

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070718\
 Data File : VU025255.D
 Acq On : 06 Jul 2018 21:19
 Operator : MD/SY
 Sample : J3808-17DL 200X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021IW454-180628DL

Quant Time: Jul 06 23:32:48 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	199997	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	298695	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	279672	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	141299	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	153905	47.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.28%	
35) Dibromofluoromethane	4.89	113	118036	47.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.24%	
50) Toluene-d8	7.57	98	425968	47.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.22%	
62) 4-Bromofluorobenzene	10.31	95	157089	43.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.52%	

Target Compounds

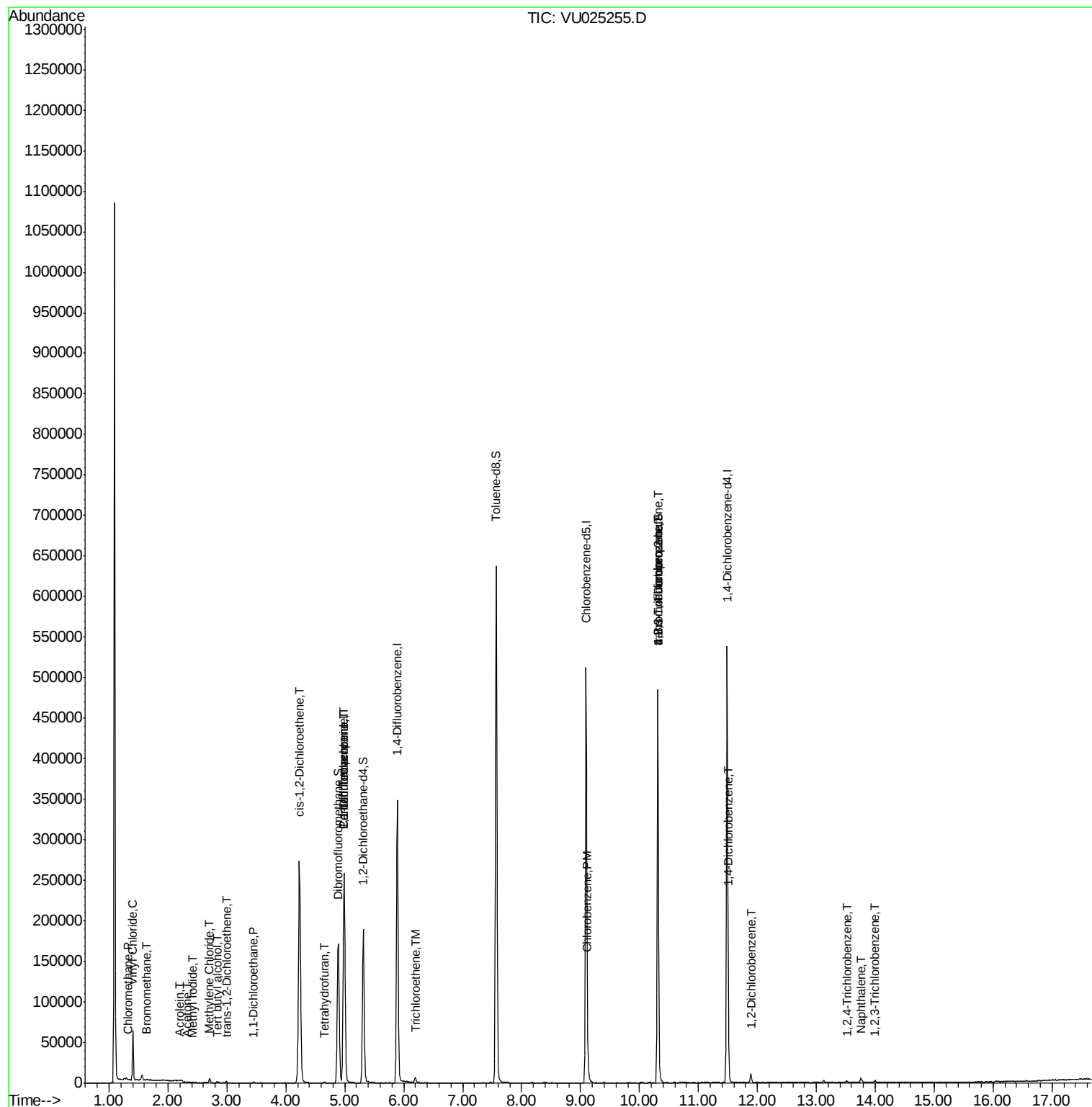
						Qvalue
3) Chloromethane	1.33	50	515	0.201	ug/l	95
4) Vinyl Chloride	1.40	62	37889	14.365	ug/l	96
5) Bromomethane	1.63	94	358	0.281	ug/l #	64
6) Chloroethane	1.70	64	986	Below Cal		98
10) Methyl Iodide	2.42	142	321	5.424	ug/l #	40
11) Tert butyl alcohol	2.84	59	1050	1.322	ug/l #	72
13) Acrolein	2.20	56	101	0.242	ug/l #	1
16) Acetone	2.32	43	981	0.559	ug/l	89
20) Methylene Chloride	2.71	84	2706	0.983	ug/l	88
21) trans-1,2-Dichloroethene	2.99	96	653	0.260	ug/l #	57
24) 1,1-Dichloroethane	3.45	63	1210	0.251	ug/l #	83
27) cis-1,2-Dichloroethene	4.23	96	152390	52.848	ug/l	89
29) Tetrahydrofuran	4.66	42	382	0.262	ug/l #	59
31) Cyclohexane	4.99	56	4131	Below Cal	#	12
36) 1,1-Dichloropropene	4.99	75	14943	4.257	ug/l #	51
38) Carbon Tetrachloride	4.99	117	19643	5.089	ug/l #	16
44) Trichloroethene	6.19	130	2766	0.972	ug/l	77
65) Chlorobenzene	9.12	112	12292	1.720	ug/l	91
76) 1,2,3-Trichloropropane	10.31	75	83076	26.705	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	83076	61.806	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	1144	0.224	ug/l #	25
91) 1,2-Dichlorobenzene	11.89	146	4711	0.927	ug/l	95
93) 1,2,4-Trichlorobenzene	13.53	180	980	0.312	ug/l	89
95) Naphthalene	13.75	128	7095	1.353	ug/l	94
96) 1,2,3-Trichlorobenzene	13.99	180	1202	0.384	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: VU025255.D

Acq: 06 Jul 2018 21:19

Instrument :

MSVOA_U

ClientSampleId :

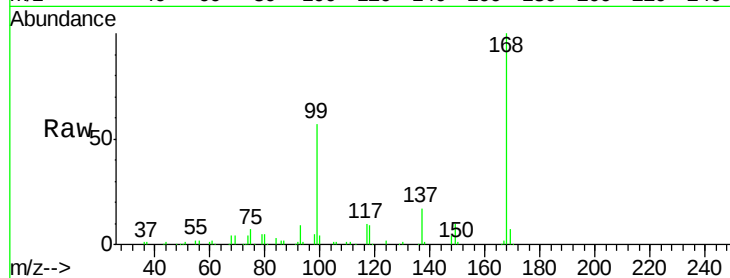
WP021IW454-180628DL

Tot Ion:168 Resp: 199997

Ion Ratio Lower Upper

168 100

99 57.1 43.2 64.8



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

Ion 98.90 (98.60 to 99.60): VU024502.D

4.99

80000

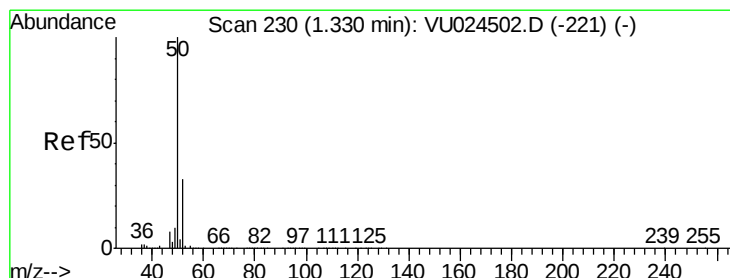
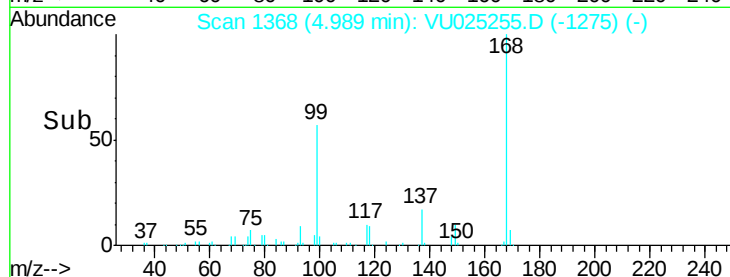
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.201 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU025255.D

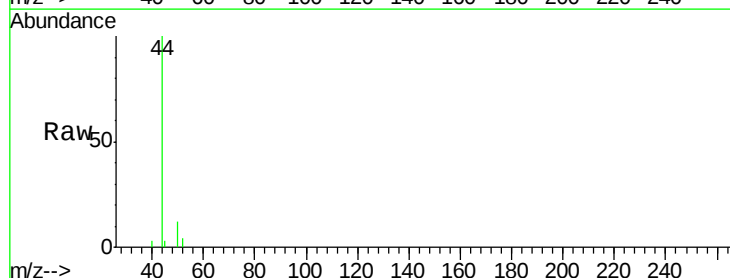
Acq: 06 Jul 2018 21:19

Tgt Ion: 50 Resp: 515

Ion Ratio Lower Upper

50 100

52 36.0 26.4 39.6



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

Ion 51.90 (51.60 to 52.60): VU024502.D

1.33

500

400

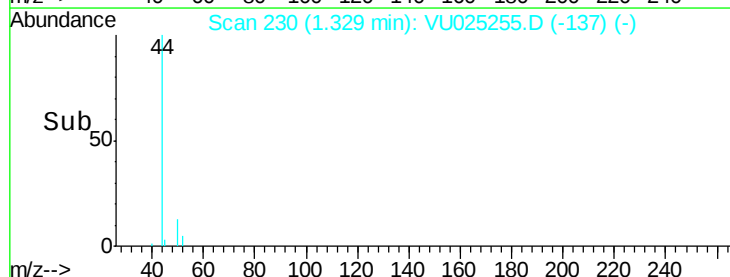
300

200

100

0

Time-->





#4

Vinyl Chloride

Concen: 14.365 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

Instrument :

MSVOA_U

ClientSampleId :

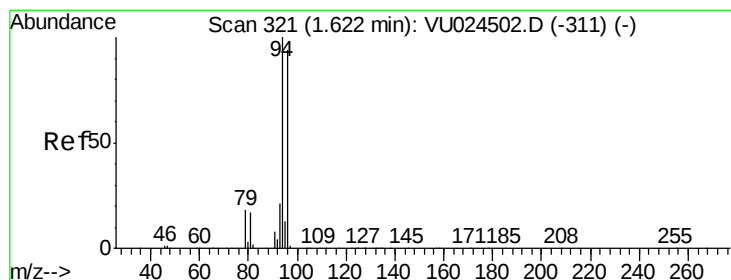
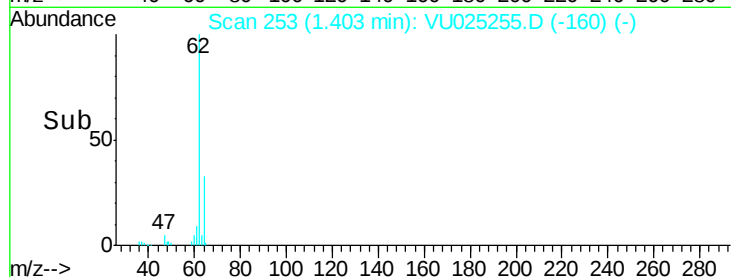
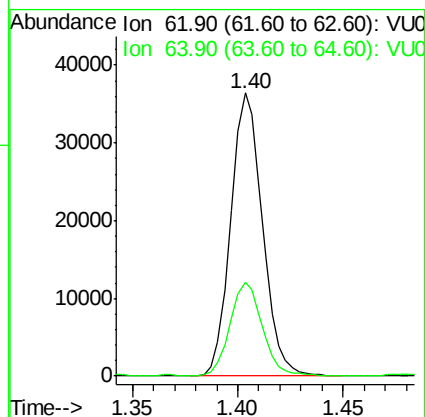
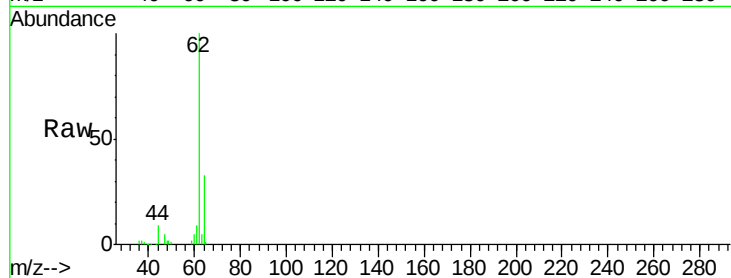
WP021IW454-180628DL

Tot Ion: 62 Resp: 37889

Ion Ratio Lower Upper

62 100

64 33.1 24.8 37.2



#5

Bromomethane

Concen: 0.281 ug/l

RT: 1.63 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU025255.D

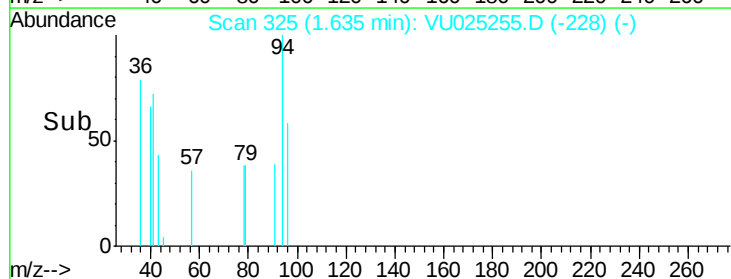
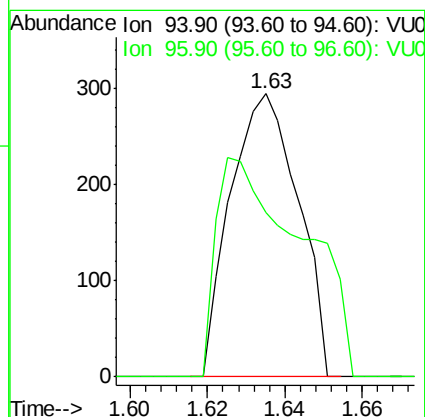
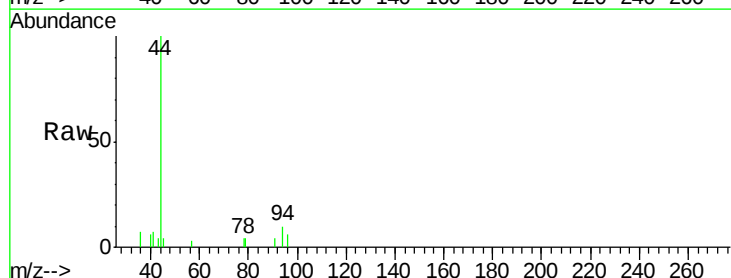
Acq: 06 Jul 2018 21:19

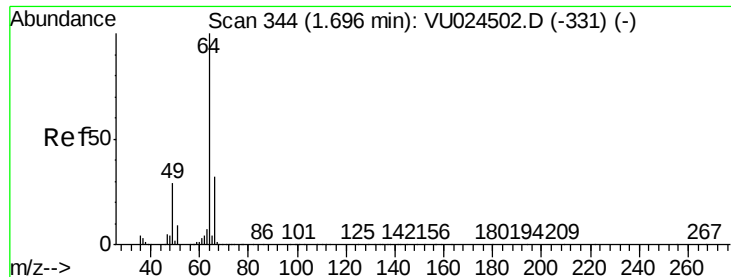
Tgt Ion: 94 Resp: 358

Ion Ratio Lower Upper

94 100

96 58.2 74.5 111.7#





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

Instrument :

MSVOA_U

ClientSampleId :

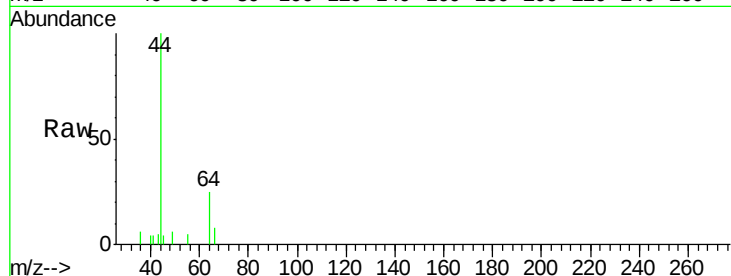
WP021IW454-180628DL

Tot Ion: 64 Resp: 986

Ion Ratio Lower Upper

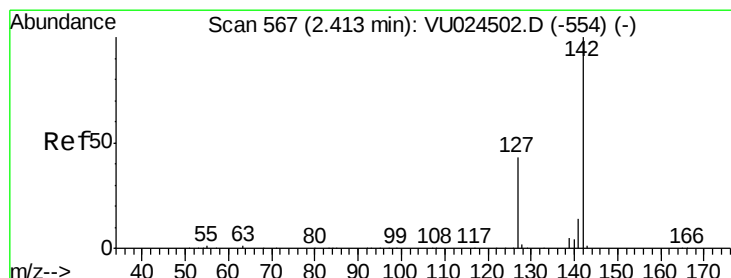
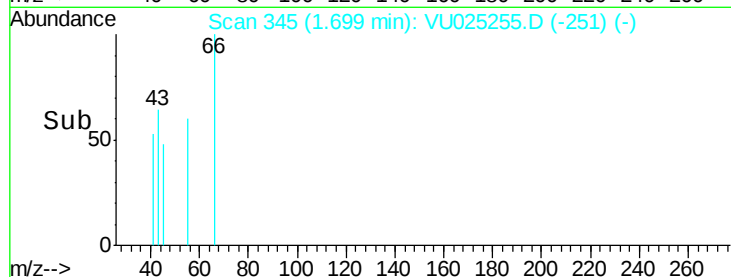
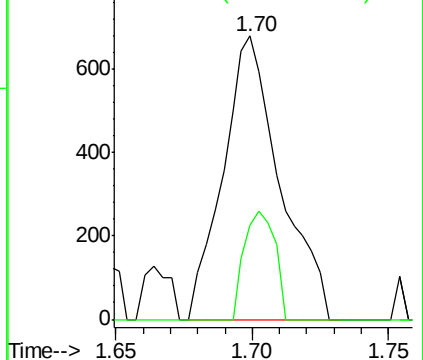
64 100

66 33.1 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



#10

Methyl Iodide

Concen: 5.424 ug/l

RT: 2.42 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

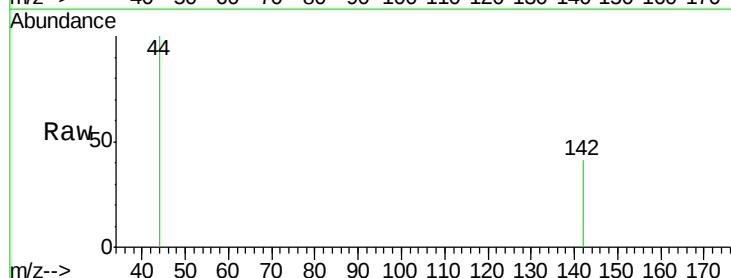
Tgt Ion: 142 Resp: 321

Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

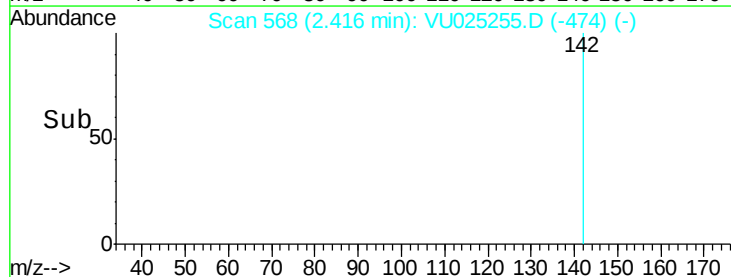
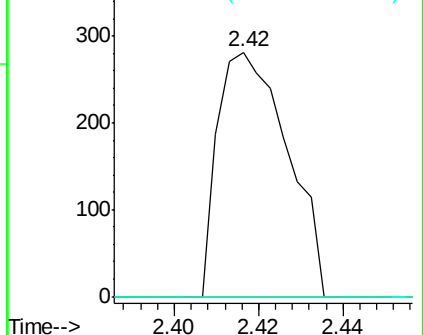
141 0.0 11.7 17.5#

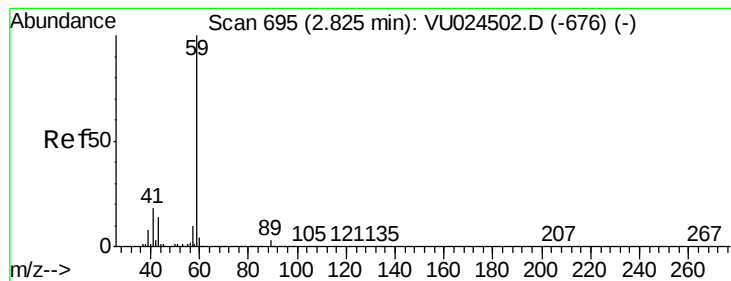


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



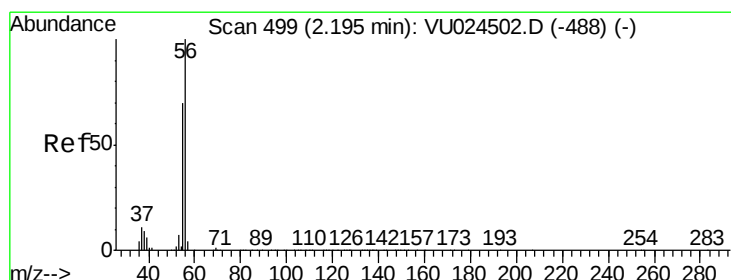
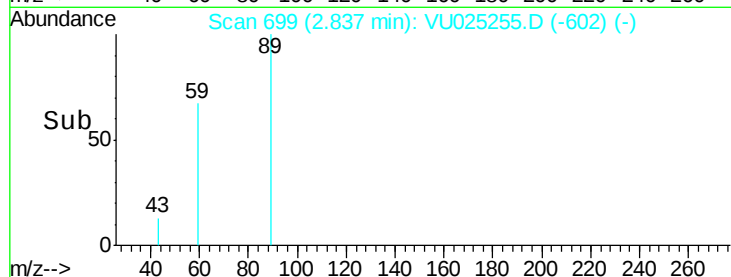
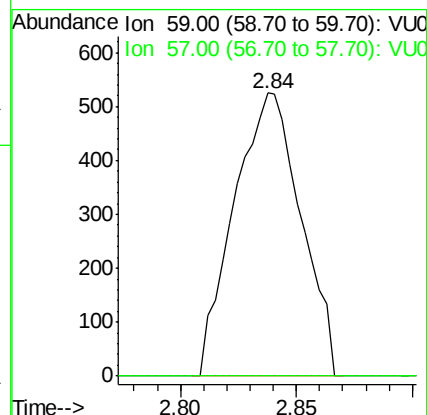
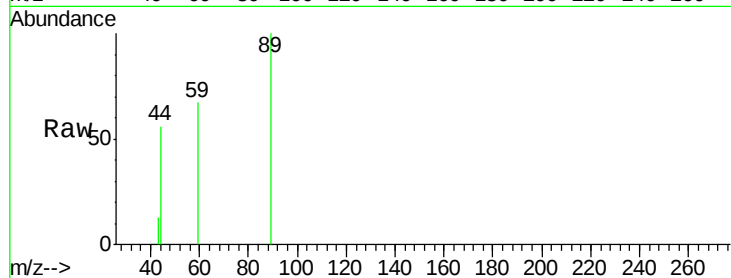


#11

Tert butyl alcohol
 Concen: 1.322 ug/l
 RT: 2.84 min Scan# 699
 Delta R.T. 0.01 min
 Lab File: VU025255.D
 Acq: 06 Jul 2018 21:19

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021IW454-180628DL

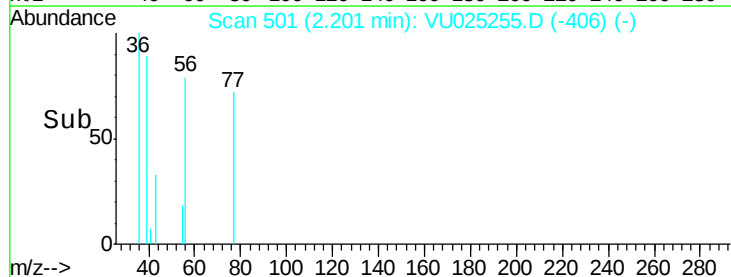
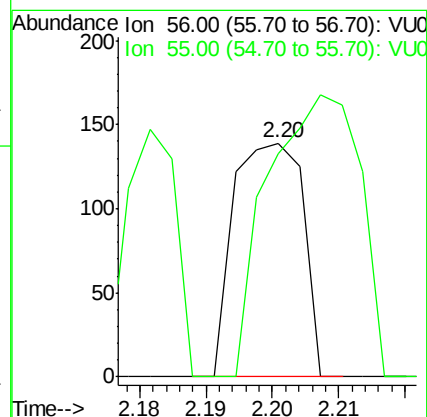
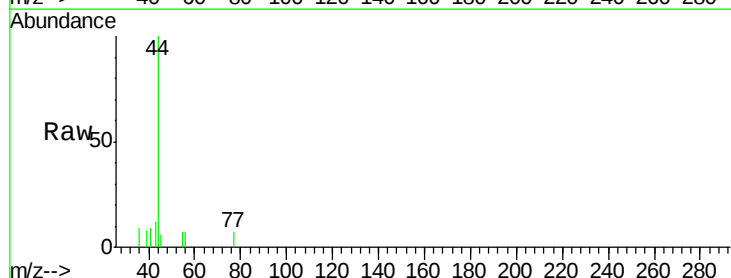
Tot Ion: 59 Resp: 1050
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#



#13

Acrolein
 Concen: 0.242 ug/l
 RT: 2.20 min Scan# 501
 Delta R.T. 0.01 min
 Lab File: VU025255.D
 Acq: 06 Jul 2018 21:19

Tgt Ion: 56 Resp: 101
 Ion Ratio Lower Upper
 56 100
 55 160.4 58.4 87.6#





#16

Acetone

Concen: 0.559 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

Instrument :

MSVOA_U

ClientSampleId :

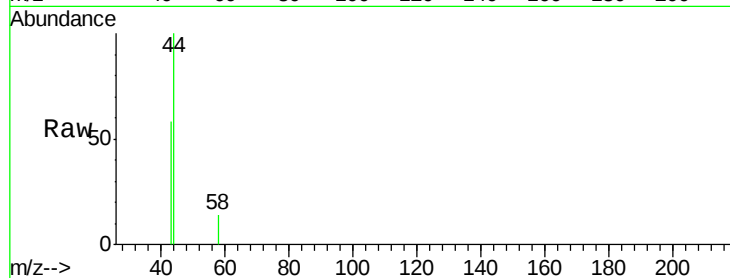
WP021IW454-180628DL

Tot Ion: 43 Resp: 981

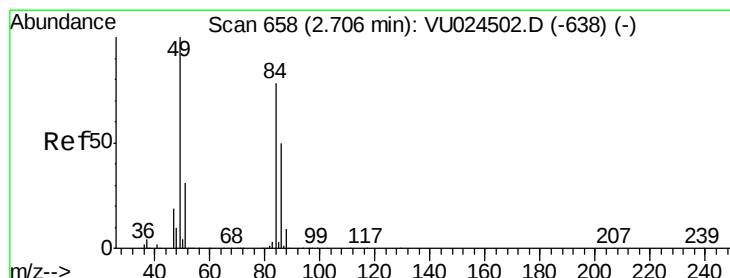
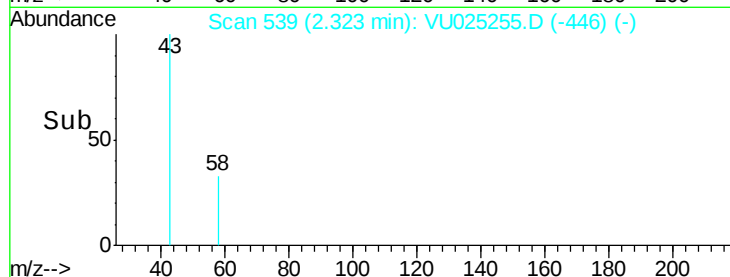
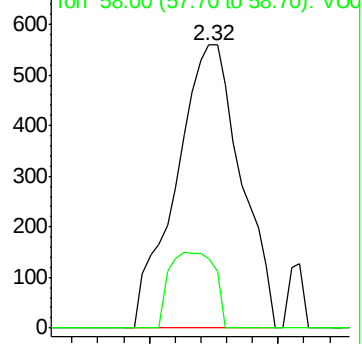
Ion Ratio Lower Upper

43 100

58 24.7 24.4 36.6



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



#20

Methylene Chloride

Concen: 0.983 ug/l

RT: 2.71 min Scan# 658

Delta R.T. -0.00 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

Tgt Ion: 84 Resp: 2706

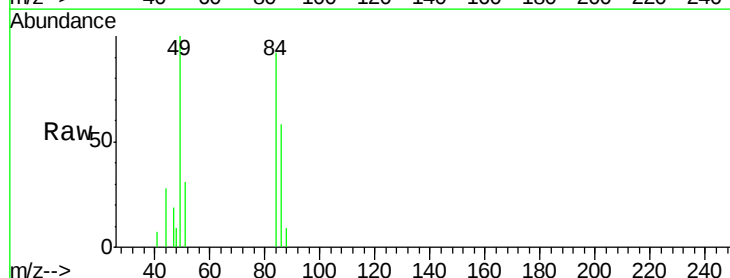
Ion Ratio Lower Upper

84 100

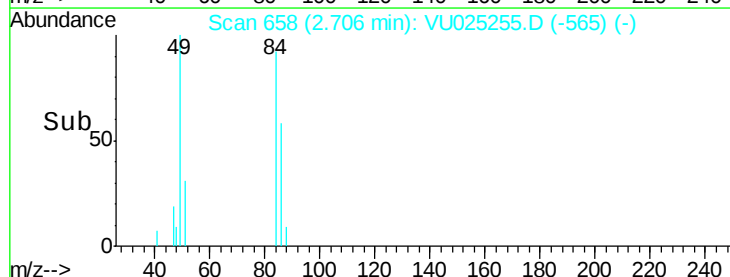
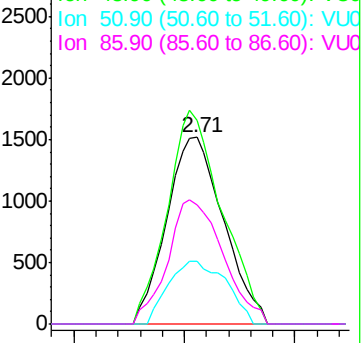
49 109.0 103.8 155.8

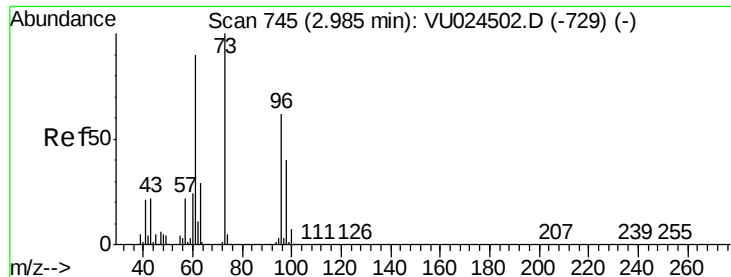
51 33.5 32.0 48.0

86 63.8 51.6 77.4



Abundance Ion 83.90 (83.60 to 84.60): VU024502.D (-638) (-)





#21

trans-1,2-Dichloroethene

Concen: 0.260 ug/l

RT: 2.99 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

Instrument :

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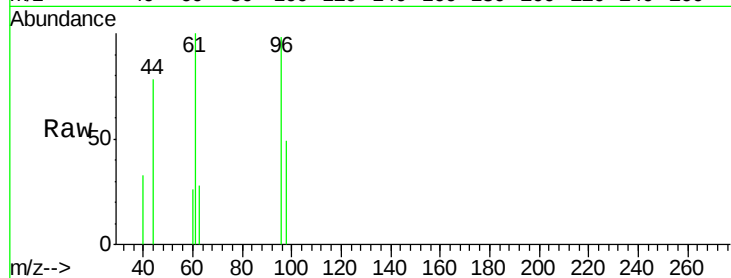
Tot Ion: 96 Resp: 653

Ion Ratio Lower Upper

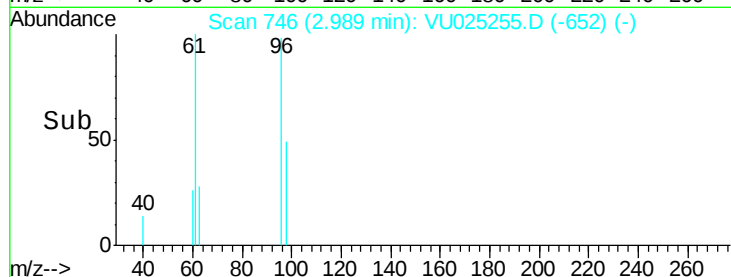
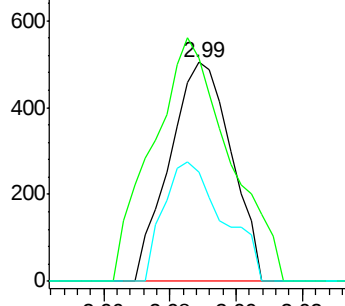
96 100

61 81.3 119.4 179.0#

98 49.6 51.1 76.7#



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



#24

1,1-Dichloroethane

Concen: 0.251 ug/l

RT: 3.45 min Scan# 890

Delta R.T. -0.00 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

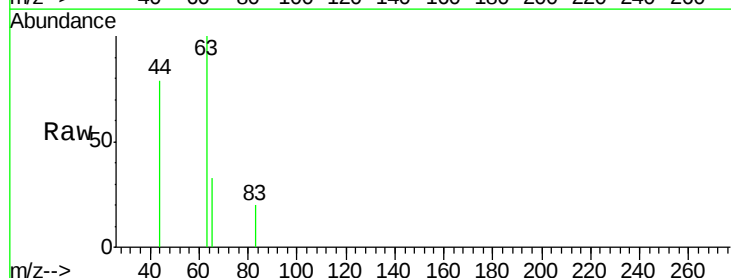
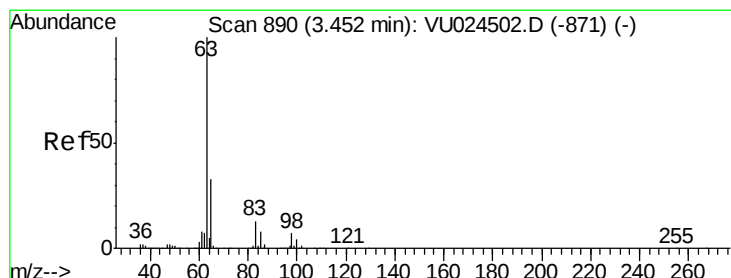
Tgt Ion: 63 Resp: 1210

Ion Ratio Lower Upper

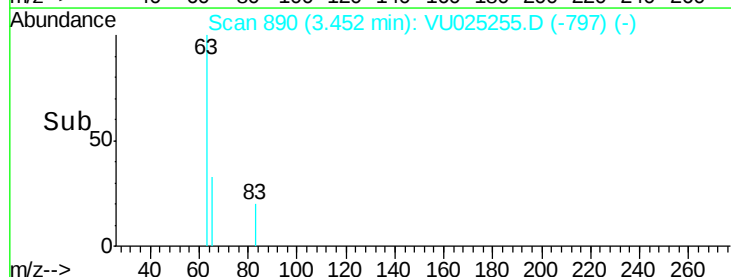
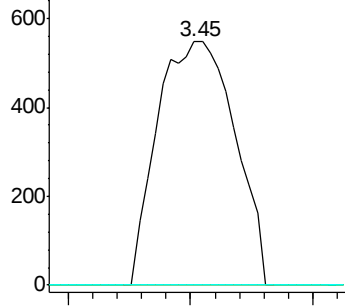
63 100

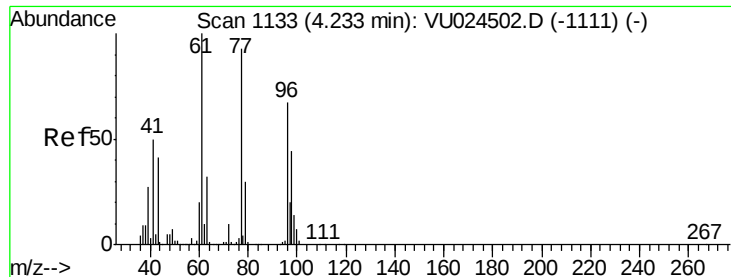
98 0.0 3.5 10.4#

100 0.0 1.8 5.5#



Abundance Ion 62.90 (62.60 to 63.60): VU0
Ion 97.90 (97.60 to 98.60): VU0
Ion 99.90 (99.60 to 100.60): VU0





#27

cis-1,2-Dichloroethene

Concen: 52.848 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

Instrument :

MSVOA_U

ClientSampleId :

WP021IW454-180628DL

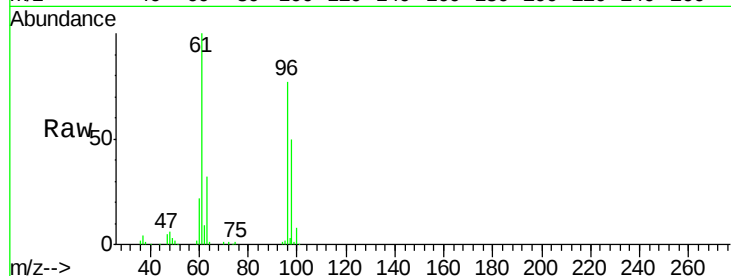
Tot Ion: 96 Resp: 152390

Ion Ratio Lower Upper

96 100

61 133.8 0.0 306.6

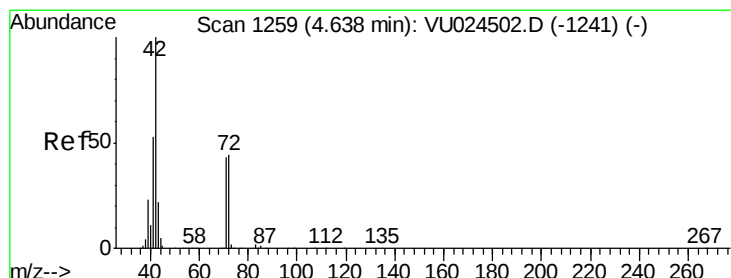
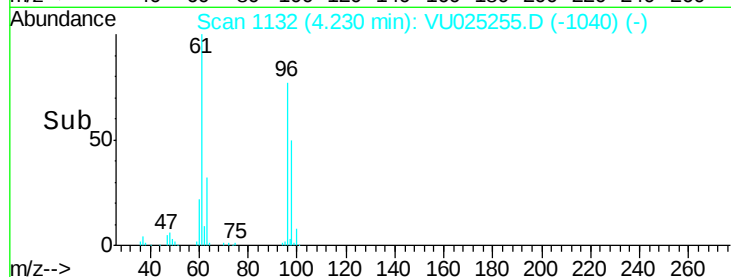
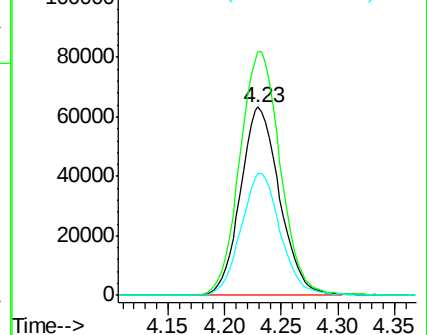
98 65.3 0.0 128.8



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



#29

Tetrahydrofuran

Concen: 0.262 ug/l

RT: 4.66 min Scan# 1265

Delta R.T. 0.02 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

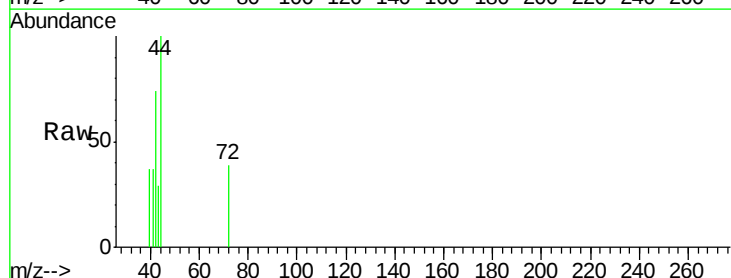
Tgt Ion: 42 Resp: 382

Ion Ratio Lower Upper

42 100

72 31.7 34.5 51.7#

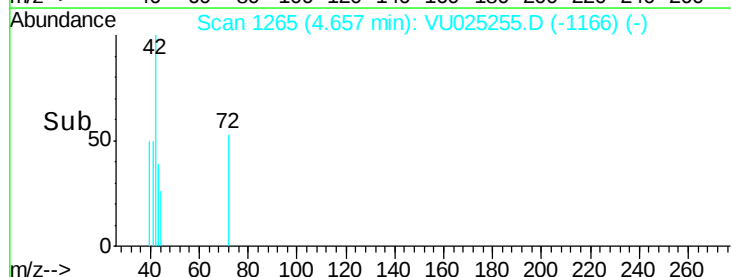
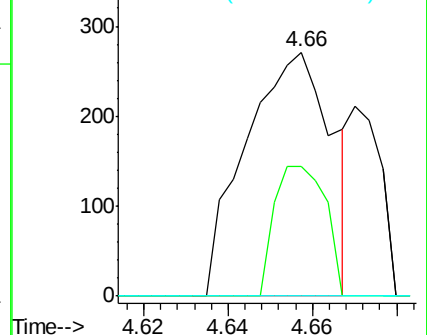
71 0.0 32.2 48.4#

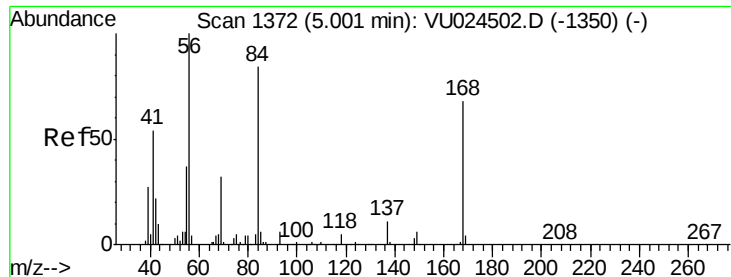


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

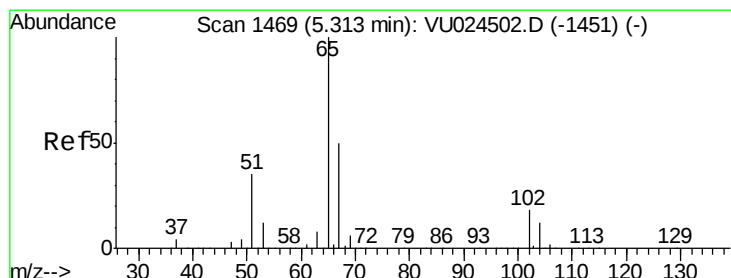
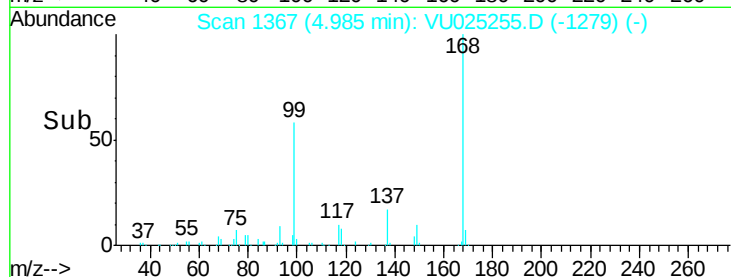
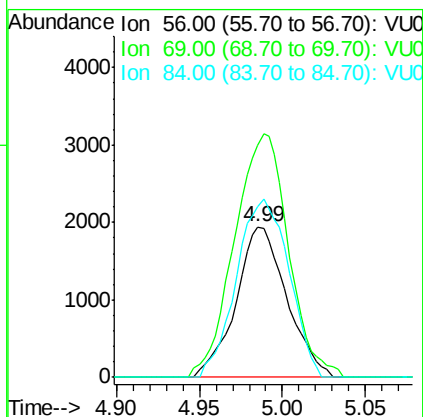
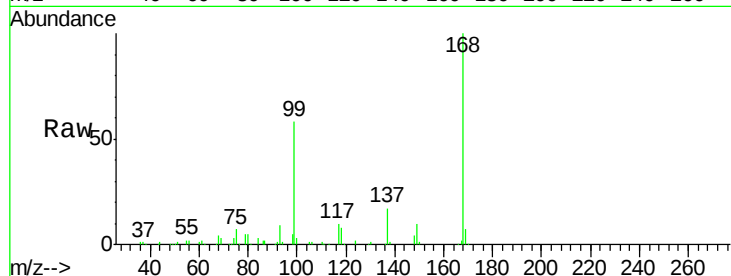




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1367
Delta R.T. -0.02 min
Lab File: VU025255.D
Acq: 06 Jul 2018 21:19

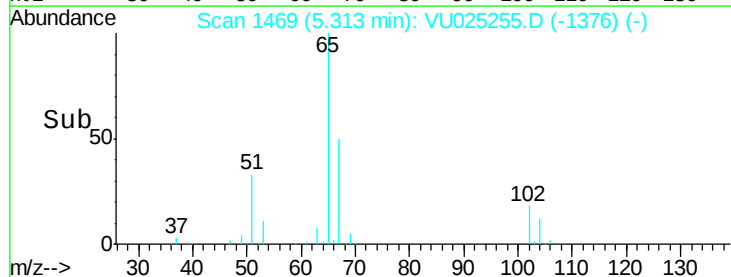
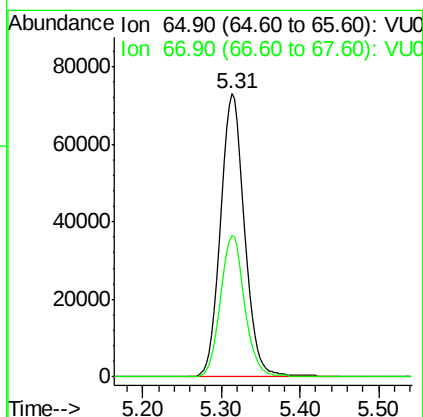
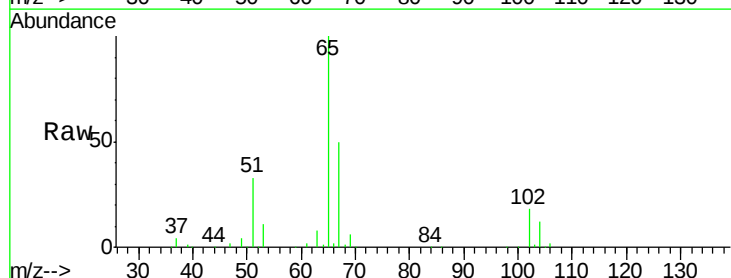
Instrument :
MSVOA_U
ClientSampleId :
WP021IW454-180628DL

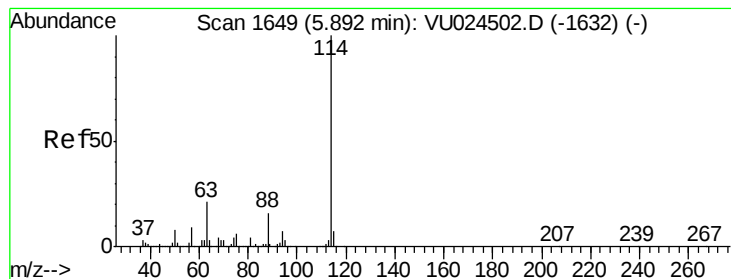
Tot Ion: 56 Resp: 4131
Ion Ratio Lower Upper
56 100
69 154.6 24.8 37.2#
84 113.6 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 47.138 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU025255.D
Acq: 06 Jul 2018 21:19

Tgt Ion: 65 Resp: 153905
Ion Ratio Lower Upper
65 100
67 50.0 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: VU025255.D

Acq: 06 Jul 2018 21:19

Instrument :

MSVOA_U

ClientSampleId :

WP021IW454-180628DL

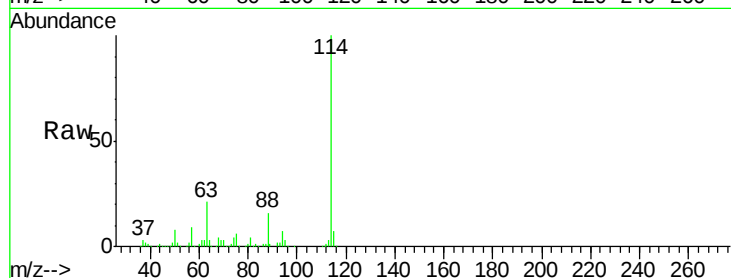
Tot Ion:114 Resp: 298695

Ion Ratio Lower Upper

114 100

63 21.1 0.0 45.4

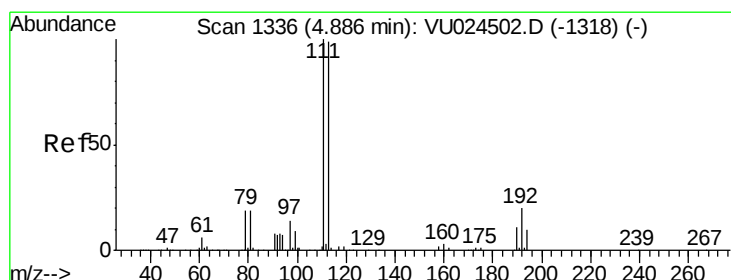
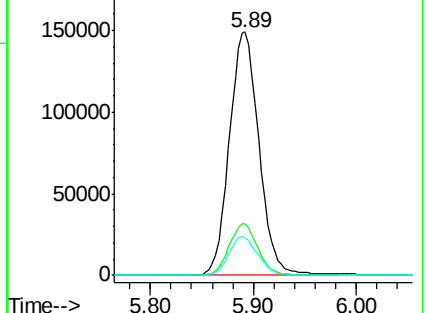
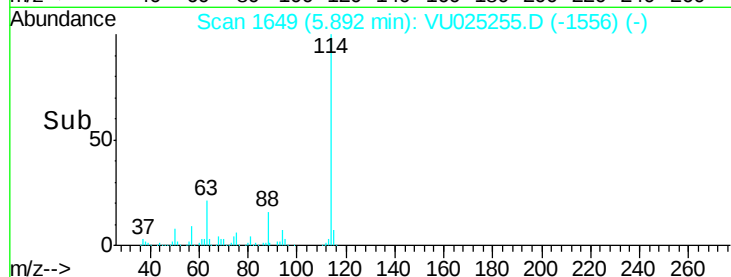
88 15.6 0.0 31.0



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: 47.616 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

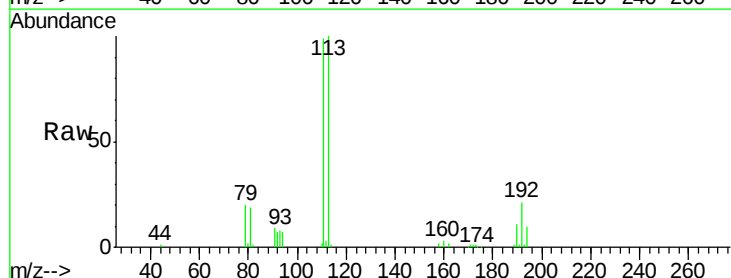
Tgt Ion:113 Resp: 118036

Ion Ratio Lower Upper

113 100

111 99.8 82.2 123.4

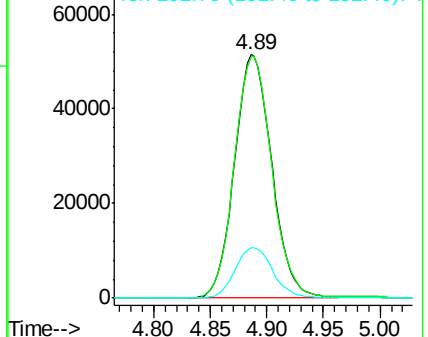
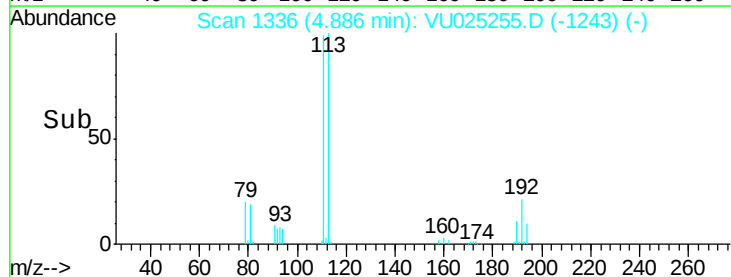
192 21.0 16.2 24.4

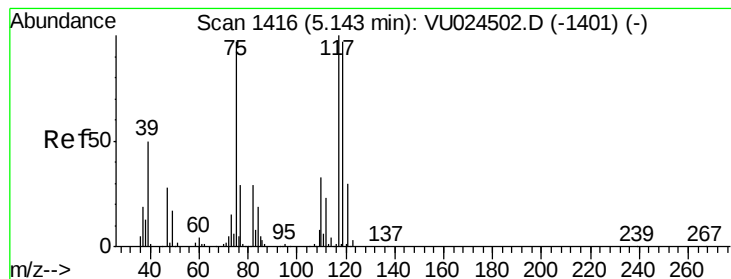


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.257 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

Instrument :

MSVOA_U

ClientSampleId :

WP021IW454-180628DL

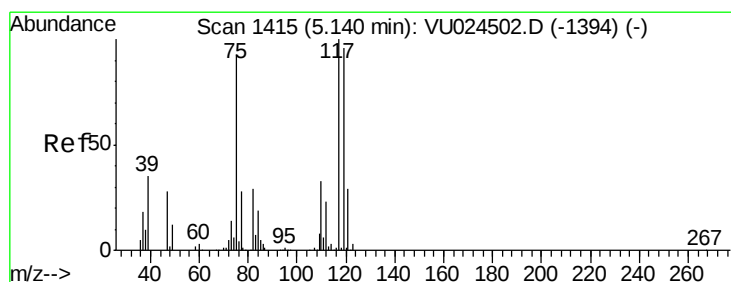
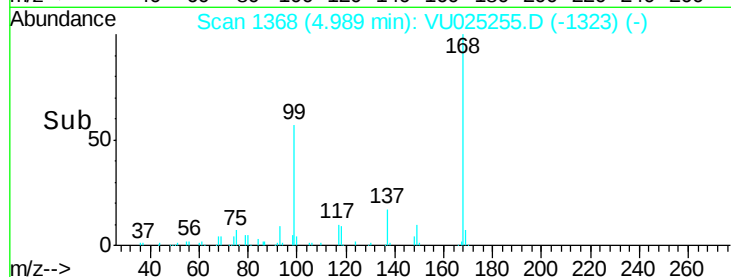
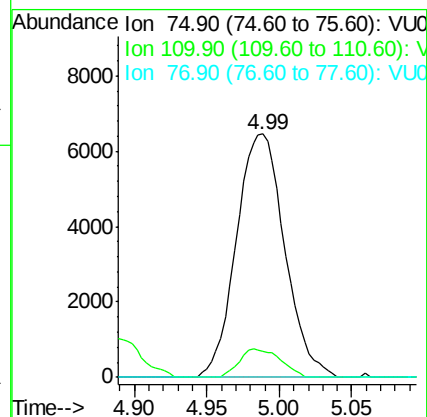
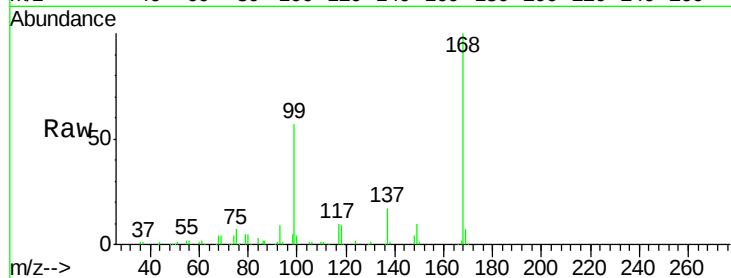
Tot Ion: 75 Resp: 14943

Ion Ratio Lower Upper

75 100

110 9.8 17.0 50.9#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 5.089 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

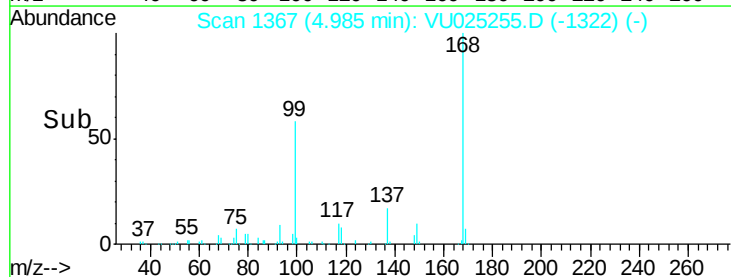
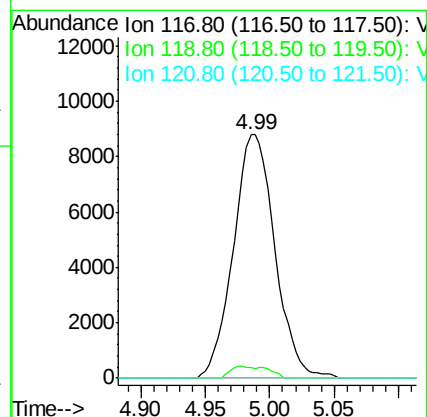
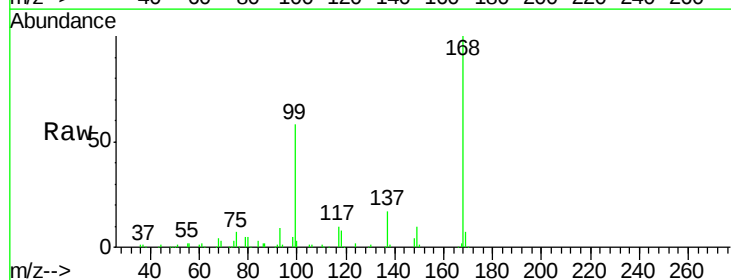
Tgt Ion: 117 Resp: 19643

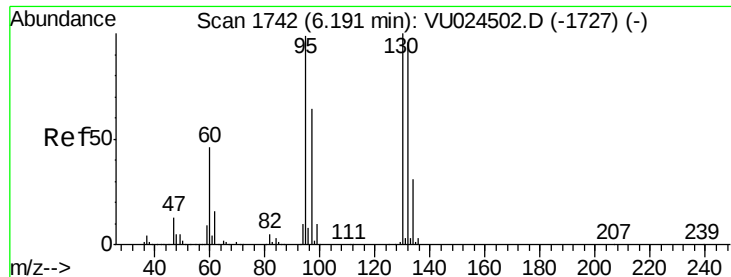
Ion Ratio Lower Upper

117 100

119 4.3 76.1 114.1#

121 0.0 23.7 35.5#





#44

Trichloroethene

Concen: 0.972 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

Instrument :

MSVOA_U

ClientSampleId :

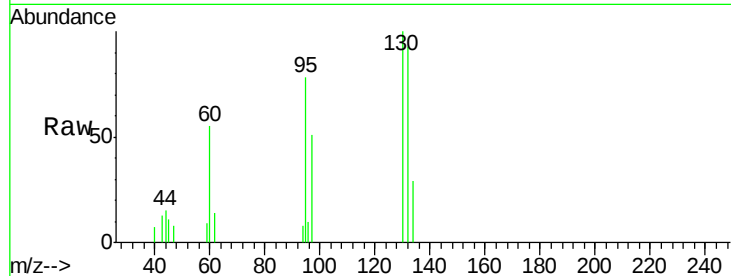
WP021IW454-180628DL

Tot Ion:130 Resp: 2766

Ion Ratio Lower Upper

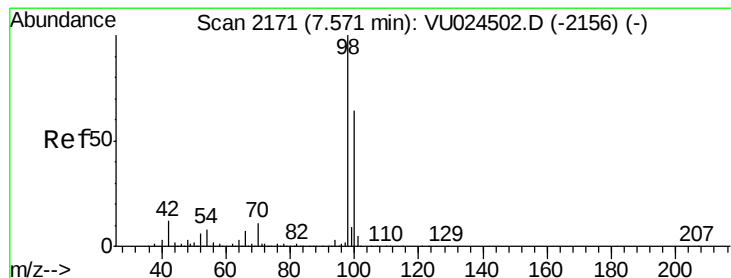
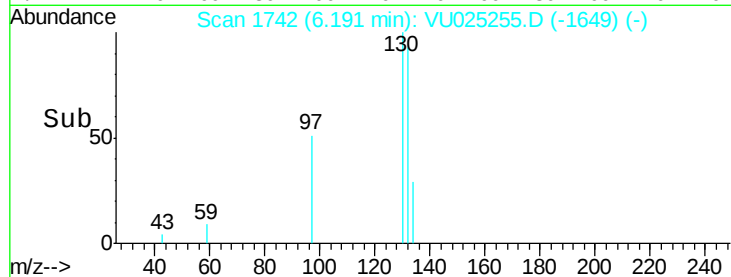
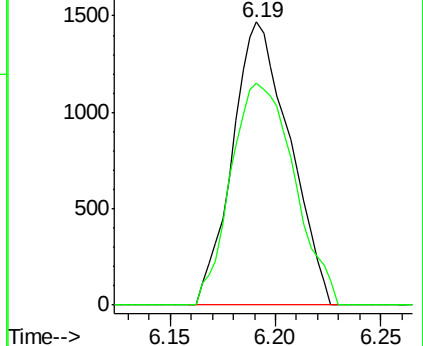
130 100

95 78.3 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: 47.109 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU025255.D

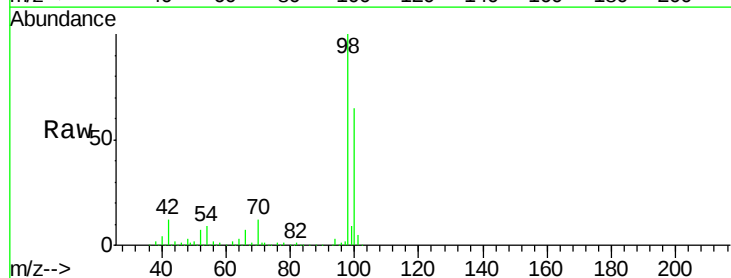
Acq: 06 Jul 2018 21:19

Tgt Ion: 98 Resp: 425968

Ion Ratio Lower Upper

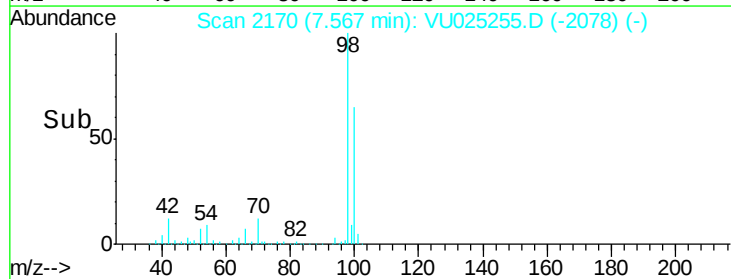
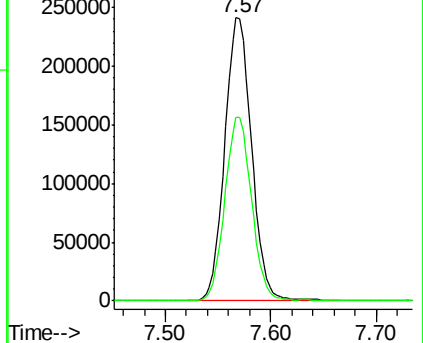
98 100

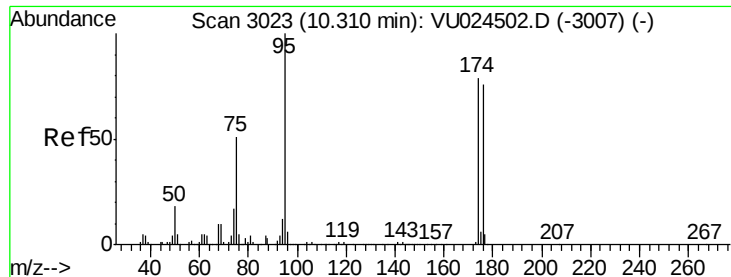
100 64.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#62

4-Bromofluorobenzene

Concen: 43.756 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

Instrument :

MSVOA_U

ClientSampleId :

WP021IW454-180628DL

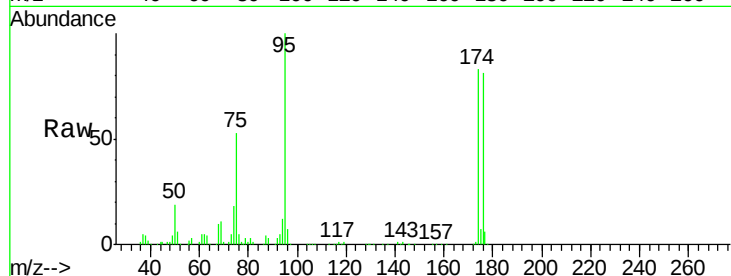
Tot Ion: 95 Resp: 157089

Ion Ratio Lower Upper

95 100

174 85.8 0.0 165.8

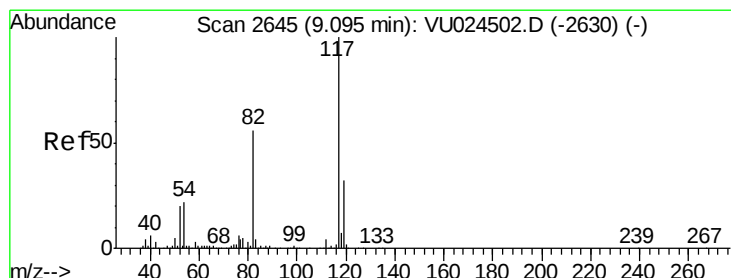
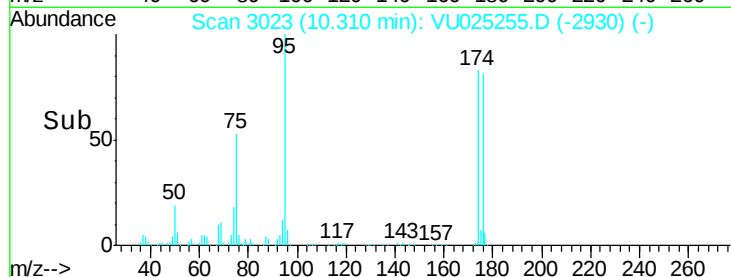
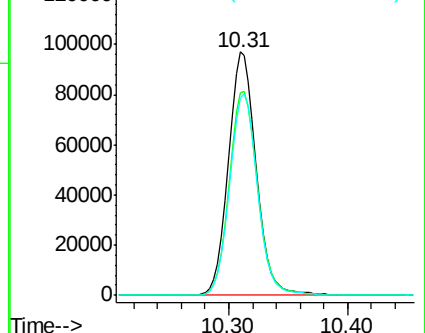
176 83.2 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): VU0

Ion 175.80 (175.50 to 176.50): VU0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. -0.00 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

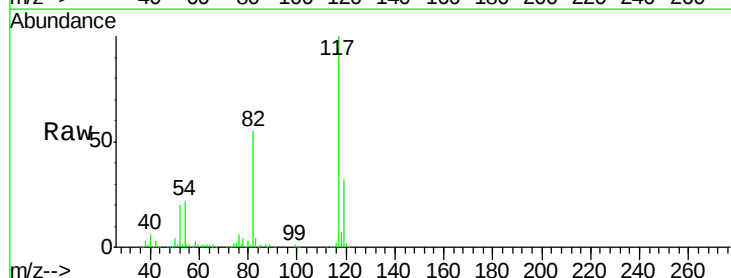
Tgt Ion: 117 Resp: 279672

Ion Ratio Lower Upper

117 100

82 55.4 44.3 66.5

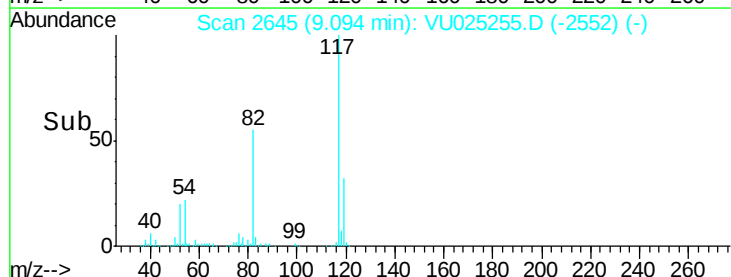
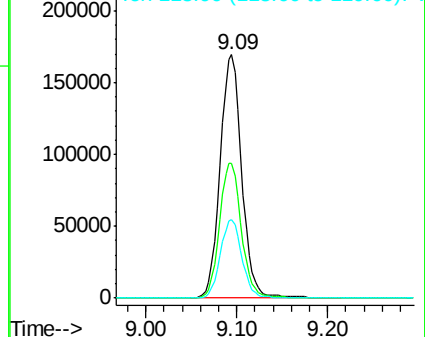
119 32.3 25.4 38.2

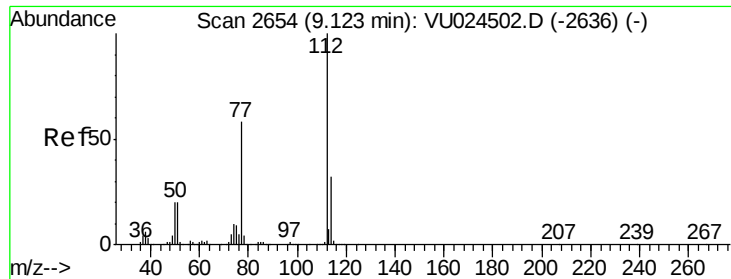


Abundance Ion 116.90 (116.60 to 117.60): VU0

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): VU0





#65

Chlorobenzene

Concen: 1.720 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. -0.00 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

Instrument :

MSVOA_U

ClientSampleId :

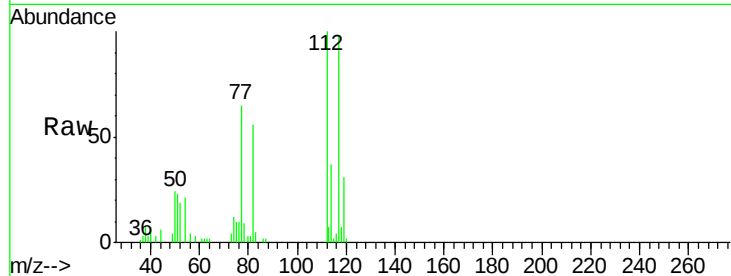
WP021IW454-180628DL

Tot Ion:112 Resp: 12292

Ion Ratio Lower Upper

112 100

114 37.2 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

9.12

8000

6000

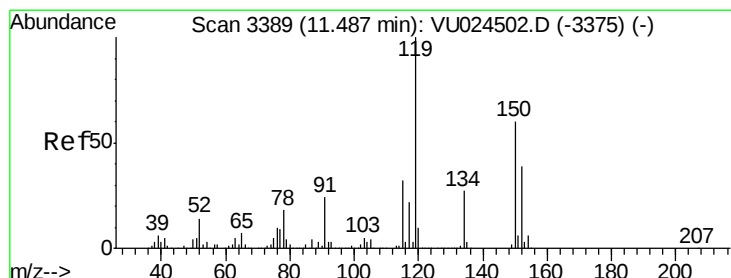
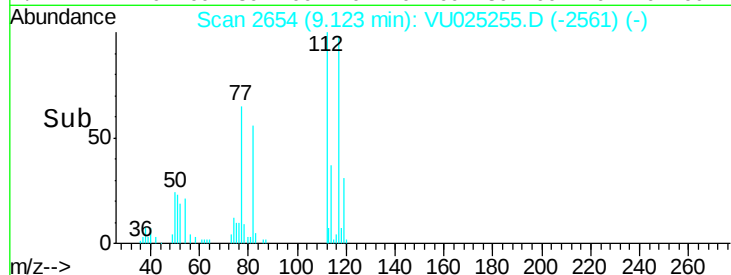
4000

2000

0

Time-->

9.05 9.10 9.15 9.20



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

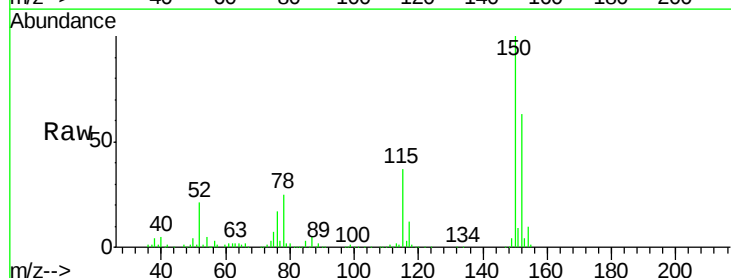
Tgt Ion:152 Resp: 141299

Ion Ratio Lower Upper

152 100

115 57.3 43.0 129.0

150 156.5 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

150000

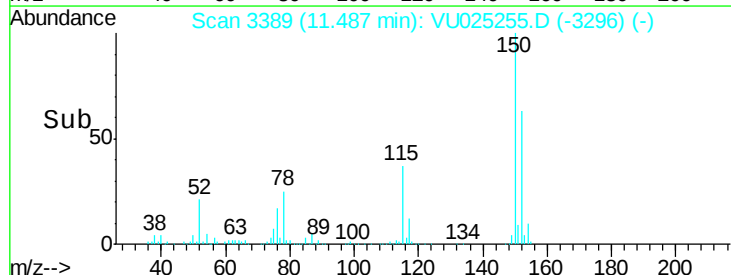
100000

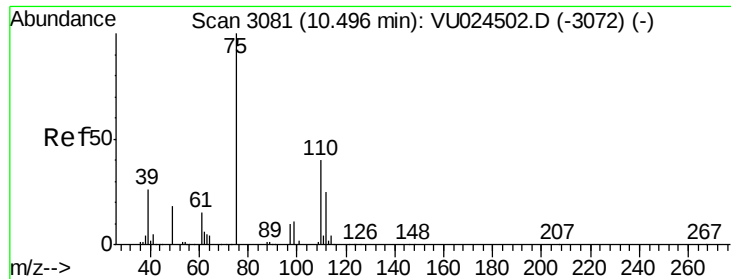
50000

0

Time-->

11.40 11.50





#76

1,2,3-Trichloropropane

Concen: 26.705 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

Instrument :

MSVOA_U

ClientSampleId :

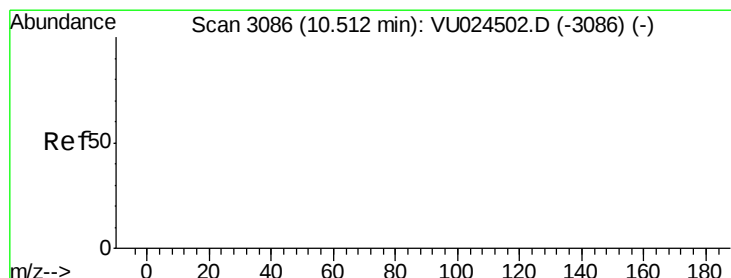
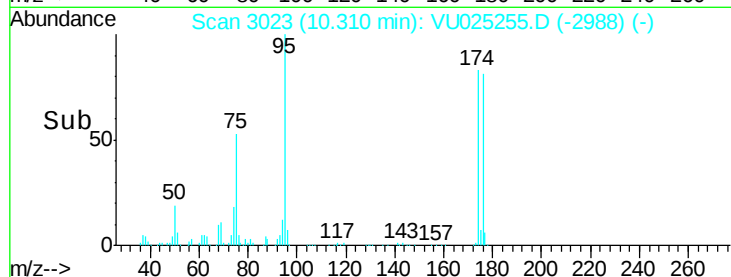
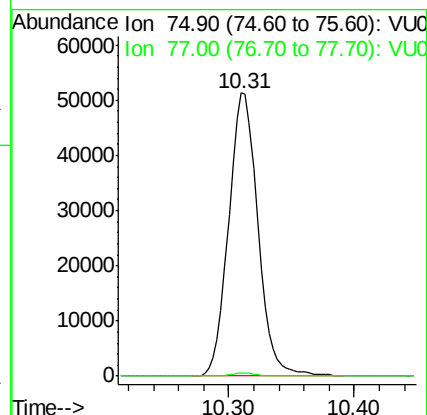
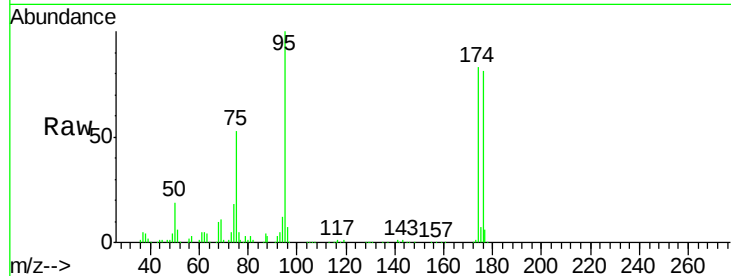
WP021IW454-180628DL

Tot Ion: 75 Resp: 83076

Ion Ratio Lower Upper

75 100

77 0.9 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.806 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025255.D

Acq: 06 Jul 2018 21:19

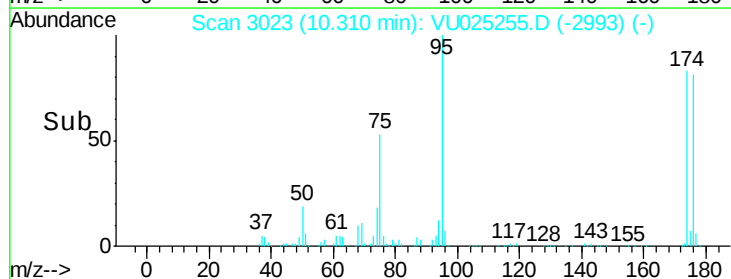
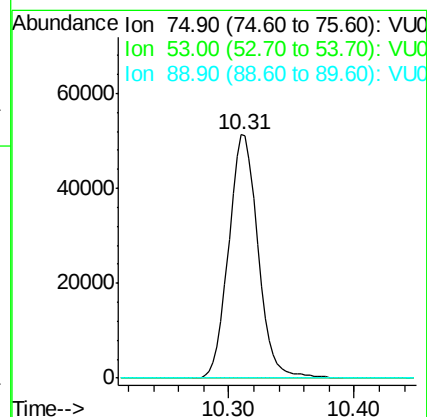
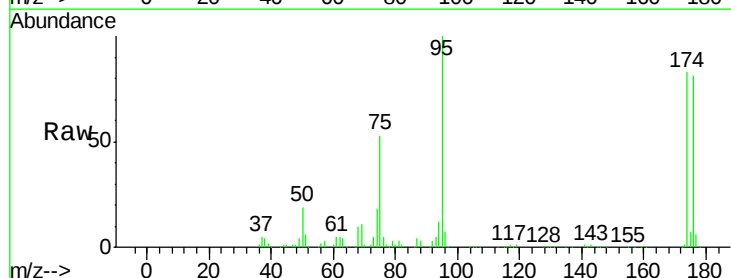
Tgt Ion: 75 Resp: 83076

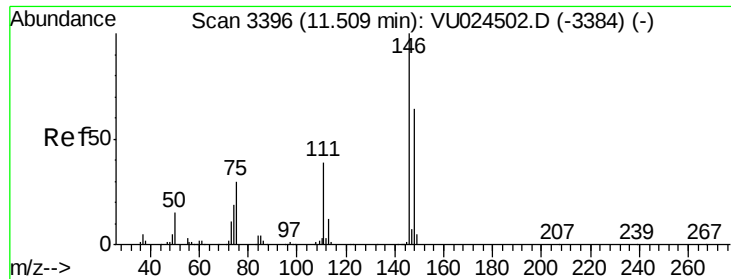
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

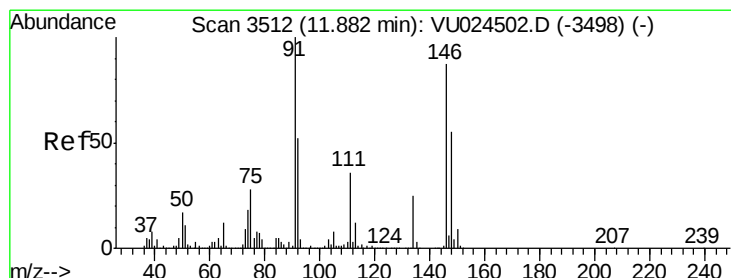
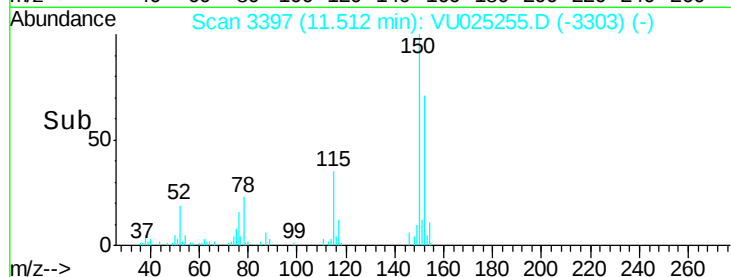
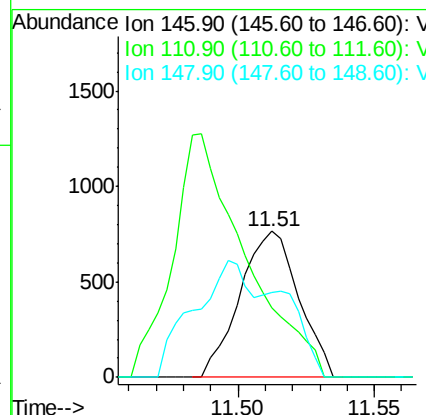
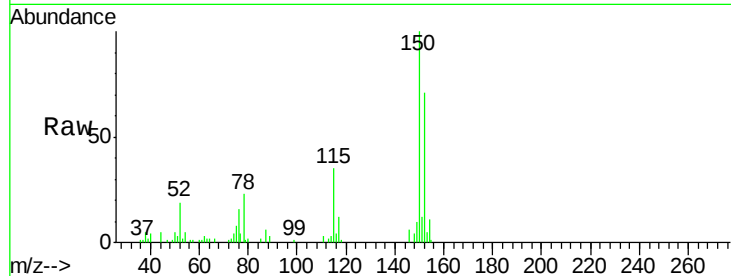




#88
 1,4-Dichlorobenzene
 Concen: 0.224 ug/l
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU025255.D
 Acq: 06 Jul 2018 21:19

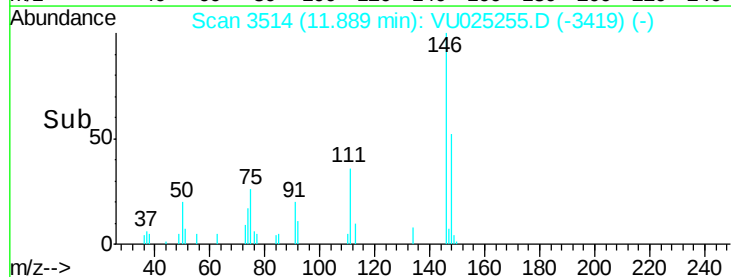
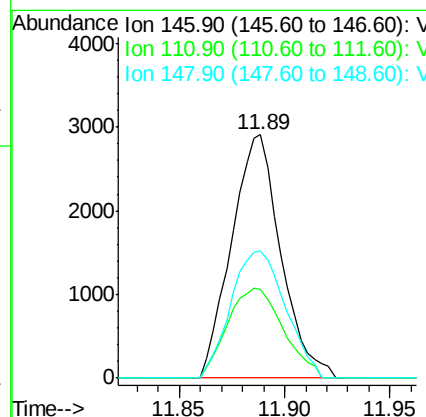
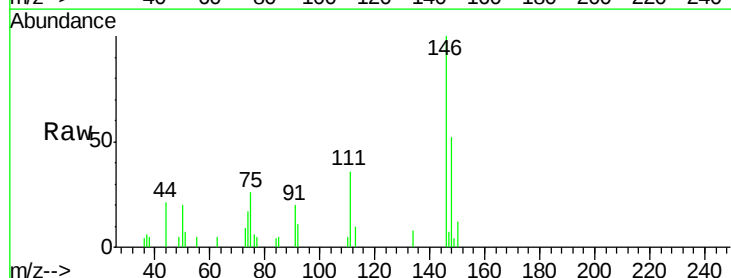
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021IW454-180628DL

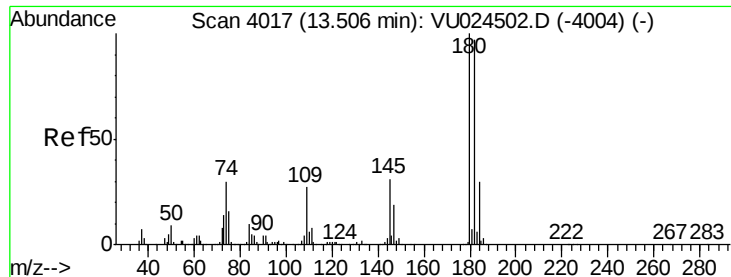
Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.5	58.5#
148	0.0	32.4	97.0#



#91
 1,2-Dichlorobenzene
 Concen: 0.927 ug/l
 RT: 11.89 min Scan# 3514
 Delta R.T. 0.01 min
 Lab File: VU025255.D
 Acq: 06 Jul 2018 21:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.5	61.6
148	58.0	31.9	95.7

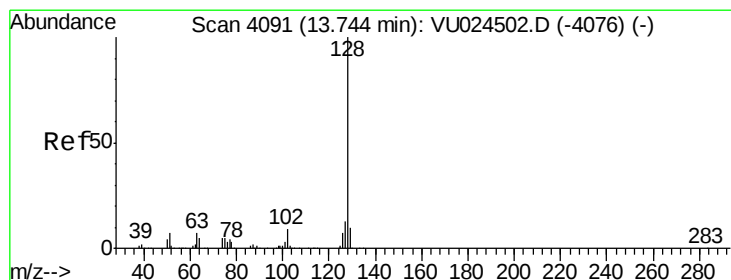
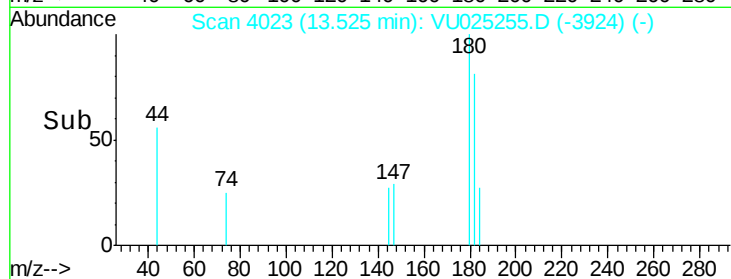
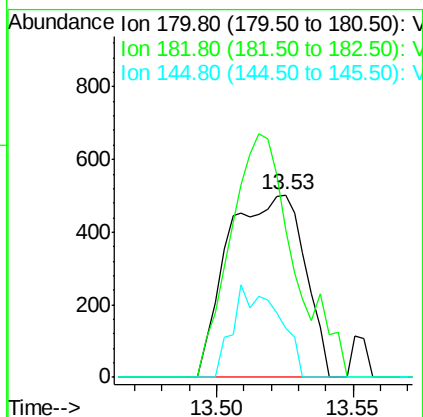
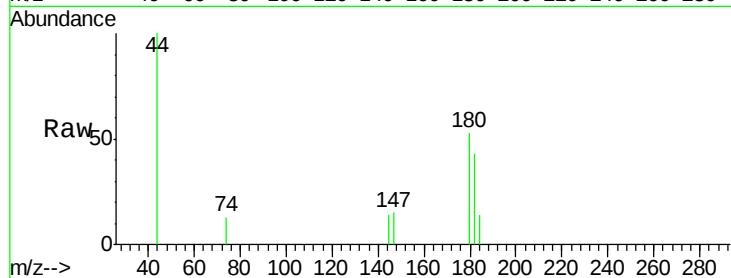




#93
 1,2,4-Trichlorobenzene
 Concen: 0.312 ug/l
 RT: 13.53 min Scan# 4023
 Delta R.T. 0.02 min
 Lab File: VU025255.D
 Acq: 06 Jul 2018 21:19

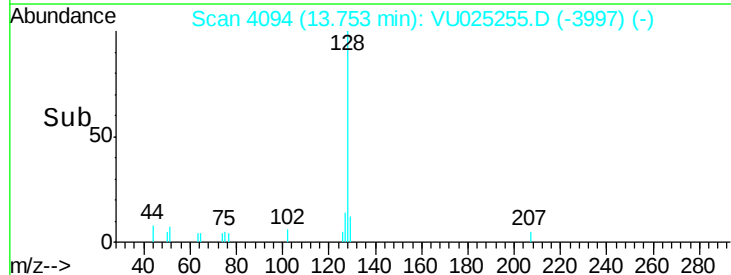
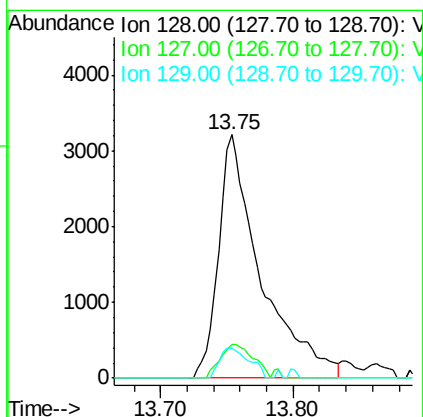
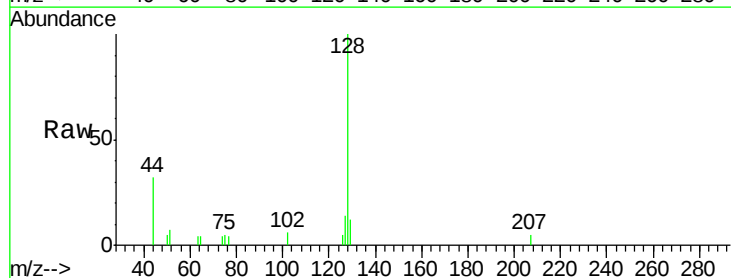
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021IW454-180628DL

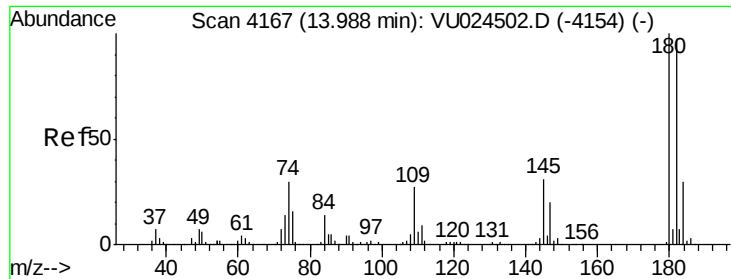
Tot Ion:180 Resp: 980
 Ion Ratio Lower Upper
 180 100
 182 110.0 48.0 144.2
 145 30.2 14.7 44.1



#95
 Naphthalene
 Concen: 1.353 ug/l
 RT: 13.75 min Scan# 4094
 Delta R.T. 0.01 min
 Lab File: VU025255.D
 Acq: 06 Jul 2018 21:19

Tgt Ion:128 Resp: 7095
 Ion Ratio Lower Upper
 128 100
 127 10.8 10.6 16.0
 129 8.7 8.6 12.8

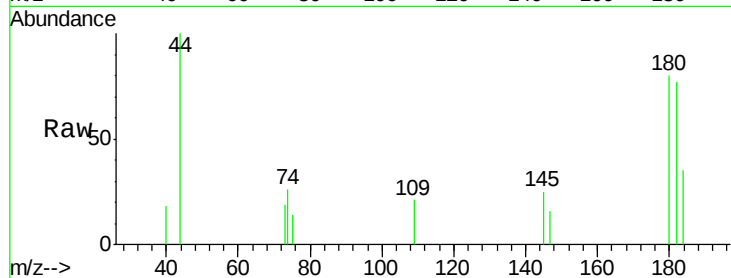




#96
 1,2,3-Trichlorobenzene
 Concen: 0.384 ug/l
 RT: 13.99 min Scan# 4168
 Delta R.T. 0.00 min
 Lab File: VU025255.D
 Acq: 06 Jul 2018 21:19

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021IW454-180628DL

Tot Ion:180 Resp: 1202
 Ion Ratio Lower Upper
 180 100
 182 105.3 47.9 143.7
 145 33.2 15.4 46.1



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

