

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062718\
 Data File : VU024942.D
 Acq On : 27 Jun 2018 00:21
 Operator : MD/SY
 Sample : J3669-29ME
 Misc : 6.26g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB474-29-31-180620ME

Quant Time: Jun 27 04:17:47 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	4.98	168	230353	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	346753	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.10	117	329793	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	187017	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	171721	45.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.32%	
35) Dibromofluoromethane	4.89	113	133879	46.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.04%	
50) Toluene-d8	7.57	98	507519	48.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.70%	
62) 4-Bromofluorobenzene	10.32	95	194435	46.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	835	0.283	ug/l #	84
4) Vinyl Chloride	1.40	62	19909	6.554	ug/l	96
5) Bromomethane	1.62	94	851	0.579	ug/l	92
6) Chloroethane	1.72	64	164	Below Cal	#	43
8) Diethyl Ether	2.03	74	20	Below Cal	#	1
10) Methyl Iodide	2.40	142	104	5.327	ug/l #	40
11) Tert butyl alcohol	2.83	59	4722	5.163	ug/l #	72
12) 1,1-Dichloroethene	2.26	96	9931	3.786	ug/l	100
13) Acrolein	2.21	56	162	0.337	ug/l #	55
20) Methylene Chloride	2.69	84	1054	0.332	ug/l #	88
27) cis-1,2-Dichloroethene	4.22	96	379145	114.158	ug/l	89
31) Cyclohexane	4.98	56	4669	Below Cal	#	20
36) 1,1-Dichloropropene	4.98	75	16353	4.013	ug/l #	50
38) Carbon Tetrachloride	4.98	117	21796	4.864	ug/l #	15
39) Methylcyclohexane	6.18	83	6226	1.224	ug/l #	1
40) Benzene	5.39	78	3961	0.341	ug/l	94
44) Trichloroethene	6.19	130	510022	154.351	ug/l	97
45) 1,2-Dichloropropane	6.18	63	1868	0.603	ug/l #	1
51) 4-Methyl-2-Pentanone	7.57	43	2428	0.503	ug/l #	1
65) Chlorobenzene	9.13	112	35057	4.161	ug/l	96
76) 1,2,3-Trichloropropane	10.32	75	102714	24.946	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.32	75	102714	57.736	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	4276	0.633	ug/l #	67
91) 1,2-Dichlorobenzene	11.89	146	11588	1.723	ug/l	98
95) Naphthalene	13.77	128	39	0.682	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VU024942.D

Acq: 27 Jun 2018 00:21

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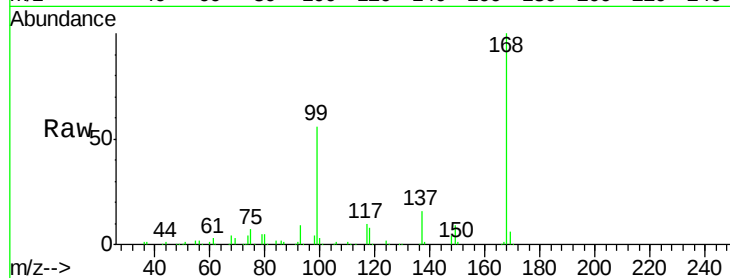
WP021SB474-29-31-180620ME

Tgt Ion:168 Resp: 230353

Ion Ratio Lower Upper

168 100

99 55.7 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) (-)

4.98

120000

100000

80000

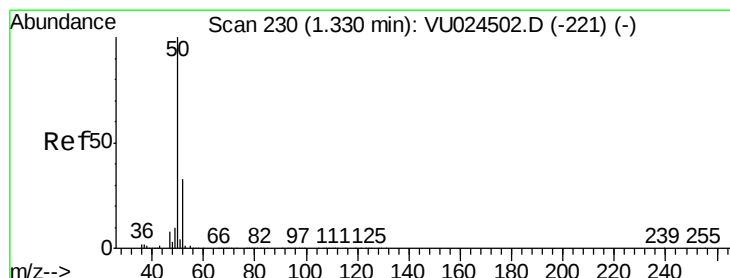
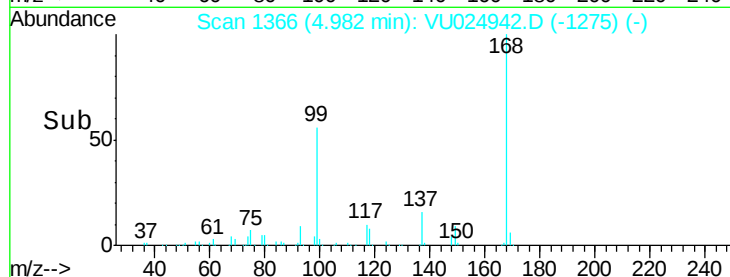
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.283 ug/l

RT: 1.32 min Scan# 228

Delta R.T. -0.01 min

Lab File: VU024942.D

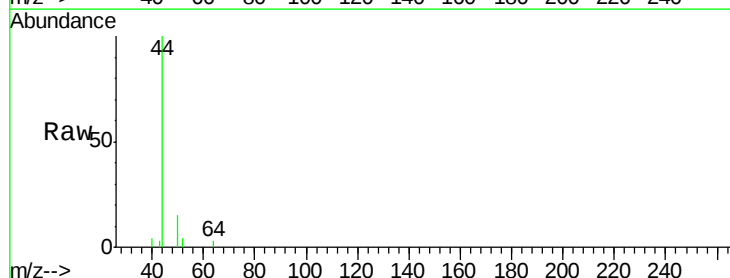
Acq: 27 Jun 2018 00:21

Tgt Ion: 50 Resp: 835

Ion Ratio Lower Upper

50 100

52 24.2 26.4 39.6#



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

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

1.32

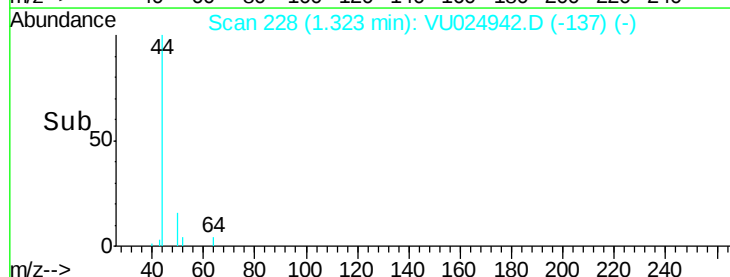
600

400

200

0

Time-->





#4

Vinyl Chloride

Concen: 6.554 ug/l

RT: 1.40 min Scan# 252

Delta R.T. -0.00 min

Lab File: VU024942.D

Acq: 27 Jun 2018 00:21

Instrument :

MSVOA_U

ClientSampleId :

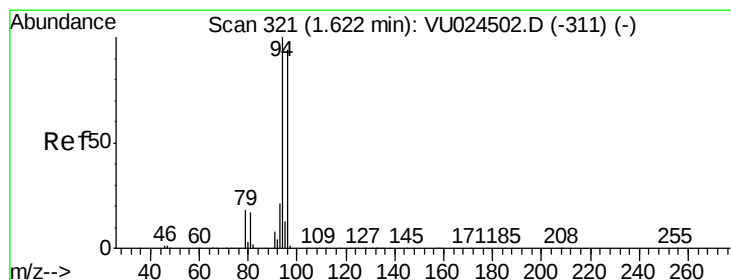
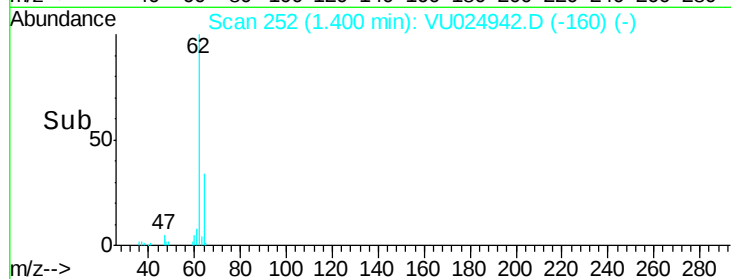
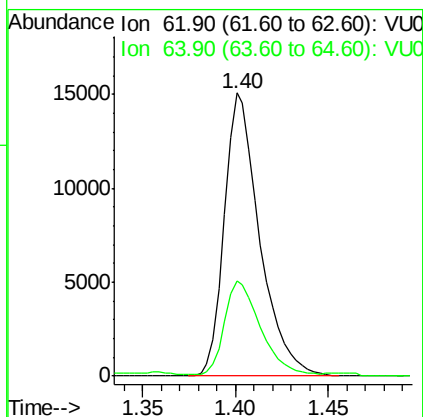
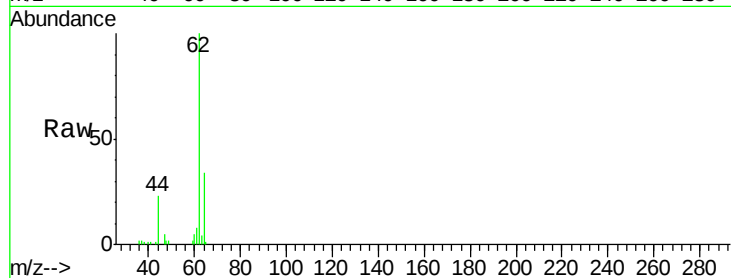
WP021SB474-29-31-180620ME

Tgt Ion: 62 Resp: 19909

Ion Ratio Lower Upper

62 100

64 33.1 24.8 37.2



#5

Bromomethane

Concen: 0.579 ug/l

RT: 1.62 min Scan# 319

Delta R.T. -0.01 min

Lab File: VU024942.D

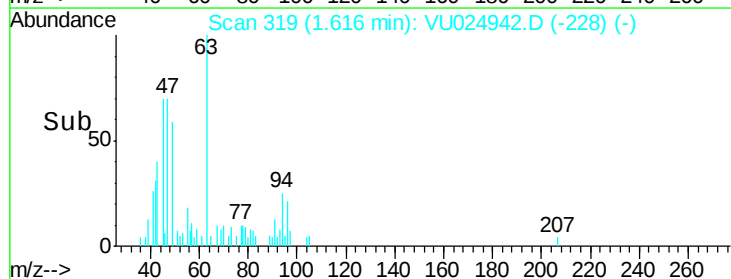
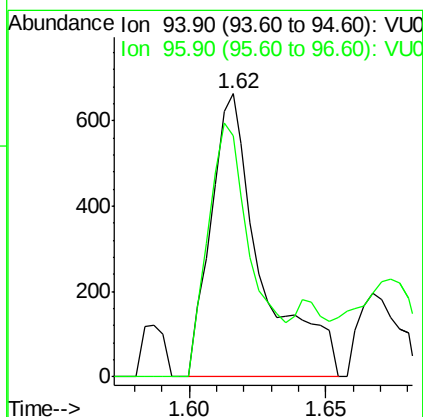
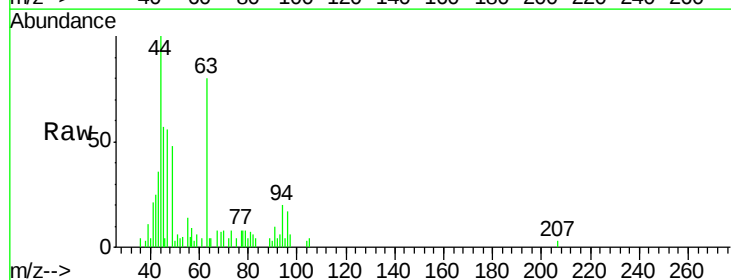
Acq: 27 Jun 2018 00:21

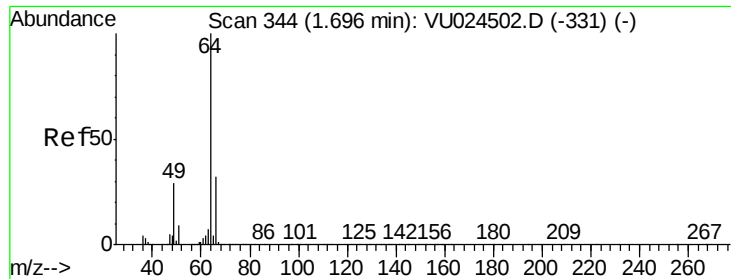
Tgt Ion: 94 Resp: 851

Ion Ratio Lower Upper

94 100

96 85.1 74.5 111.7





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 352

Delta R.T. 0.03 min

Lab File: VU024942.D

Acq: 27 Jun 2018 00:21

Instrument :

MSVOA_U

ClientSampleId :

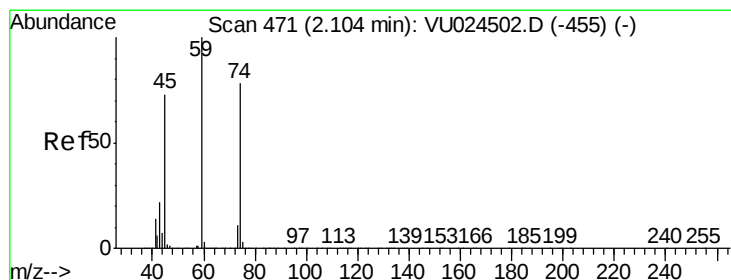
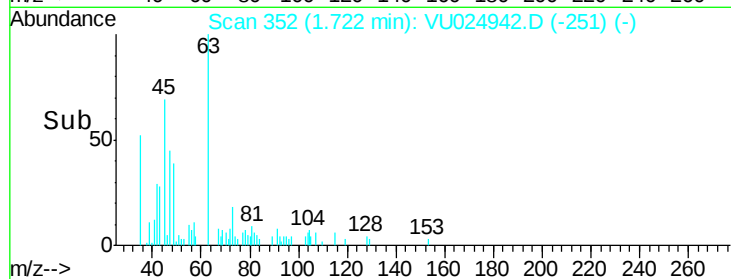
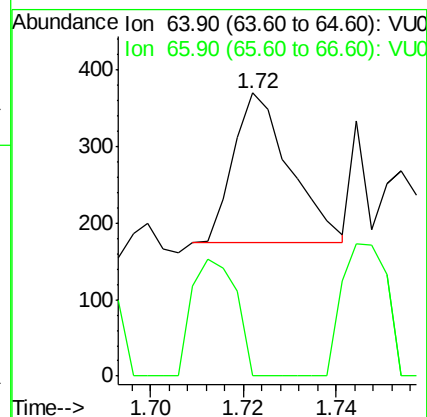
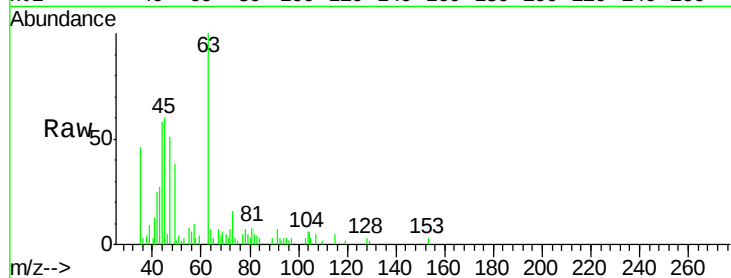
WP021SB474-29-31-180620ME

Tgt Ion: 64 Resp: 164

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.03 min Scan# 447

Delta R.T. -0.08 min

Lab File: VU024942.D

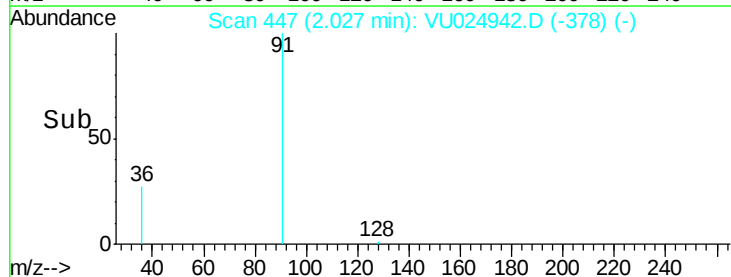
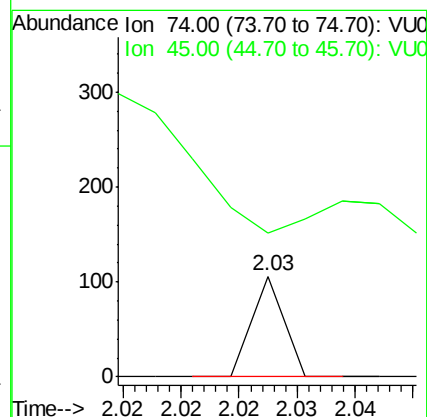
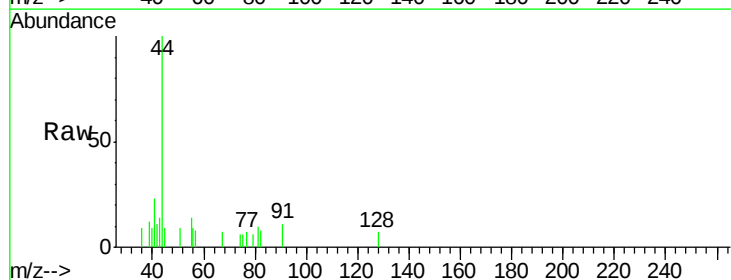
Acq: 27 Jun 2018 00:21

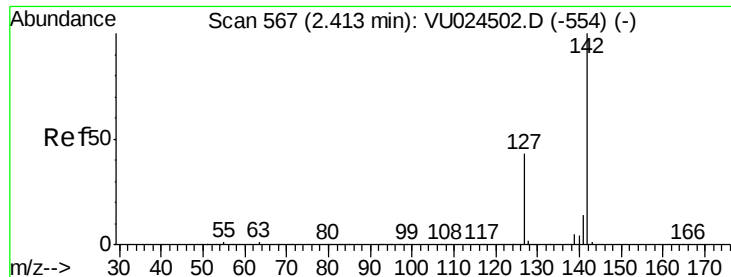
Tgt Ion: 74 Resp: 20

Ion Ratio Lower Upper

74 100

45 0.0 55.0 165.0#

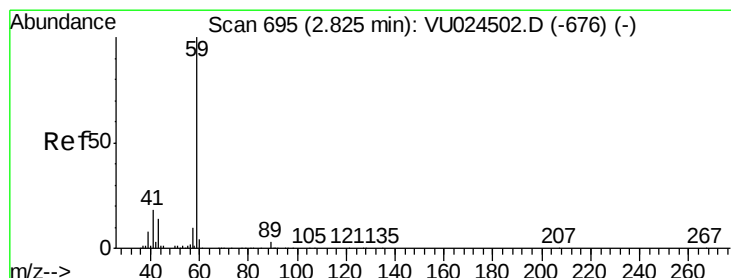
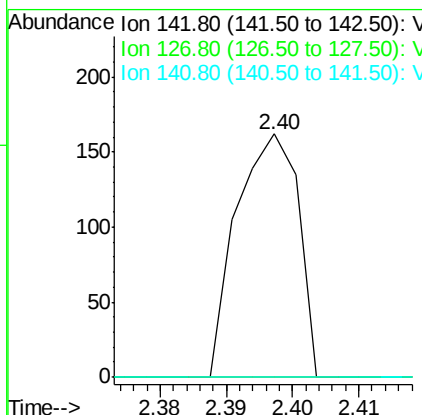
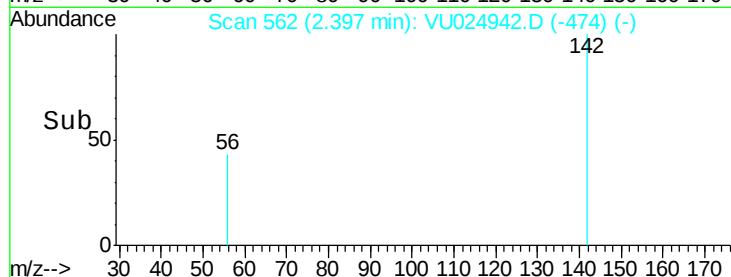
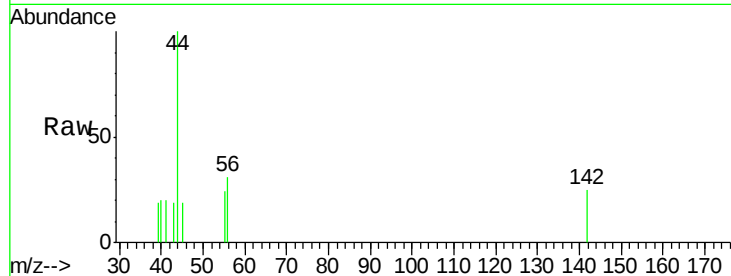




#10
Methyl Iodide
Concen: 5.327 ug/l
RT: 2.40 min Scan# 562
Delta R.T. -0.02 min
Lab File: VU024942.D
Acq: 27 Jun 2018 00:21

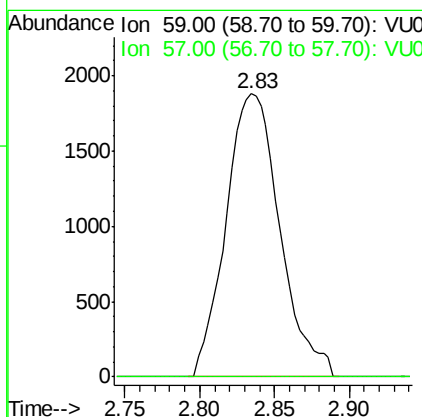
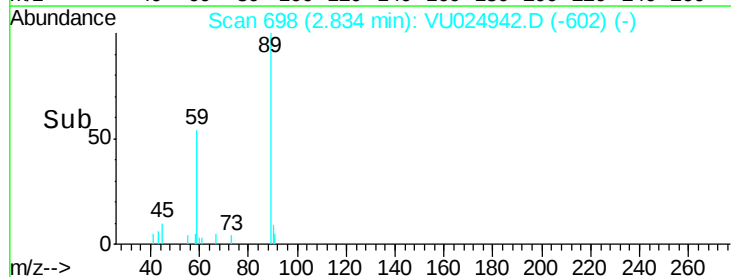
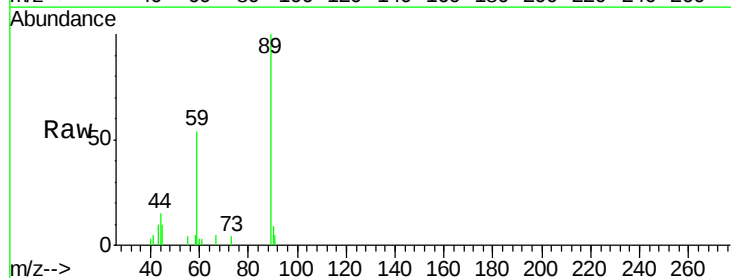
Instrument :
MSVOA_U
ClientSampleId :
WP021SB474-29-31-180620ME

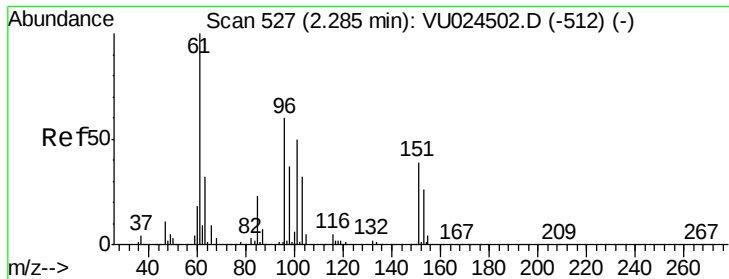
Tgt Ion:142 Resp: 104
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 5.163 ug/l
RT: 2.83 min Scan# 698
Delta R.T. 0.01 min
Lab File: VU024942.D
Acq: 27 Jun 2018 00:21

Tgt Ion: 59 Resp: 4722
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#12

1,1-Dichloroethene

Concen: 3.786 ug/l

RT: 2.26 min Scan# 519

Delta R.T. -0.03 min

Lab File: VU024942.D

Acq: 27 Jun 2018 00:21

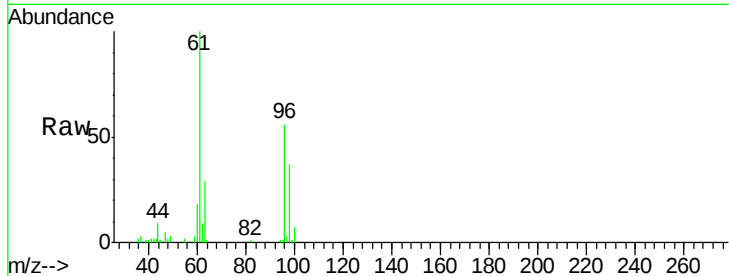
Instrument :

MSVOA_U

ClientSampleId :

WP021SB474-29-31-180620ME

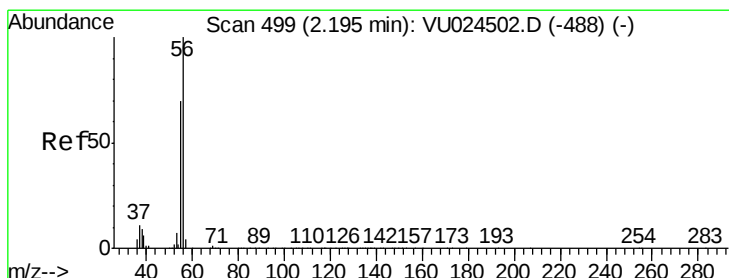
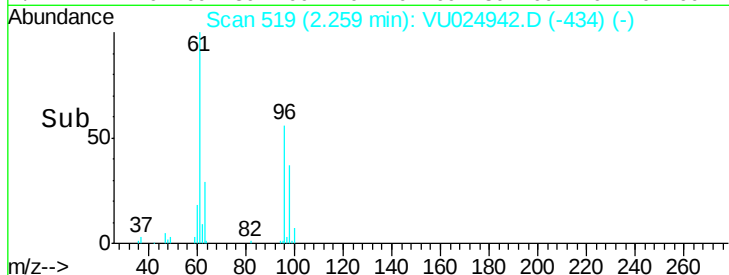
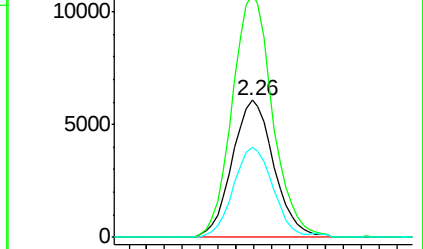
Tgt Ion:	96	Resp:	9931
Ion	Ratio	Lower	Upper
96	100		
61	177.3	141.7	212.5
98	65.5	51.6	77.4



Abundance Ion 95.90 (95.60 to 96.60): VU024942.D (-434) (-)

Ion 60.90 (60.60 to 61.60): VU024942.D (-434) (-)

Ion 97.90 (97.60 to 98.60): VU024942.D (-434) (-)



#13

Acrolein

Concen: 0.337 ug/l

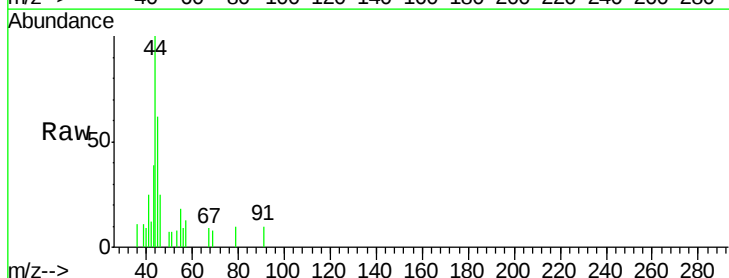
RT: 2.21 min Scan# 504

Delta R.T. 0.02 min

Lab File: VU024942.D

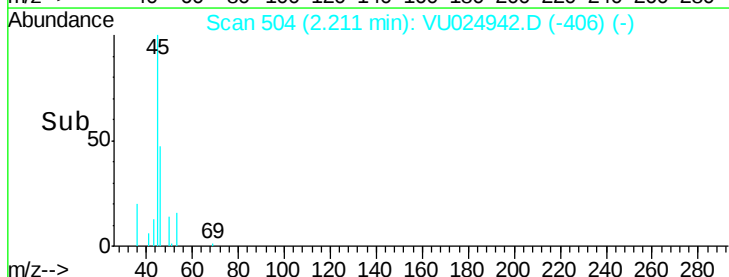
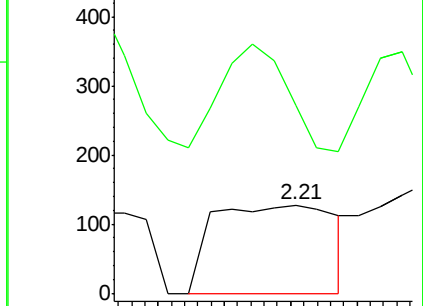
Acq: 27 Jun 2018 00:21

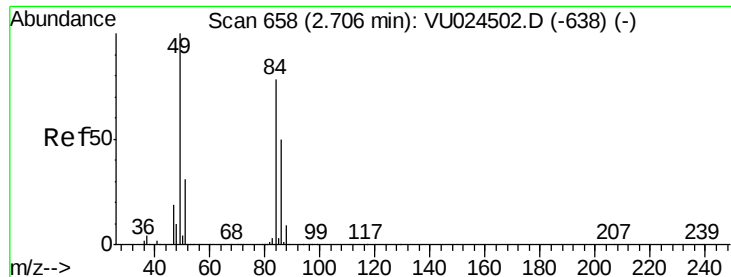
Tgt Ion:	56	Resp:	162
Ion	Ratio	Lower	Upper
56	100		
55	110.5	58.4	87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU024942.D (-406) (-)

Ion 55.00 (54.70 to 55.70): VU024942.D (-406) (-)

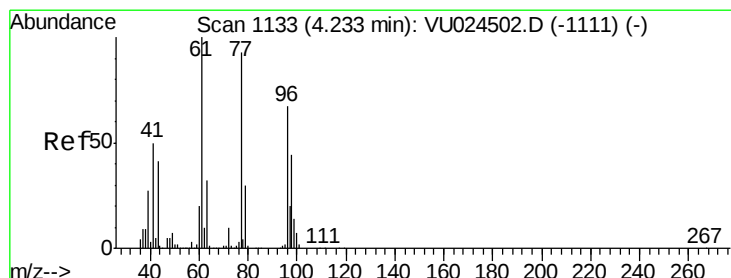
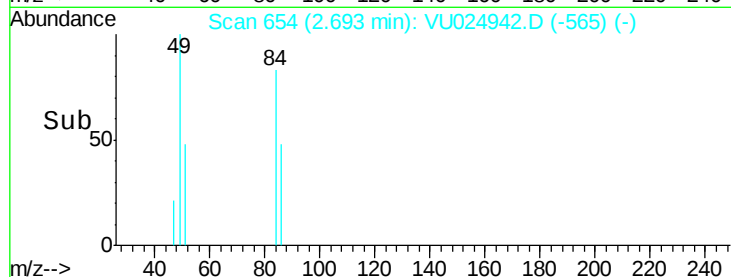
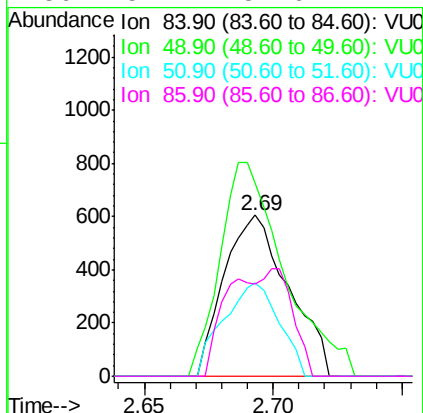
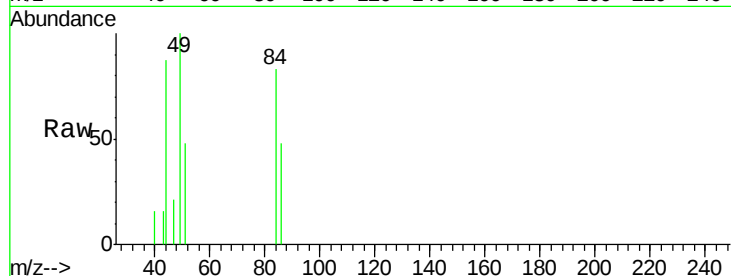




#20
Methylene Chloride
Concen: 0.332 ug/l
RT: 2.69 min Scan# 654
Delta R.T. -0.01 min
Lab File: VU024942.D
Acq: 27 Jun 2018 00:21

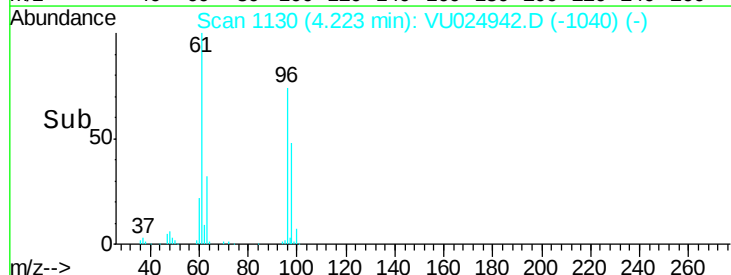
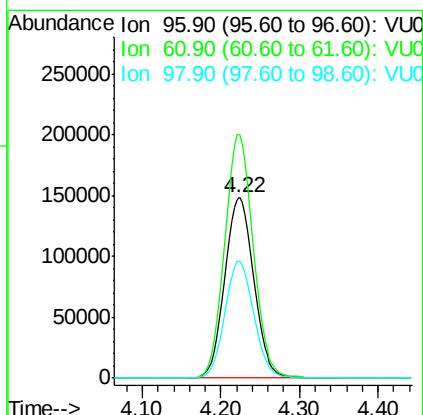
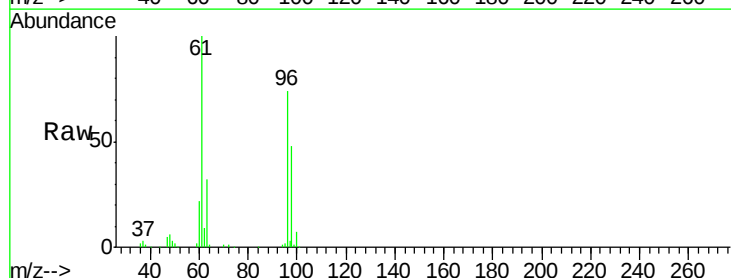
Instrument :
MSVOA_U
ClientSampleId :
WP021SB474-29-31-180620ME

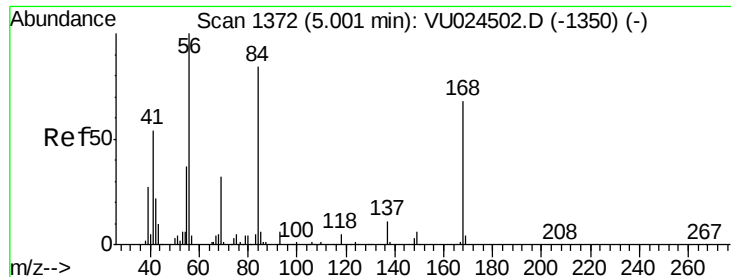
Tgt Ion: 84 Resp: 1054
Ion Ratio Lower Upper
84 100
49 120.3 103.8 155.8
51 57.9 32.0 48.0#
86 57.4 51.6 77.4



#27
cis-1,2-Dichloroethene
Concen: 114.158 ug/l
RT: 4.22 min Scan# 1130
Delta R.T. -0.01 min
Lab File: VU024942.D
Acq: 27 Jun 2018 00:21

Tgt Ion: 96 Resp: 379145
Ion Ratio Lower Upper
96 100
61 132.7 0.0 306.6
98 64.2 0.0 128.8

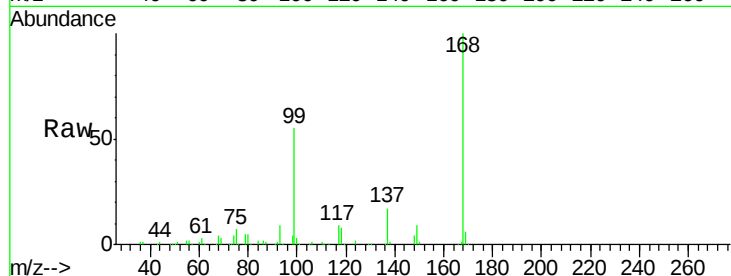




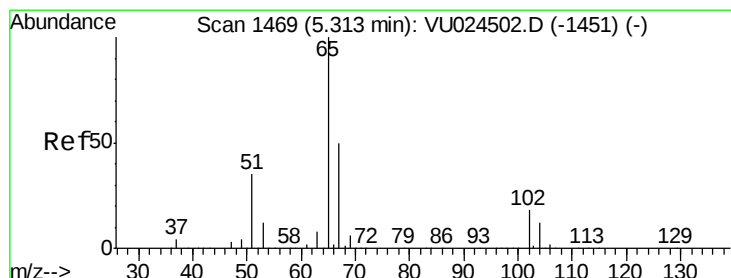
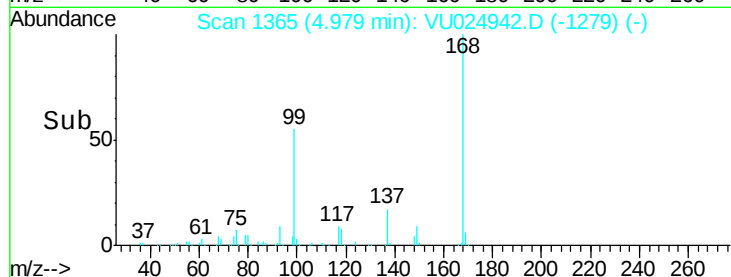
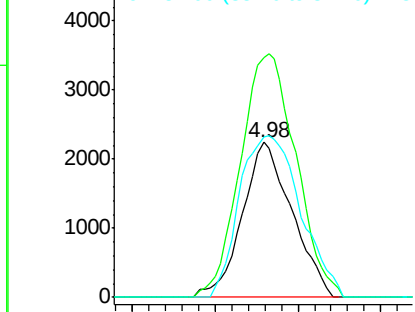
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1365
Delta R.T. -0.02 min
Lab File: VU024942.D
Acq: 27 Jun 2018 00:21

Instrument :
MSVOA_U
ClientSampleId :
WP021SB474-29-31-180620ME

Tgt Ion: 56 Resp: 4669
Ion Ratio Lower Upper
56 100
69 155.0 24.8 37.2#
84 103.2 65.2 97.8#

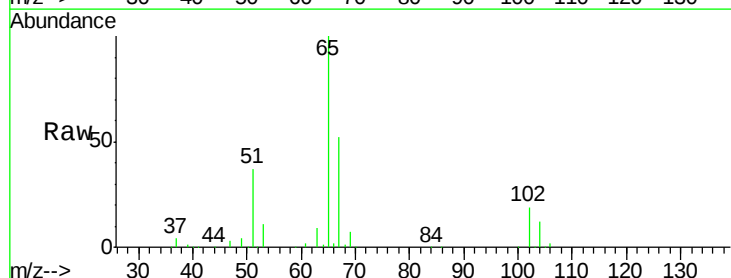


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

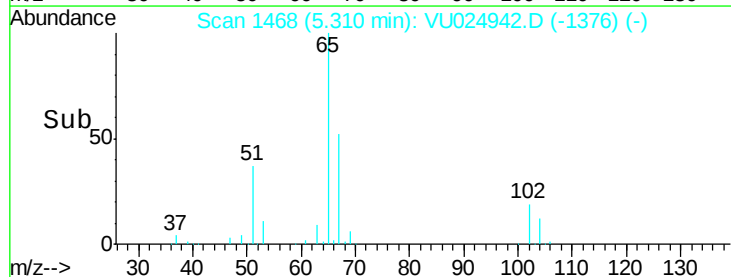
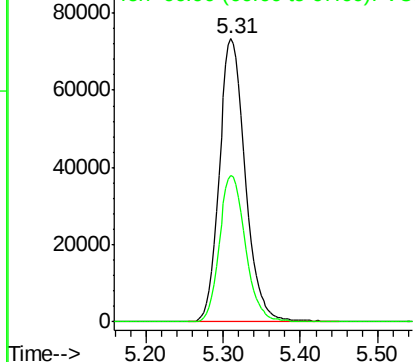


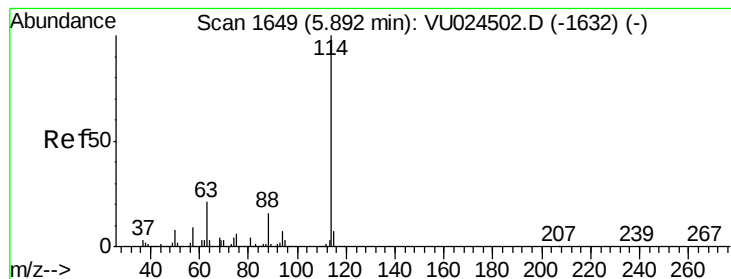
#33
1,2-Dichloroethane-d4
Concen: 45.664 ug/l
RT: 5.31 min Scan# 1468
Delta R.T. -0.00 min
Lab File: VU024942.D
Acq: 27 Jun 2018 00:21

Tgt Ion: 65 Resp: 171721
Ion Ratio Lower Upper
65 100
67 51.6 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU024942.D

Acq: 27 Jun 2018 00:21

Instrument :

MSVOA_U

ClientSampleId :

WP021SB474-29-31-180620ME

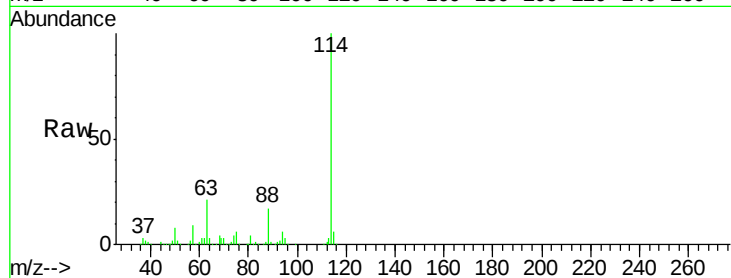
Tgt Ion:114 Resp: 346753

Ion Ratio Lower Upper

114 100

63 20.6 0.0 45.4

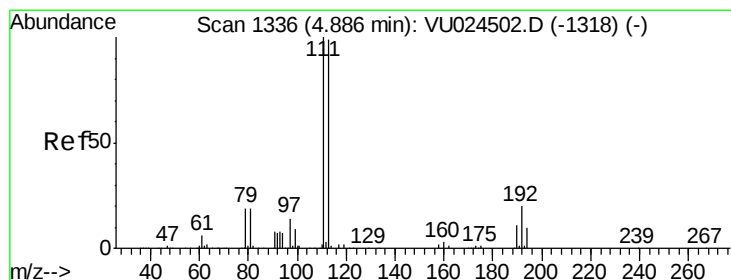
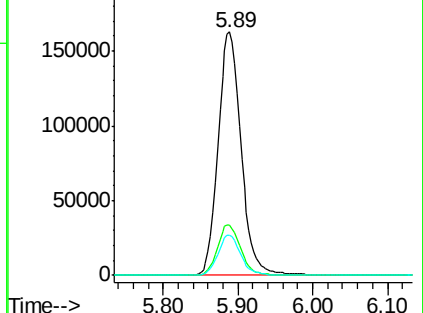
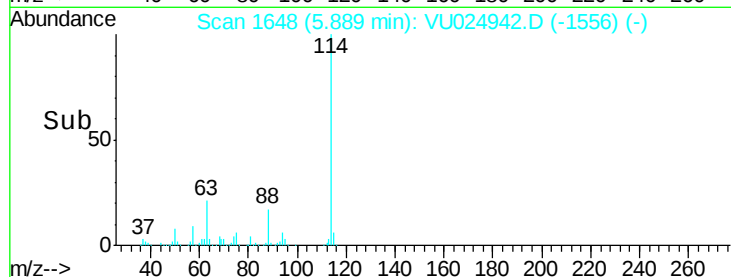
88 16.6 0.0 31.0



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: 46.522 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU024942.D

Acq: 27 Jun 2018 00:21

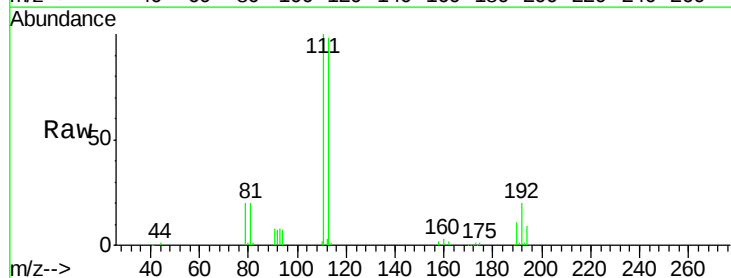
Tgt Ion:113 Resp: 133879

Ion Ratio Lower Upper

113 100

111 101.1 82.2 123.4

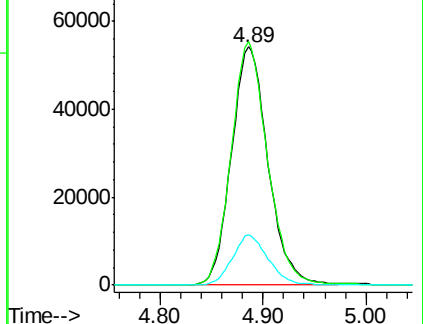
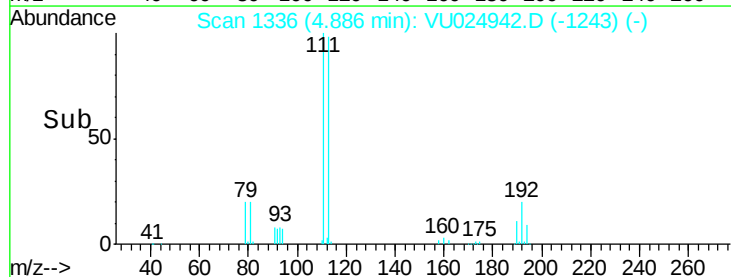
192 20.5 16.2 24.4

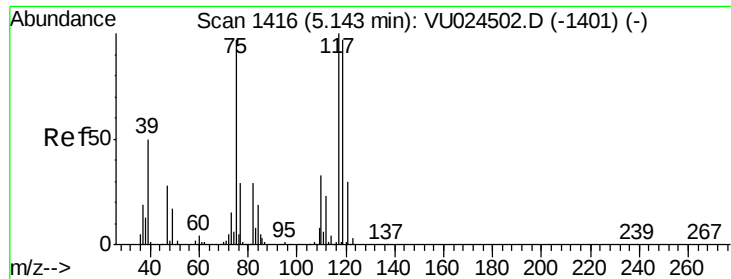


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.013 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.16 min

Lab File: VU024942.D

Acq: 27 Jun 2018 00:21

Instrument :

MSVOA_U

ClientSampleId :

WP021SB474-29-31-180620ME

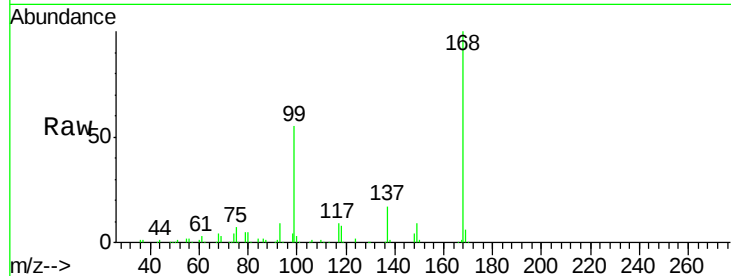
Tgt Ion: 75 Resp: 16353

Ion Ratio Lower Upper

75 100

110 8.6 17.0 50.9#

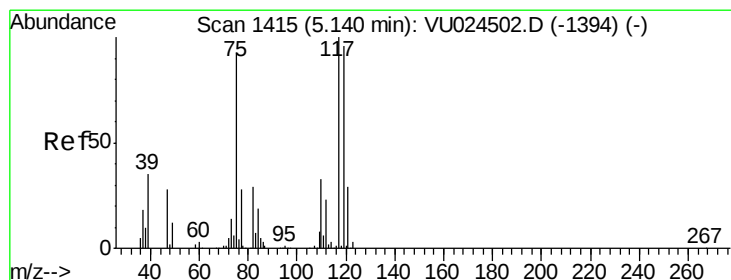
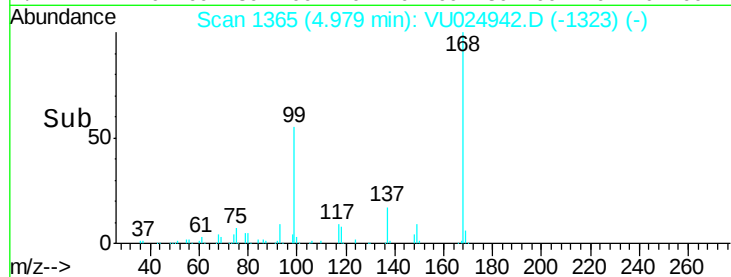
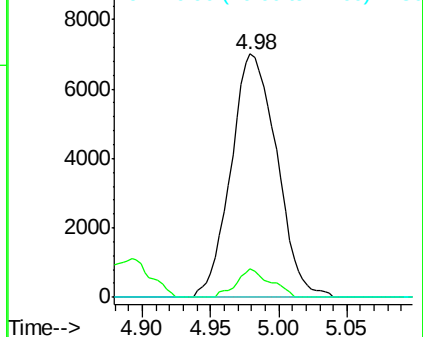
77 0.0 24.2 36.4#



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: 4.864 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.16 min

Lab File: VU024942.D

Acq: 27 Jun 2018 00:21

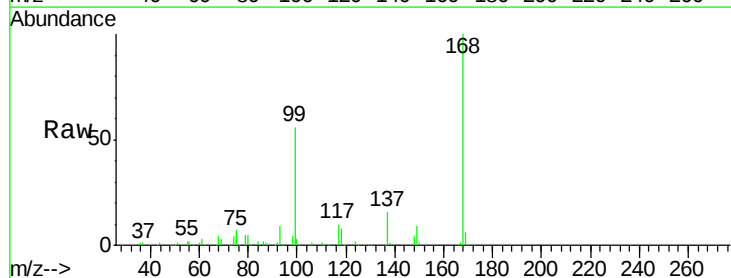
Tgt Ion: 117 Resp: 21796

Ion Ratio Lower Upper

117 100

119 3.8 76.1 114.1#

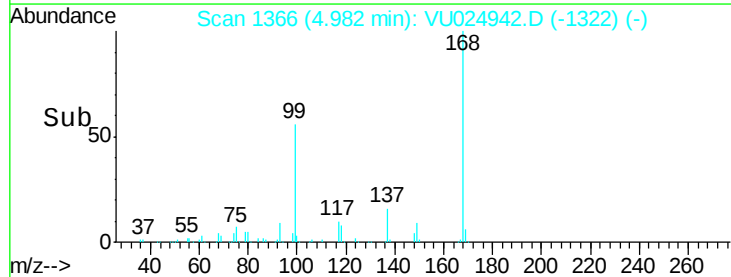
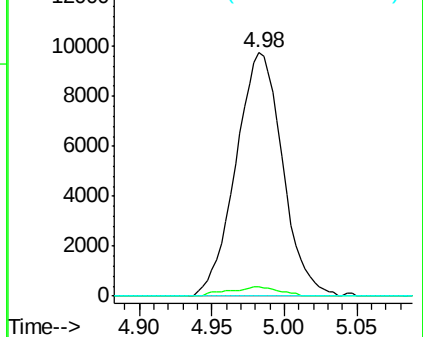
121 0.0 23.7 35.5#

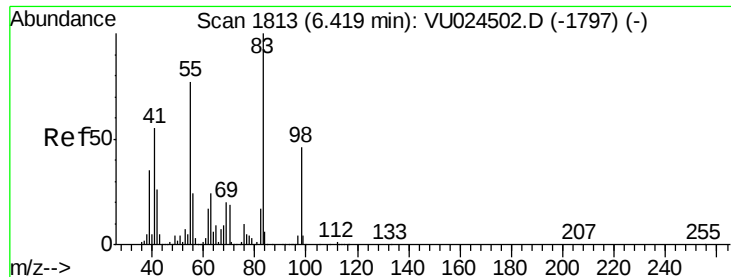


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

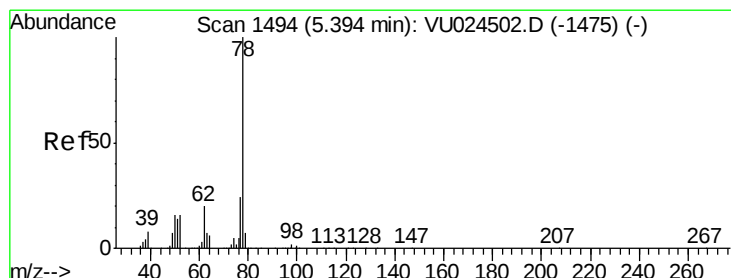
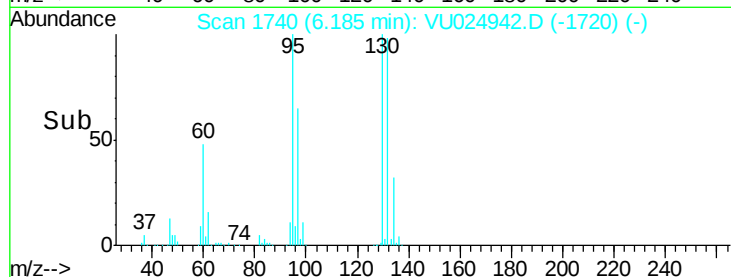
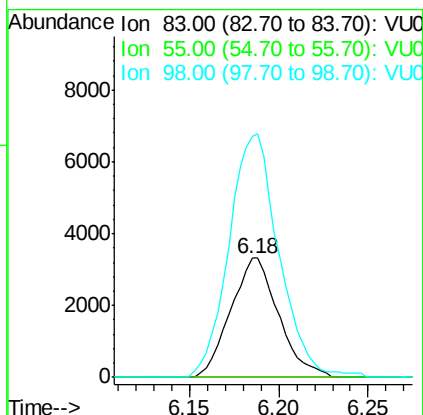
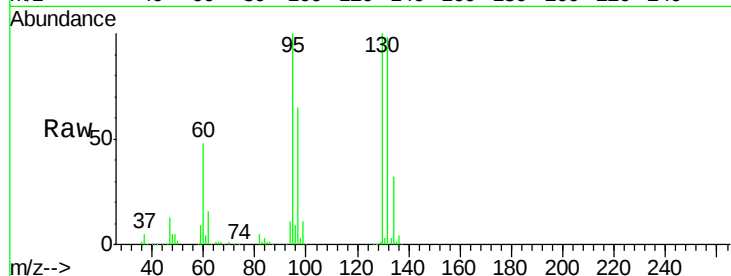




#39
Methylcyclohexane
Concen: 1.224 ug/l
RT: 6.18 min Scan# 1740
Delta R.T. -0.23 min
Lab File: VU024942.D
Acq: 27 Jun 2018 00:21

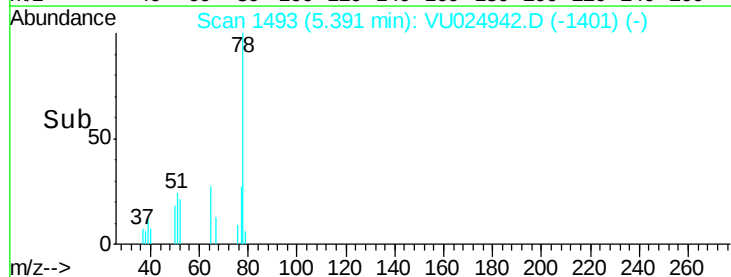
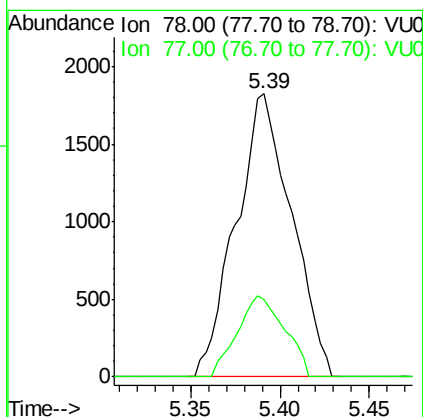
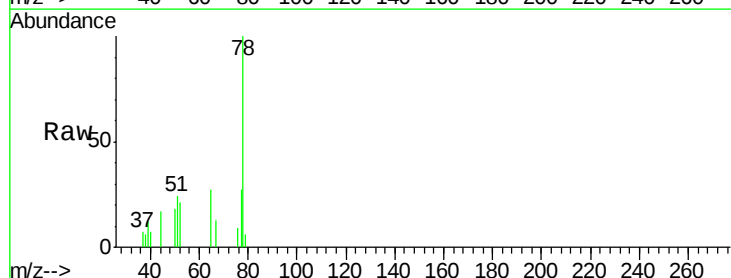
Instrument :
MSVOA_U
ClientSampleId :
WP021SB474-29-31-180620ME

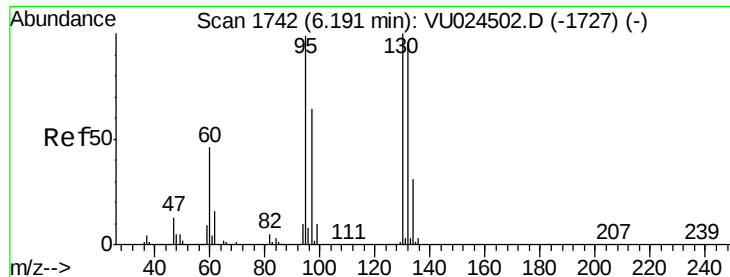
Tgt Ion: 83 Resp: 6226
Ion Ratio Lower Upper
83 100
55 0.0 65.8 98.6#
98 202.2 36.7 55.1#



#40
Benzene
Concen: 0.341 ug/l
RT: 5.39 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VU024942.D
Acq: 27 Jun 2018 00:21

Tgt Ion: 78 Resp: 3961
Ion Ratio Lower Upper
78 100
77 27.1 19.2 28.8





#44

Trichloroethene

Concen: 154.351 ug/l

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU024942.D

Acq: 27 Jun 2018 00:21

Instrument :

MSVOA_U

ClientSampleId :

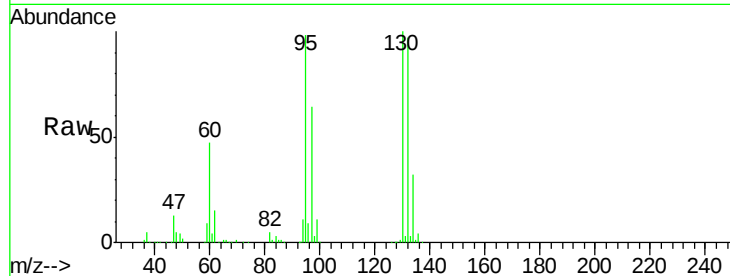
WP021SB474-29-31-180620ME

Tgt Ion:130 Resp: 510022

Ion Ratio Lower Upper

130 100

95 98.1 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

6.19

250000

200000

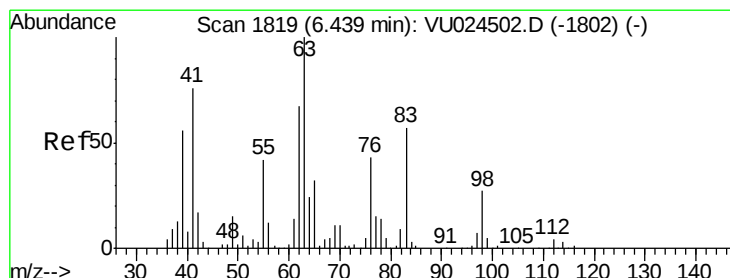
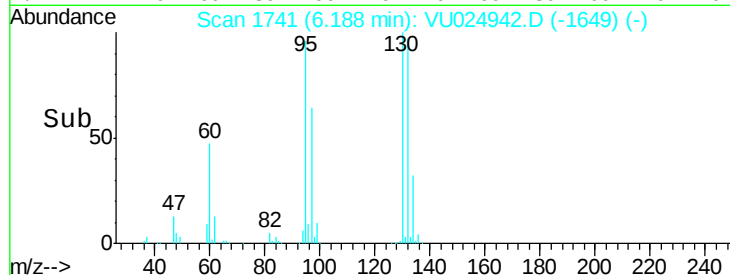
150000

100000

50000

0

Time-->



#45

1,2-Dichloropropane

Concen: 0.603 ug/l

RT: 6.18 min Scan# 1738

Delta R.T. -0.26 min

Lab File: VU024942.D

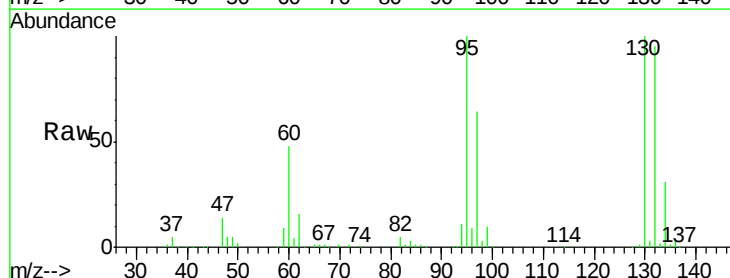
Acq: 27 Jun 2018 00:21

Tgt Ion: 63 Resp: 1868

Ion Ratio Lower Upper

63 100

65 293.4 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0

4000

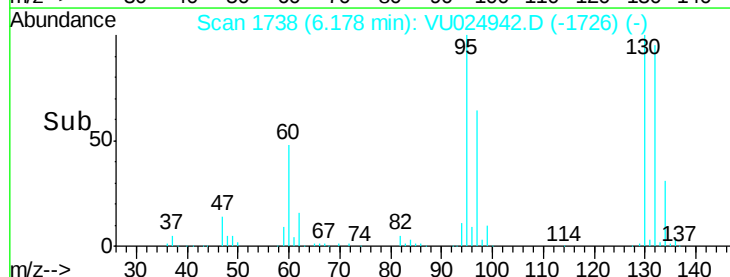
3000

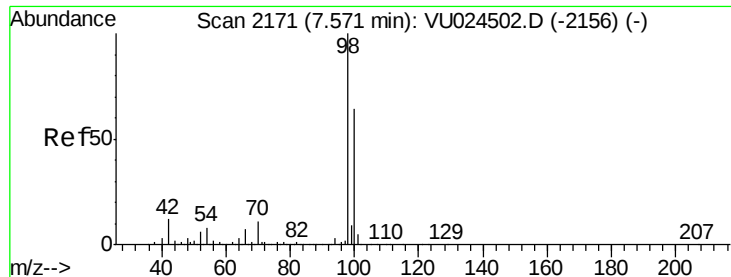
2000

1000

0

Time-->

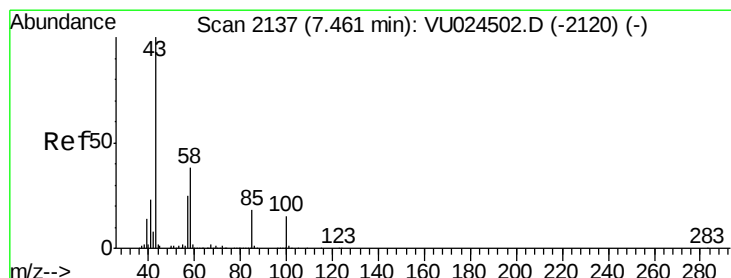
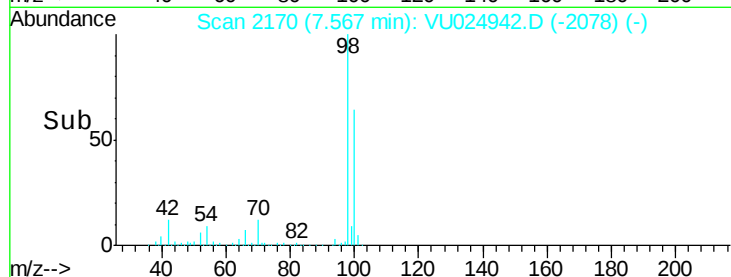
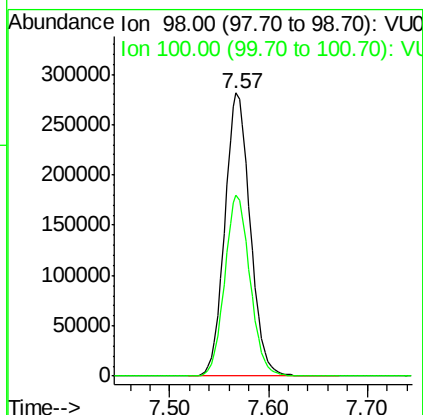
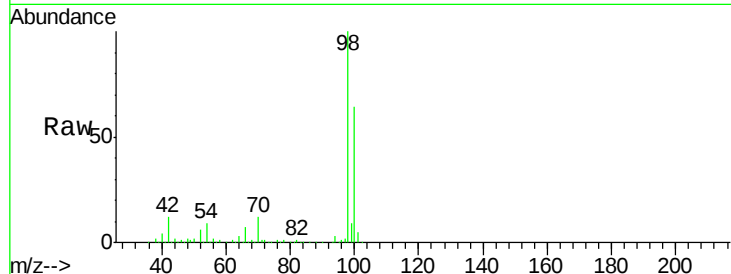




#50
Toluene-d8
Concen: 48.349 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU024942.D
Acq: 27 Jun 2018 00:21

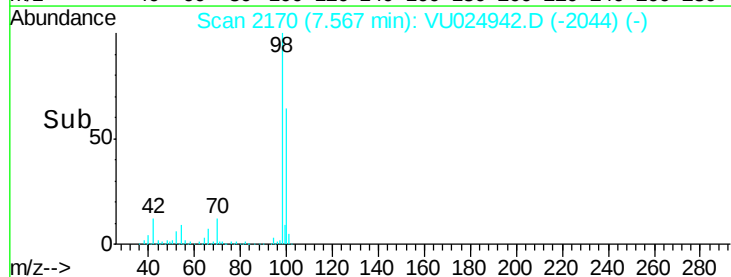
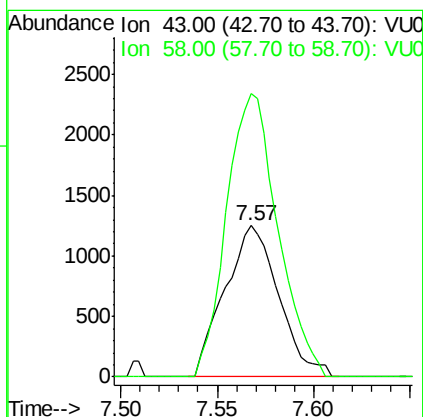
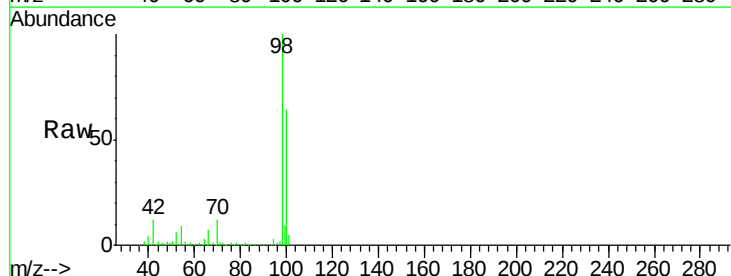
Instrument :
MSVOA_U
ClientSampleId :
WP021SB474-29-31-180620ME

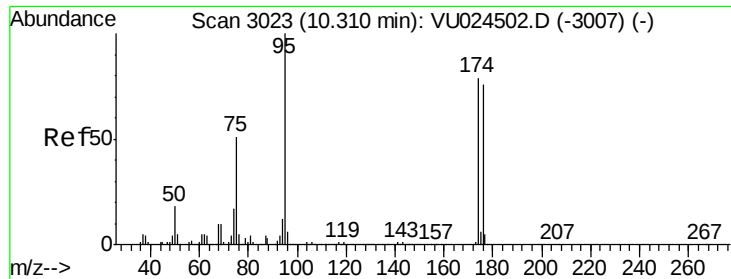
Tgt Ion: 98 Resp: 507519
Ion Ratio Lower Upper
98 100
100 63.8 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.503 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.11 min
Lab File: VU024942.D
Acq: 27 Jun 2018 00:21

Tgt Ion: 43 Resp: 2428
Ion Ratio Lower Upper
43 100
58 177.8 30.0 45.0#





#62

4-Bromofluorobenzene

Concen: 46.653 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. 0.01 min

Lab File: VU024942.D

Acq: 27 Jun 2018 00:21

Instrument :

MSVOA_U

ClientSampleId :

WP021SB474-29-31-180620ME

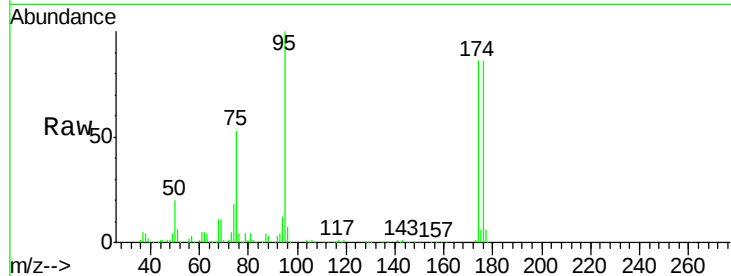
Tgt Ion: 95 Resp: 194435

Ion Ratio Lower Upper

95 100

174 85.0 0.0 165.8

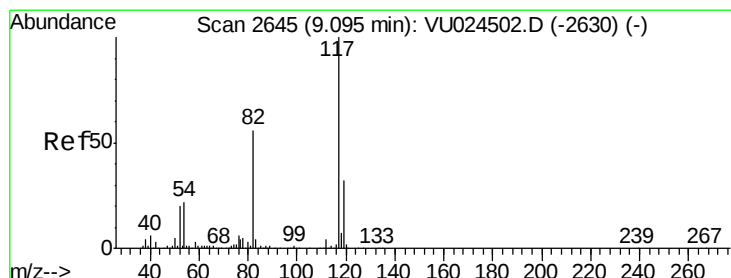
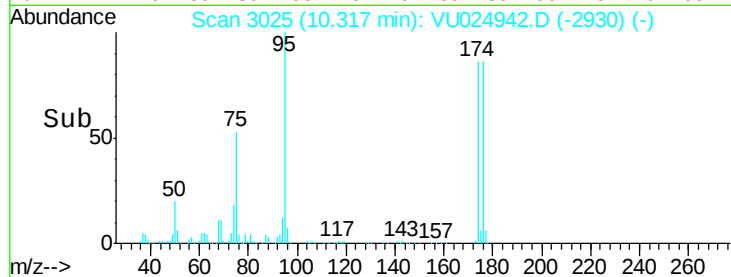
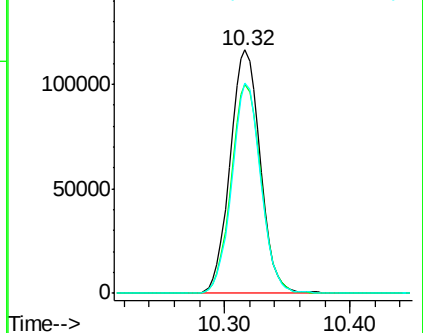
176 82.9 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.10 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VU024942.D

Acq: 27 Jun 2018 00:21

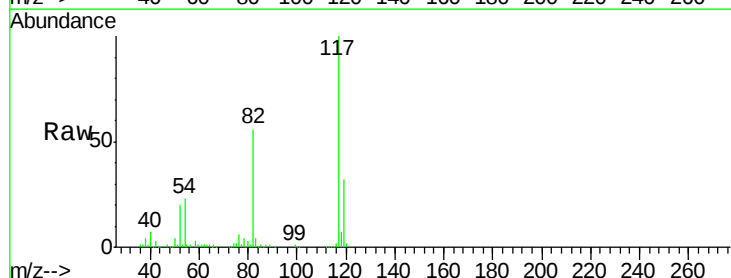
Tgt Ion: 117 Resp: 329793

Ion Ratio Lower Upper

117 100

82 55.6 44.3 66.5

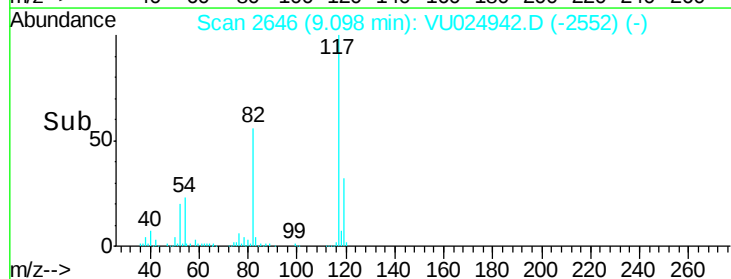
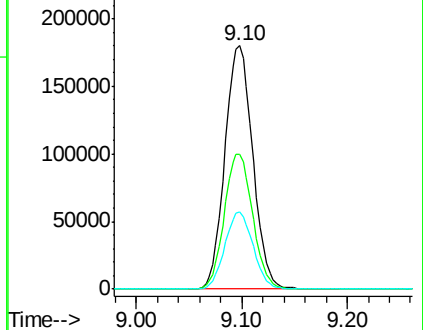
119 31.8 25.4 38.2

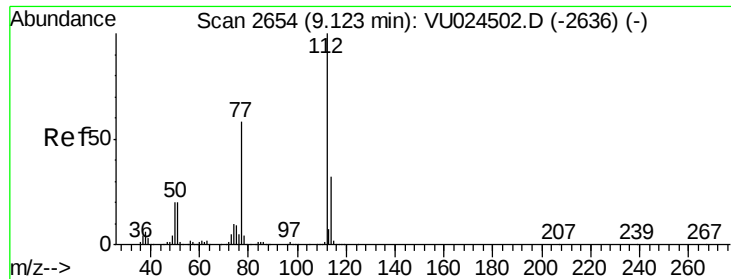


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V

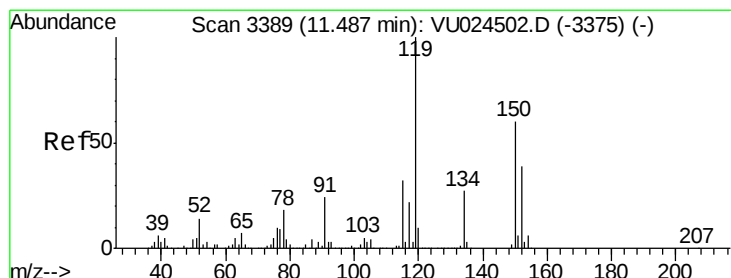
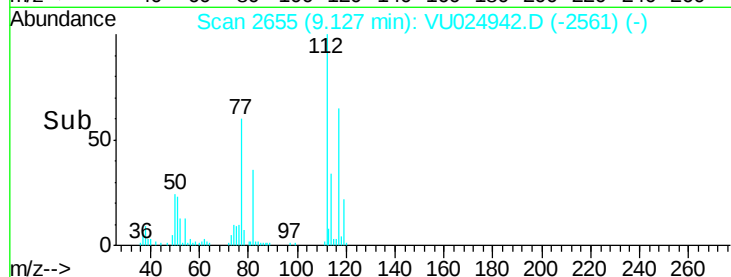
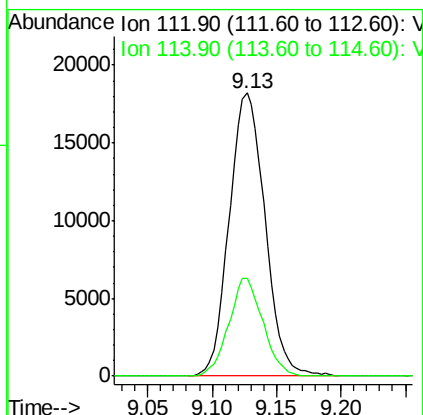
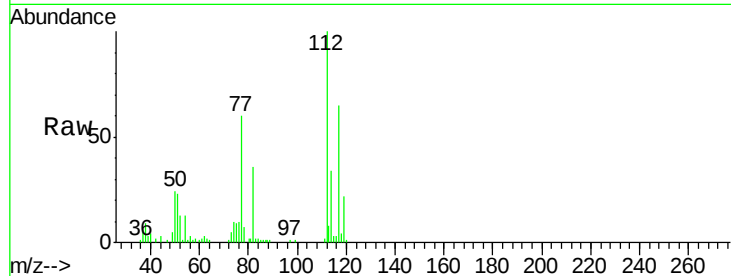




#65
Chlorobenzene
Concen: 4.161 ug/l
RT: 9.13 min Scan# 2655
Delta R.T. 0.00 min
Lab File: VU024942.D
Acq: 27 Jun 2018 00:21

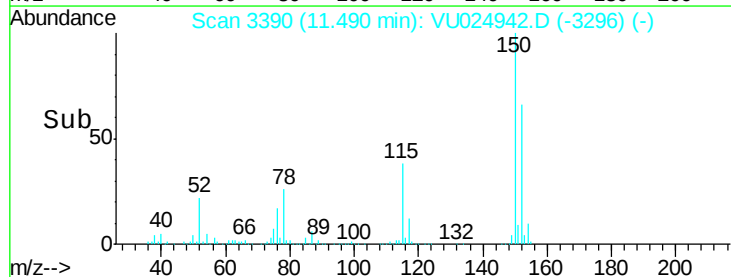
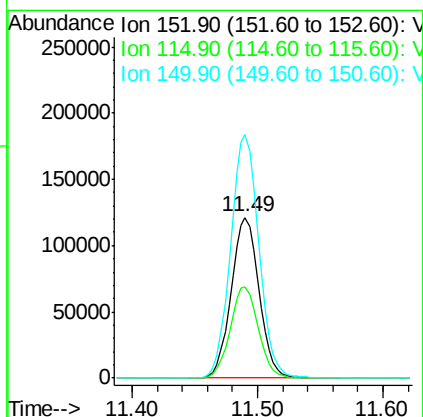
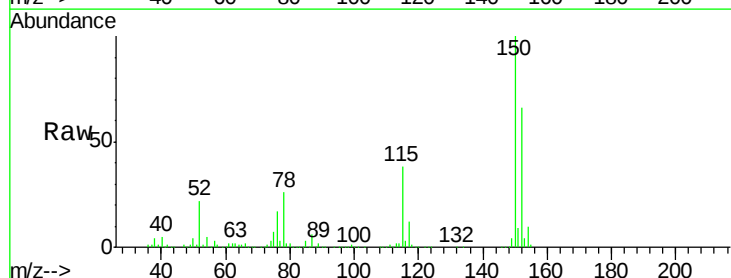
Instrument :
MSVOA_U
ClientSampleId :
WP021SB474-29-31-180620ME

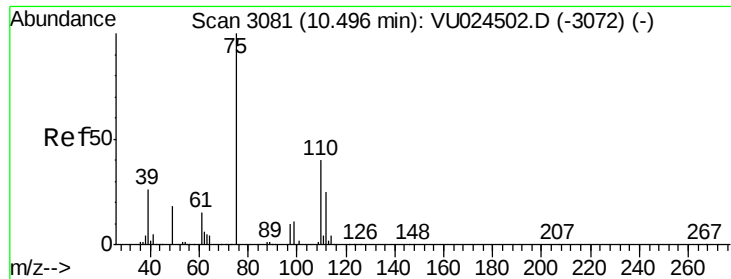
Tgt Ion:112 Resp: 35057
Ion Ratio Lower Upper
112 100
114 34.4 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VU024942.D
Acq: 27 Jun 2018 00:21

Tgt Ion:152 Resp: 187017
Ion Ratio Lower Upper
152 100
115 57.3 43.0 129.0
150 153.5 0.0 354.0





#76

1,2,3-Trichloropropane

Concen: 24.946 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. -0.18 min

Lab File: VU024942.D

Acq: 27 Jun 2018 00:21

Instrument :

MSVOA_U

ClientSampleId :

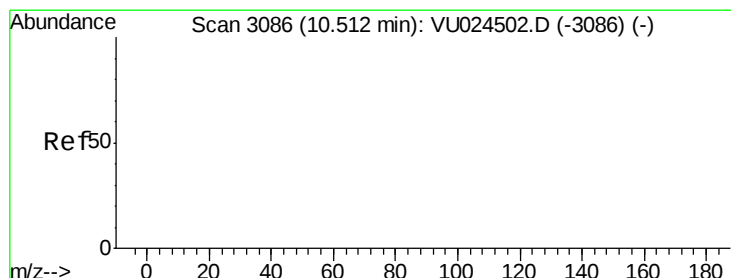
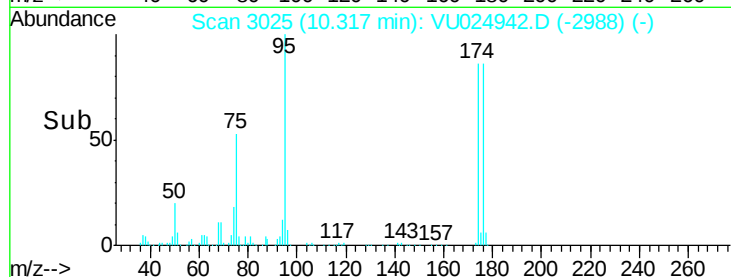
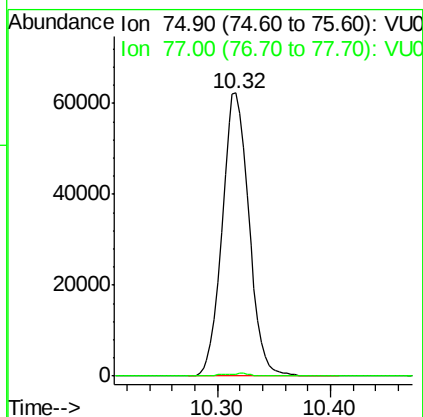
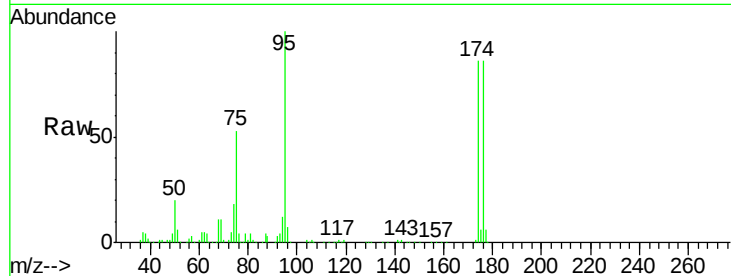
WP021SB474-29-31-180620ME

Tgt Ion: 75 Resp: 102714

Ion Ratio Lower Upper

75 100

77 1.0 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.736 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. -0.20 min

Lab File: VU024942.D

Acq: 27 Jun 2018 00:21

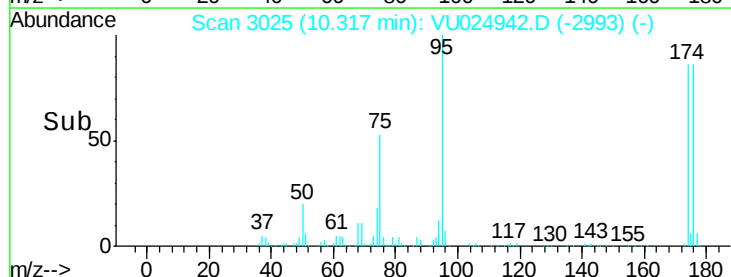
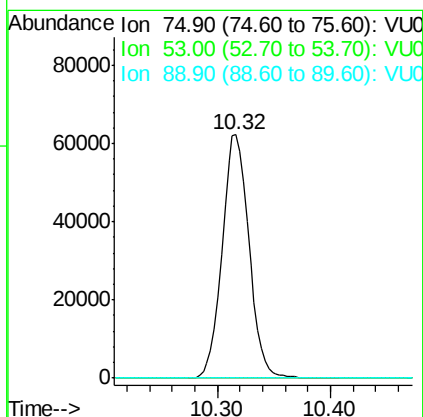
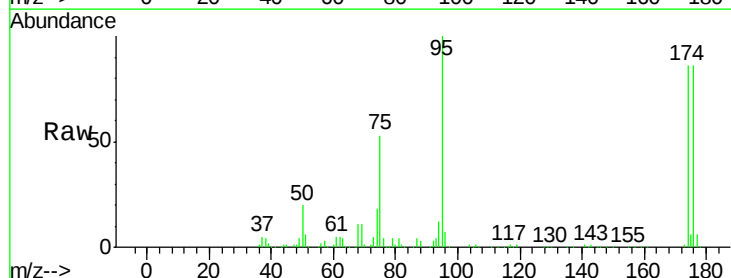
Tgt Ion: 75 Resp: 102714

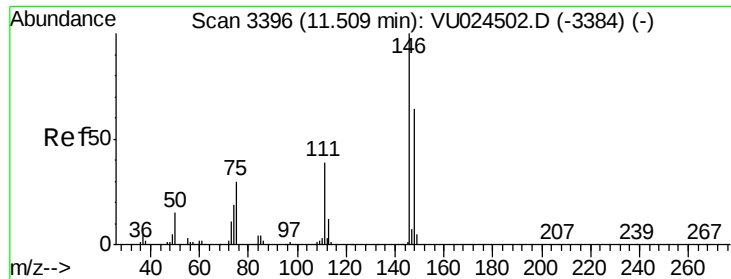
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

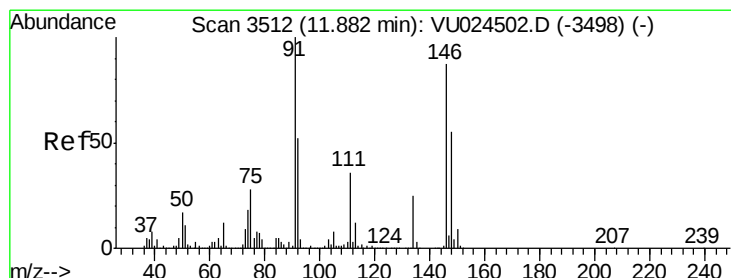
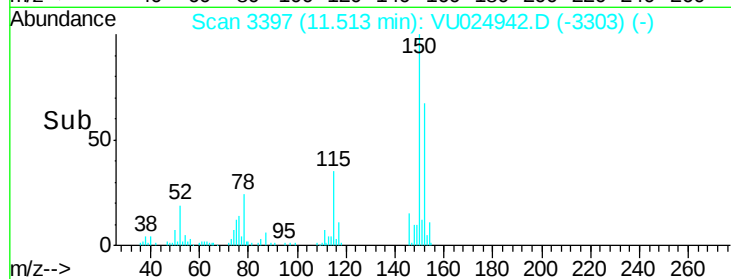
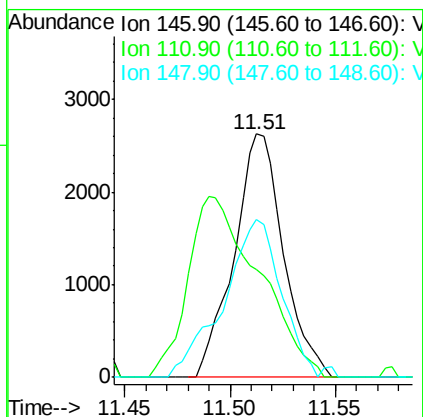
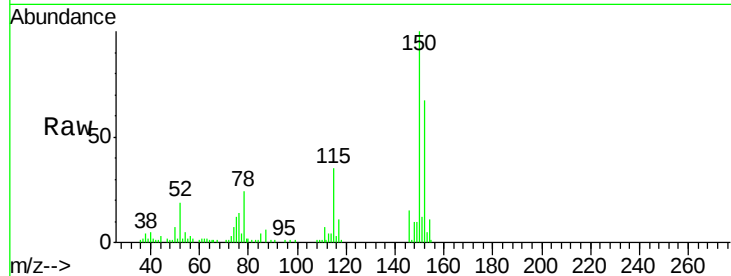




#88
 1,4-Dichlorobenzene
 Concen: 0.633 ug/l
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU024942.D
 Acq: 27 Jun 2018 00:21

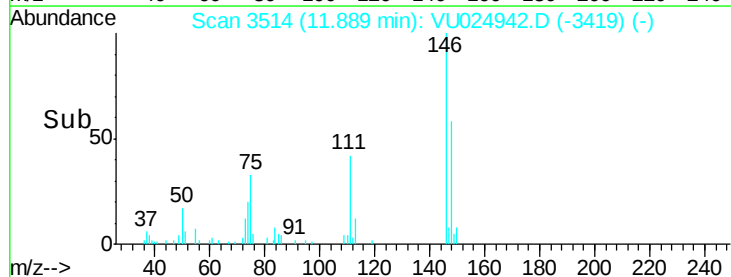
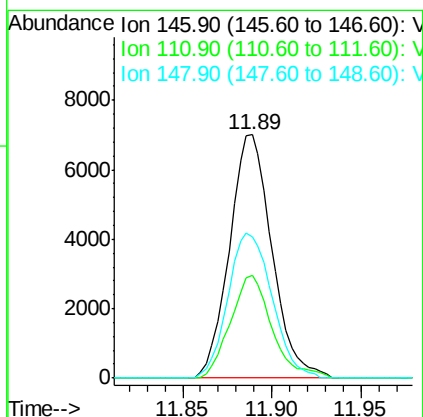
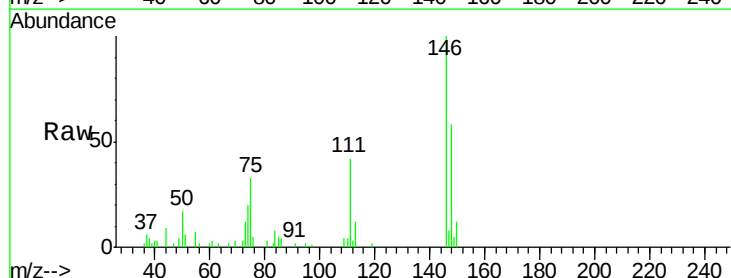
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB474-29-31-180620ME

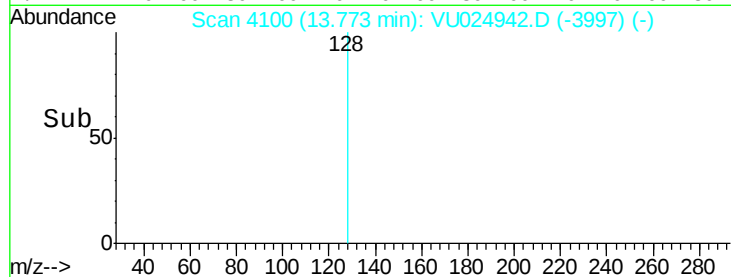
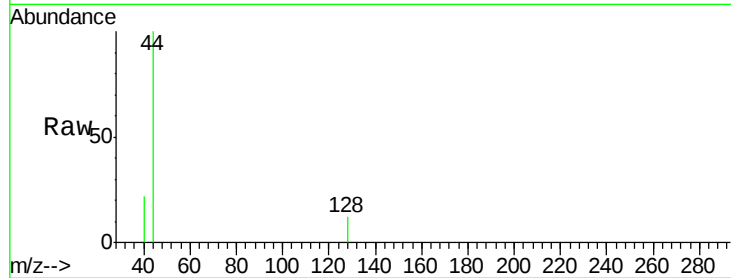
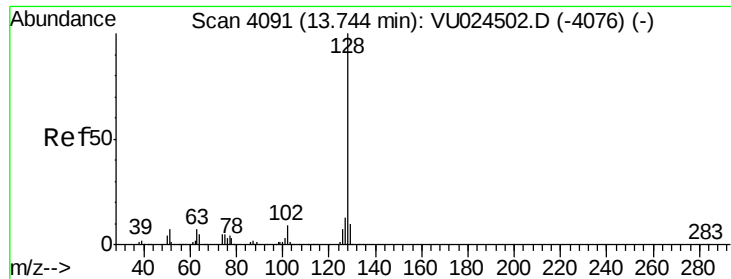
Tgt Ion:146 Resp: 4276
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.5 58.5#
 148 75.6 32.4 97.0



#91
 1,2-Dichlorobenzene
 Concen: 1.723 ug/l
 RT: 11.89 min Scan# 3514
 Delta R.T. 0.01 min
 Lab File: VU024942.D
 Acq: 27 Jun 2018 00:21

Tgt Ion:146 Resp: 11588
 Ion Ratio Lower Upper
 146 100
 111 41.1 20.5 61.6
 148 61.9 31.9 95.7





#95

Naphthalene

Concen: 0.682 ug/l

RT: 13.77 min Scan# 4100

Delta R.T. 0.03 min

Lab File: VU024942.D

Acq: 27 Jun 2018 00:21

Instrument :

MSVOA_U

ClientSampleId :

WP021SB474-29-31-180620ME

Tgt Ion:	128	Resp:	39
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	0.0	8.6	12.8#

