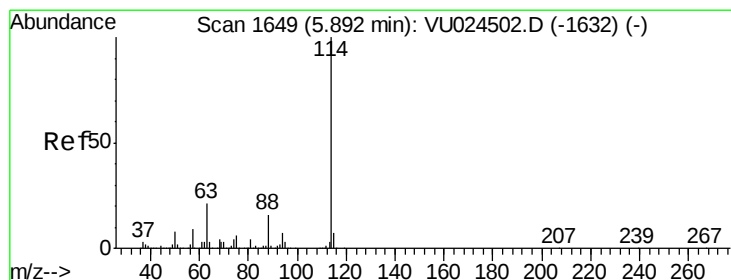
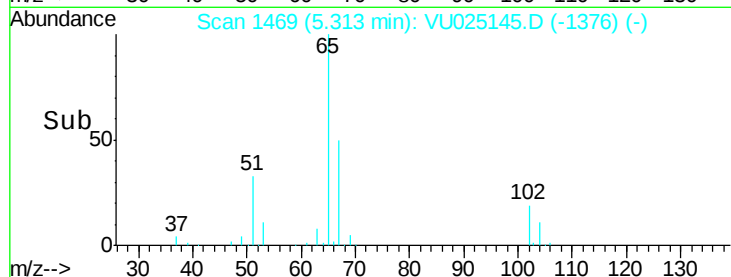
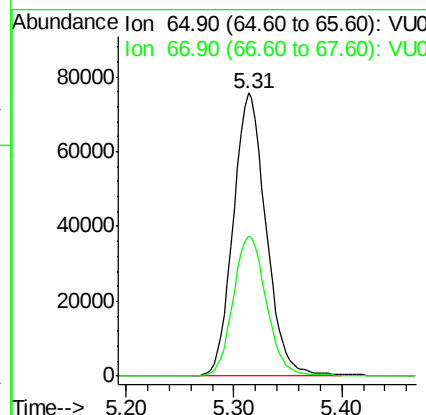
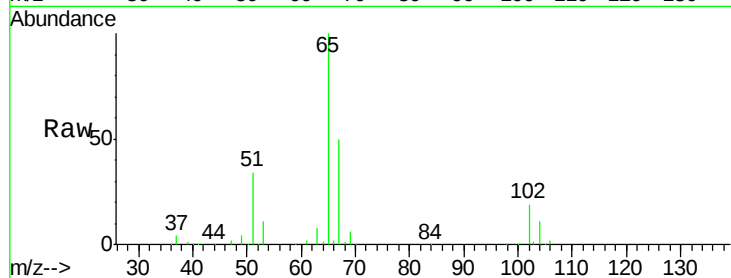




#33
 1,2-Dichloroethane-d4
 Concen: 46.303 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU025145.D
 Acq: 02 Jul 2018 16:00

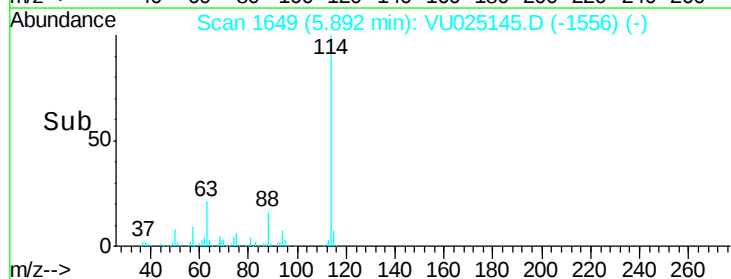
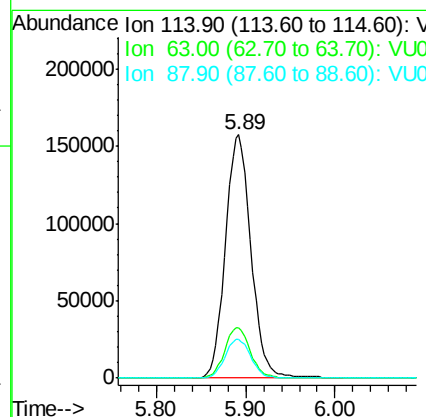
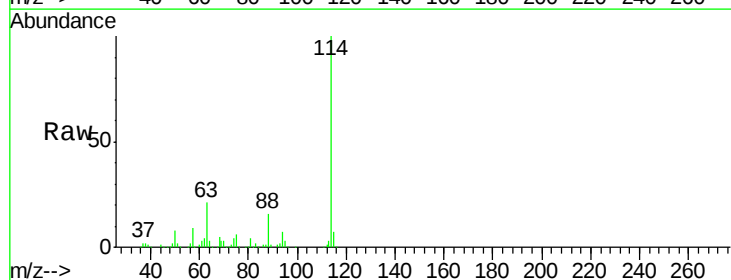
Instrument :
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Tot Ion: 65 Resp: 159922
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU025145.D
 Acq: 02 Jul 2018 16:00

Tgt Ion: 114 Resp: 312382
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 45.4
 88 15.8 0.0 31.0

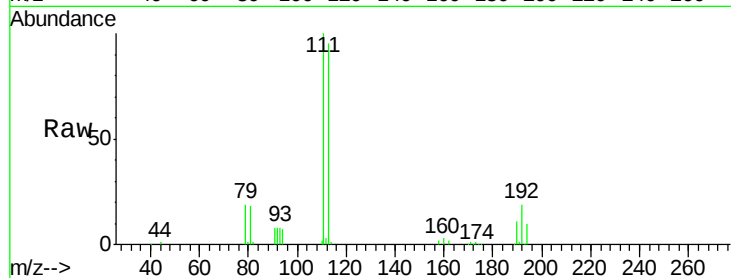




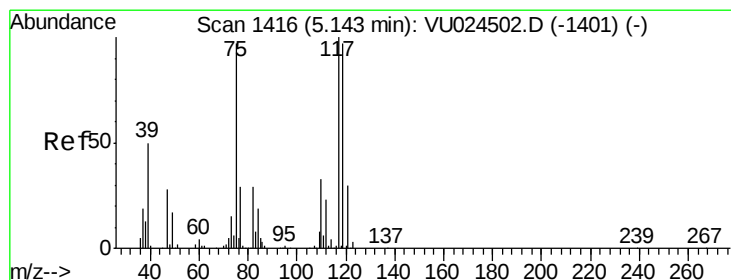
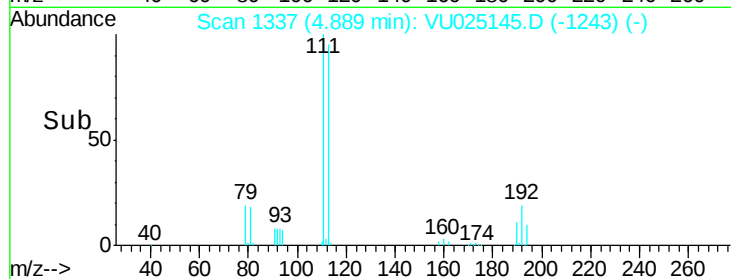
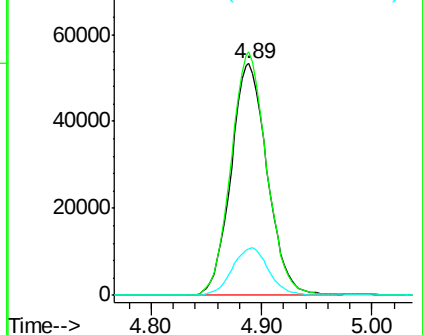
#35
 Dibromofluoromethane
 Concen: 46.850 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025145.D
 Acq: 02 Jul 2018 16:00

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW357-180625DL2

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.2	123.4
192	20.5	16.2	24.4

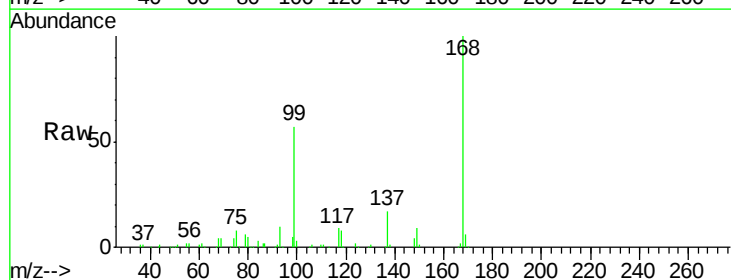


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

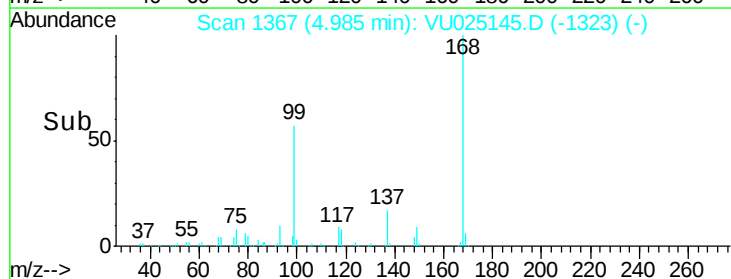
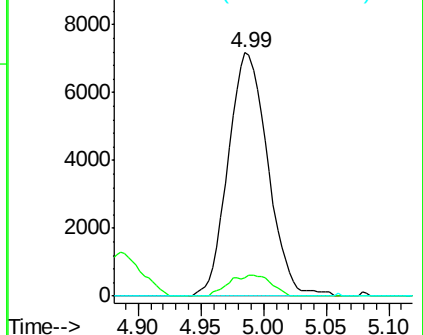


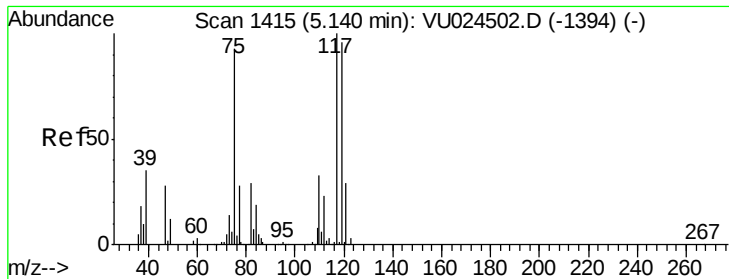
#36
 1,1-Dichloropropene
 Concen: 4.301 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025145.D
 Acq: 02 Jul 2018 16:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	17.0	50.9#
77	0.0	24.2	36.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.849 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

Instrument :

MSVOA_U

ClientSampleId :

WP021MW357-180625DL2

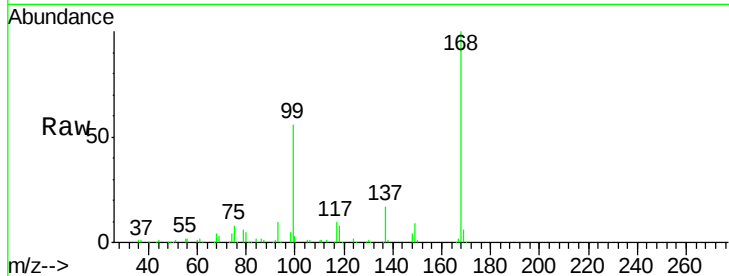
Tot Ion:117 Resp: 19574

Ion Ratio Lower Upper

117 100

119 3.3 76.1 114.1#

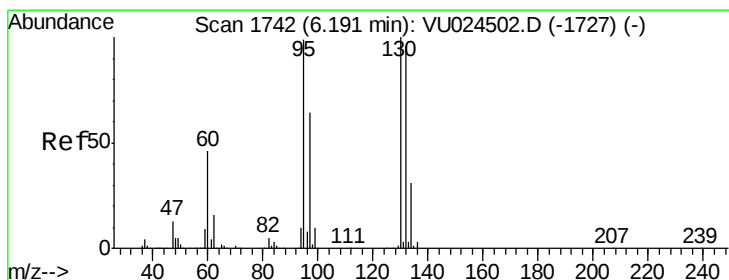
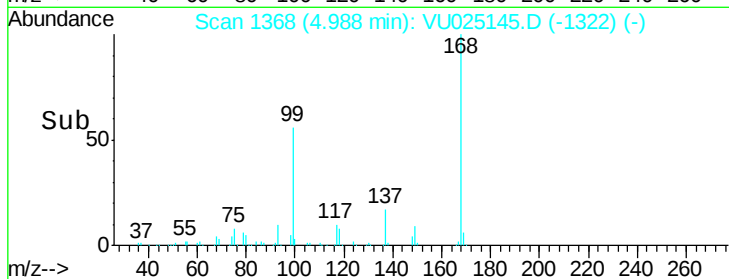
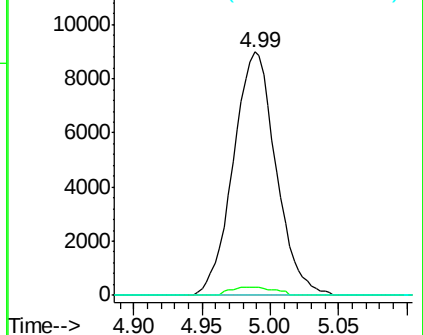
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 14.903 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VU025145.D

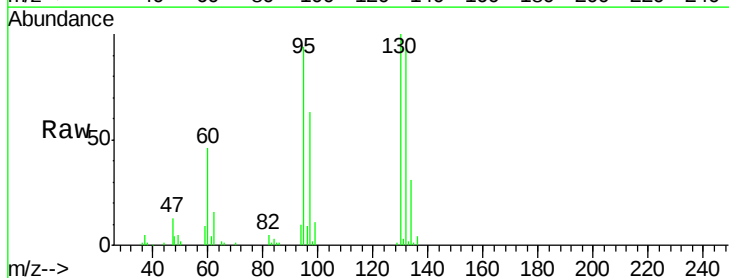
Acq: 02 Jul 2018 16:00

Tgt Ion:130 Resp: 44362

Ion Ratio Lower Upper

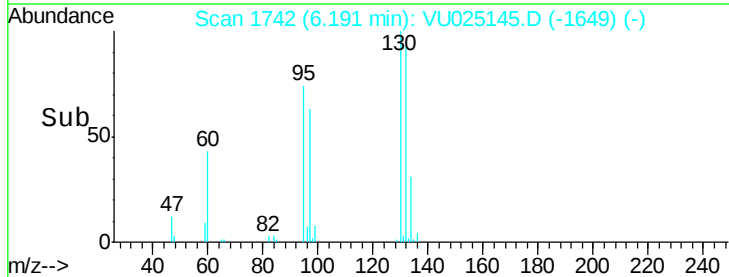
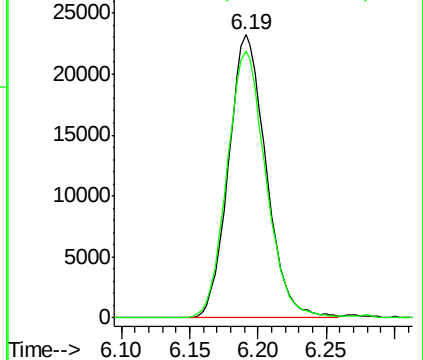
130 100

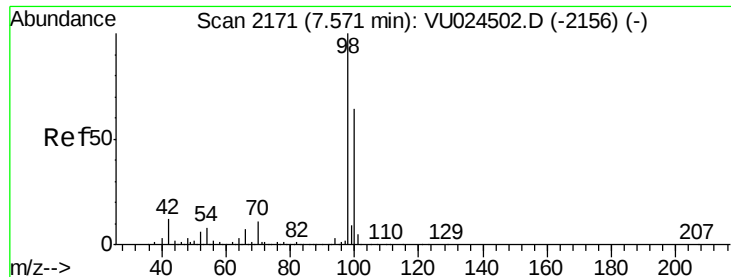
95 94.3 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0





#50

Toluene-d8

Concen: 47.514 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

Instrument :

MSVOA_U

ClientSampleId :

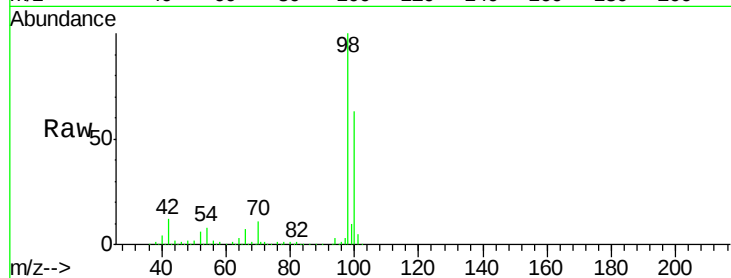
WP021MW357-180625DL2

Tot Ion: 98 Resp: 449314

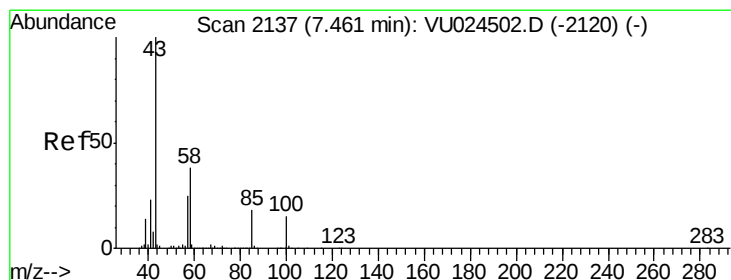
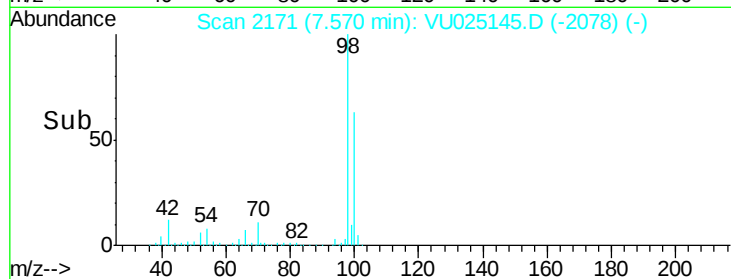
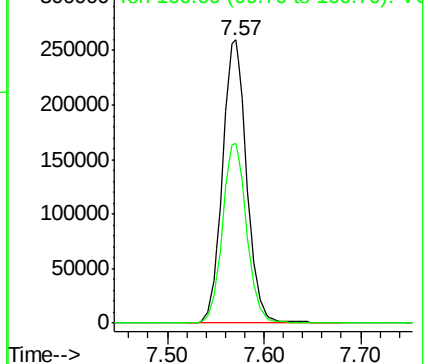
Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024502.D (-2156) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.467 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.11 min

Lab File: VU025145.D

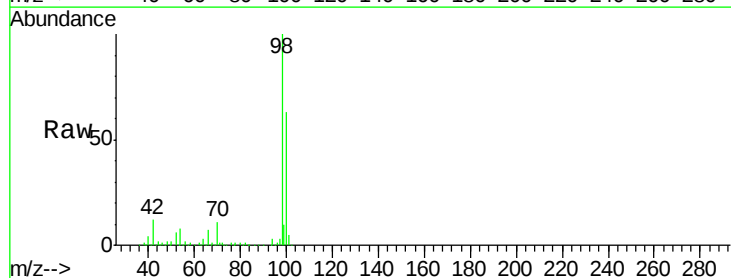
Acq: 02 Jul 2018 16:00

Tgt Ion: 43 Resp: 2030

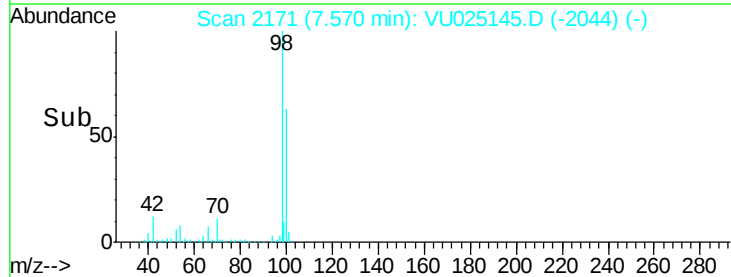
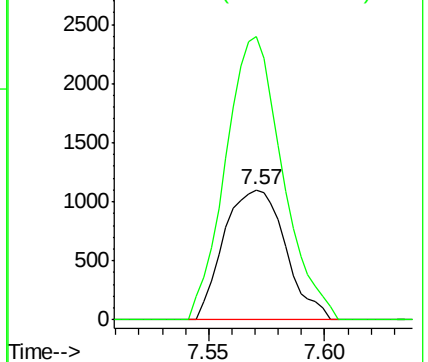
Ion Ratio Lower Upper

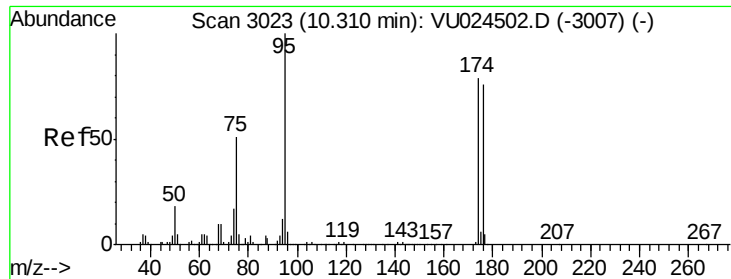
43 100

58 200.8 30.0 45.0#



Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-2120) (-)





#62

4-Bromofluorobenzene

Concen: 44.094 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

Instrument :

MSVOA_U

ClientSampleId :

WP021MW357-180625DL2

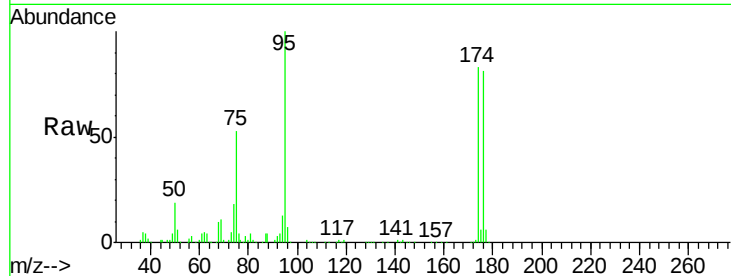
Tot Ion: 95 Resp: 165555

Ion Ratio Lower Upper

95 100

174 84.4 0.0 165.8

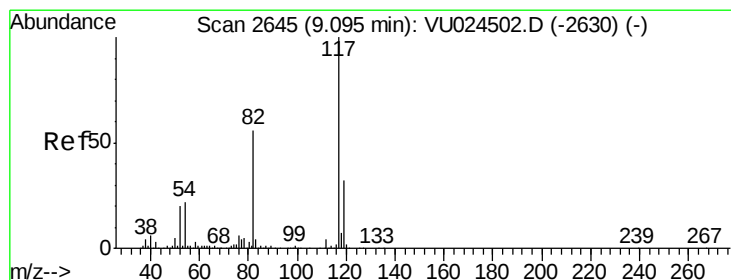
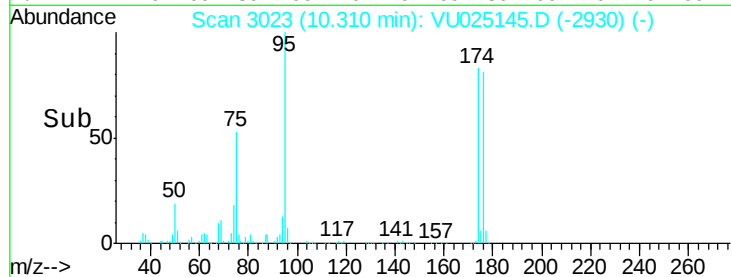
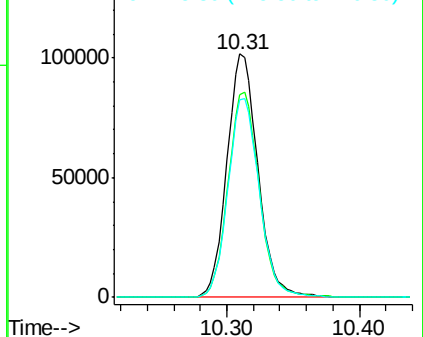
176 82.5 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU025145.D (-2930) (-)

Ion 173.80 (173.50 to 174.50): VU025145.D (-2930) (-)

Ion 175.80 (175.50 to 176.50): VU025145.D (-2930) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. -0.00 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

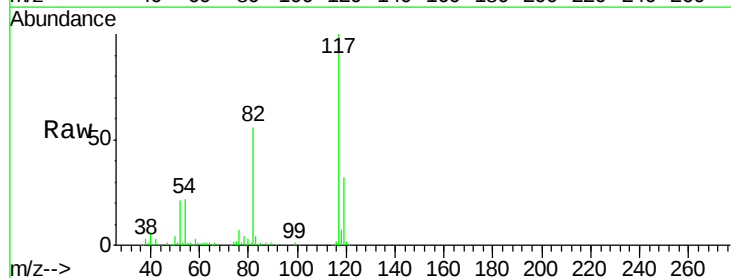
Tgt Ion: 117 Resp: 291638

Ion Ratio Lower Upper

117 100

82 55.6 44.3 66.5

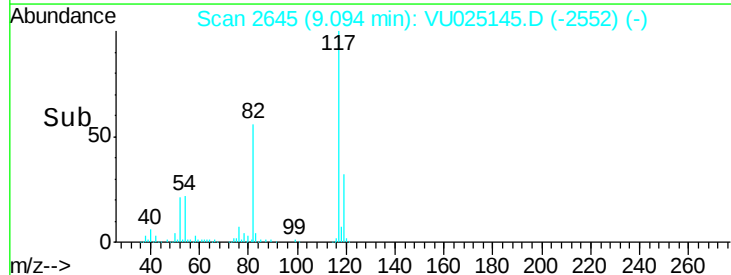
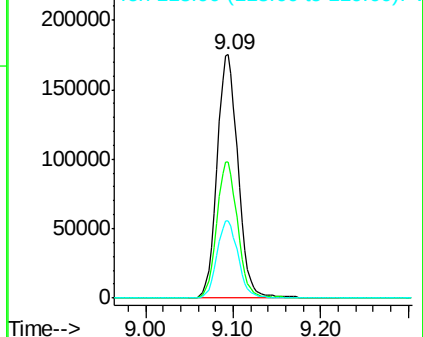
119 32.0 25.4 38.2

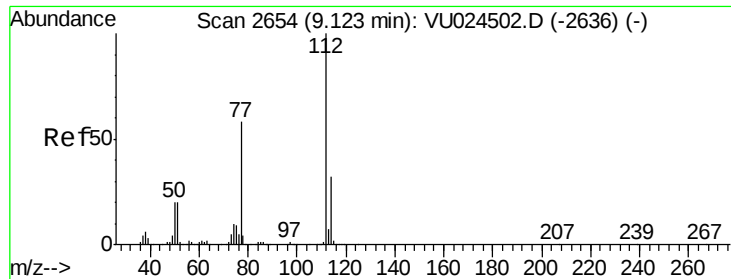


Abundance Ion 116.90 (116.60 to 117.60): VU025145.D (-2552) (-)

Ion 82.00 (81.70 to 82.70): VU025145.D (-2552) (-)

Ion 118.90 (118.60 to 119.60): VU025145.D (-2552) (-)





#65

Chlorobenzene

Concen: 0.274 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. -0.00 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

Instrument :

MSVOA_U

ClientSampleId :

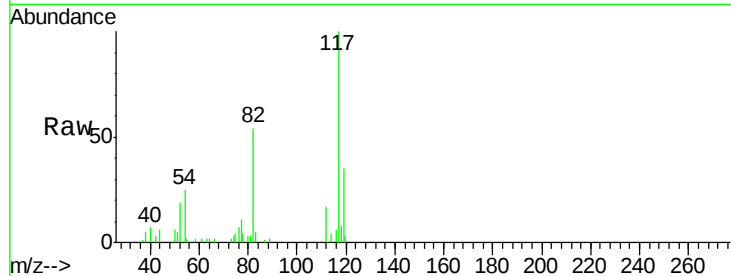
WP021MW357-180625DL2

Tot Ion:112 Resp: 2045

Ion Ratio Lower Upper

112 100

114 25.8 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

1500

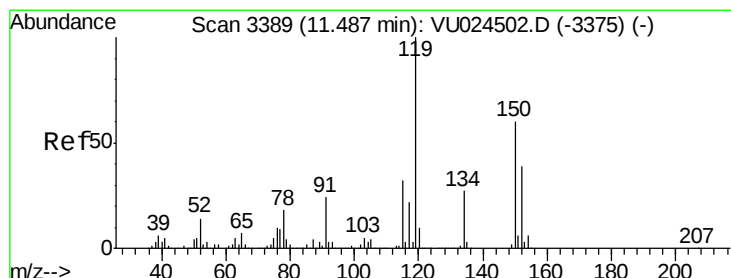
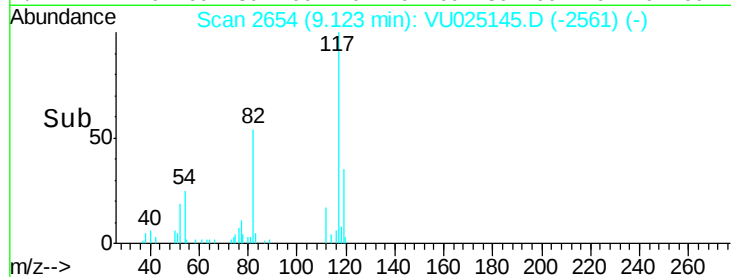
1000

500

0

9.10 9.15

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

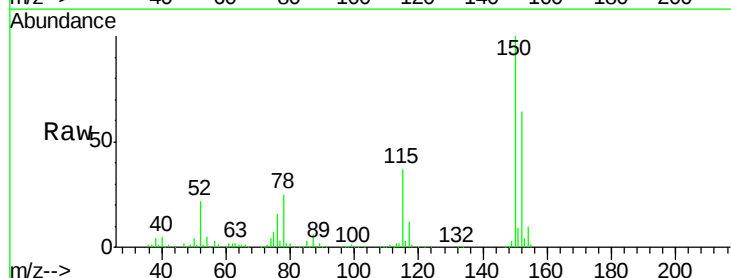
Tgt Ion:152 Resp: 149289

Ion Ratio Lower Upper

152 100

115 57.5 43.0 129.0

150 157.7 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

200000

150000

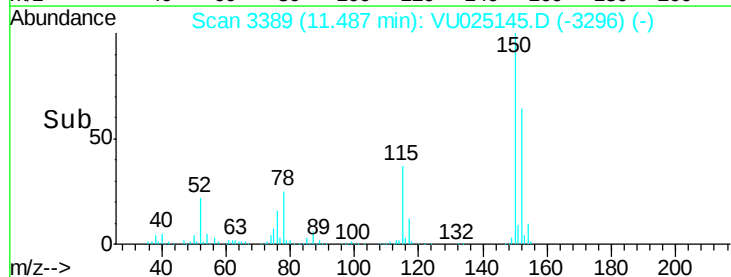
100000

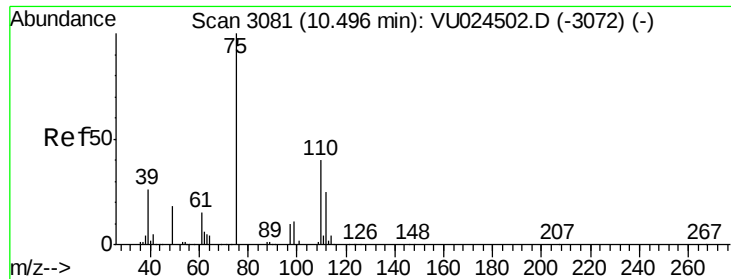
50000

0

11.40 11.50 11.60

Time-->





#76

1,2,3-Trichloropropane

Concen: 26.511 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

Instrument :

MSVOA_U

ClientSampleId :

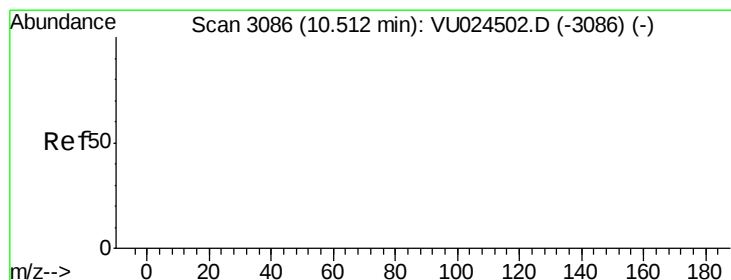
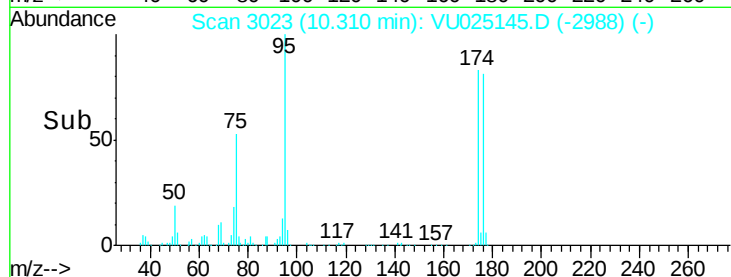
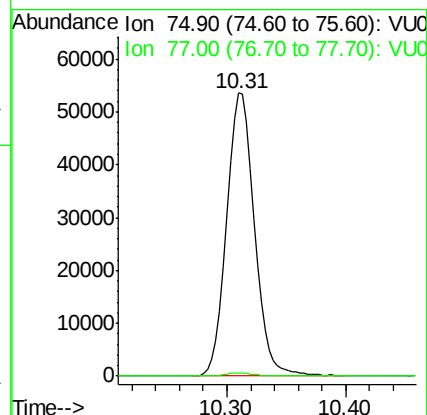
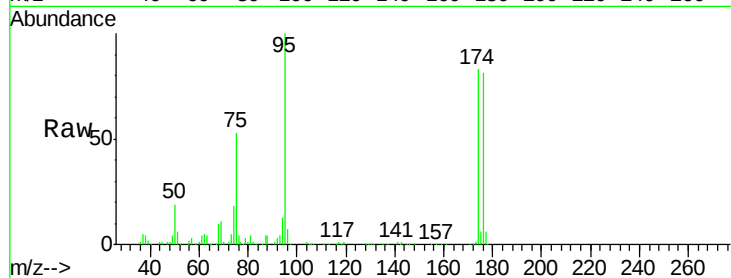
WP021MW357-180625DL2

Tot Ion: 75 Resp: 87138

Ion Ratio Lower Upper

75 100

77 1.1 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.359 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025145.D

Acq: 02 Jul 2018 16:00

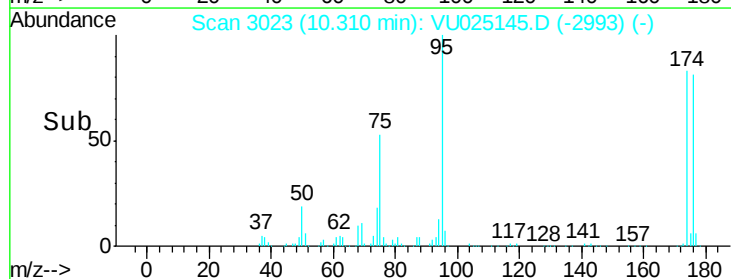
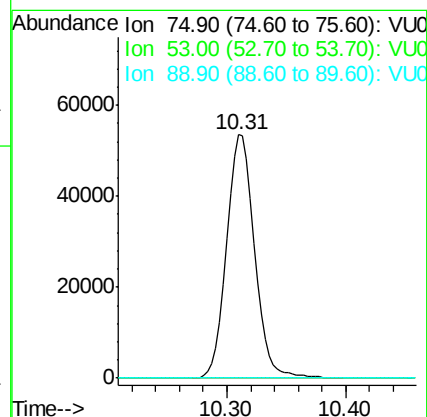
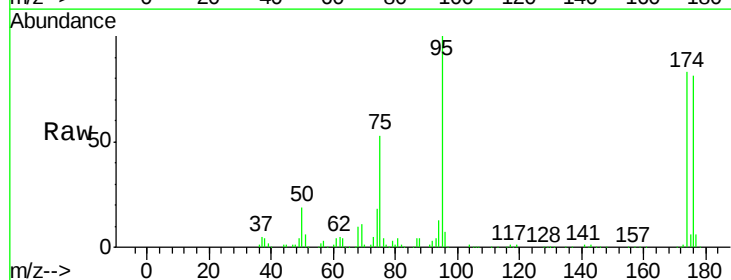
Tgt Ion: 75 Resp: 87138

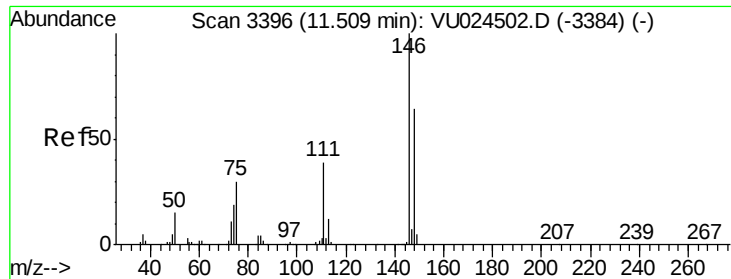
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

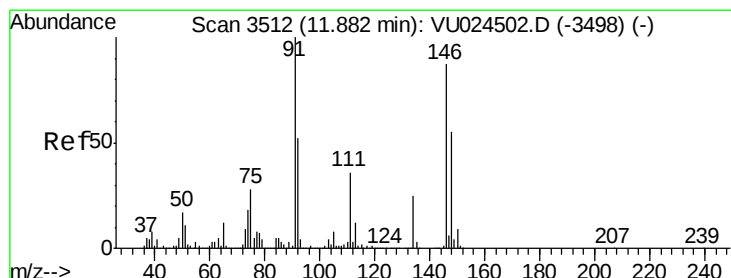
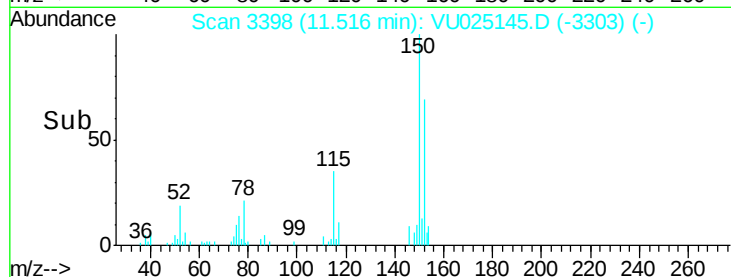
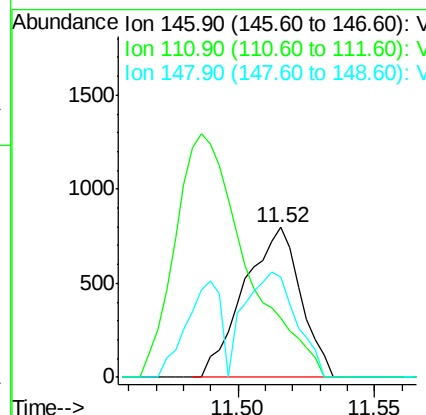
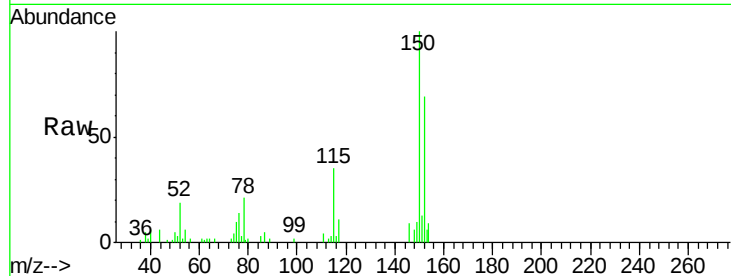




#88
 1,4-Dichlorobenzene
 Concen: 0.212 ug/l
 RT: 11.52 min Scan# 3398
 Delta R.T. 0.01 min
 Lab File: VU025145.D
 Acq: 02 Jul 2018 16:00

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW357-180625DL2

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.5	58.5#
148	64.3	32.4	97.0



#91
 1,2-Dichlorobenzene
 Concen: 0.819 ug/l
 RT: 11.89 min Scan# 3513
 Delta R.T. 0.00 min
 Lab File: VU025145.D
 Acq: 02 Jul 2018 16:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.5	61.6
148	58.7	31.9	95.7

