

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062718\
 Data File : VU024995.D
 Acq On : 28 Jun 2018 03:22
 Operator : MD/SY
 Sample : J3670-16ME 10X
 Misc : 6.00g/5mL/100uL/5.00ML/MSVOA_U/MEOH
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB477-29-31-180621ME

Quant Time: Jun 28 06:46:01 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	212420	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	324236	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	299786	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	164732	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	161616	46.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.20%	
35) Dibromofluoromethane	4.89	113	126415	46.98	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.96%	
50) Toluene-d8	7.57	98	467455	47.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.24%	
62) 4-Bromofluorobenzene	10.31	95	177710	45.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.20%	

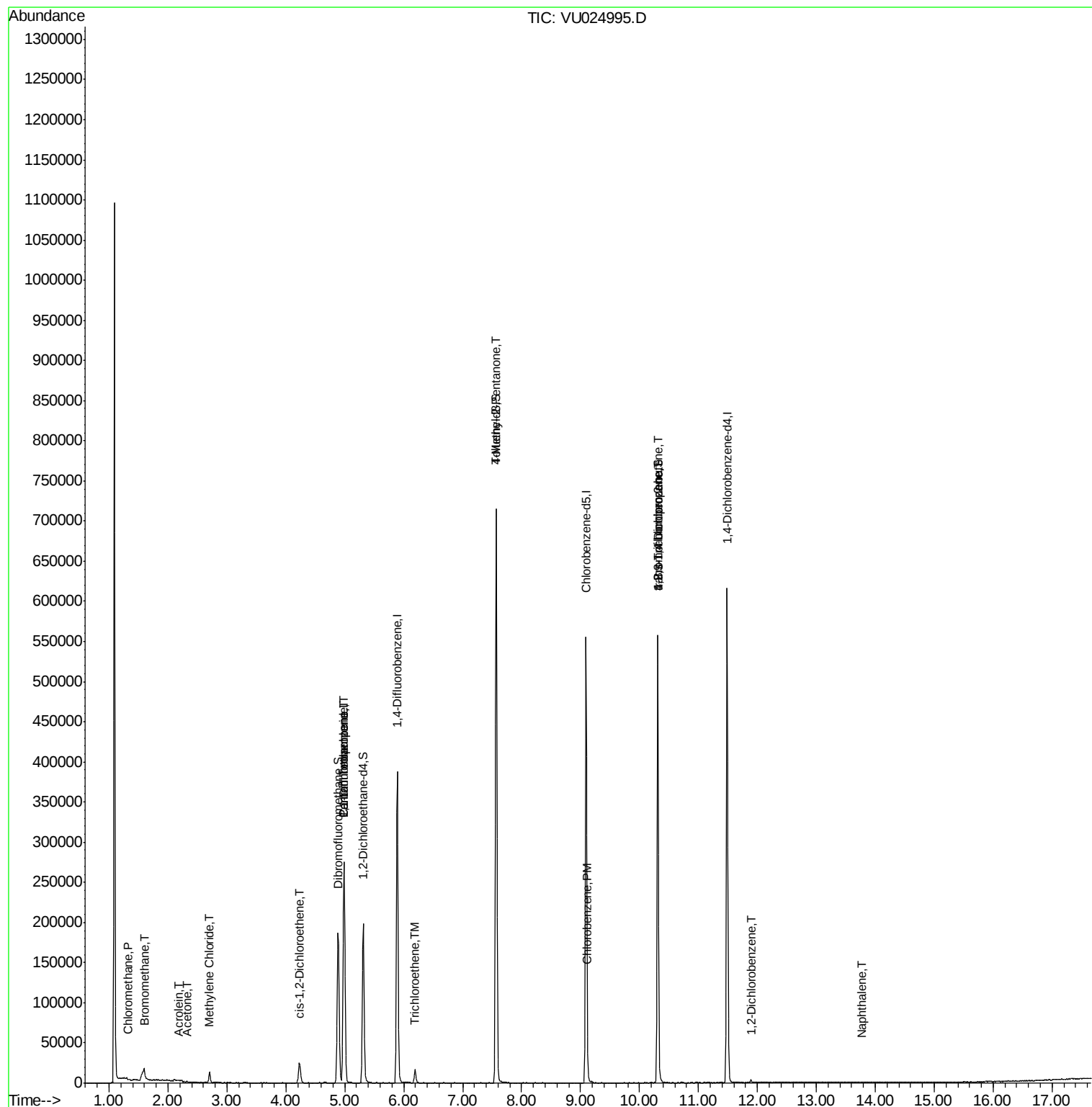
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	683	0.251	ug/l #	87
5) Bromomethane	1.61	94	611	0.451	ug/l	89
6) Chloroethane	1.71	64	19	Below Cal	#	43
8) Diethyl Ether	2.10	74	297	Below Cal	#	1
13) Acrolein	2.19	56	116	0.262	ug/l #	13
16) Acetone	2.32	43	2107	1.131	ug/l	89
20) Methylene Chloride	2.71	84	5693	1.947	ug/l	93
27) cis-1,2-Dichloroethene	4.23	96	14537	4.747	ug/l	88
31) Cyclohexane	4.99	56	4400	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	15748	4.133	ug/l #	52
38) Carbon Tetrachloride	4.98	117	20350	4.857	ug/l #	16
44) Trichloroethene	6.19	130	5710	1.848	ug/l	87
51) 4-Methyl-2-Pentanone	7.57	43	2439	0.541	ug/l #	1
65) Chlorobenzene	9.12	112	2814	0.367	ug/l	99
76) 1,2,3-Trichloropropane	10.31	75	93414	25.757	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	93414	59.611	ug/l #	100
91) 1,2-Dichlorobenzene	11.89	146	1411	0.238	ug/l	91
95) Naphthalene	13.78	128	162	0.692	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# 1367

Delta R.T. -0.00 min

Lab File: VU024995.D

Acq: 28 Jun 2018 03:22

Instrument :

MSVOA_U

ClientSampleId :

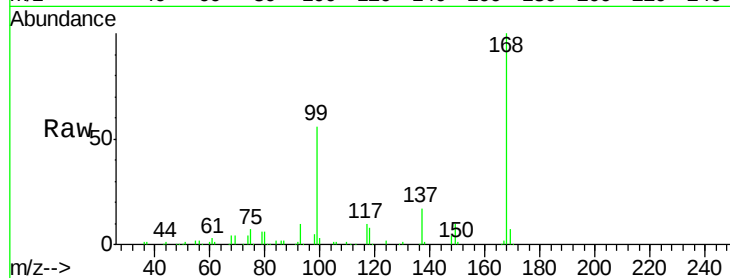
WP021SB477-29-31-180621ME

Tgt Ion:168 Resp: 212420

Ion Ratio Lower Upper

168 100

99 56.5 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

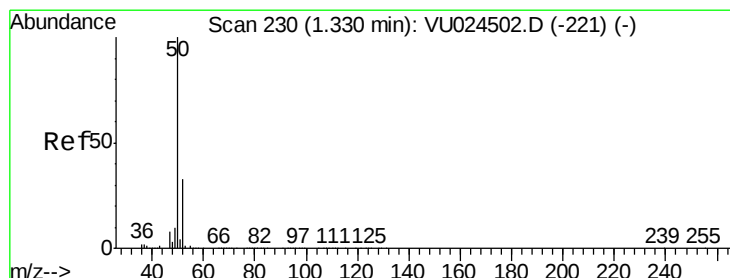
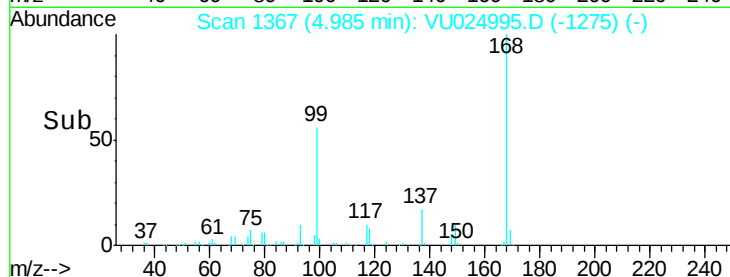
0

Time-->

4.90

5.00

5.10



#3

Chloromethane

Concen: 0.251 ug/l

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU024995.D

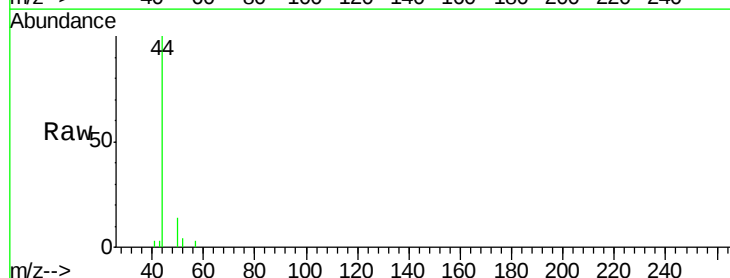
Acq: 28 Jun 2018 03:22

Tgt Ion: 50 Resp: 683

Ion Ratio Lower Upper

50 100

52 25.8 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) (-)

1.33

600

500

400

300

200

100

0

Time-->

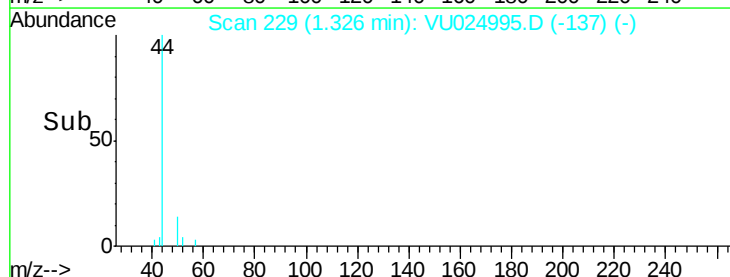
1.30

1.32

1.34

1.36

1.38





#5

Bromomethane

Concen: 0.451 ug/l

RT: 1.61 min Scan# 318

Delta R.T. -0.01 min

Lab File: VU024995.D

Acq: 28 Jun 2018 03:22

Instrument :

MSVOA_U

ClientSampleId :

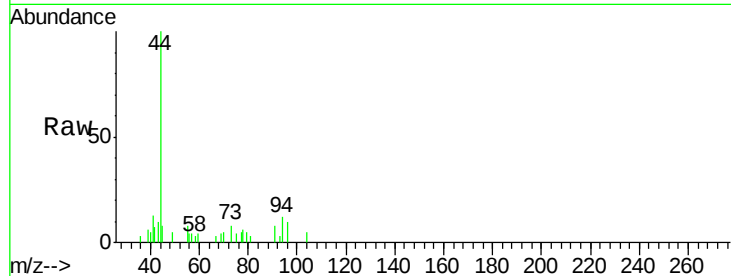
WP021SB477-29-31-180621ME

Tgt Ion: 94 Resp: 611

Ion Ratio Lower Upper

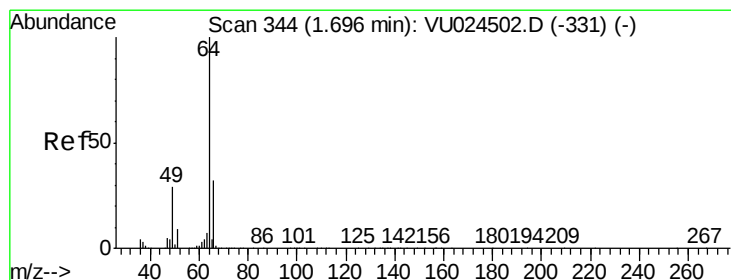
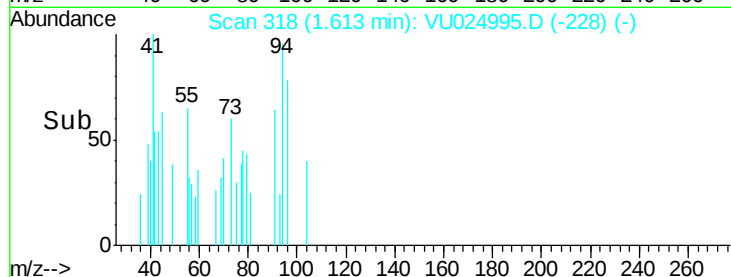
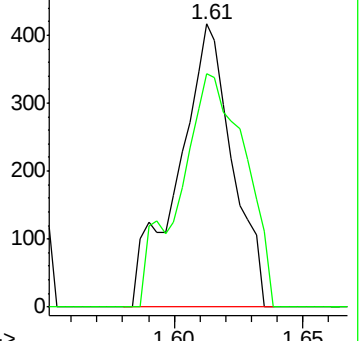
94 100

96 82.3 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 348

Delta R.T. 0.01 min

Lab File: VU024995.D

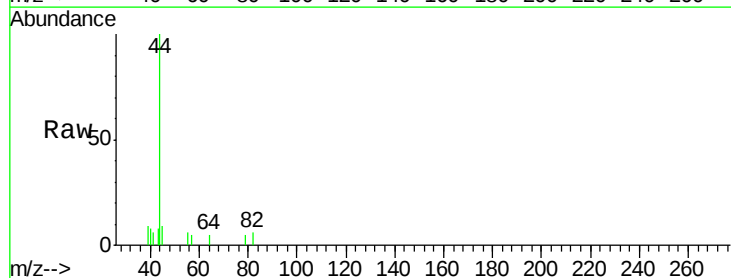
Acq: 28 Jun 2018 03:22

Tgt Ion: 64 Resp: 19

Ion Ratio Lower Upper

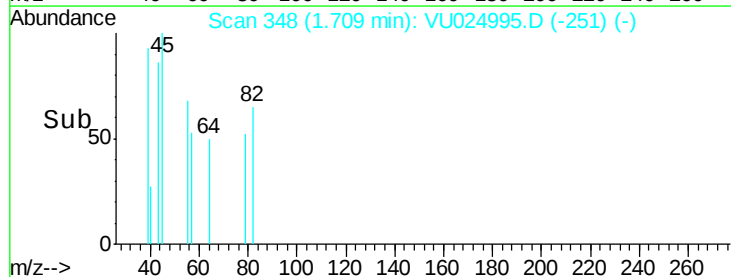
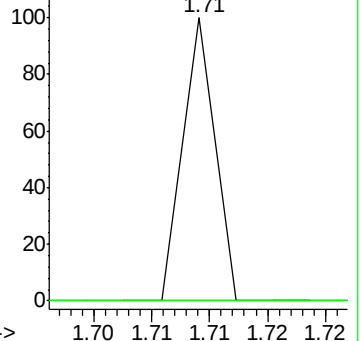
64 100

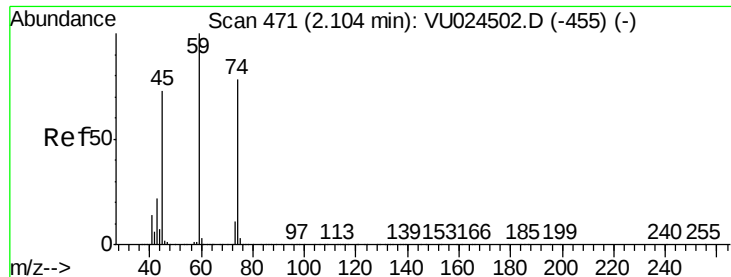
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#8

Diethyl Ether

Concen: Below Cal

RT: 2.10 min Scan# 470

Delta R.T. -0.00 min

Lab File: VU024995.D

Acq: 28 Jun 2018 03:22

Instrument :

MSVOA_U

ClientSampleId :

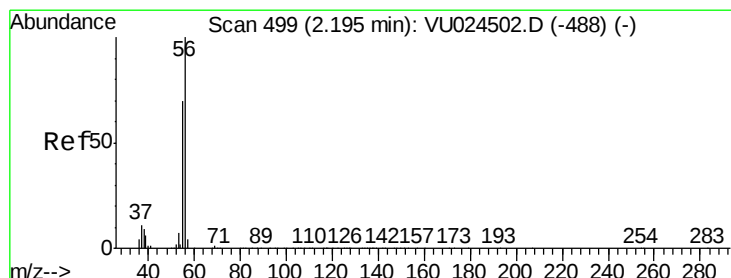
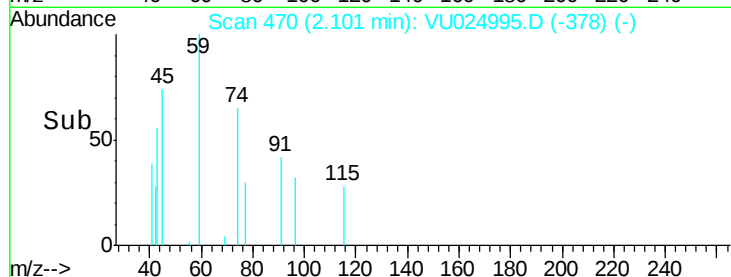
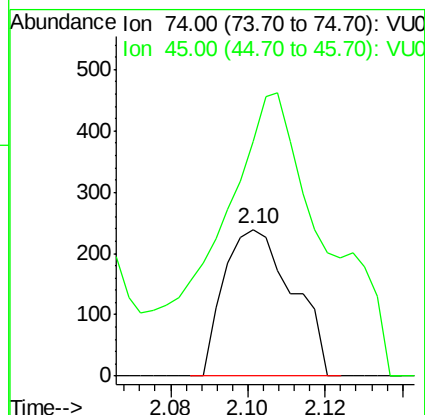
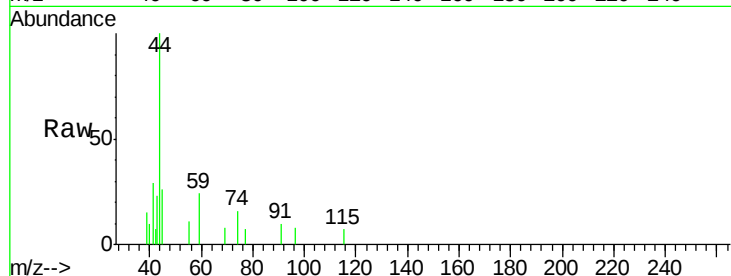
WP021SB477-29-31-180621ME

Tgt Ion: 74 Resp: 297

Ion Ratio Lower Upper

74 100

45 293.6 55.0 165.0#



#13

Acrolein

Concen: 0.262 ug/l

RT: 2.19 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU024995.D

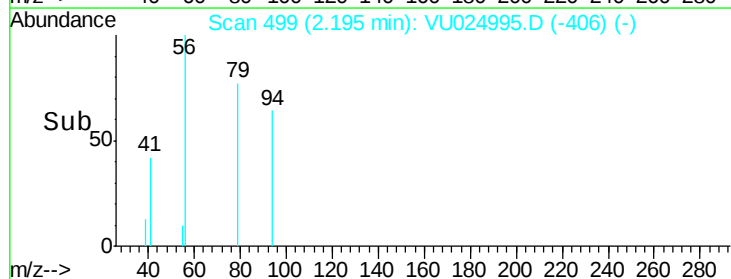
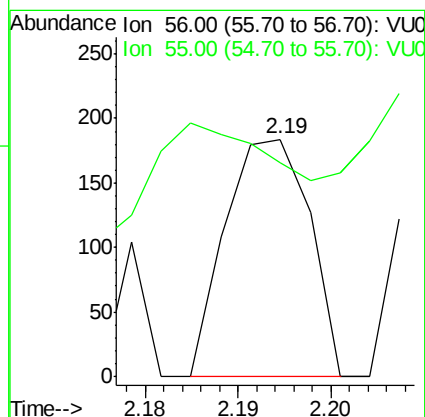
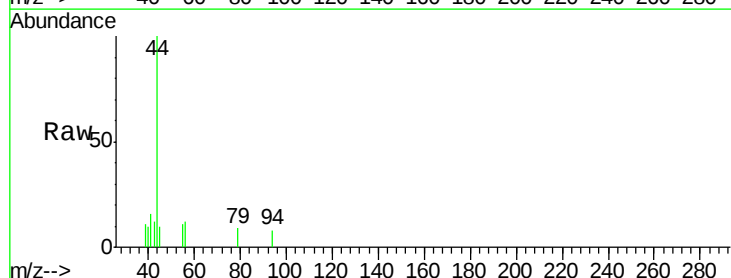
Acq: 28 Jun 2018 03:22

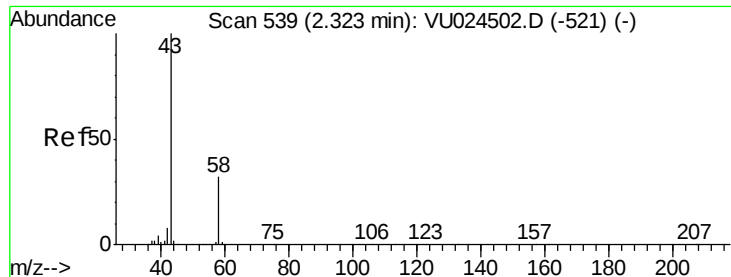
Tgt Ion: 56 Resp: 116

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#





#16

Acetone

Concen: 1.131 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024995.D

Acq: 28 Jun 2018 03:22

Instrument :

MSVOA_U

ClientSampleId :

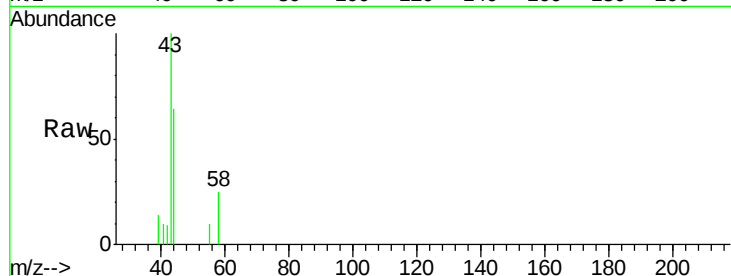
WP021SB477-29-31-180621ME

Tgt Ion: 43 Resp: 2107

Ion Ratio Lower Upper

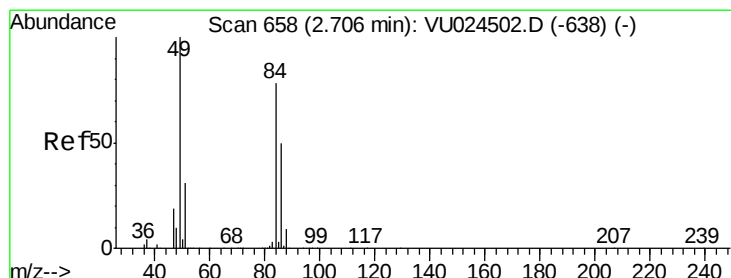
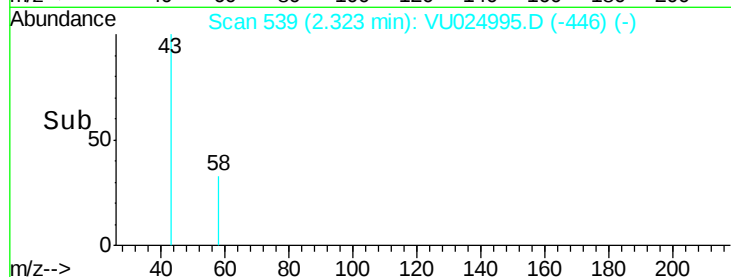
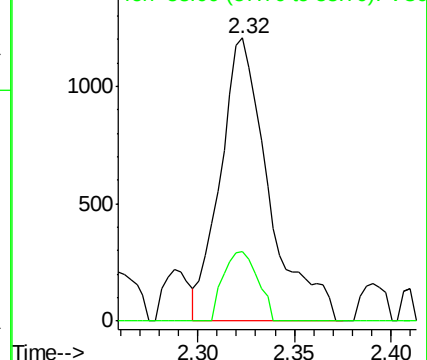
43 100

58 24.7 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#20

Methylene Chloride

Concen: 1.947 ug/l

RT: 2.71 min Scan# 658

Delta R.T. 0.00 min

Lab File: VU024995.D

Acq: 28 Jun 2018 03:22

Tgt Ion: 84 Resp: 5693

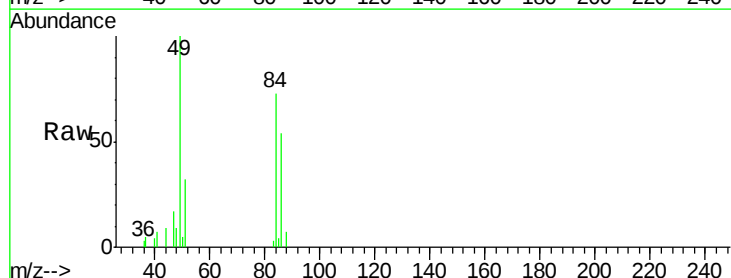
Ion Ratio Lower Upper

84 100

49 136.2 103.8 155.8

51 43.0 32.0 48.0

86 73.1 51.6 77.4

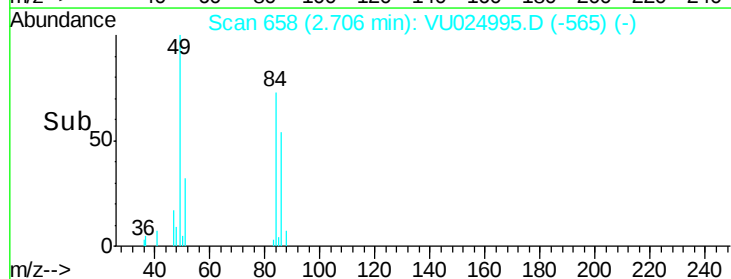
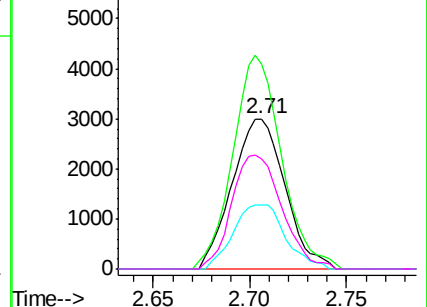


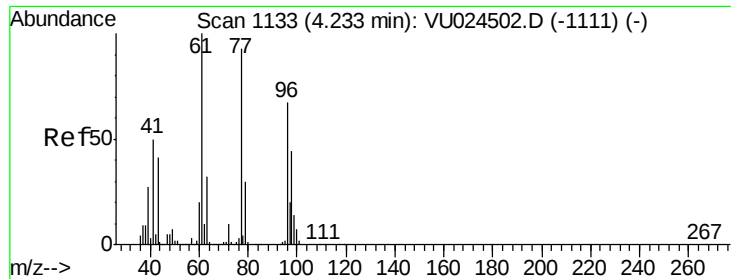
Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0

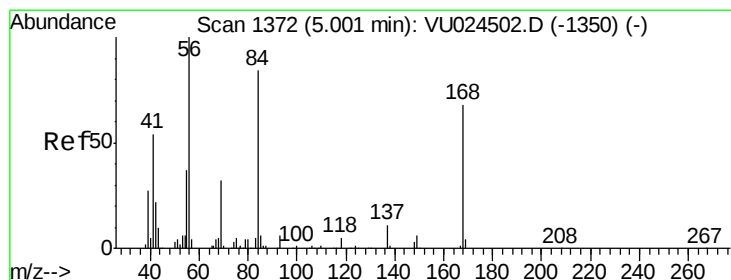
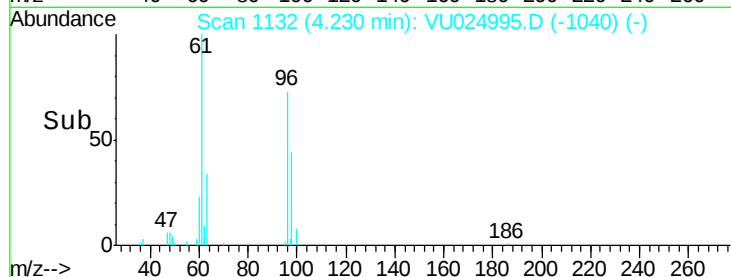
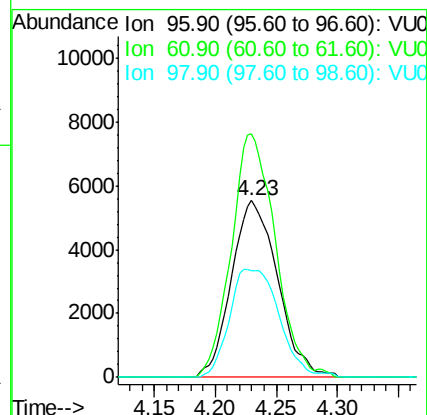
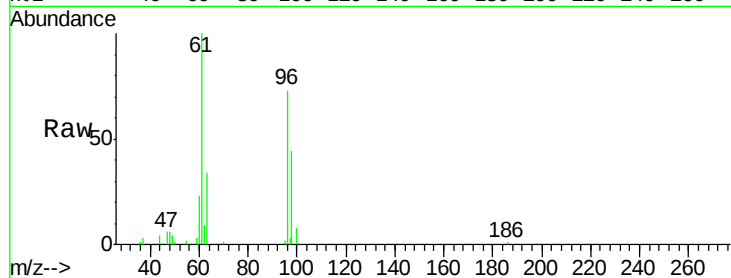




#27
 cis-1,2-Dichloroethene
 Concen: 4.747 ug/l
 RT: 4.23 min Scan# 1132
 Delta R.T. -0.00 min
 Lab File: VU024995.D
 Acq: 28 Jun 2018 03:22

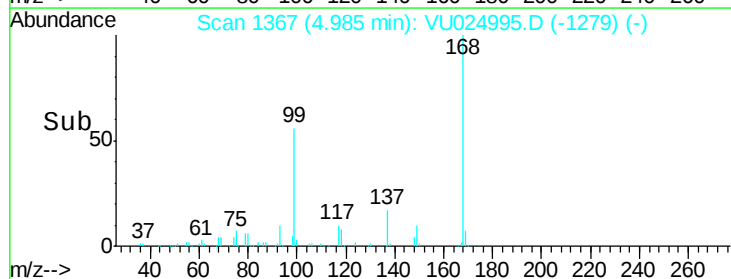
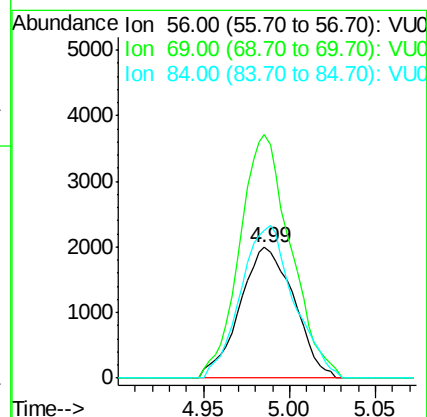
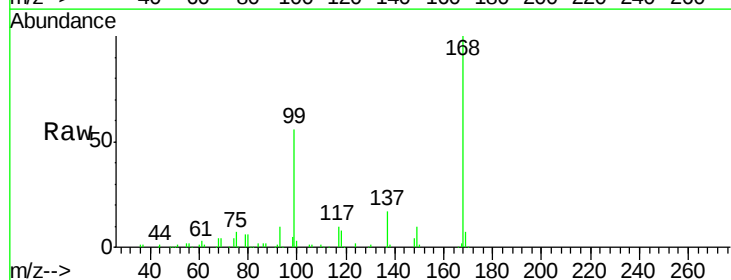
Instrument :
 MSVOA_U
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 WP021SB477-29-31-180621ME

Tgt Ion: 96 Resp: 14537
 Ion Ratio Lower Upper
 96 100
 61 131.6 0.0 306.6
 98 65.1 0.0 128.8



#31
 Cyclohexane
 Concen: Below Cal
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.02 min
 Lab File: VU024995.D
 Acq: 28 Jun 2018 03:22

Tgt Ion: 56 Resp: 4400
 Ion Ratio Lower Upper
 56 100
 69 186.3 24.8 37.2#
 84 112.9 65.2 97.8#

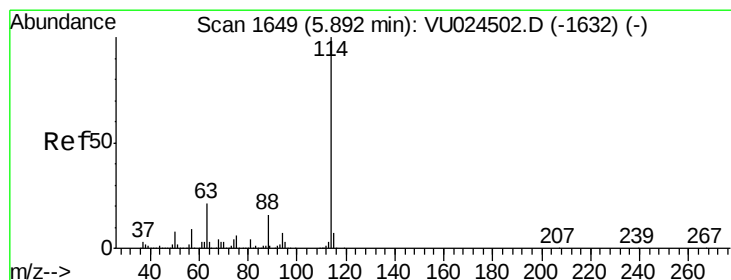
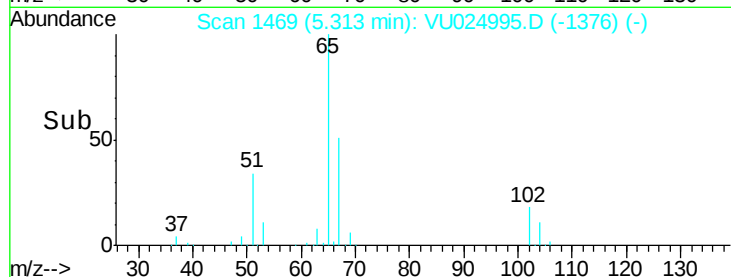
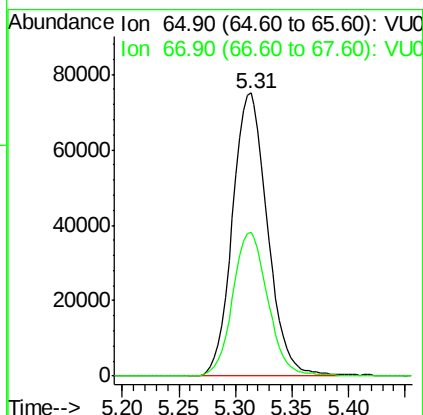
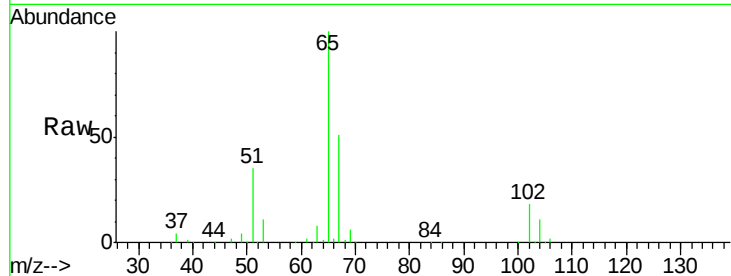




#33
 1,2-Dichloroethane-d4
 Concen: 46.605 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU024995.D
 Acq: 28 Jun 2018 03:22

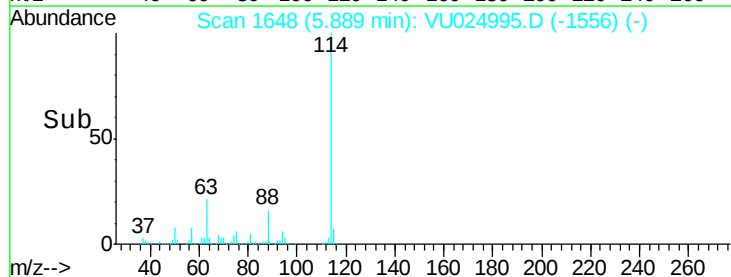
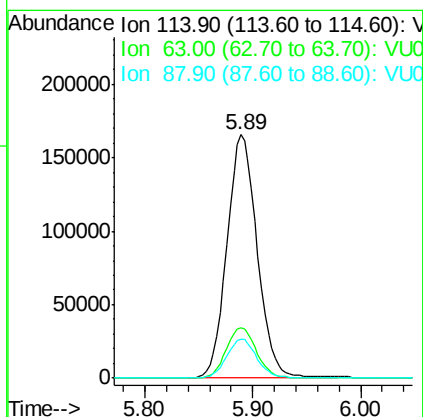
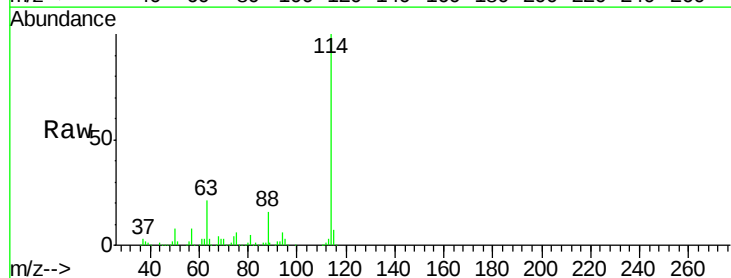
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB477-29-31-180621ME

Tgt Ion: 65 Resp: 161616
 Ion Ratio Lower Upper
 65 100
 67 50.8 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: VU024995.D
 Acq: 28 Jun 2018 03:22

Tgt Ion: 114 Resp: 324236
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 45.4
 88 16.2 0.0 31.0

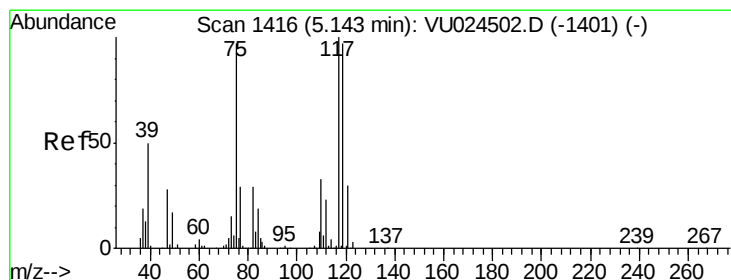
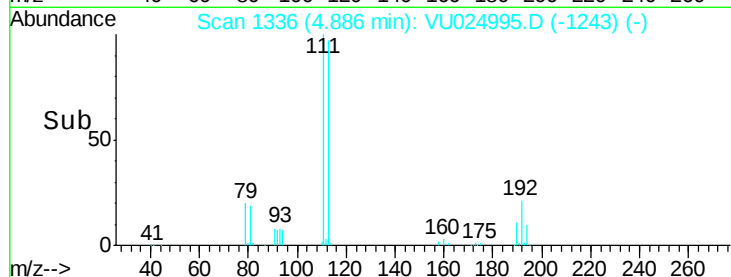
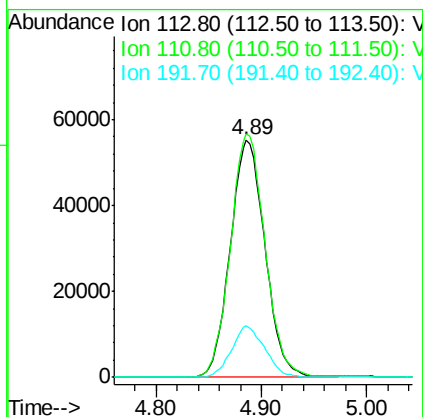
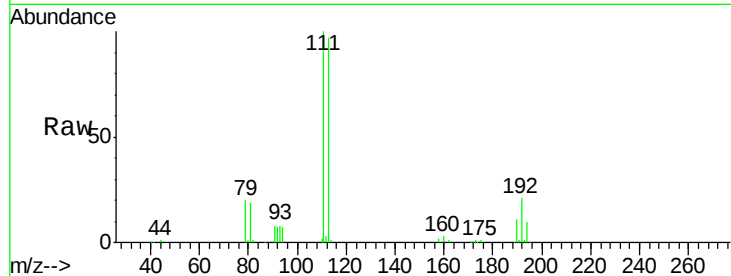




#35
 Dibromofluoromethane
 Concen: 46.979 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU024995.D
 Acq: 28 Jun 2018 03:22

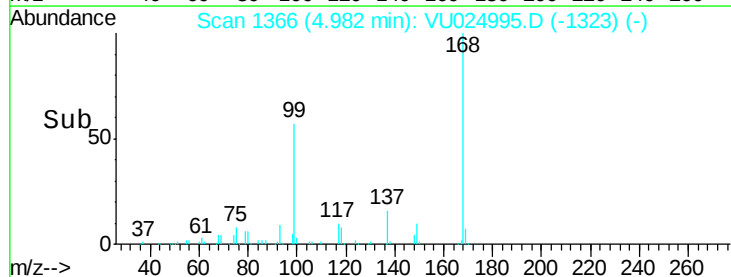
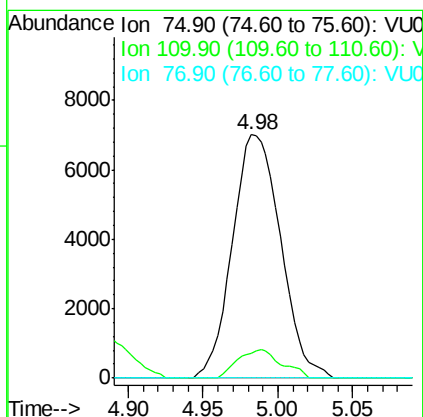
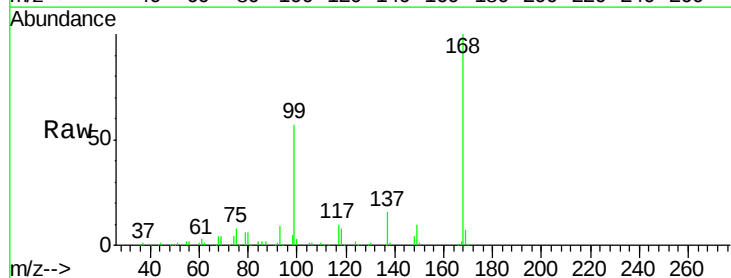
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB477-29-31-180621ME

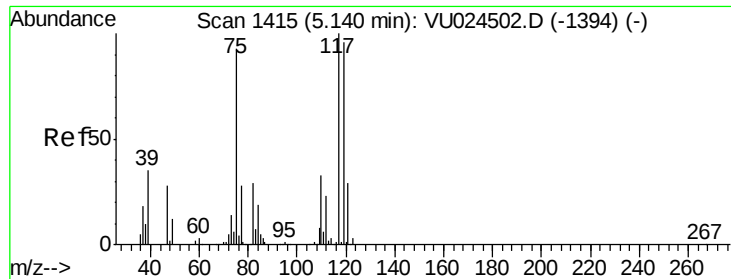
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.2	123.4
192	20.7	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 4.133 ug/l
 RT: 4.98 min Scan# 1366
 Delta R.T. -0.16 min
 Lab File: VU024995.D
 Acq: 28 Jun 2018 03:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.6	17.0	50.9#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 4.857 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.16 min

Lab File: VU024995.D

Acq: 28 Jun 2018 03:22

Instrument :

MSVOA_U

ClientSampleId :

WP021SB477-29-31-180621ME

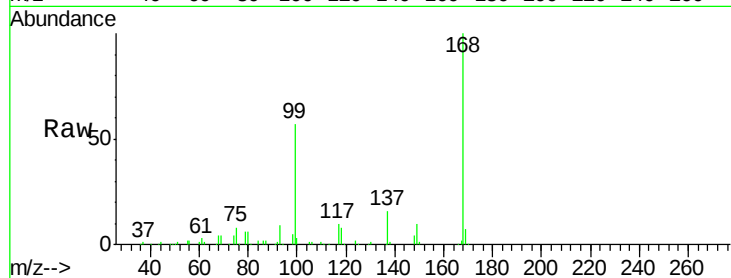
Tgt Ion:117 Resp: 20350

Ion Ratio Lower Upper

117 100

119 4.1 76.1 114.1#

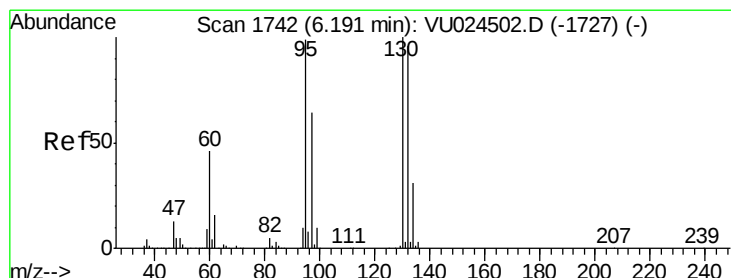
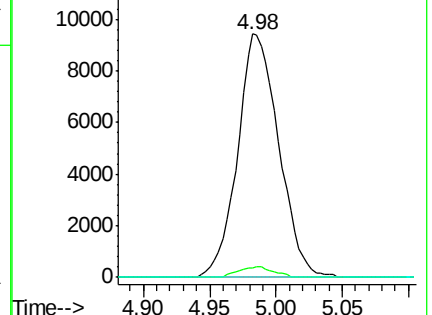
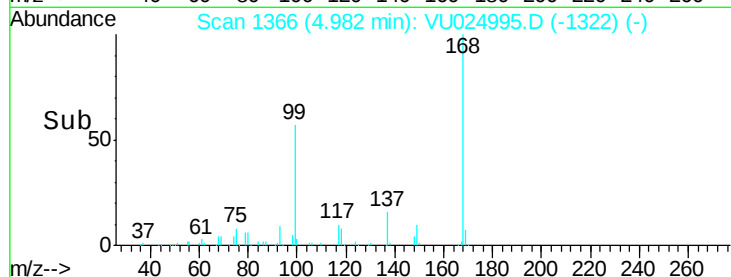
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 1.848 ug/l

RT: 6.19 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VU024995.D

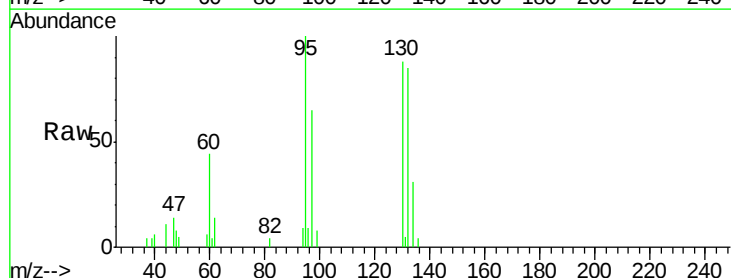
Acq: 28 Jun 2018 03:22

Tgt Ion:130 Resp: 5710

Ion Ratio Lower Upper

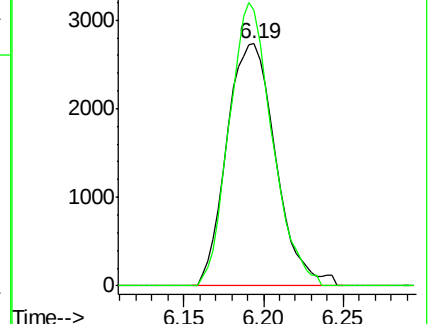
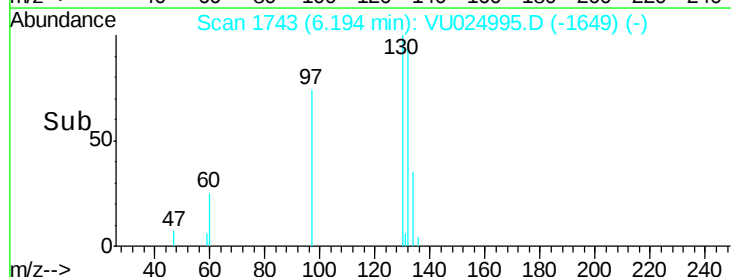
130 100

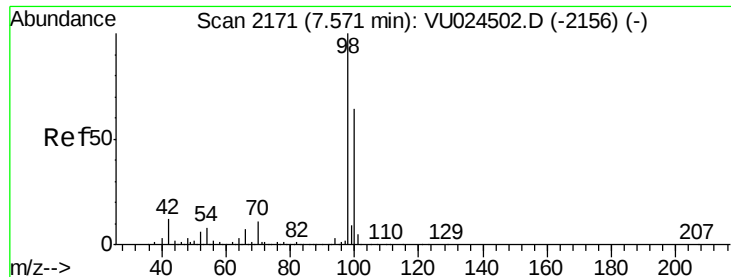
95 113.8 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0





#50

Toluene-d8

Concen: 47.625 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024995.D

Acq: 28 Jun 2018 03:22

Instrument :

MSVOA_U

ClientSampleId :

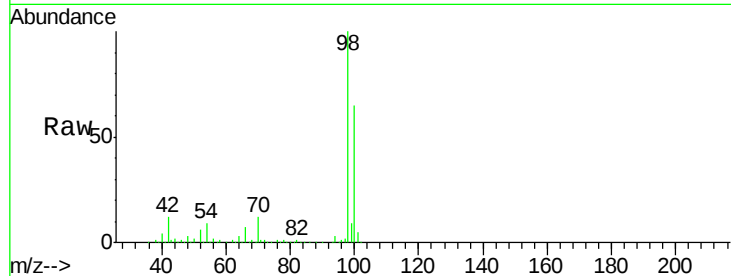
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Tgt Ion: 98 Resp: 467455

Ion Ratio Lower Upper

98 100

100 64.7 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

300000

250000

200000

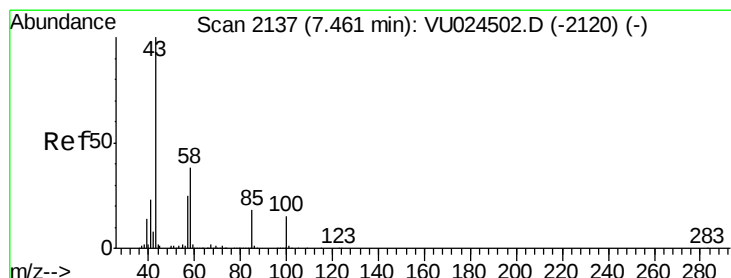
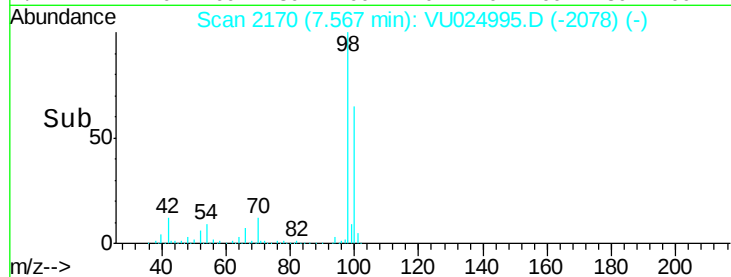
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.541 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.11 min

Lab File: VU024995.D

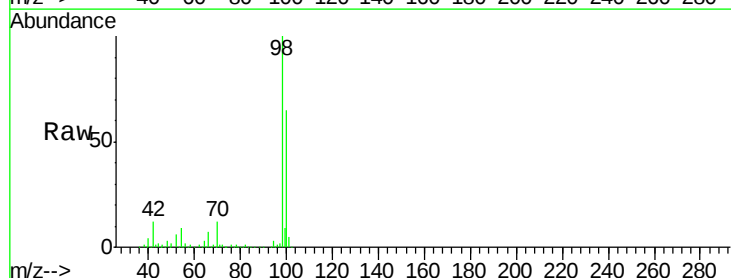
Acq: 28 Jun 2018 03:22

Tgt Ion: 43 Resp: 2439

Ion Ratio Lower Upper

43 100

58 153.8 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) (-)

7.57

2500

2000

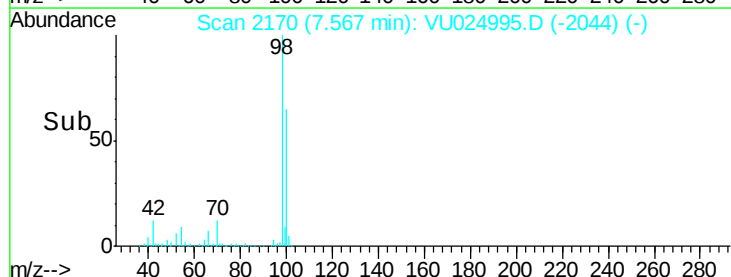
1500

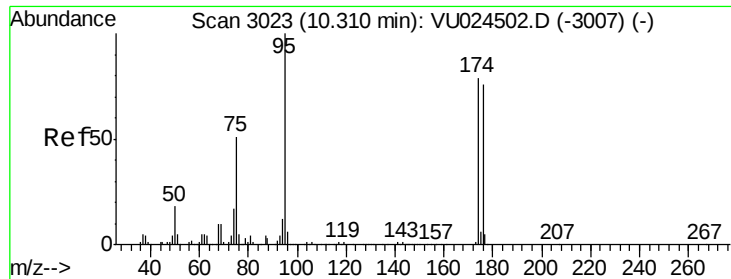
1000

500

0

Time-->

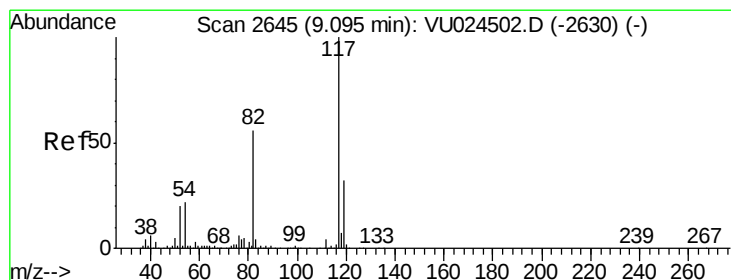
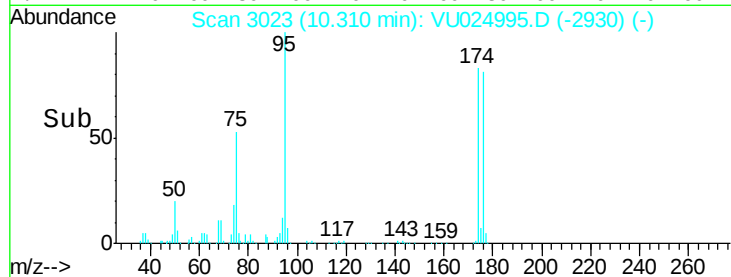
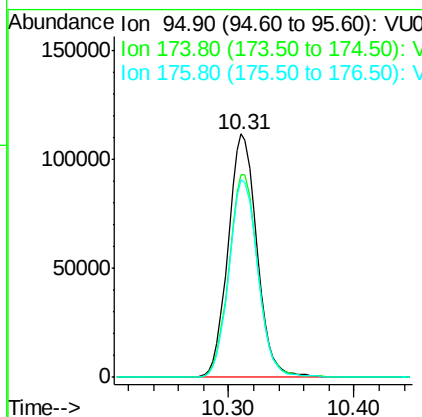
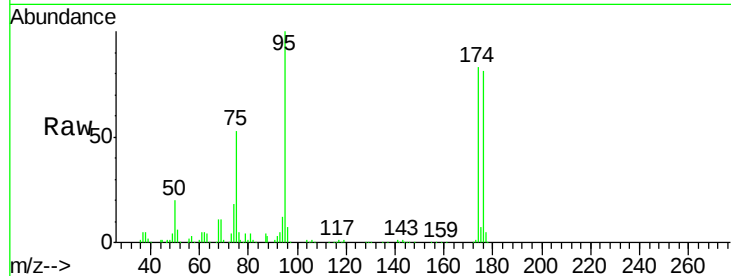




#62
4-Bromofluorobenzene
Concen: 45.601 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU024995.D
Acq: 28 Jun 2018 03:22

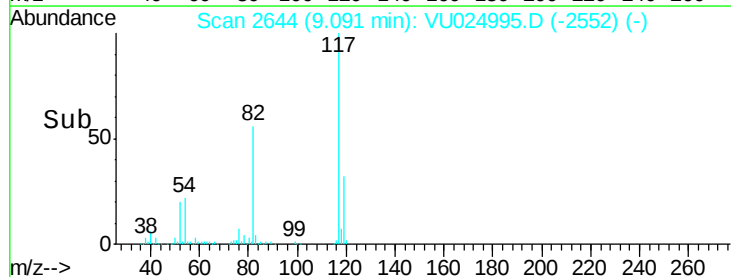
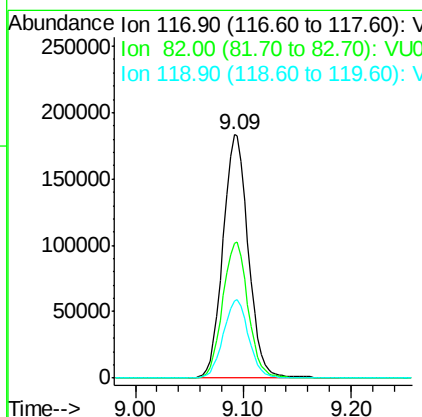
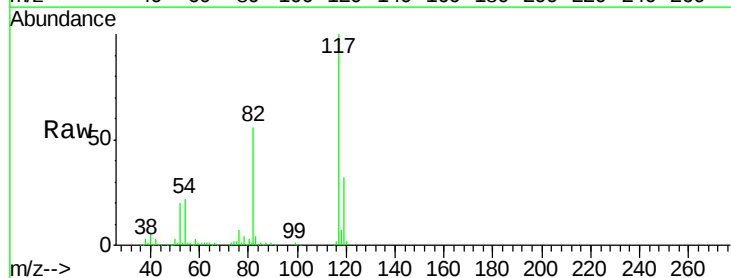
Instrument :
MSVOA_U
ClientSampleId :
WP021SB477-29-31-180621ME

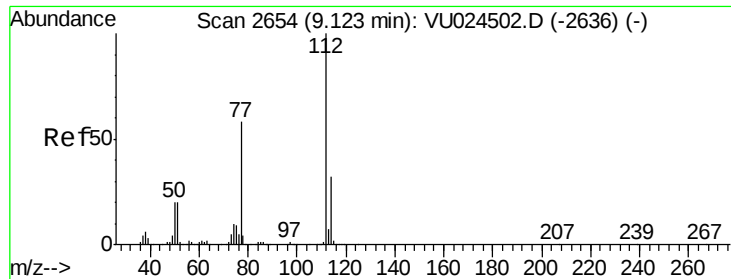
Tgt Ion: 95 Resp: 177710
Ion Ratio Lower Upper
95 100
174 84.0 0.0 165.8
176 81.8 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU024995.D
Acq: 28 Jun 2018 03:22

Tgt Ion: 117 Resp: 299786
Ion Ratio Lower Upper
117 100
82 55.6 44.3 66.5
119 31.8 25.4 38.2





#65

Chlorobenzene

Concen: 0.367 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VU024995.D

Acq: 28 Jun 2018 03:22

Instrument :

MSVOA_U

ClientSampleId :

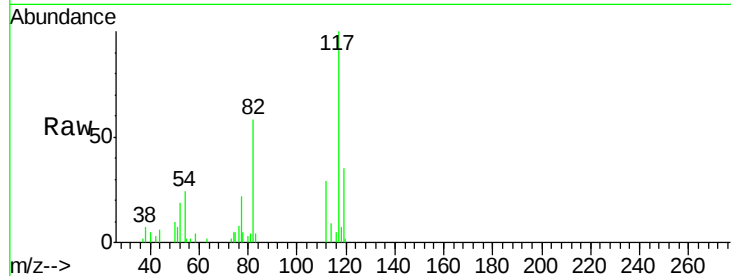
WP021SB477-29-31-180621ME

Tgt Ion:112 Resp: 2814

Ion Ratio Lower Upper

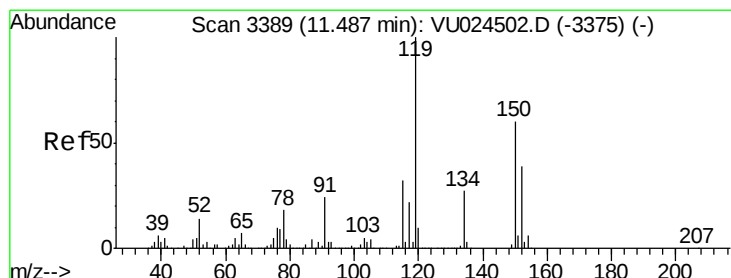
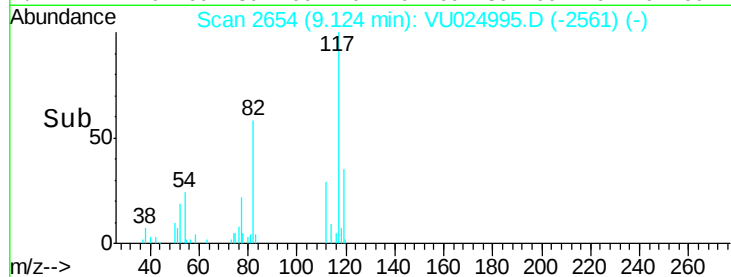
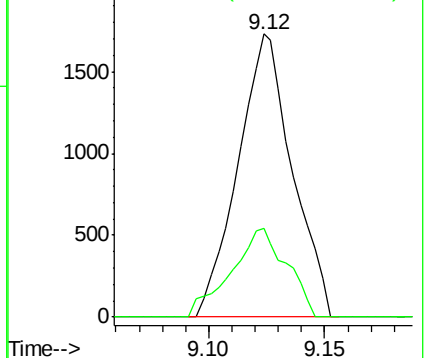
112 100

114 31.3 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: VU024995.D

Acq: 28 Jun 2018 03:22

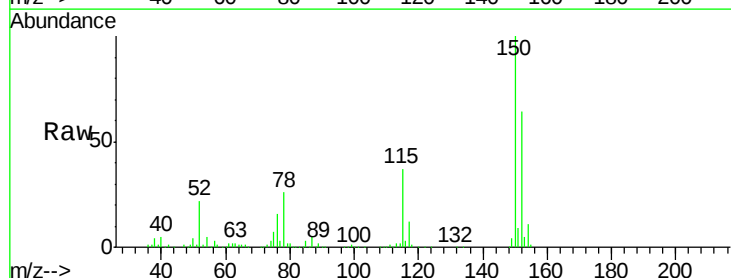
Tgt Ion:152 Resp: 164732

Ion Ratio Lower Upper

152 100

115 58.3 43.0 129.0

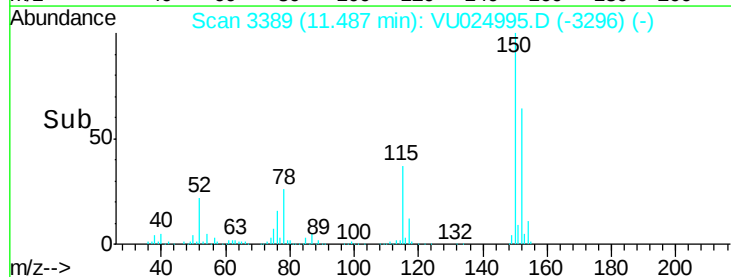
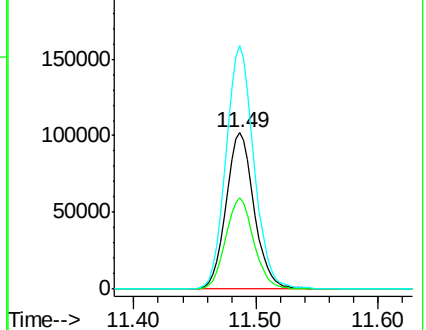
150 155.3 0.0 354.0

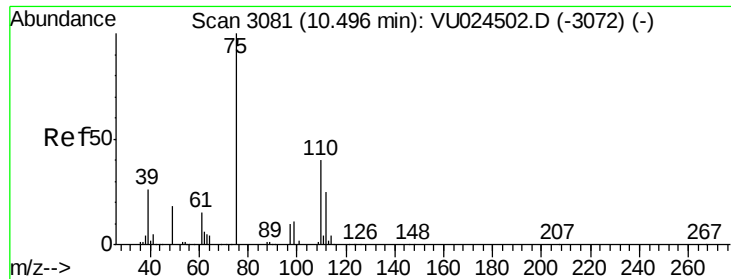


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.757 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024995.D

Acq: 28 Jun 2018 03:22

Instrument :

MSVOA_U

ClientSampleId :

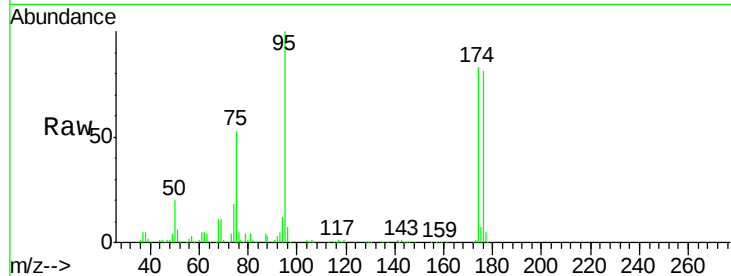
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Tgt Ion: 75 Resp: 93414

Ion Ratio Lower Upper

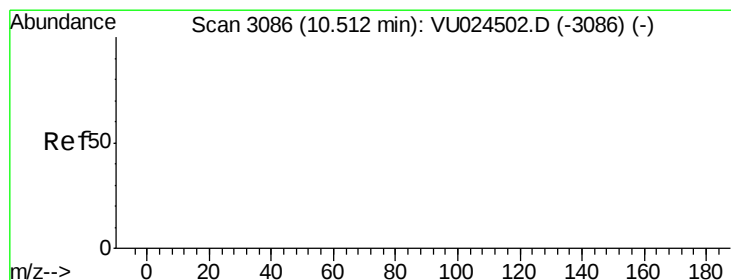
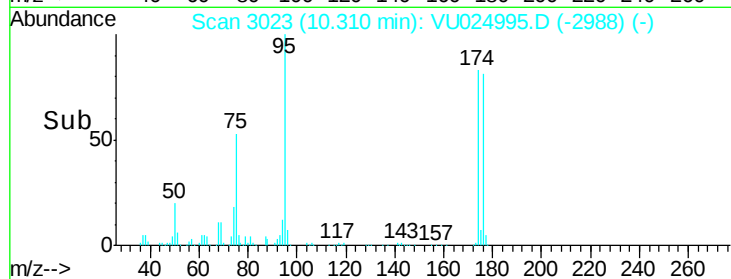
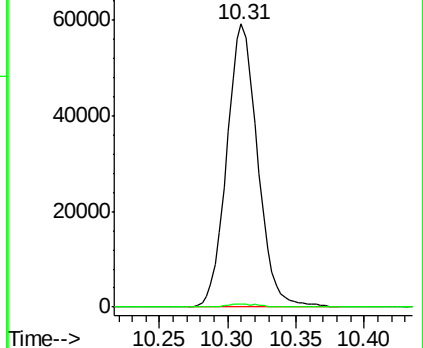
75 100

77 1.1 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: 59.611 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024995.D

Acq: 28 Jun 2018 03:22

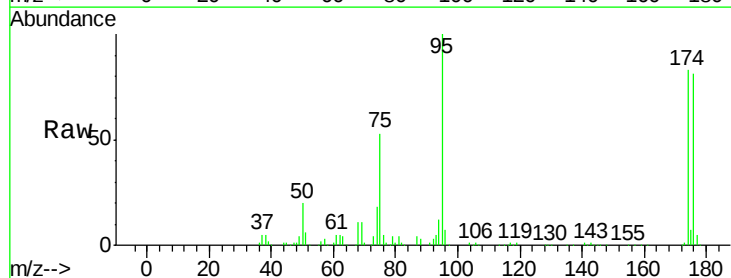
Tgt Ion: 75 Resp: 93414

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

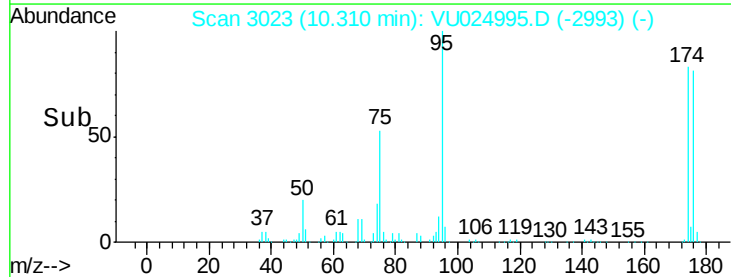
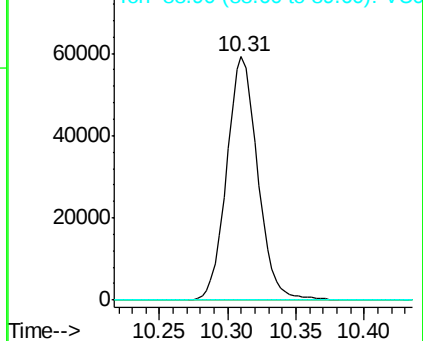
89 0.0 0.0 0.0

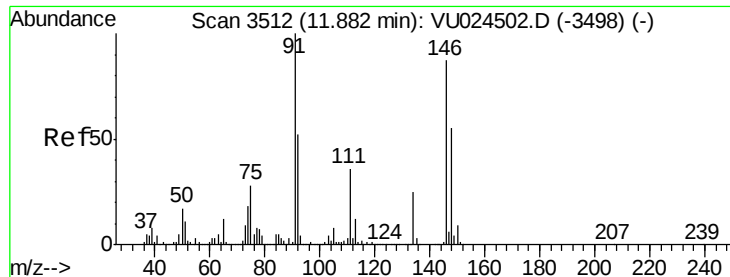


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#91

1,2-Dichlorobenzene

Concen: 0.238 ug/l

RT: 11.89 min Scan# 3514

Delta R.T. 0.01 min

Lab File: VU024995.D

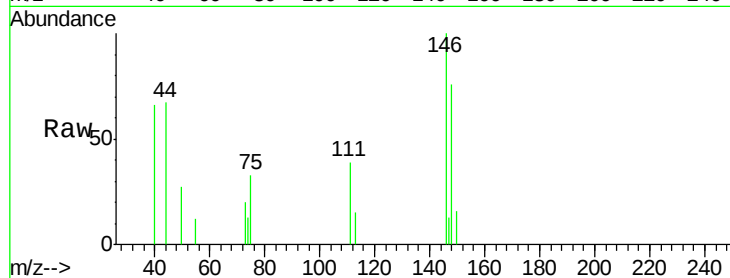
Acq: 28 Jun 2018 03:22

Instrument :

MSVOA_U

ClientSampleId :

WP021SB477-29-31-180621ME



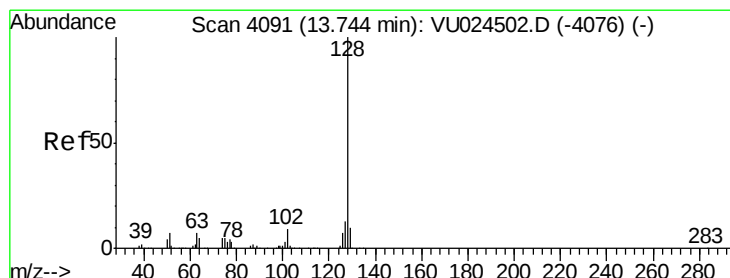
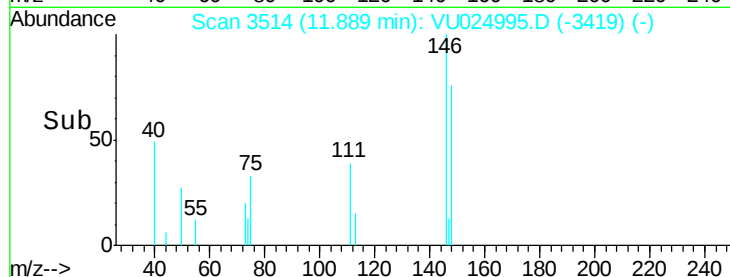
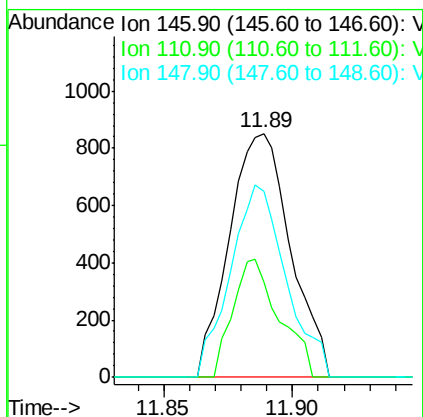
Tgt Ion:146 Resp: 1411

Ion Ratio Lower Upper

146 100

111 36.6 20.5 61.6

148 71.8 31.9 95.7



#95

Naphthalene

Concen: 0.692 ug/l

RT: 13.78 min Scan# 4102

Delta R.T. 0.04 min

Lab File: VU024995.D

Acq: 28 Jun 2018 03:22

Tgt Ion:128 Resp: 162

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#

