

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU063018\
 Data File : VU025095.D
 Acq On : 30 Jun 2018 18:00
 Operator : MD/SY
 Sample : J3759-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW349-180626

Quant Time: Jul 02 05:39:38 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	212218	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	315824	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	291937	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	151136	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	162361	46.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.72%	
35) Dibromofluoromethane	4.89	113	124388	47.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.92%	
50) Toluene-d8	7.57	98	451164	47.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.38%	
62) 4-Bromofluorobenzene	10.31	95	170482	44.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.82%	

Target Compounds

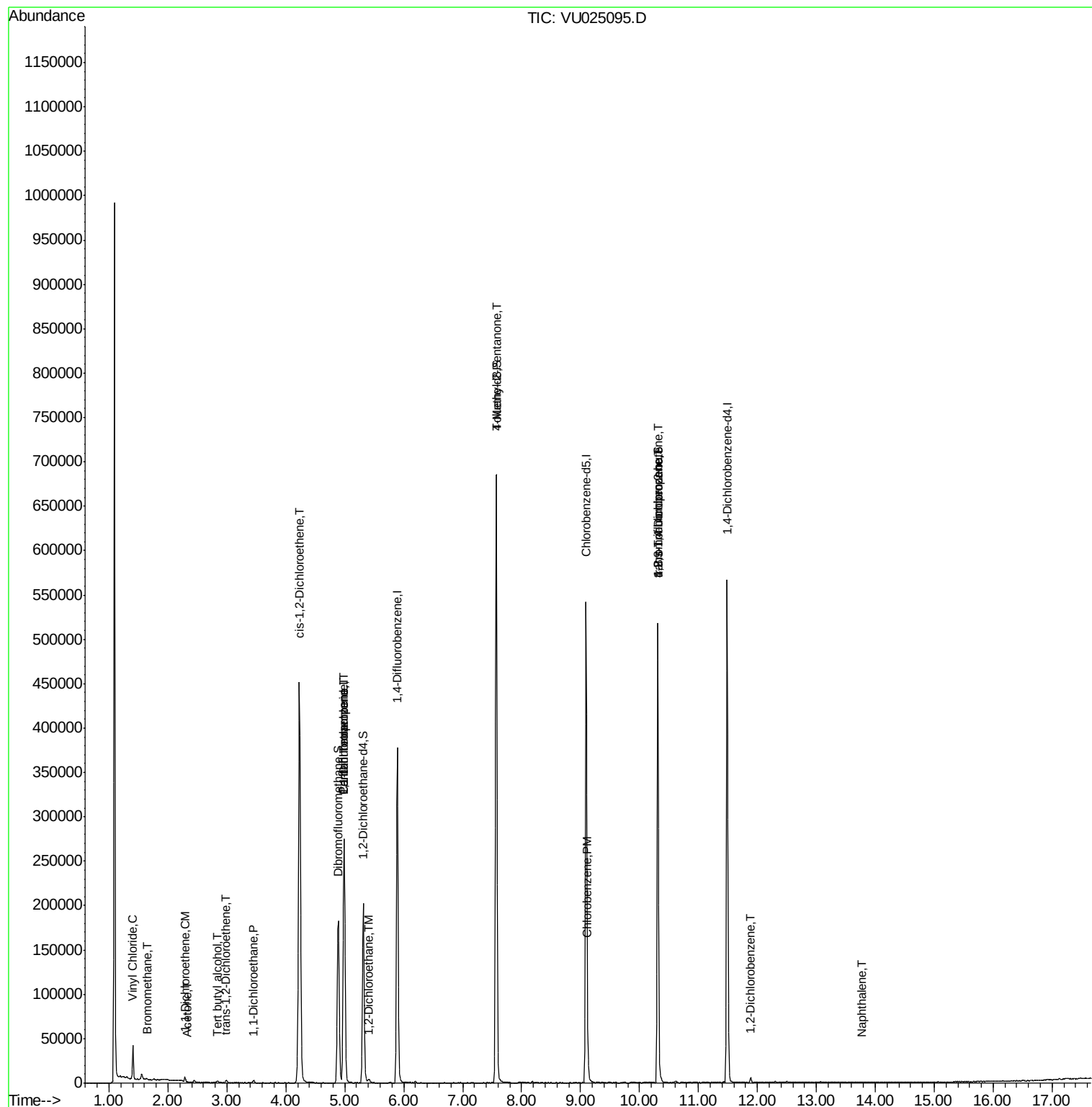
						Qvalue
4) Vinyl Chloride	1.40	62	22907	8.185	ug/l	94
5) Bromomethane	1.64	94	527	0.390	ug/l	97
11) Tert butyl alcohol	2.84	59	1352	1.605	ug/l #	72
12) 1,1-Dichloroethene	2.29	96	1781	0.737	ug/l	95
16) Acetone	2.33	43	785	0.422	ug/l #	44
21) trans-1,2-Dichloroethene	2.99	96	1349	0.507	ug/l	92
24) 1,1-Dichloroethane	3.45	63	3645	0.712	ug/l #	83
27) cis-1,2-Dichloroethene	4.23	96	254825	83.283	ug/l	88
31) Cyclohexane	4.99	56	4140	Below Cal	#	9
36) 1,1-Dichloropropene	4.99	75	15587	4.200	ug/l #	51
38) Carbon Tetrachloride	4.99	117	20746	5.084	ug/l #	16
42) 1,2-Dichloroethane	5.42	62	2855	0.709	ug/l	89
51) 4-Methyl-2-Pentanone	7.56	43	1839	0.419	ug/l #	1
65) Chlorobenzene	9.12	112	15228	2.042	ug/l	93
76) 1,2,3-Trichloropropane	10.31	75	89650	26.942	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	89650	62.356	ug/l #	100
91) 1,2-Dichlorobenzene	11.89	146	2572	0.473	ug/l	98
95) Naphthalene	13.77	128	483	0.722	ug/l #	69

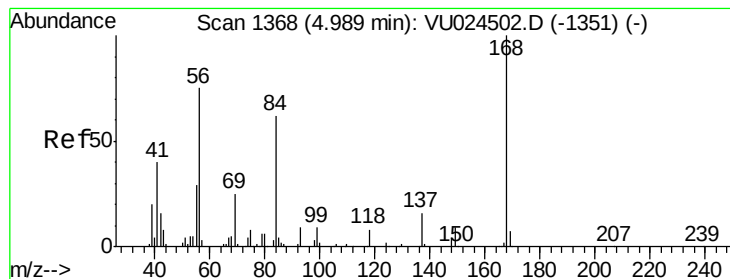
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU025095.D

Acq: 30 Jun 2018 18:00

Instrument :

MSVOA_U

ClientSampleId :

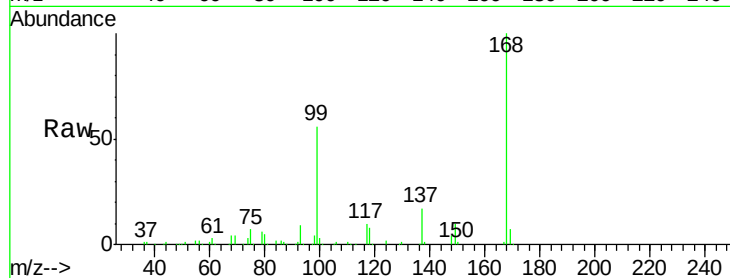
WP021MW349-180626

Tgt Ion:168 Resp: 212218

Ion Ratio Lower Upper

168 100

99 55.8 43.2 64.8



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

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

4.99

100000

80000

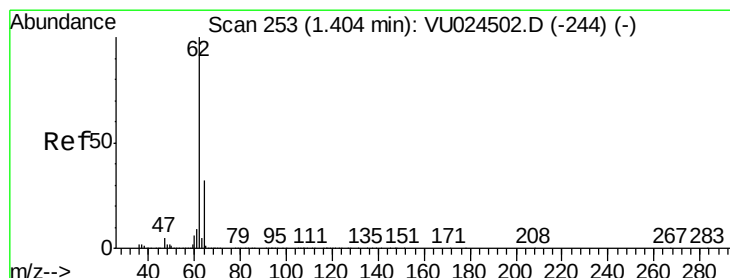
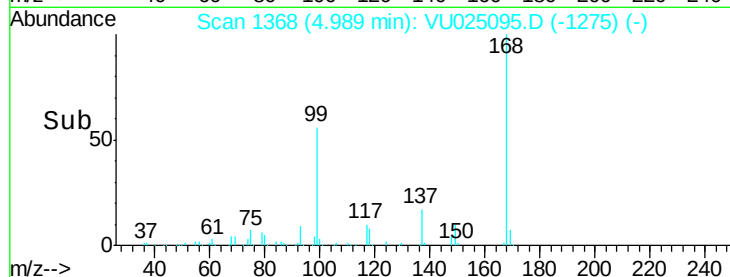
60000

40000

20000

0

Time--> 4.90 5.00 5.10



#4

Vinyl Chloride

Concen: 8.185 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025095.D

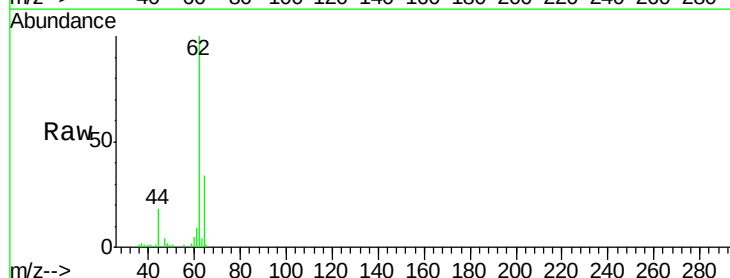
Acq: 30 Jun 2018 18:00

Tgt Ion: 62 Resp: 22907

Ion Ratio Lower Upper

62 100

64 34.3 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU024502.D (-244) (-)

Ion 63.90 (63.60 to 64.60): VU024502.D (-244) (-)

1.40

25000

20000

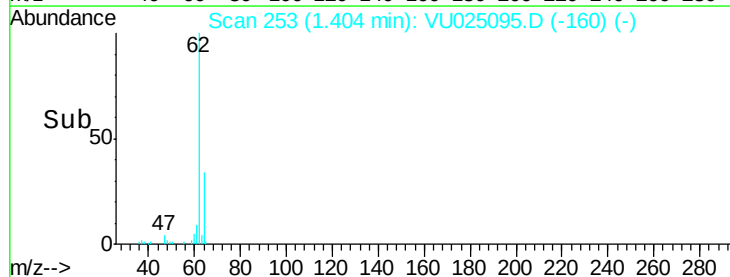
15000

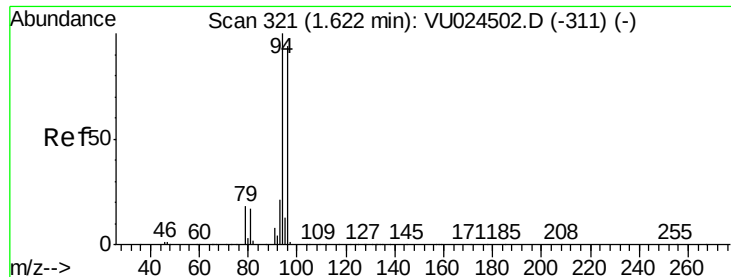
10000

5000

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: 0.390 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

Instrument :

MSVOA_U

ClientSampleId :

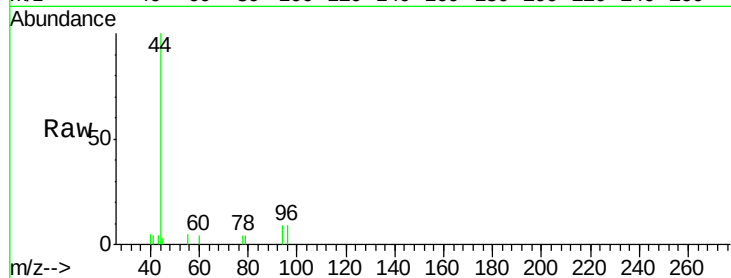
WP021MW349-180626

Tgt Ion: 94 Resp: 527

Ion Ratio Lower Upper

94 100

96 95.6 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.64

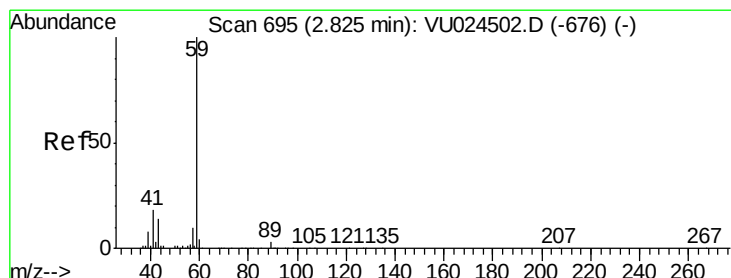
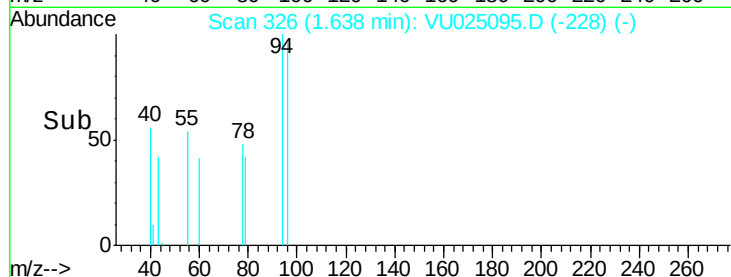
300

200

100

0

Time-->



#11

Tert butyl alcohol

Concen: 1.605 ug/l

RT: 2.84 min Scan# 700

Delta R.T. 0.02 min

Lab File: VU025095.D

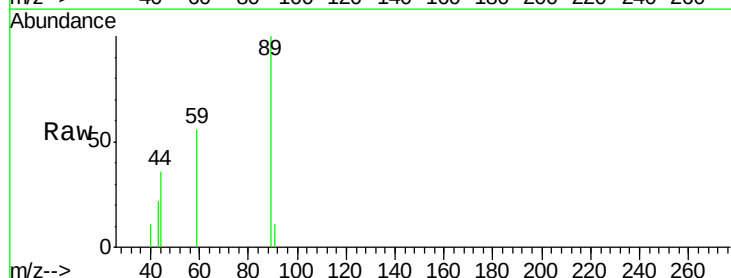
Acq: 30 Jun 2018 18:00

Tgt Ion: 59 Resp: 1352

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

2.84

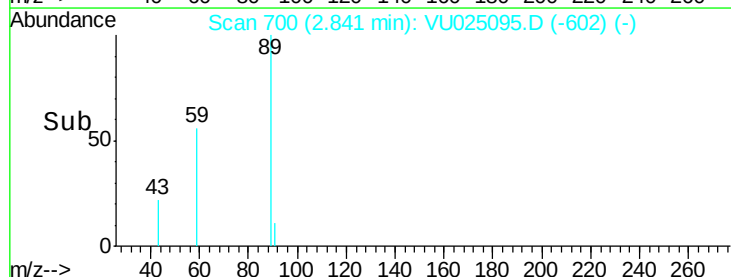
600

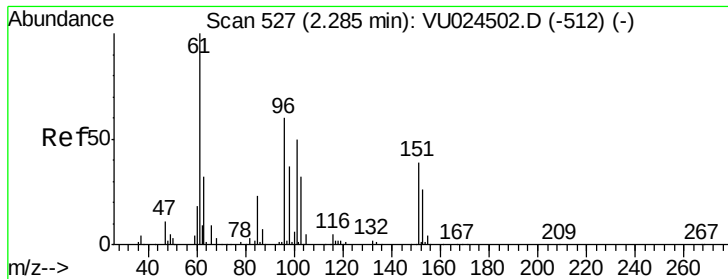
400

200

0

Time-->





#12

1,1-Dichloroethene

Concen: 0.737 ug/l

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

Instrument :

MSVOA_U

ClientSampleId :

WP021MW349-180626

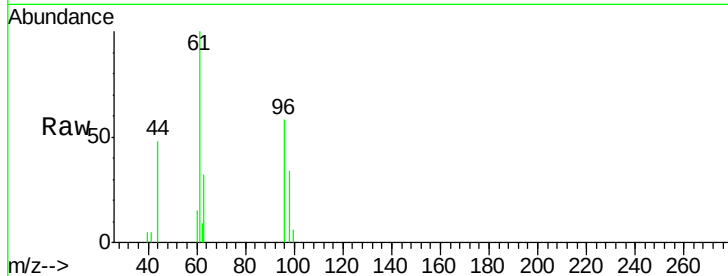
Tgt Ion: 96 Resp: 1781

Ion Ratio Lower Upper

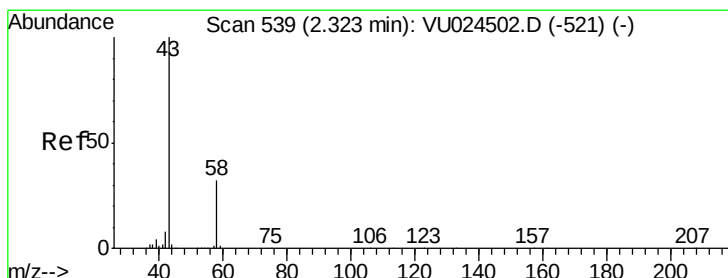
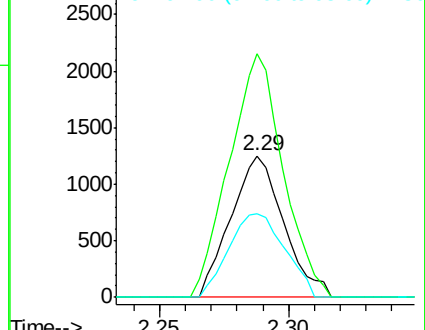
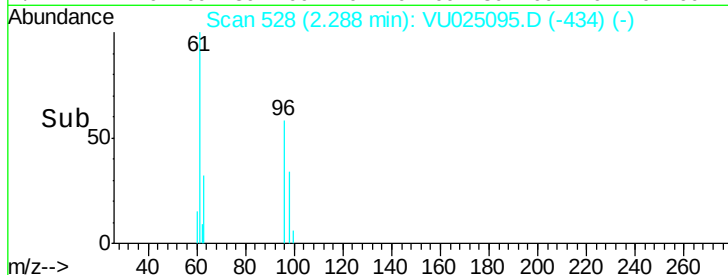
96 100

61 171.7 141.7 212.5

98 58.7 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VU025095.D (-434) (-)



#16

Acetone

Concen: 0.422 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU025095.D

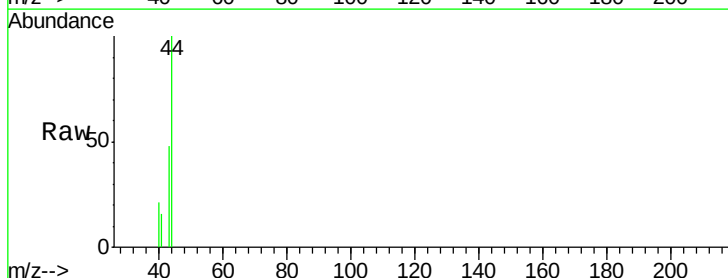
Acq: 30 Jun 2018 18:00

Tgt Ion: 43 Resp: 785

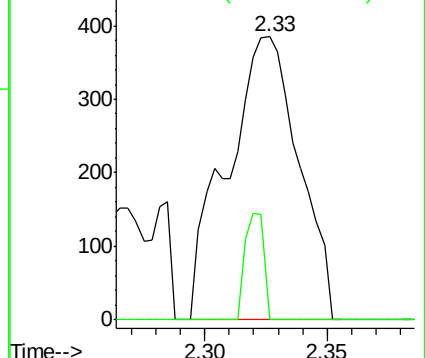
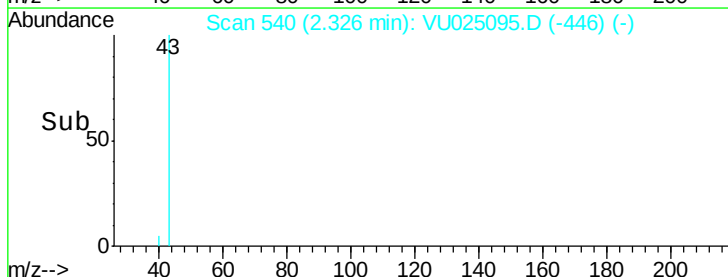
Ion Ratio Lower Upper

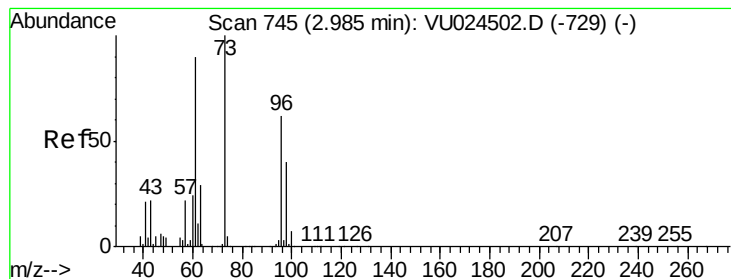
43 100

58 0.0 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU025095.D (-446) (-)





#21

trans-1,2-Dichloroethene

Concen: 0.507 ug/l

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

Instrument :

MSVOA_U

ClientSampleId :

WP021MW349-180626

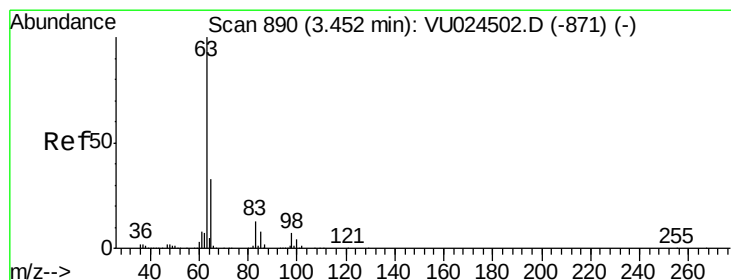
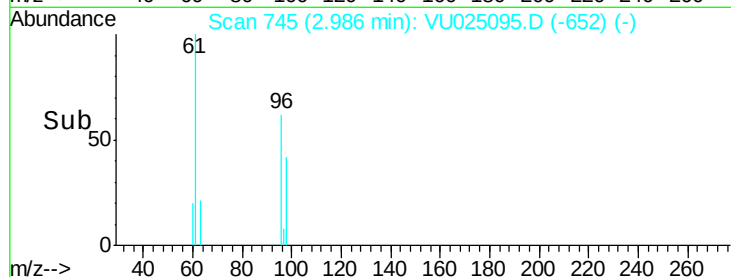
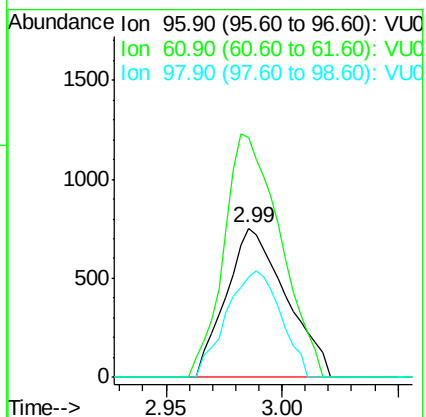
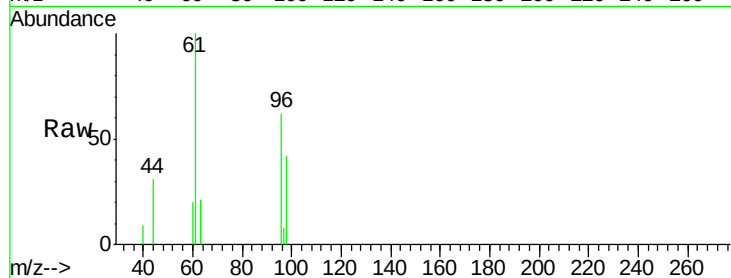
Tgt Ion: 96 Resp: 1349

Ion Ratio Lower Upper

96 100

61 161.3 119.4 179.0

98 67.7 51.1 76.7



#24

1,1-Dichloroethane

Concen: 0.712 ug/l

RT: 3.45 min Scan# 890

Delta R.T. 0.00 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

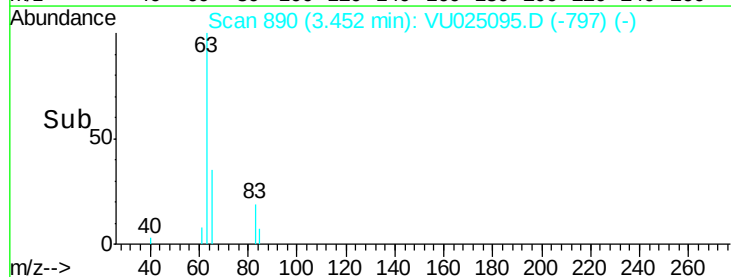
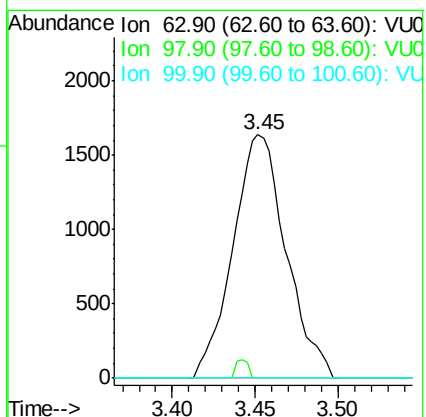
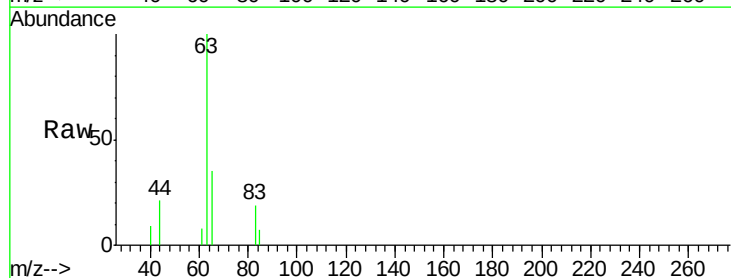
Tgt Ion: 63 Resp: 3645

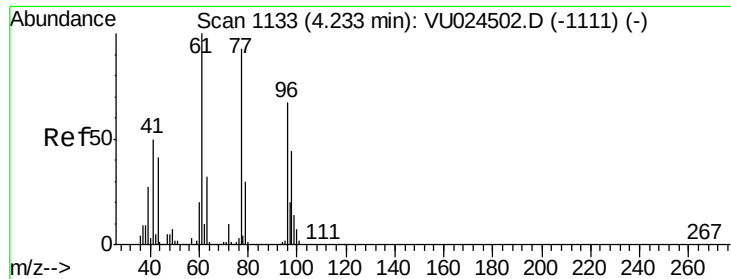
Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

100 0.0 1.8 5.5#





#27

cis-1,2-Dichloroethene

Concen: 83.283 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

Instrument :

MSVOA_U

ClientSampleId :

WP021MW349-180626

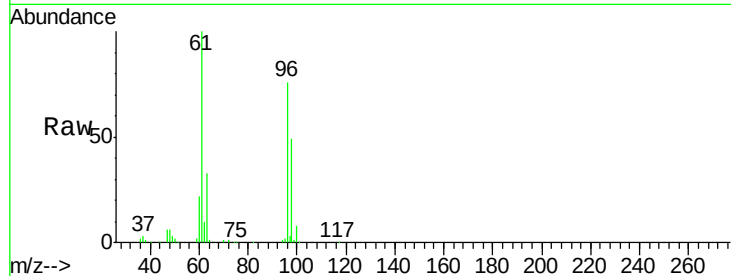
Tgt Ion: 96 Resp: 254825

Ion Ratio Lower Upper

96 100

61 132.1 0.0 306.6

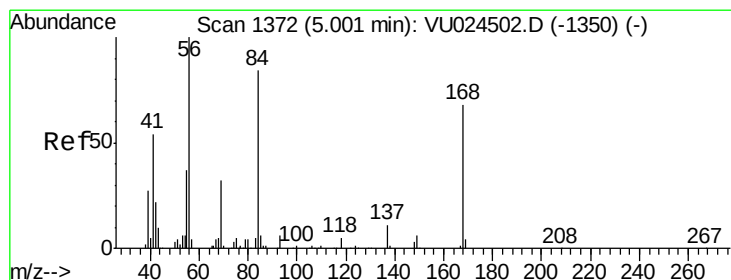
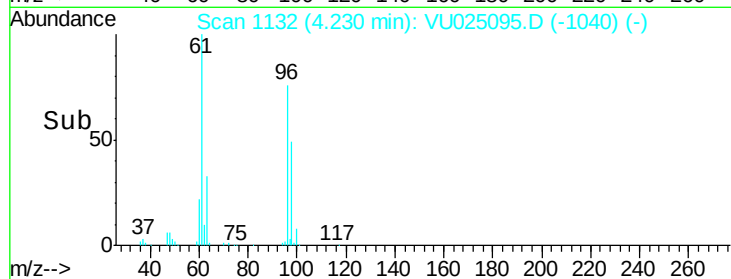
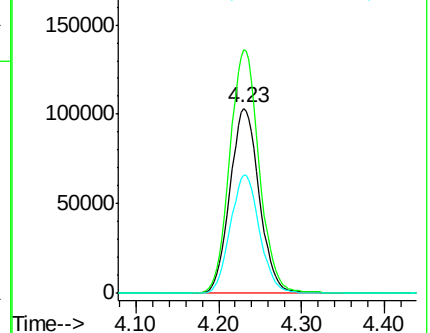
98 63.8 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VU024502.D (-1111) (-)

Ion 60.90 (60.60 to 61.60): VU024502.D (-1111) (-)

Ion 97.90 (97.60 to 98.60): VU024502.D (-1111) (-)



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

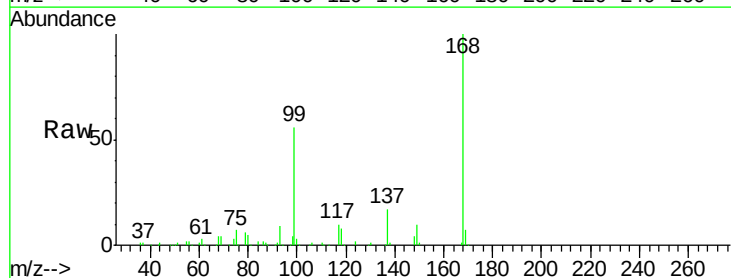
Tgt Ion: 56 Resp: 4140

Ion Ratio Lower Upper

56 100

69 167.5 24.8 37.2#

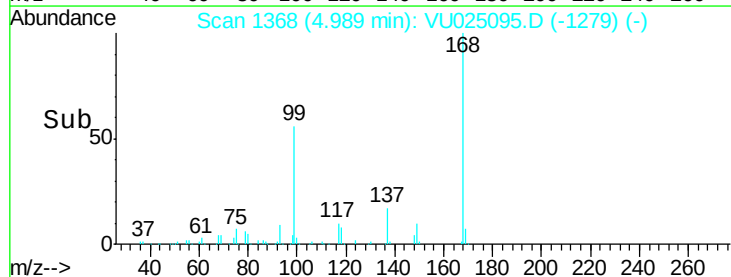
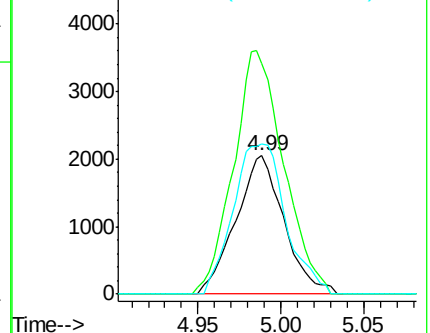
84 109.1 65.2 97.8#

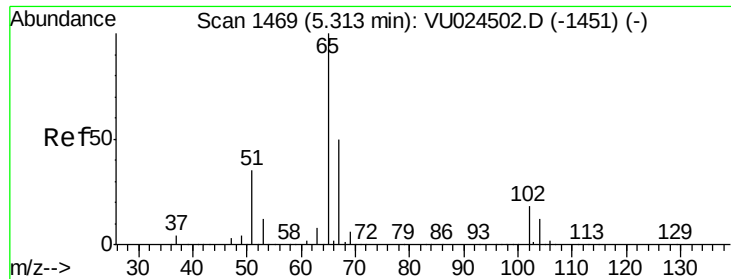


Abundance Ion 56.00 (55.70 to 56.70): VU024502.D (-1350) (-)

Ion 69.00 (68.70 to 69.70): VU024502.D (-1350) (-)

Ion 84.00 (83.70 to 84.70): VU024502.D (-1350) (-)

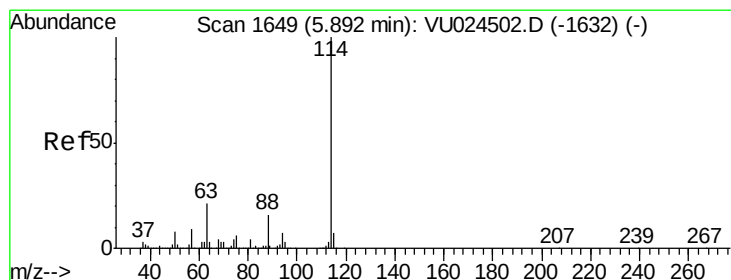
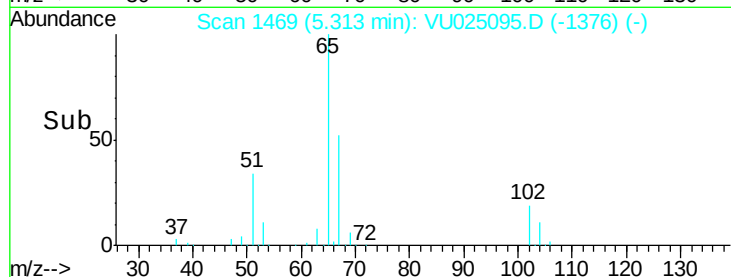
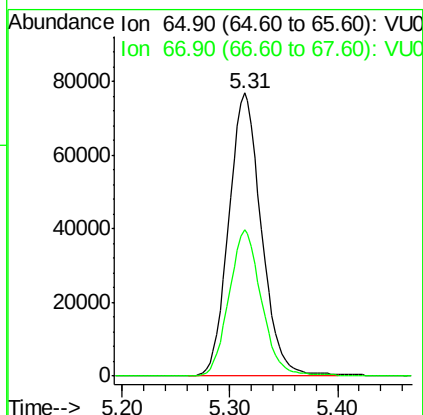
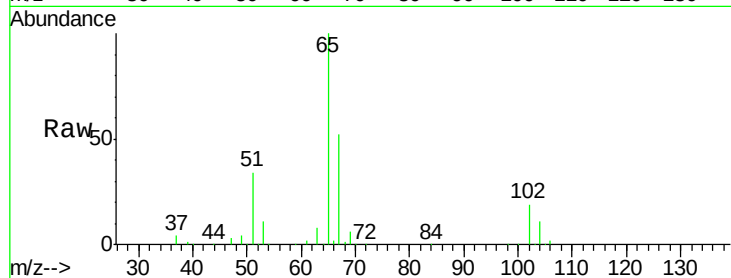




#33
 1,2-Dichloroethane-d4
 Concen: 46.864 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025095.D
 Acq: 30 Jun 2018 18:00

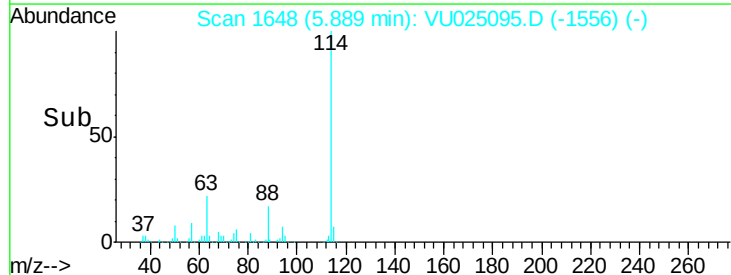
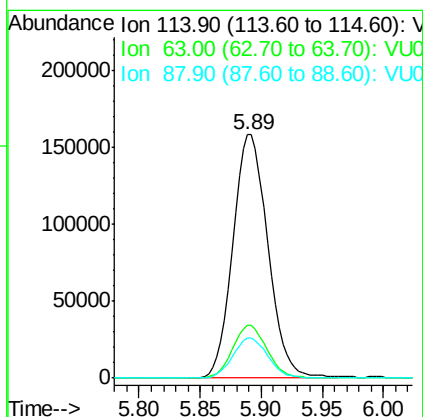
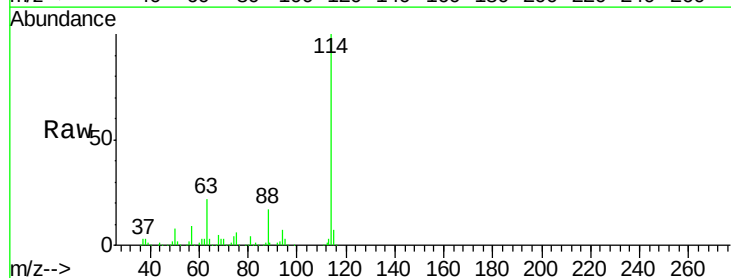
Instrument :
 MSVOA_U
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 WP021MW349-180626

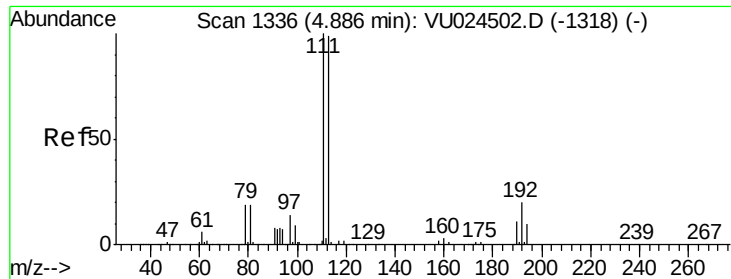
Tgt Ion: 65 Resp: 162361
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU025095.D
 Acq: 30 Jun 2018 18:00

Tgt Ion: 114 Resp: 315824
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 45.4
 88 16.6 0.0 31.0

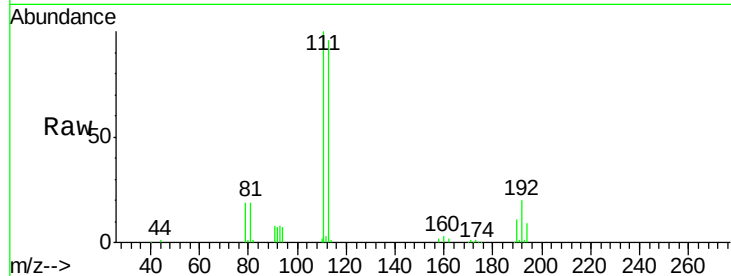




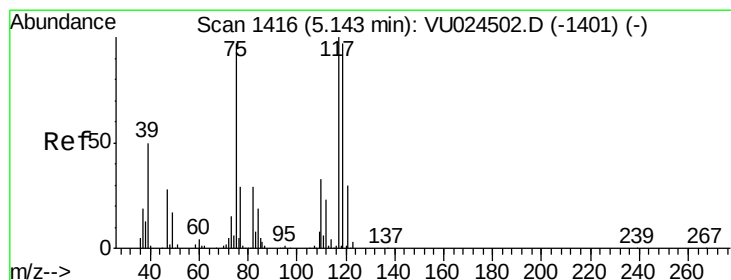
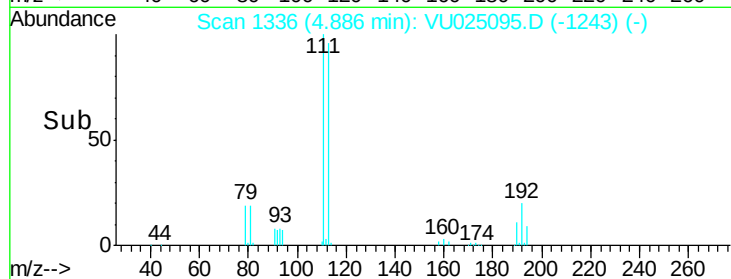
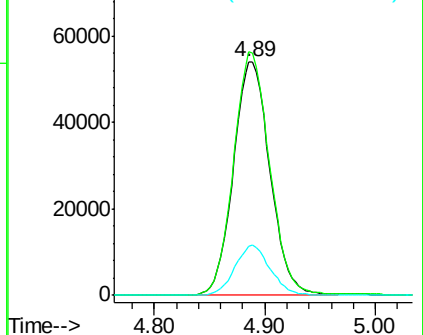
#35
 Dibromofluoromethane
 Concen: 47.456 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU025095.D
 Acq: 30 Jun 2018 18:00

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW349-180626

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.2	123.4
192	20.8	16.2	24.4

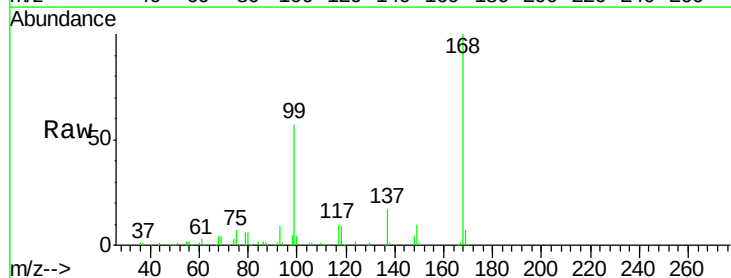


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

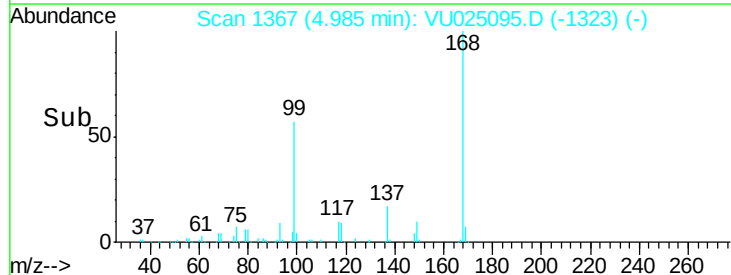
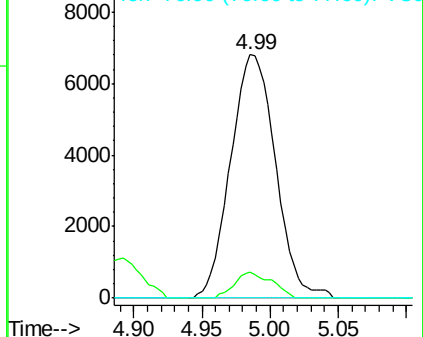


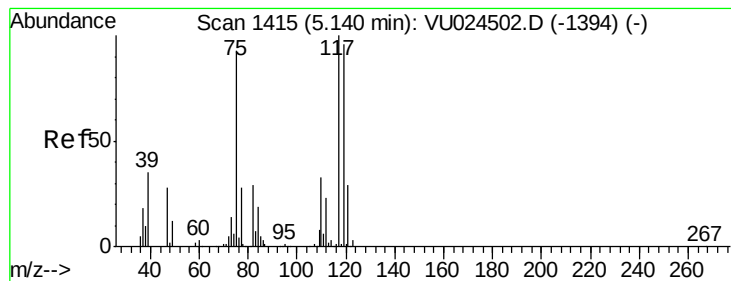
#36
 1,1-Dichloropropene
 Concen: 4.200 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025095.D
 Acq: 30 Jun 2018 18:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	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: 5.084 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

Instrument :

MSVOA_U

ClientSampleId :

WP021MW349-180626

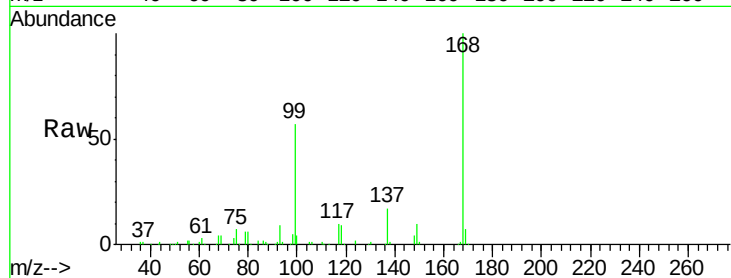
Tgt Ion:117 Resp: 20746

Ion Ratio Lower Upper

117 100

119 4.5 76.1 114.1#

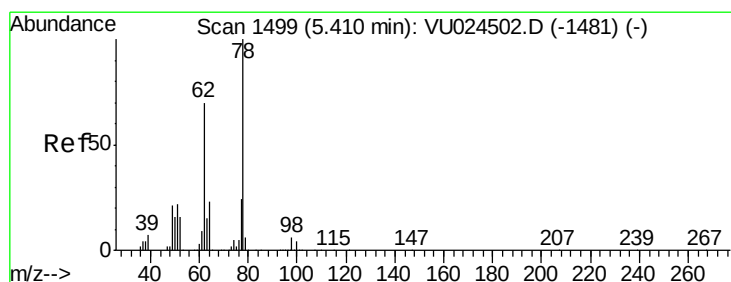
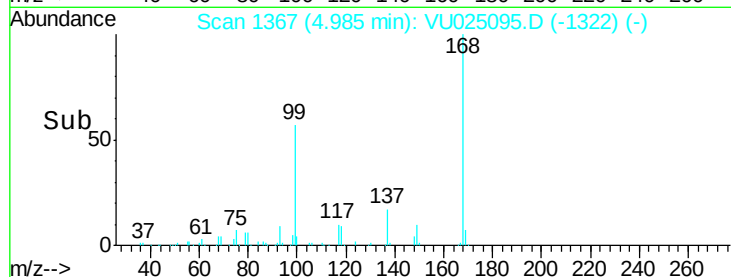
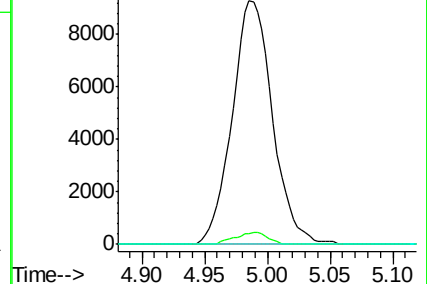
121 0.0 23.7 35.5#



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



#42

1,2-Dichloroethane

Concen: 0.709 ug/l

RT: 5.42 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VU025095.D

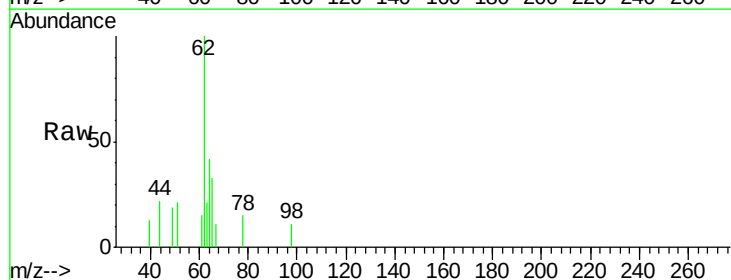
Acq: 30 Jun 2018 18:00

Tgt Ion: 62 Resp: 2855

Ion Ratio Lower Upper

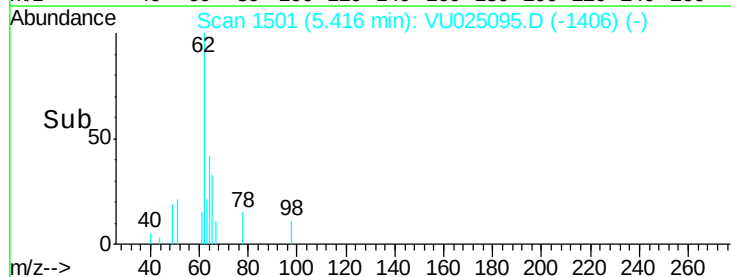
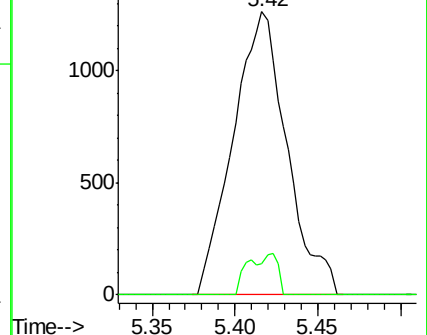
62 100

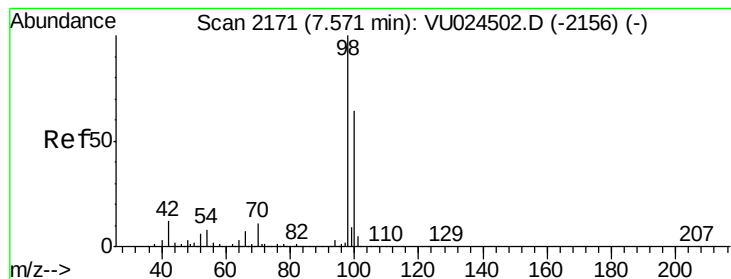
98 4.4 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#50

Toluene-d8

Concen: 47.189 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

Instrument :

MSVOA_U

ClientSampleId :

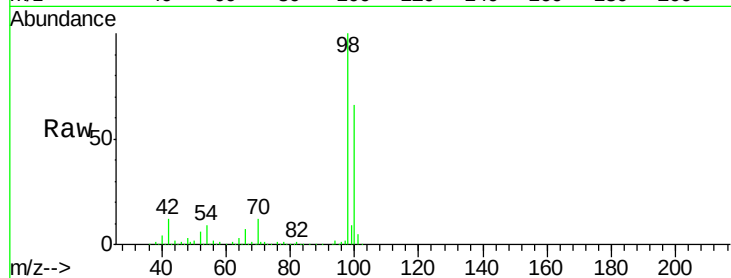
WP021MW349-180626

Tgt Ion: 98 Resp: 451164

Ion Ratio Lower Upper

98 100

100 64.6 51.1 76.7



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

Ion 100.00 (99.70 to 100.70): VU024502.D (-2156) (-)

7.57

250000

200000

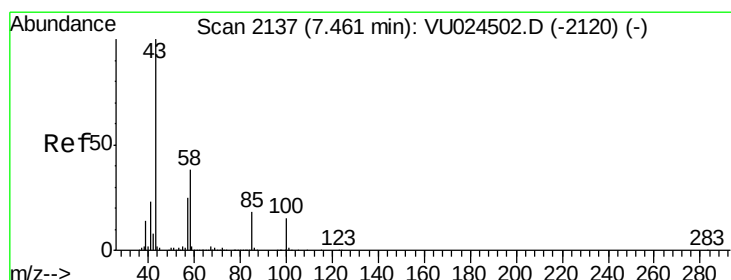
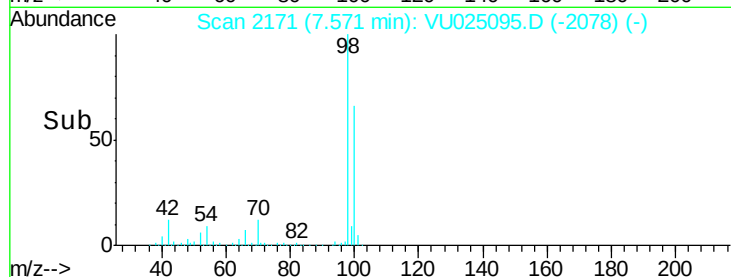
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.419 ug/l

RT: 7.56 min Scan# 2169

Delta R.T. 0.10 min

Lab File: VU025095.D

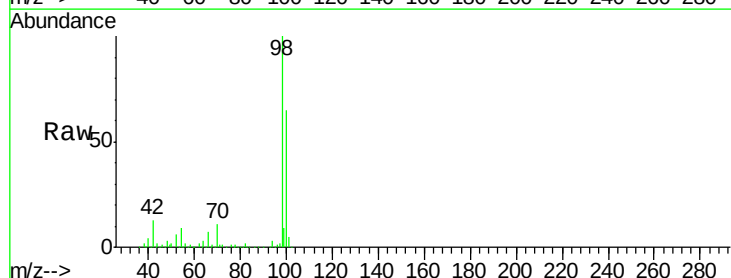
Acq: 30 Jun 2018 18:00

Tgt Ion: 43 Resp: 1839

Ion Ratio Lower Upper

43 100

58 198.7 30.0 45.0#



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

Ion 58.00 (57.70 to 58.70): VU024502.D (-2120) (-)

2500

2000

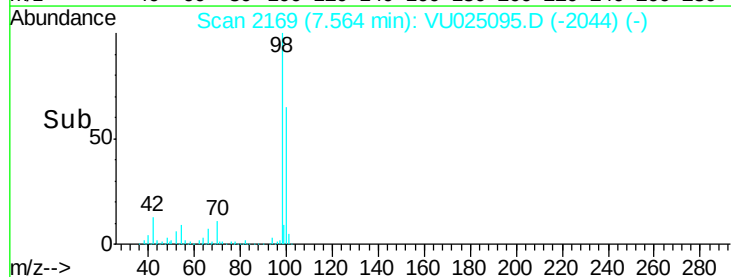
1500

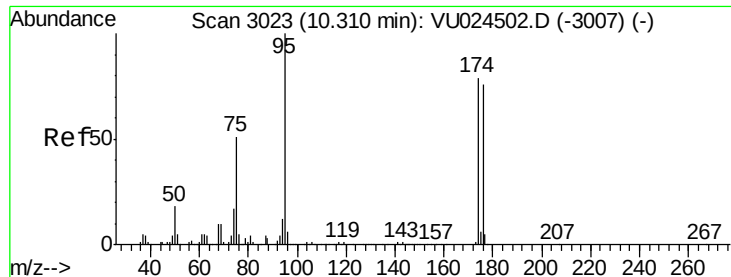
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 44.911 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

Instrument :

MSVOA_U

ClientSampleId :

WP021MW349-180626

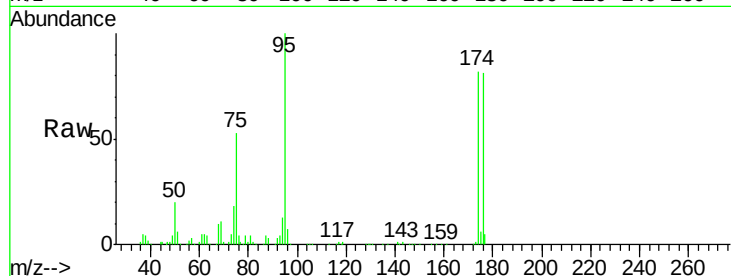
Tgt Ion: 95 Resp: 170482

Ion Ratio Lower Upper

95 100

174 83.5 0.0 165.8

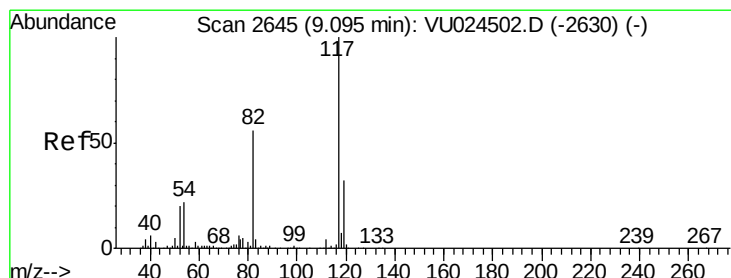
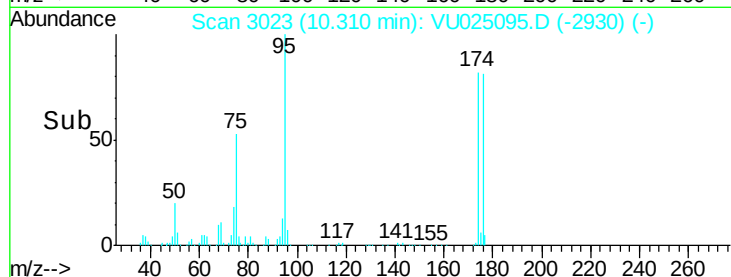
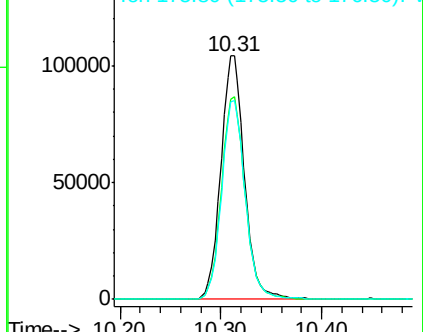
176 82.0 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU024502.D (-3007) (-)

Ion 173.80 (173.50 to 174.50): VU024502.D (-3007) (-)

Ion 175.80 (175.50 to 176.50): VU024502.D (-3007) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

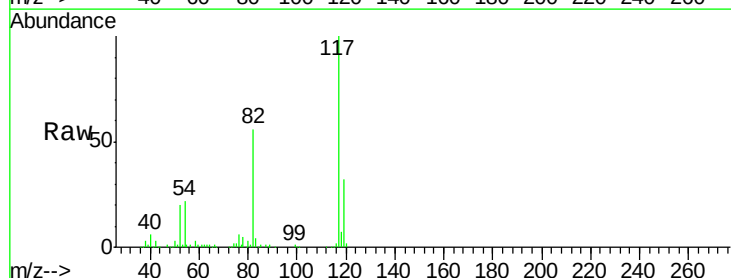
Tgt Ion: 117 Resp: 291937

Ion Ratio Lower Upper

117 100

82 56.2 44.3 66.5

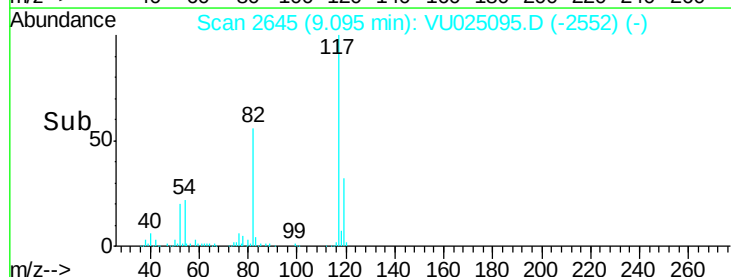
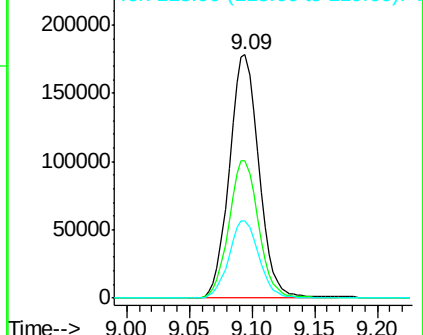
119 31.8 25.4 38.2

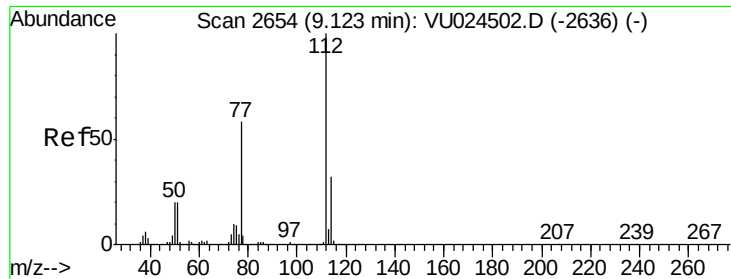


Abundance Ion 116.90 (116.60 to 117.60): VU024502.D (-2630) (-)

Ion 82.00 (81.70 to 82.70): VU024502.D (-2630) (-)

Ion 118.90 (118.60 to 119.60): VU024502.D (-2630) (-)





#65

Chlorobenzene

Concen: 2.042 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

Instrument :

MSVOA_U

ClientSampleId :

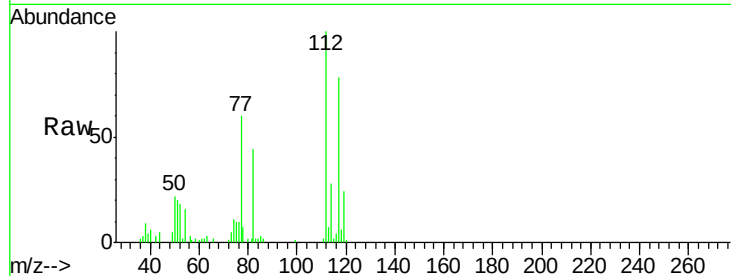
WP021MW349-180626

Tgt Ion:112 Resp: 15228

Ion Ratio Lower Upper

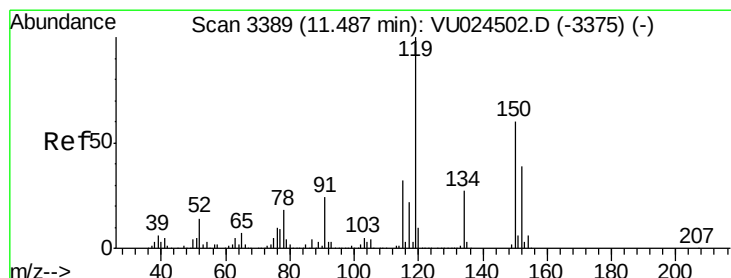
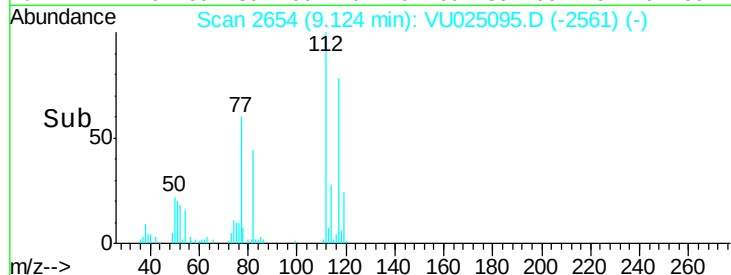
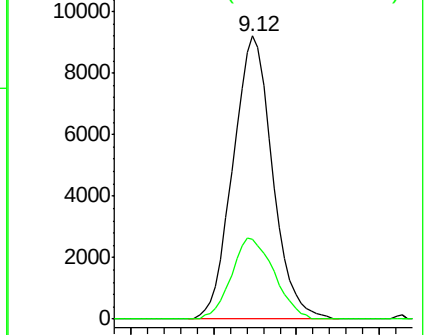
112 100

114 28.4 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

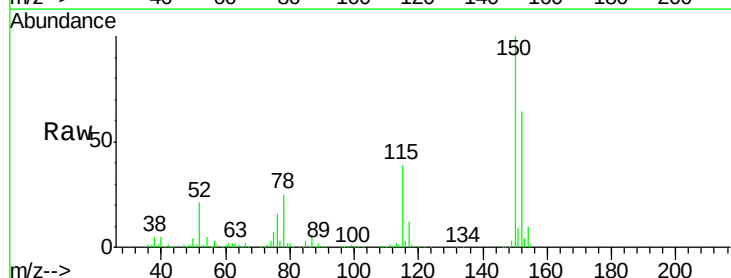
Tgt Ion:152 Resp: 151136

Ion Ratio Lower Upper

152 100

115 59.4 43.0 129.0

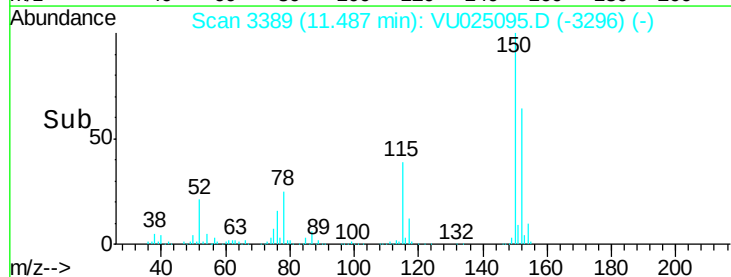
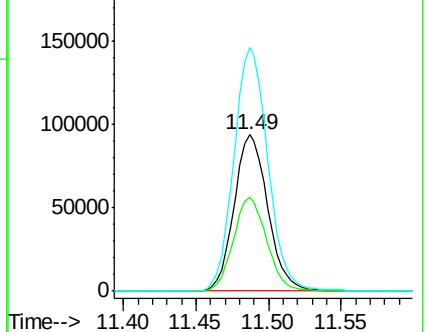
150 157.1 0.0 354.0

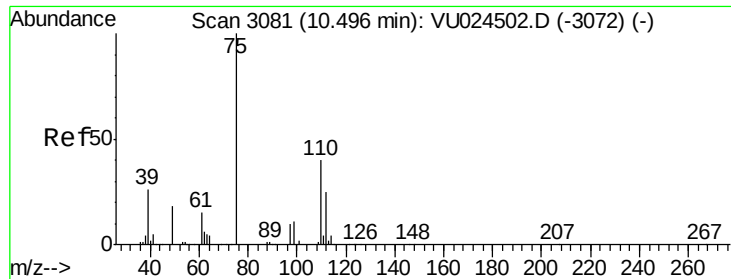


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.942 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

Instrument :

MSVOA_U

ClientSampleId :

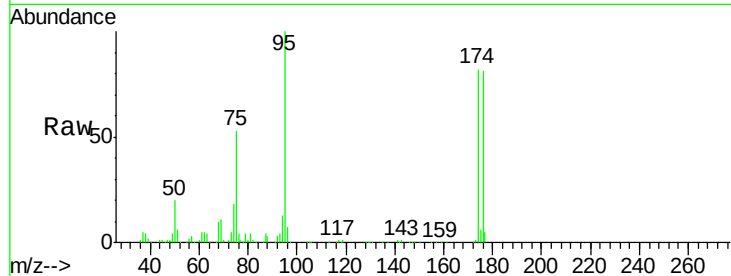
WP021MW349-180626

Tgt Ion: 75 Resp: 89650

Ion Ratio Lower Upper

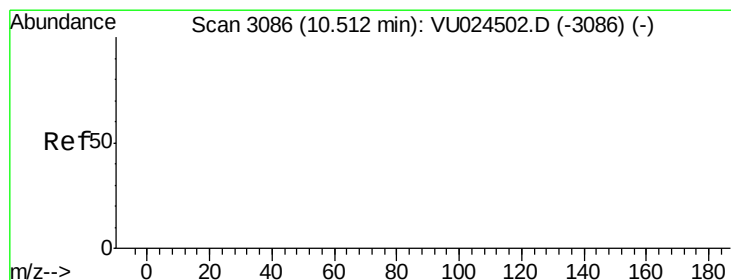
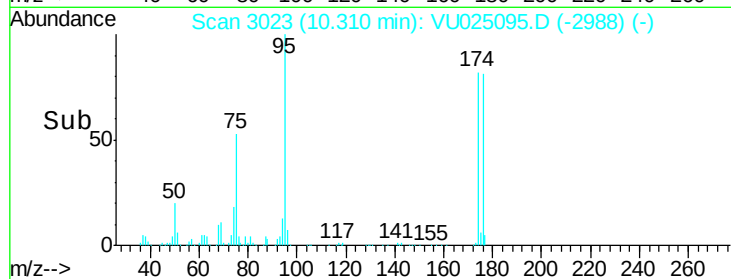
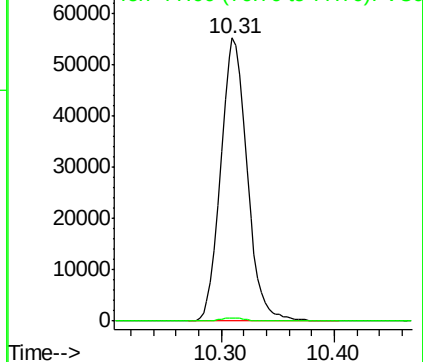
75 100

77 1.0 20.9 62.7#



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: 62.356 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

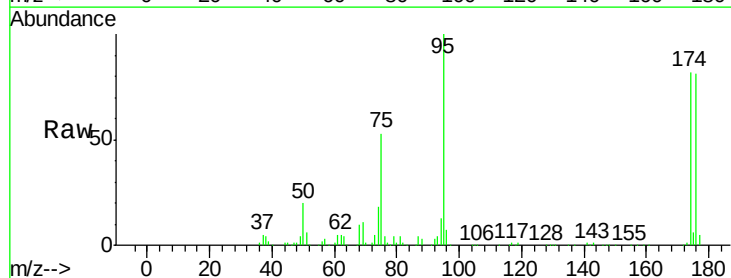
Tgt Ion: 75 Resp: 89650

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

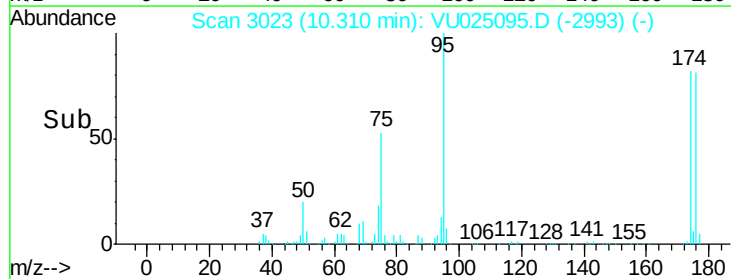
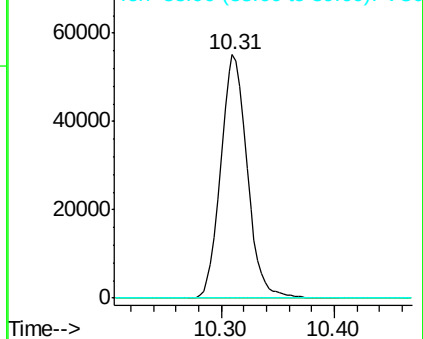
89 0.0 0.0 0.0

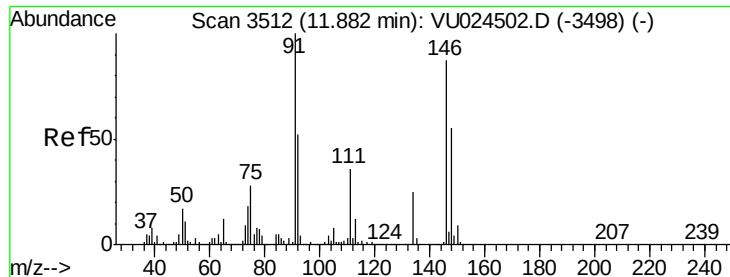


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#91

1,2-Dichlorobenzene

Concen: 0.473 ug/l

RT: 11.89 min Scan# 3514

Delta R.T. 0.01 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

Instrument :

MSVOA_U

ClientSampleId :

WP021MW349-180626

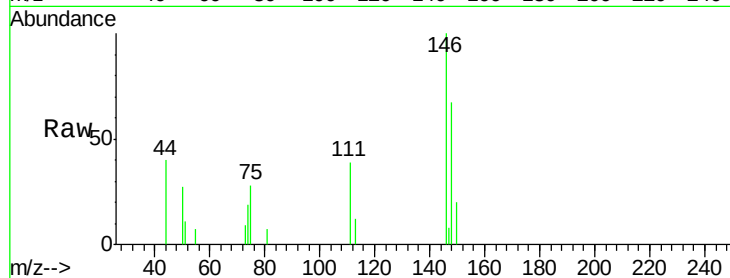
Tgt Ion:146 Resp: 2572

Ion Ratio Lower Upper

146 100

111 40.6 20.5 61.6

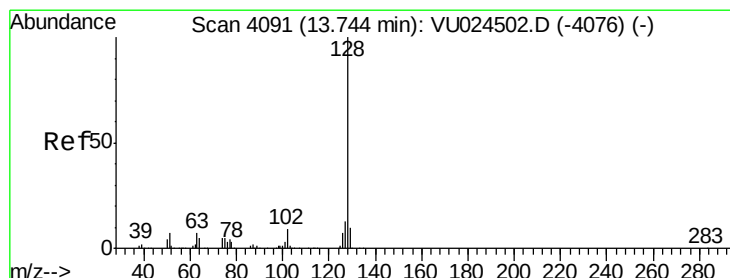
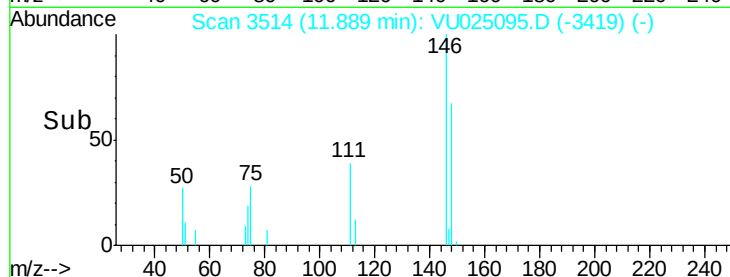
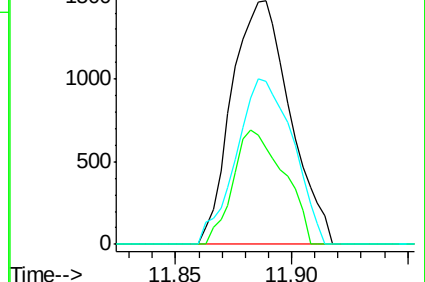
148 66.0 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 0.722 ug/l

RT: 13.77 min Scan# 4098

Delta R.T. 0.02 min

Lab File: VU025095.D

Acq: 30 Jun 2018 18:00

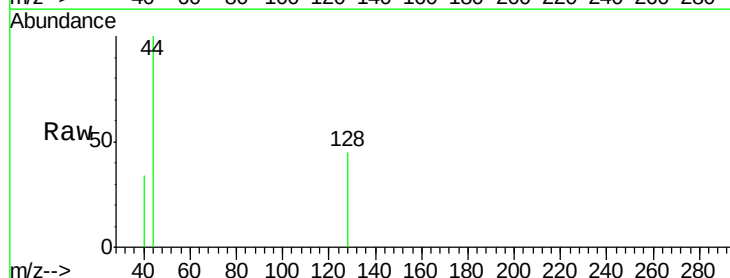
Tgt Ion:128 Resp: 483

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

