

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062518\
 Data File : VU024877.D
 Acq On : 25 Jun 2018 16:08
 Operator : MD/SY
 Sample : J3662-09DL 100X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 26 05:15:32 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	201870	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	309636	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	287432	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	155334	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	150471	45.66	ug/l	0.00
Spiked Amount			Recovery	=	91.32%	
35) Dibromofluoromethane	4.89	113	120105	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	
50) Toluene-d8	7.57	98	451798	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	
62) 4-Bromofluorobenzene	10.31	95	166461	44.73	ug/l	0.00
Spiked Amount			Recovery	=	89.46%	

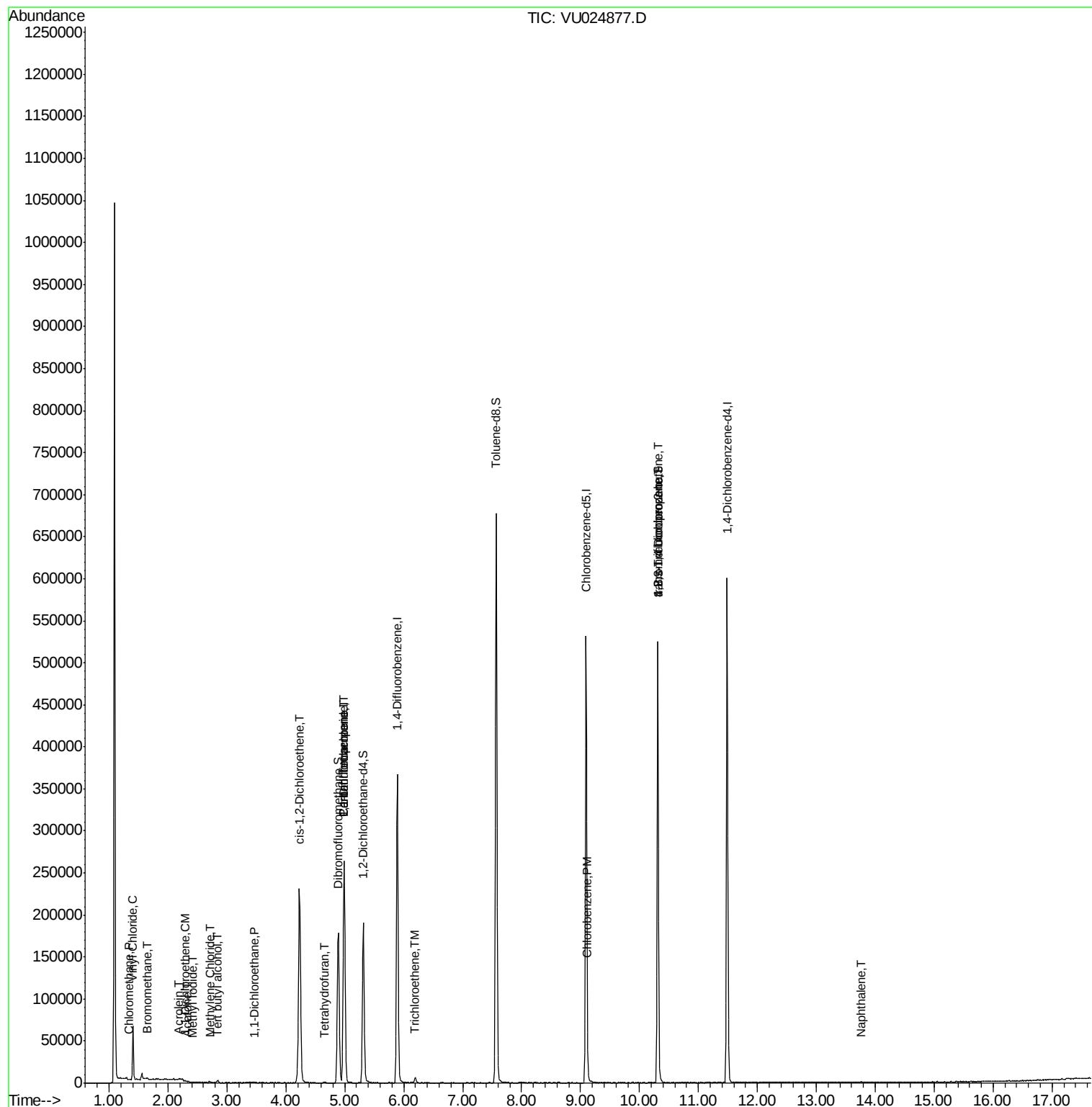
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	663	0.26	ug/l #	87
4) Vinyl Chloride	1.40	62	39400	14.80	ug/l	100
5) Bromomethane	1.64	94	472	0.37	ug/l #	80
8) Diethyl Ether	2.23	74	20	Below Cal		91
10) Methyl Iodide	2.42	142	221	5.38	ug/l #	61
11) Tert butyl alcohol	2.84	59	1648	2.06	ug/l #	72
12) 1,1-Dichloroethene	2.29	96	536	0.23	ug/l #	71
13) Acrolein	2.18	56	376	0.89	ug/l #	51
16) Acetone	2.32	43	470	0.27	ug/l	92
20) Methylene Chloride	2.71	84	621	0.22	ug/l #	85
24) 1,1-Dichloroethane	3.46	63	1050	0.22	ug/l #	83
27) cis-1,2-Dichloroethene	4.23	96	129744	44.58	ug/l	89
29) Tetrahydrofuran	4.65	42	329	0.22	ug/l #	34
31) Cyclohexane	4.99	56	4182	Below Cal	#	20
36) 1,1-Dichloropropene	4.99	75	14911	4.10	ug/l #	50
38) Carbon Tetrachloride	4.99	117	18960	4.74	ug/l #	16
44) Trichloroethene	6.19	130	2330	0.79	ug/l	79
65) Chlorobenzene	9.12	112	3728	0.51	ug/l	94
76) 1,2,3-Trichloropropane	10.31	75	88092	25.76	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	88092	59.62	ug/l #	100
95) Naphthalene	13.76	128	1551	0.81	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024877.D

Acq: 25 Jun 2018 16:08

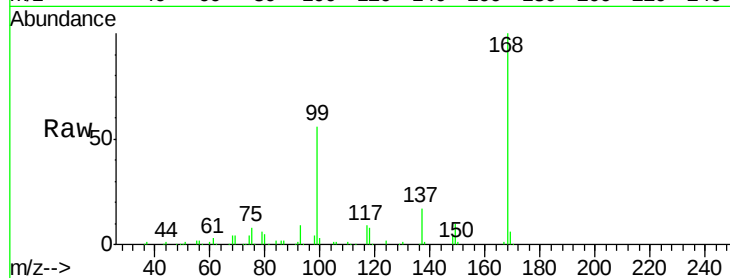
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 201870

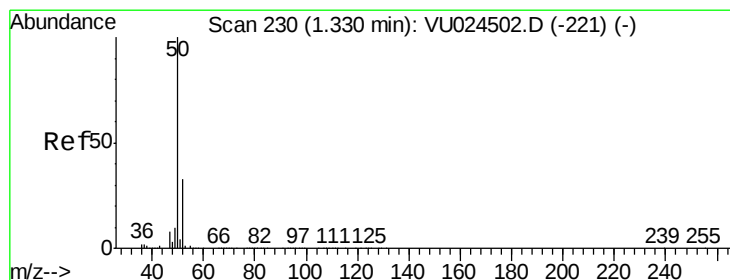
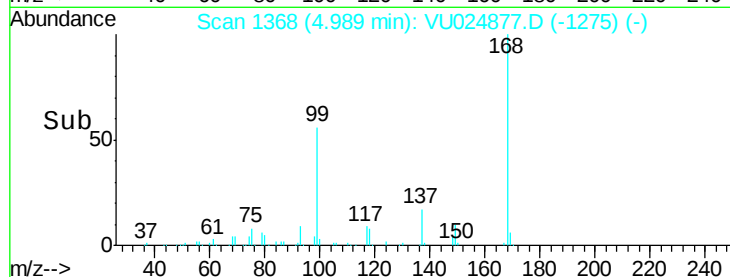
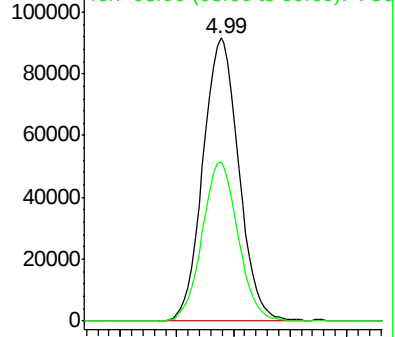
Ion Ratio Lower Upper

168 100

99 56.4 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024877.D (-1275) (-)



#3

Chloromethane

Concen: 0.26 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024877.D

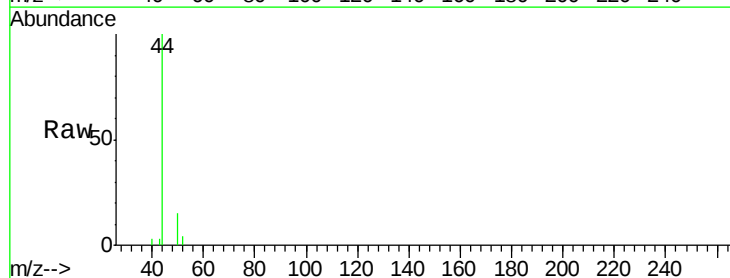
Acq: 25 Jun 2018 16:08

Tgt Ion: 50 Resp: 663

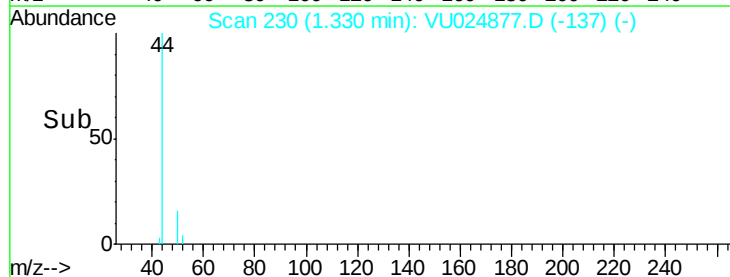
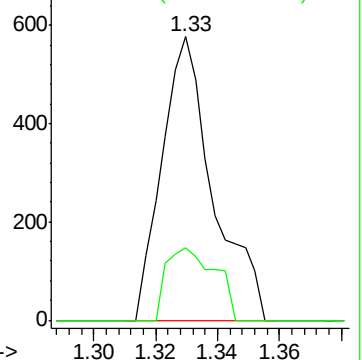
Ion Ratio Lower Upper

50 100

52 25.6 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024877.D (-137) (-)





#4

Vinyl Chloride

Concen: 14.80 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024877.D

Acq: 25 Jun 2018 16:08

Instrument :

MSVOA_U

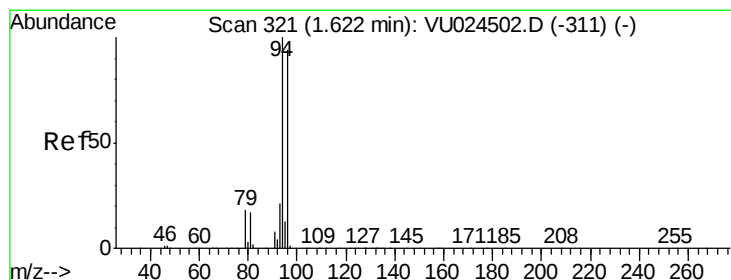
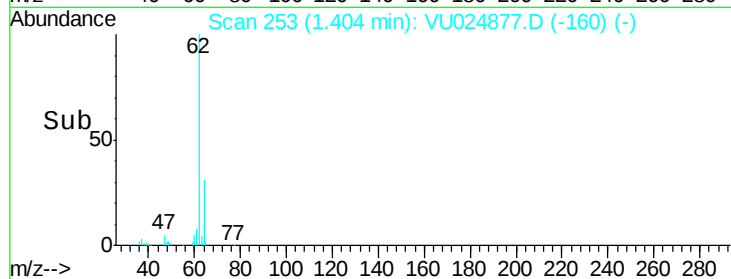
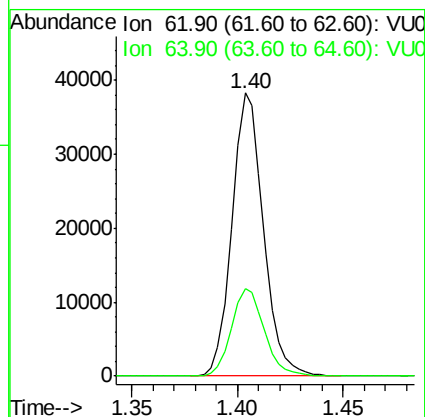
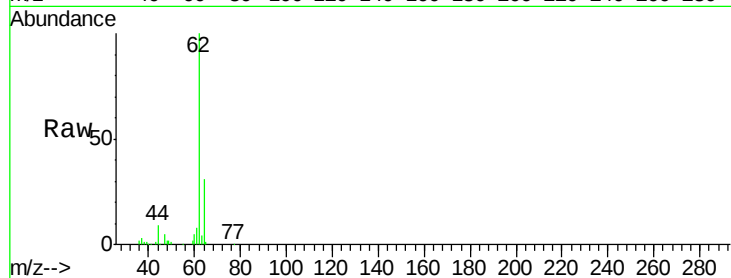
ClientSampleId :

Tot Ion: 62 Resp: 39400

Ion Ratio Lower Upper

62 100

64 31.0 24.8 37.2



#5

Bromomethane

Concen: 0.37 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU024877.D

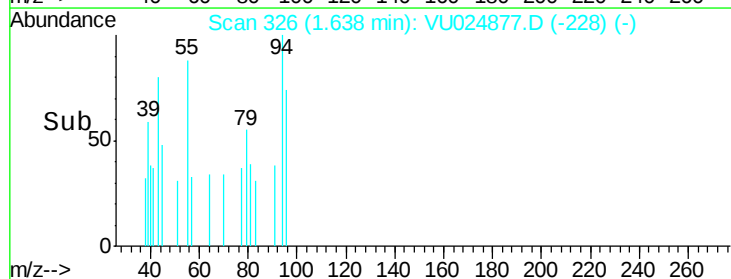
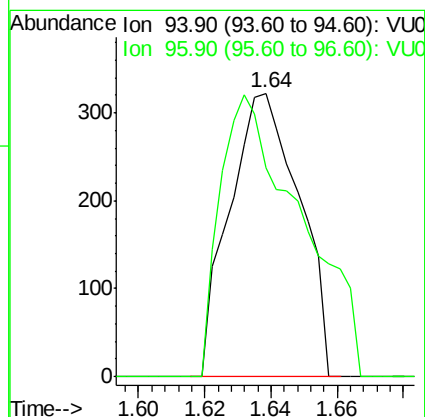
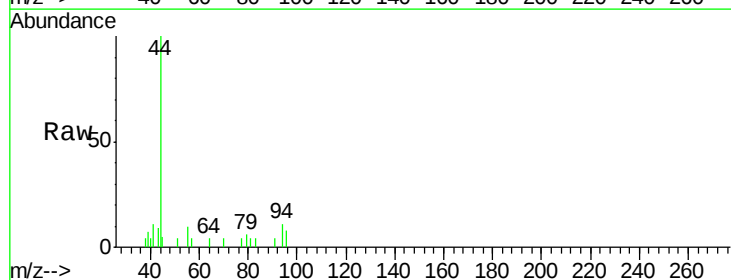
Acq: 25 Jun 2018 16:08

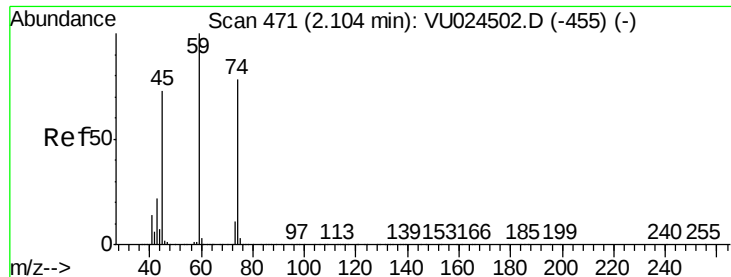
Tgt Ion: 94 Resp: 472

Ion Ratio Lower Upper

94 100

96 73.6 74.5 111.7#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.23 min Scan# 510

Delta R.T. 0.13 min

Lab File: VU024877.D

Acq: 25 Jun 2018 16:08

Instrument :

MSVOA_U

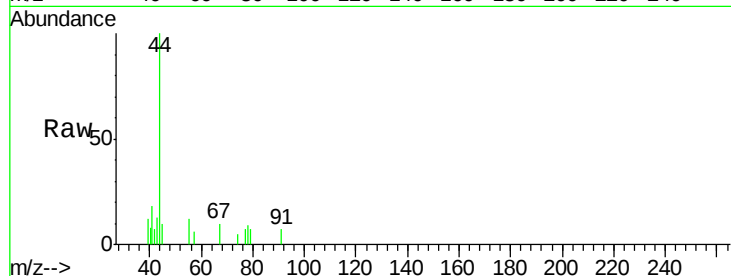
ClientSampleId :

Tot Ion: 74 Resp: 20

Ion Ratio Lower Upper

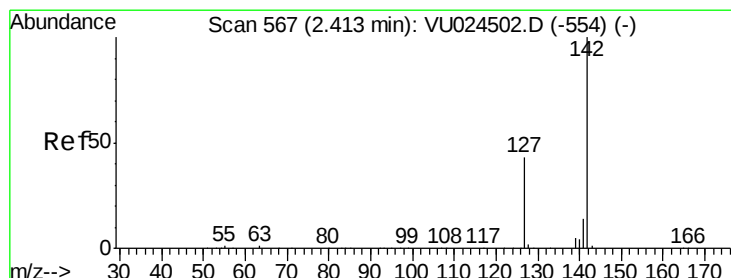
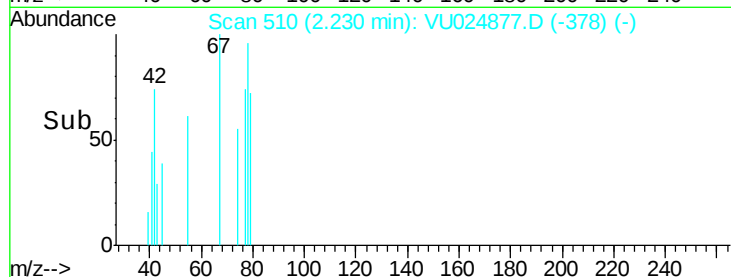
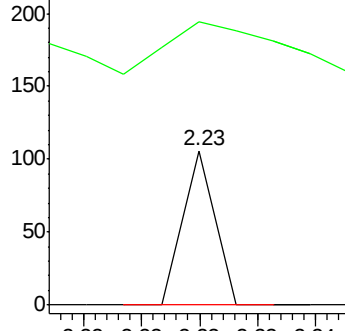
74 100

45 100.0 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0



#10

Methyl Iodide

Concen: 5.38 ug/l

RT: 2.42 min Scan# 570

Delta R.T. 0.01 min

Lab File: VU024877.D

Acq: 25 Jun 2018 16:08

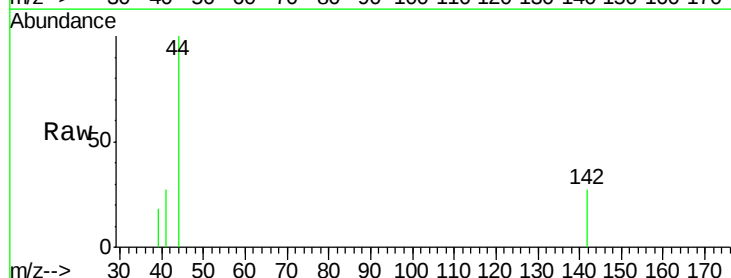
Tgt Ion: 142 Resp: 221

Ion Ratio Lower Upper

142 100

127 18.1 35.6 53.4#

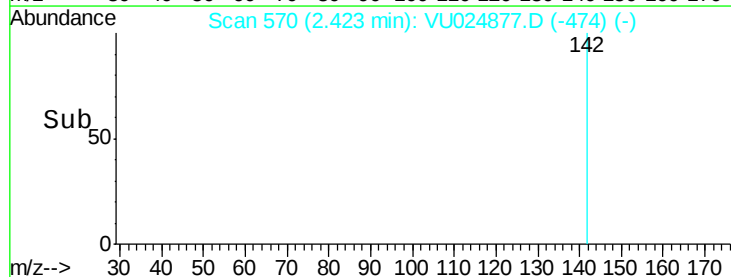
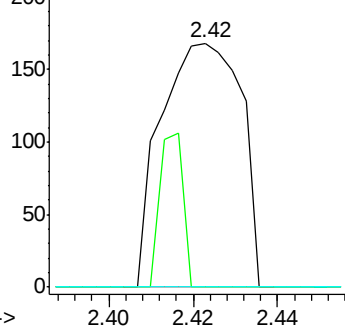
141 0.0 11.7 17.5#



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

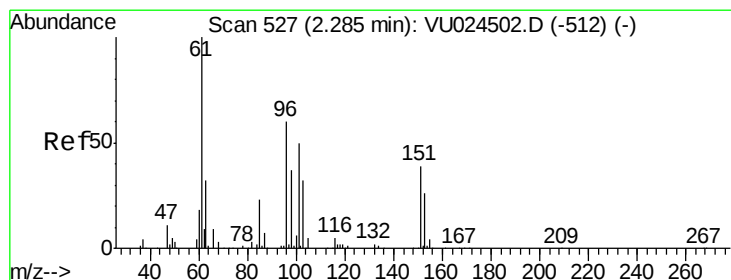
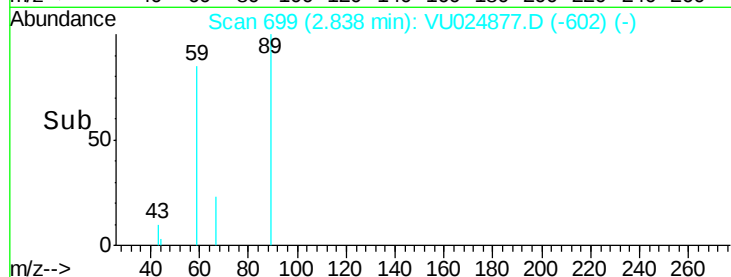
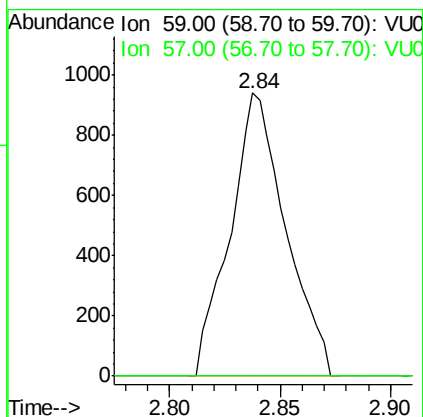
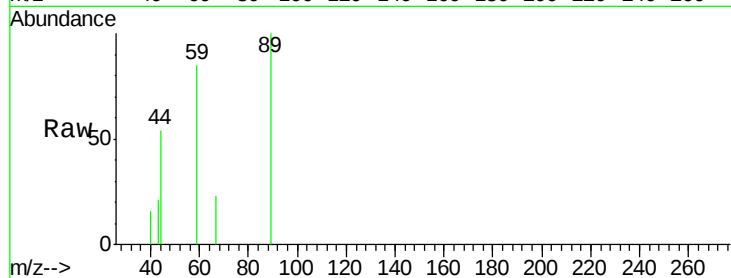




#11
Tert butyl alcohol
Concen: 2.06 ug/l
RT: 2.84 min Scan# 699
Delta R.T. 0.01 min
Lab File: VU024877.D
Acq: 25 Jun 2018 16:08

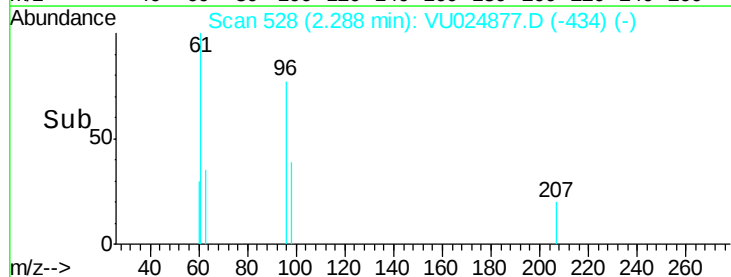
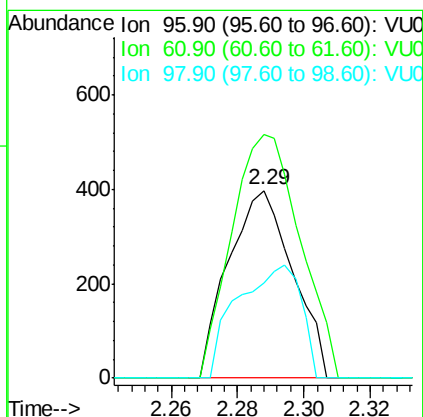
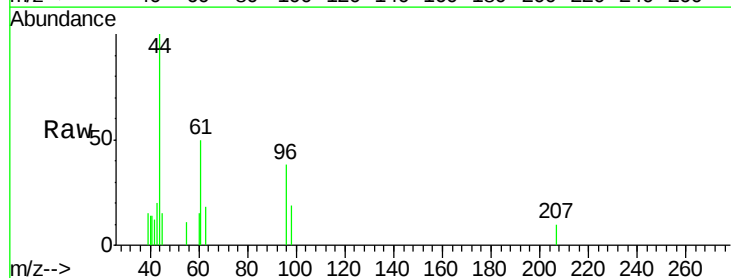
Instrument :
MSVOA_U
ClientSampled :

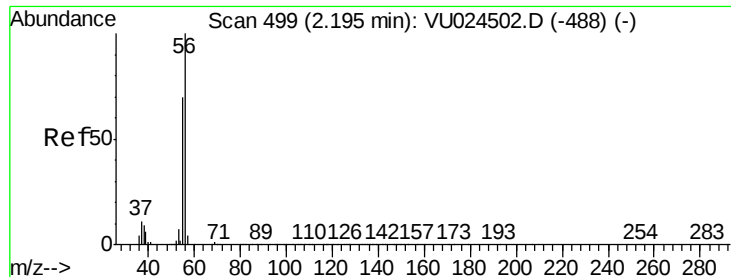
Tot Ion: 59 Resp: 1648
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#12
1,1-Dichloroethene
Concen: 0.23 ug/l
RT: 2.29 min Scan# 528
Delta R.T. 0.00 min
Lab File: VU024877.D
Acq: 25 Jun 2018 16:08

Tgt Ion: 96 Resp: 536
Ion Ratio Lower Upper
96 100
61 130.0 141.7 212.5#
98 50.6 51.6 77.4#





#13

Acrolein

Concen: 0.89 ug/l

RT: 2.18 min Scan# 496

Delta R.T. -0.01 min

Lab File: VU024877.D

Acq: 25 Jun 2018 16:08

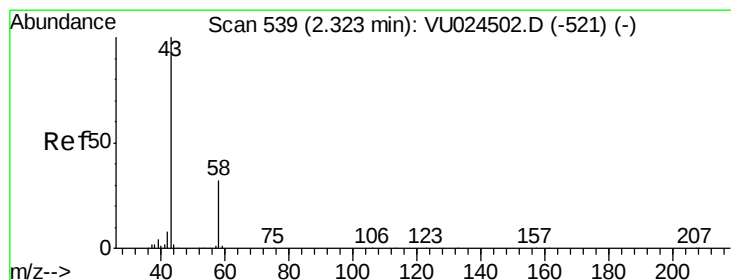
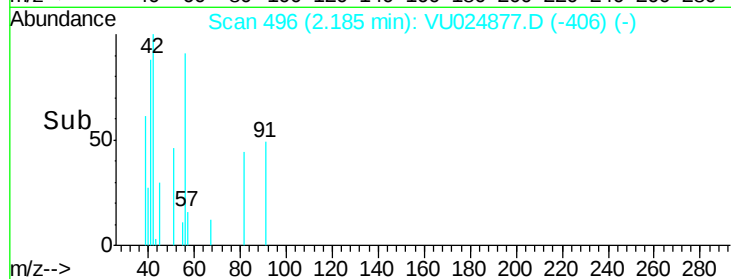
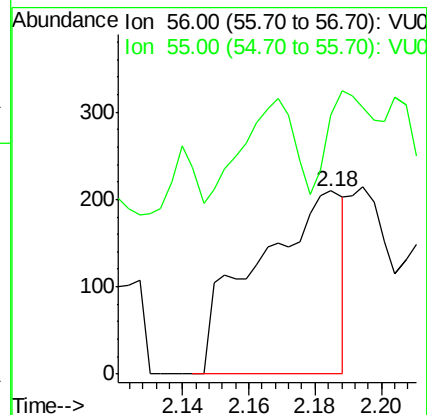
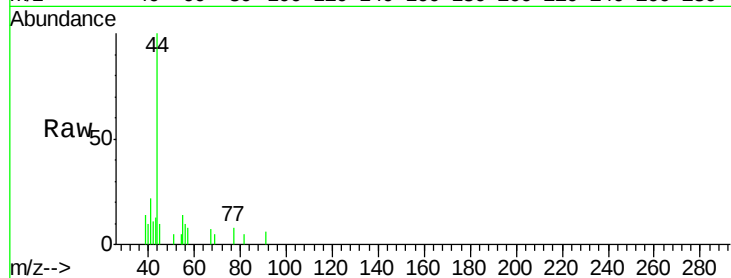
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 376

Ion Ratio Lower Upper

56 100

55 31.9 58.4 87.6#



#16

Acetone

Concen: 0.27 ug/l

RT: 2.32 min Scan# 537

Delta R.T. -0.01 min

Lab File: VU024877.D

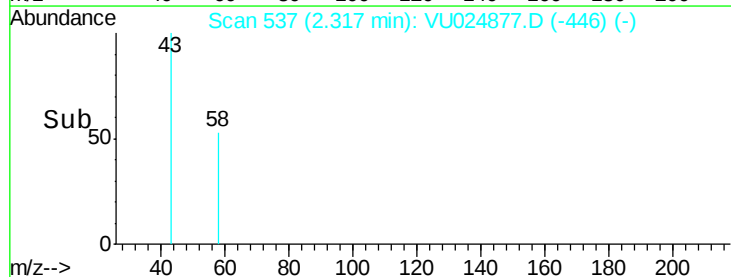
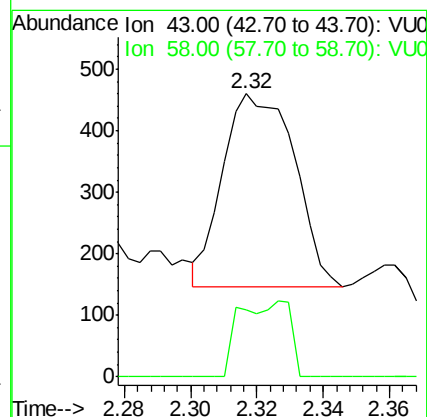
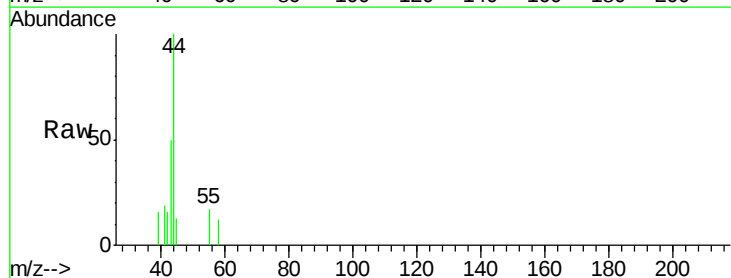
Acq: 25 Jun 2018 16:08

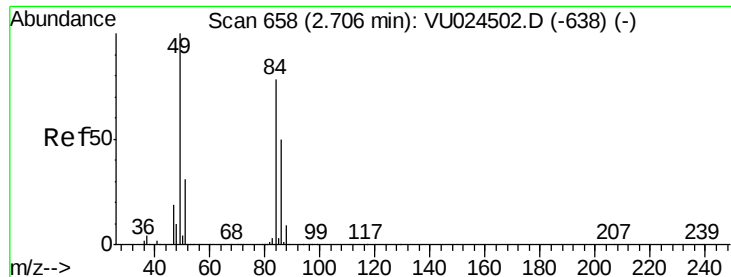
Tgt Ion: 43 Resp: 470

Ion Ratio Lower Upper

43 100

58 34.7 24.4 36.6

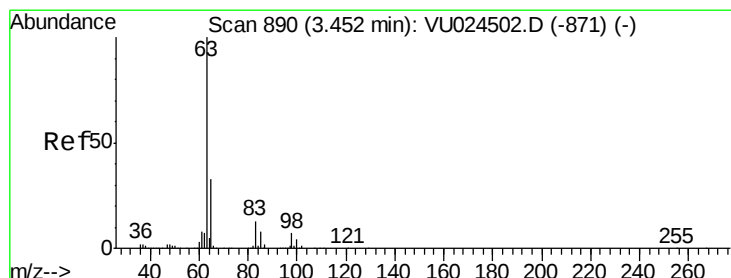
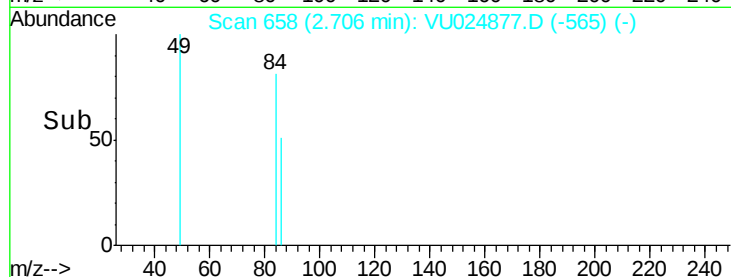
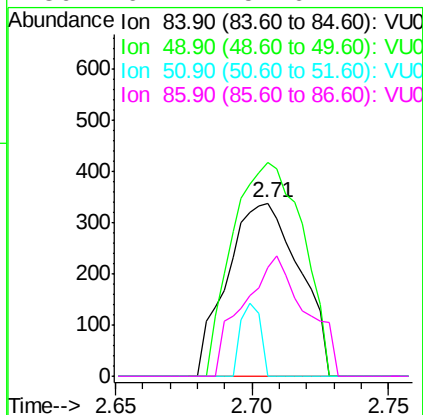
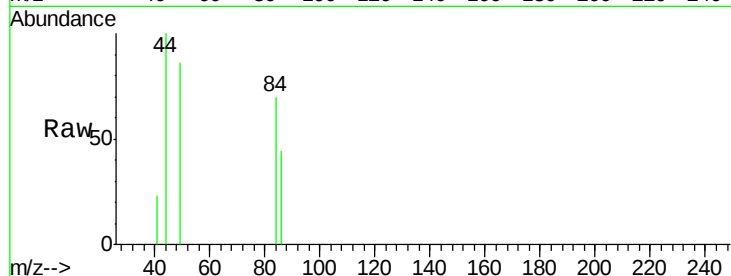




#20
Methvlene Chloride
Concen: 0.22 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU024877.D
Acq: 25 Jun 2018 16:08

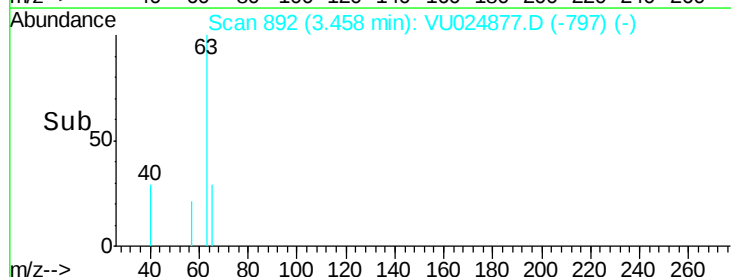
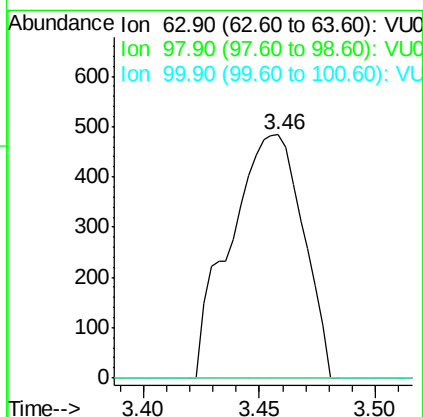
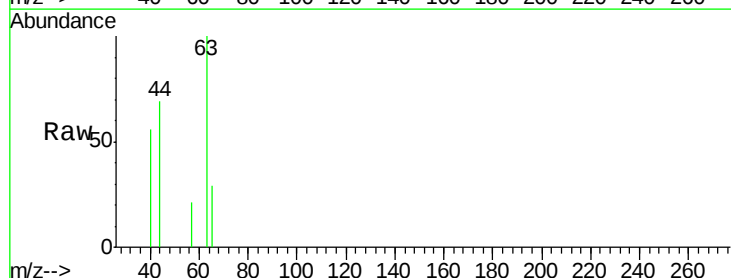
Instrument :
MSVOA_U
ClientSampled :

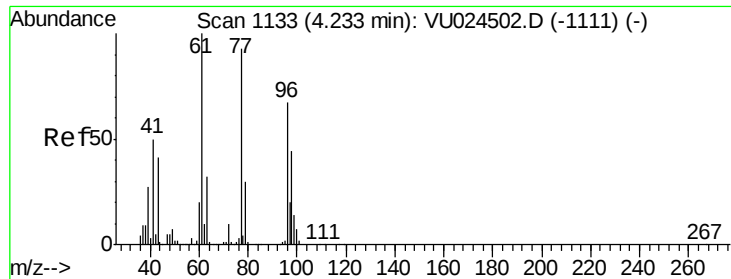
Tot Ion: 84 Resp: 621
Ion Ratio Lower Upper
84 100
49 123.4 103.8 155.8
51 0.0 32.0 48.0#
86 62.4 51.6 77.4



#24
1,1-Dichloroethane
Concen: 0.22 ug/l
RT: 3.46 min Scan# 892
Delta R.T. 0.01 min
Lab File: VU024877.D
Acq: 25 Jun 2018 16:08

Tgt Ion: 63 Resp: 1050
Ion Ratio Lower Upper
63 100
98 0.0 3.5 10.4#
100 0.0 1.8 5.5#

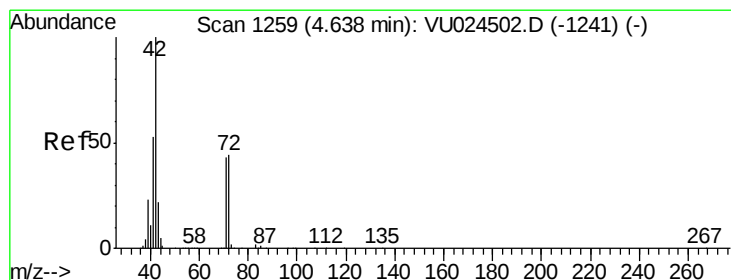
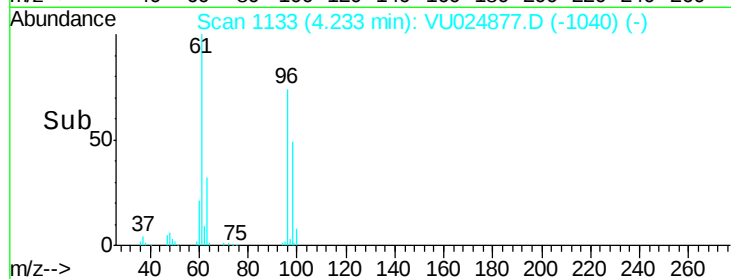
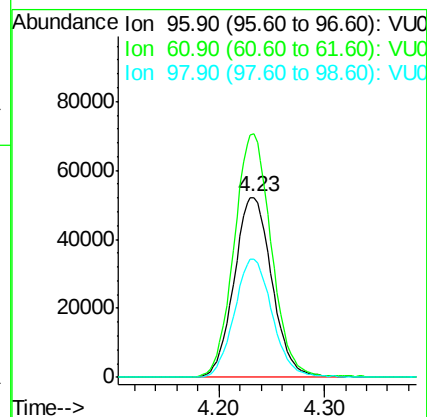
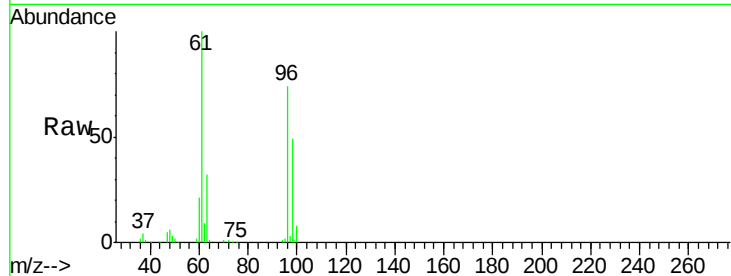




#27
 cis-1,2-Dichloroethene
 Concen: 44.58 ug/l
 RT: 4.23 min Scan# 1133
 Delta R.T. 0.00 min
 Lab File: VU024877.D
 Acq: 25 Jun 2018 16:08

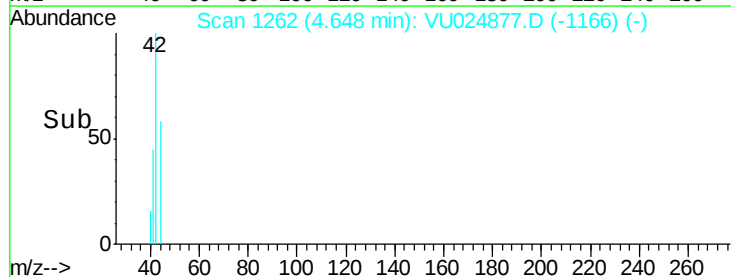
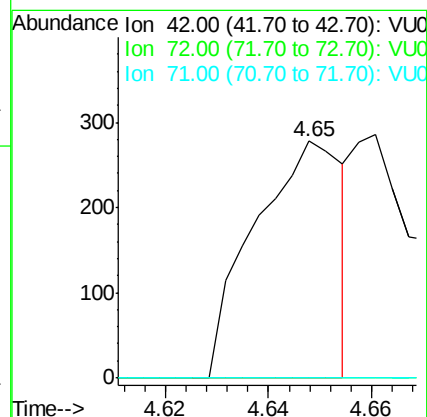
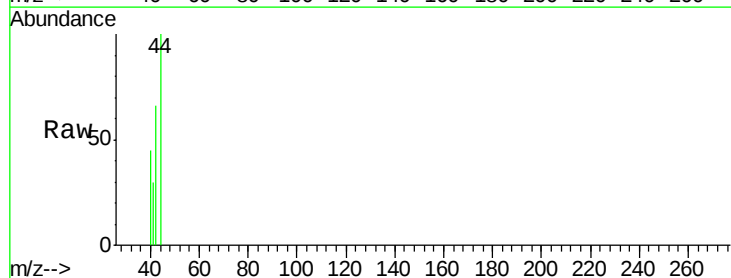
Instrument :
 MSVOA_U
 ClientSampleId :

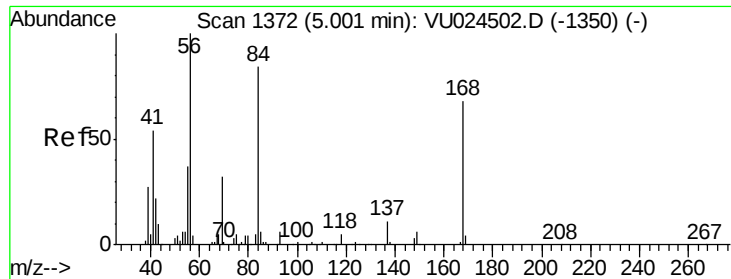
Tot Ion	96	Resp	129744
Ion	Ratio	Lower	Upper
96	100		
61	133.7	0.0	306.6
98	65.6	0.0	128.8



#29
 Tetrahydrofuran
 Concen: 0.22 ug/l
 RT: 4.65 min Scan# 1262
 Delta R.T. 0.01 min
 Lab File: VU024877.D
 Acq: 25 Jun 2018 16:08

Tgt Ion	42	Resp	329
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.5	51.7#
71	0.0	32.2	48.4#





#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1367

Delta R.T. -0.02 min

Lab File: VU024877.D

Acq: 25 Jun 2018 16:08

Instrument :

MSVOA_U

ClientSampled :

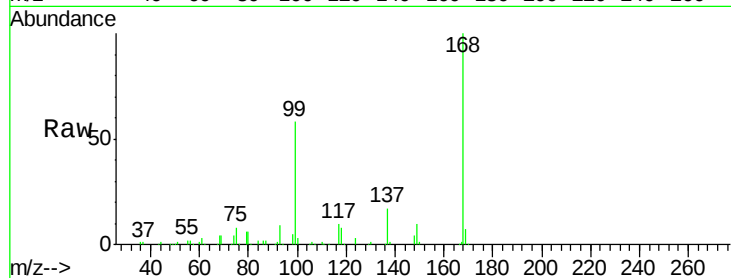
Tot Ion: 56 Resp: 4182

Ion Ratio Lower Upper

56 100

69 162.5 24.8 37.2#

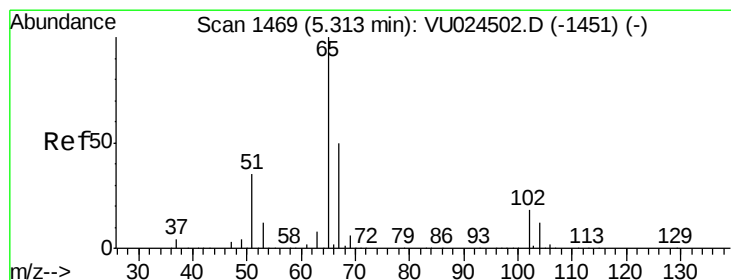
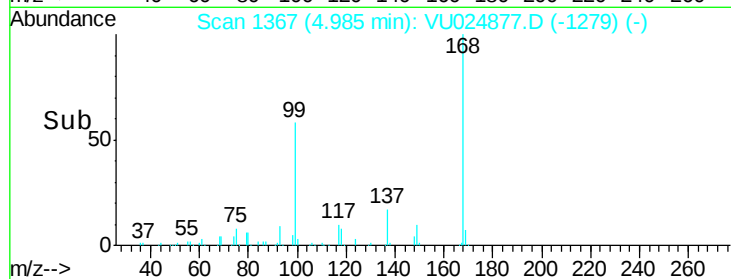
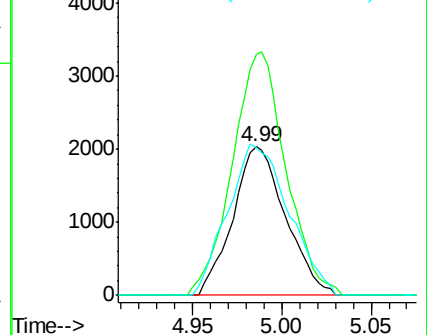
84 99.3 65.2 97.8#



Abundance Ion 56.00 (55.70 to 56.70): VU024877.D (-1279) (-)

Ion 69.00 (68.70 to 69.70): VU024877.D (-1279) (-)

Ion 84.00 (83.70 to 84.70): VU024877.D (-1279) (-)



#33

1,2-Dichloroethane-d4

Concen: 45.66 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU024877.D

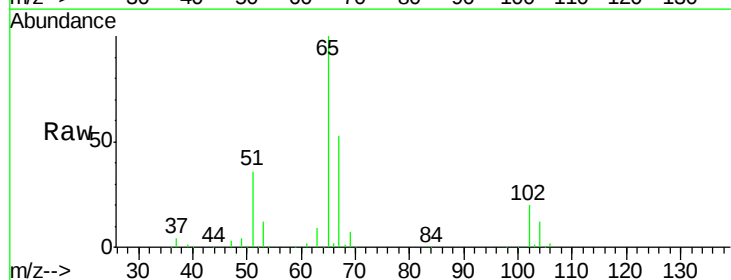
Acq: 25 Jun 2018 16:08

Tgt Ion: 65 Resp: 150471

Ion Ratio Lower Upper

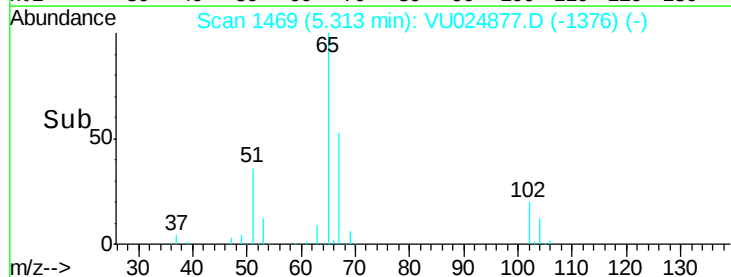
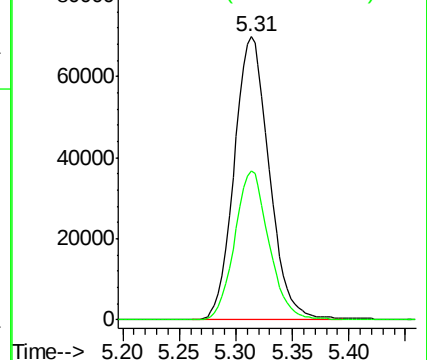
65 100

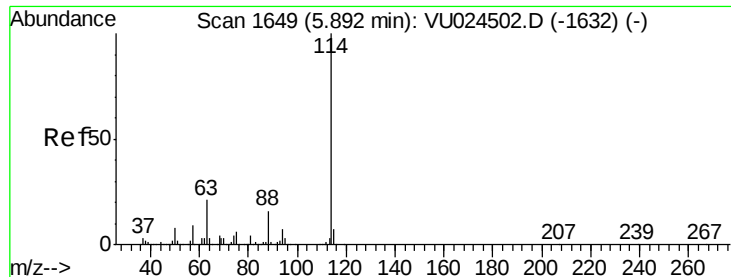
67 51.6 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU024877.D (-1376) (-)

Ion 66.90 (66.60 to 67.60): VU024877.D (-1376) (-)





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU024877.D

Acq: 25 Jun 2018 16:08

Instrument :
MSVOA_U
ClientSampleId :

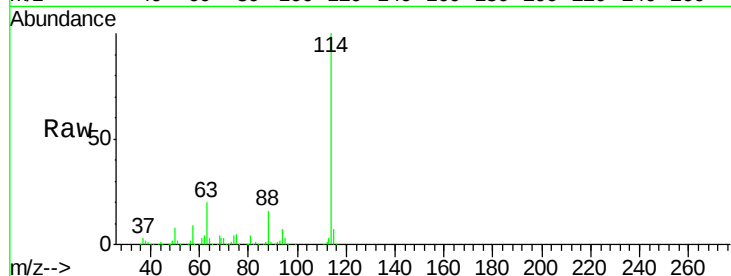
Tot Ion:114 Resp: 309636

Ion Ratio Lower Upper

114 100

63 20.3 0.0 45.4

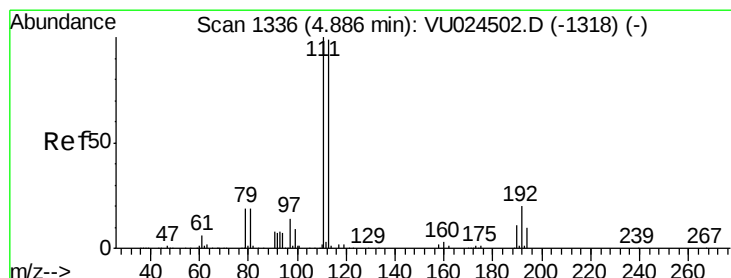
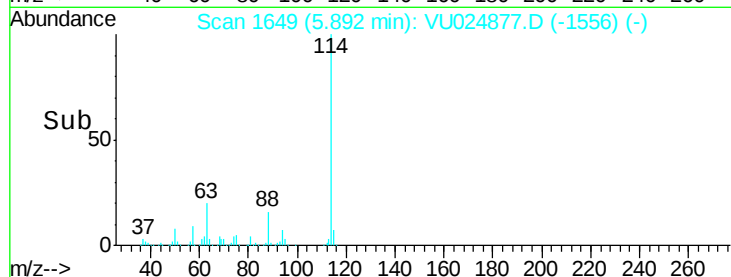
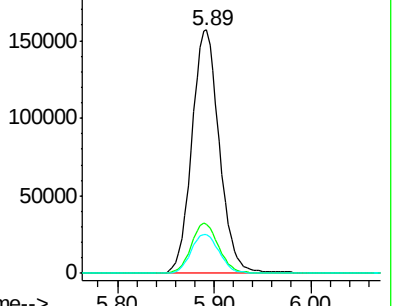
88 15.9 0.0 31.0



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: 46.74 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU024877.D

Acq: 25 Jun 2018 16:08

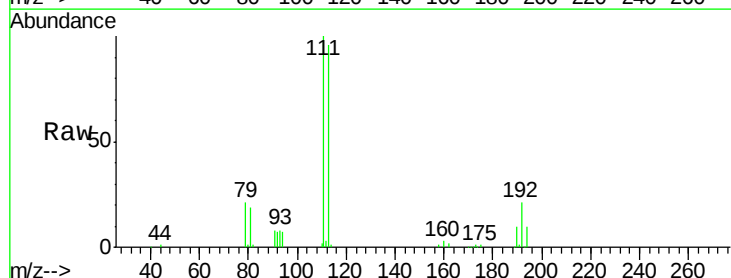
Tgt Ion:113 Resp: 120105

Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.4

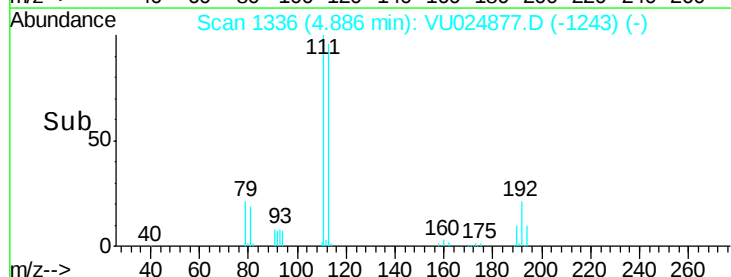
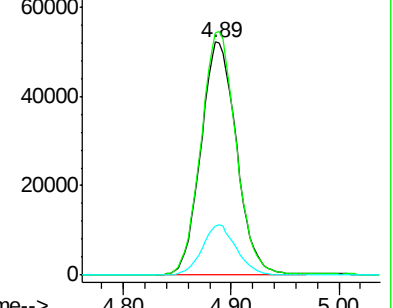
192 20.6 16.2 24.4

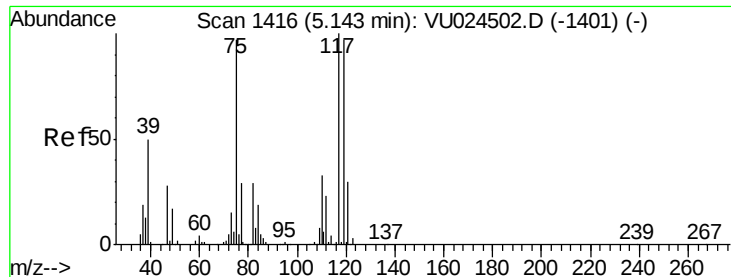


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.10 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024877.D

Acq: 25 Jun 2018 16:08

Instrument :

MSVOA_U

ClientSampleId :

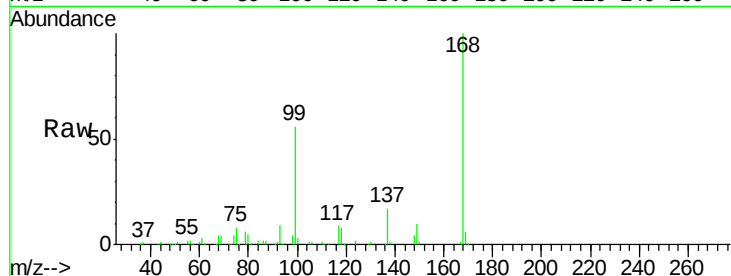
Tot Ion: 75 Resp: 14911

Ion Ratio Lower Upper

75 100

110 8.0 17.0 50.9#

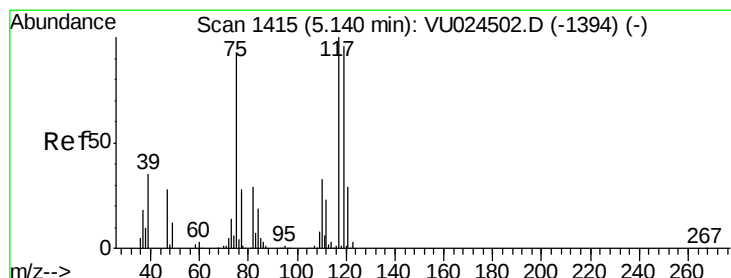
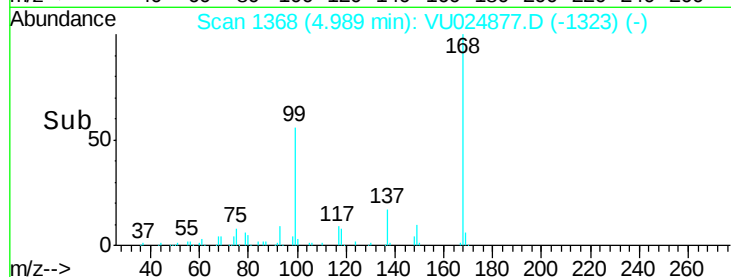
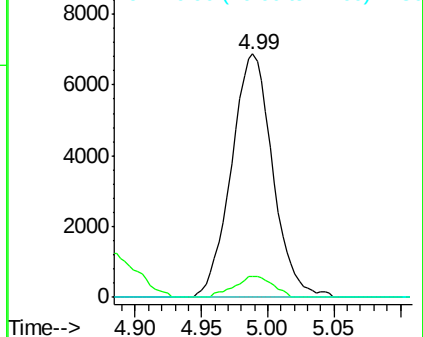
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VU024877.D (-1368) (-)

Ion 109.90 (109.60 to 110.60): VU024877.D (-1368) (-)

Ion 76.90 (76.60 to 77.60): VU024877.D (-1368) (-)



#38

Carbon Tetrachloride

Concen: 4.74 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024877.D

Acq: 25 Jun 2018 16:08

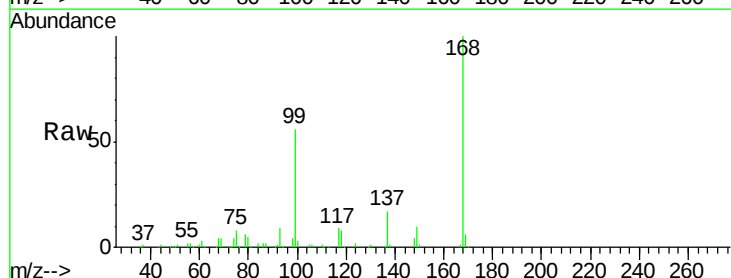
Tgt Ion: 117 Resp: 18960

Ion Ratio Lower Upper

117 100

119 5.1 76.1 114.1#

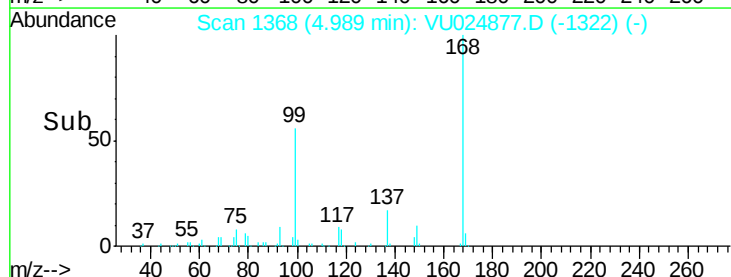
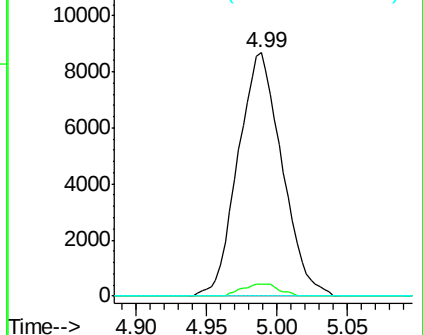
121 0.0 23.7 35.5#

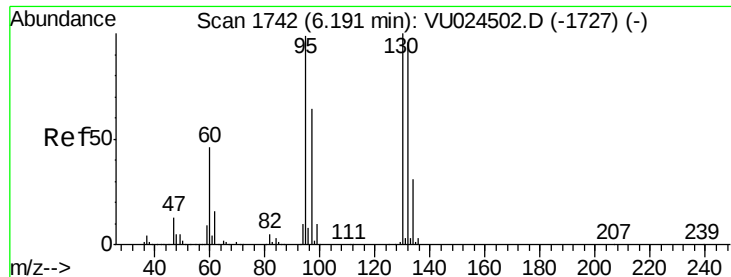


Abundance Ion 116.80 (116.50 to 117.50): VU024877.D (-1368) (-)

Ion 118.80 (118.50 to 119.50): VU024877.D (-1368) (-)

Ion 120.80 (120.50 to 121.50): VU024877.D (-1368) (-)





#44

Trichloroethene

Concen: 0.79 ug/l

RT: 6.19 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VU024877.D

Acq: 25 Jun 2018 16:08

Instrument :

MSVOA_U

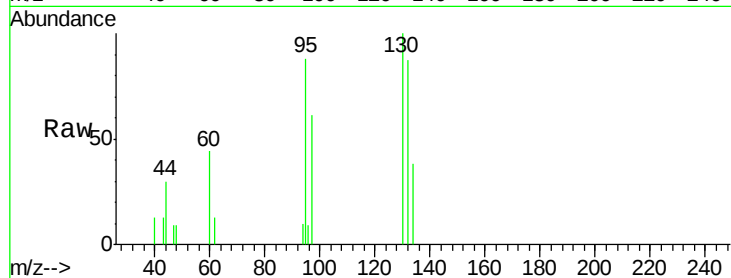
ClientSampleId :

Tot Ion:130 Resp: 2330

Ion Ratio Lower Upper

130 100

95 80.2 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU024502.D (-1727) (-)

Ion 94.90 (94.60 to 95.60): VU024502.D (-1727) (-)

6.19

1500

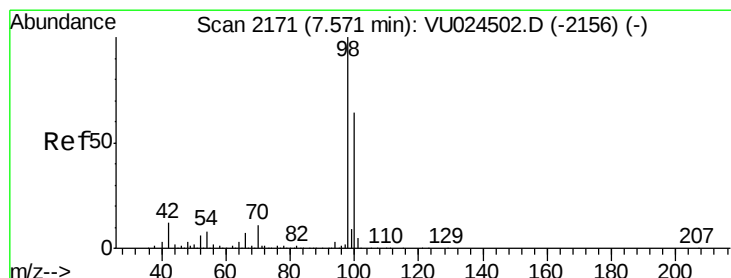
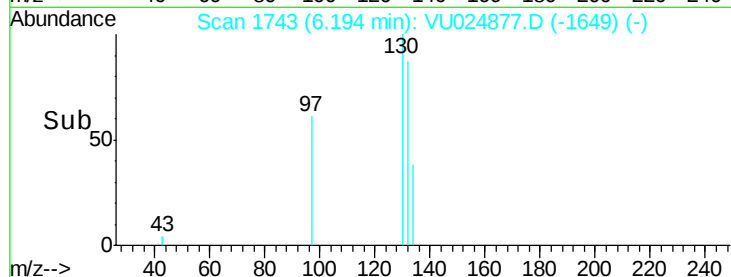
1000

500

0

Time-->

6.15 6.20 6.25



#50

Toluene-d8

Concen: 48.20 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024877.D

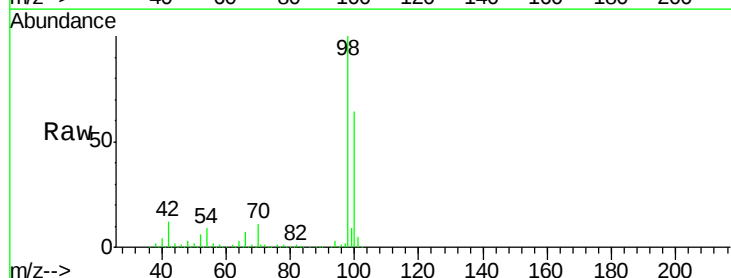
Acq: 25 Jun 2018 16:08

Tgt Ion: 98 Resp: 451798

Ion Ratio Lower Upper

98 100

100 63.6 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

300000

250000

200000

150000

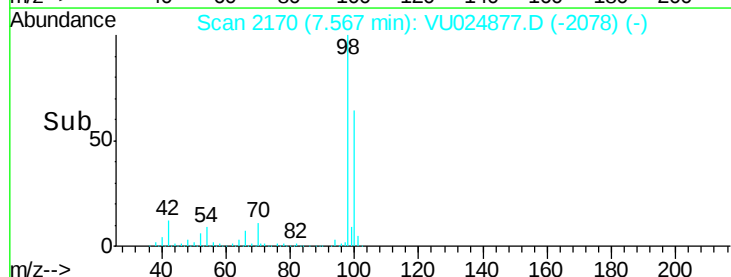
100000

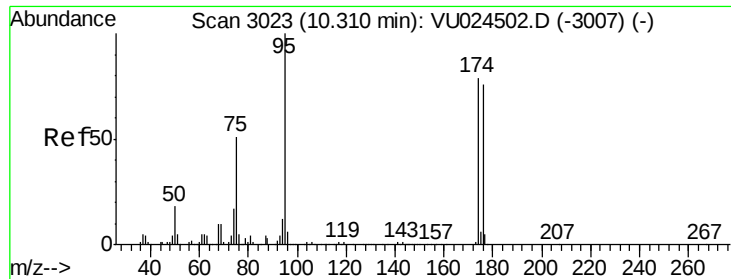
50000

0

Time-->

7.50 7.60 7.70

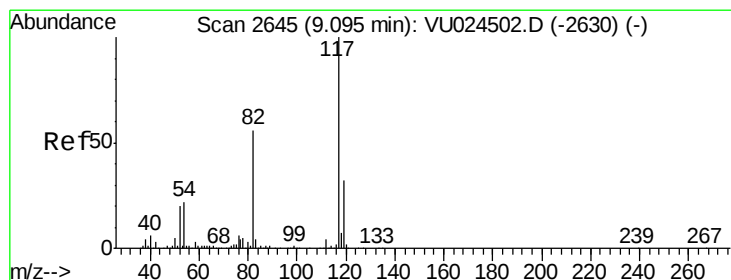
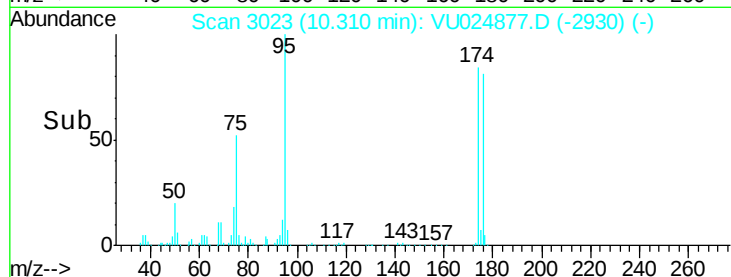
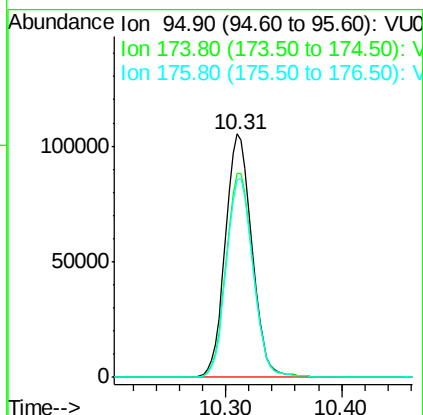
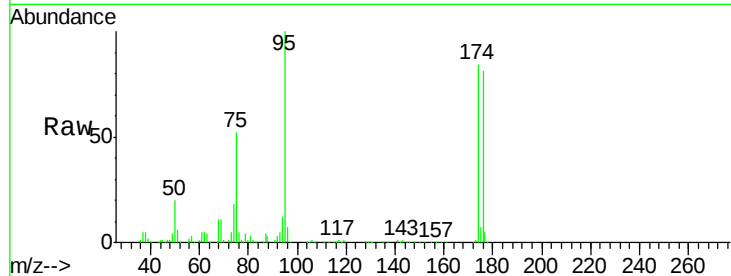




#62
4-Bromofluorobenzene
Concen: 44.73 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU024877.D
Acq: 25 Jun 2018 16:08

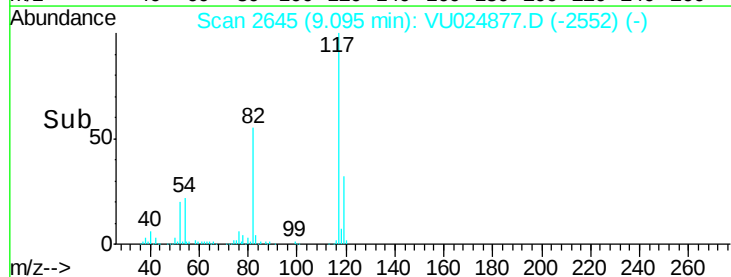
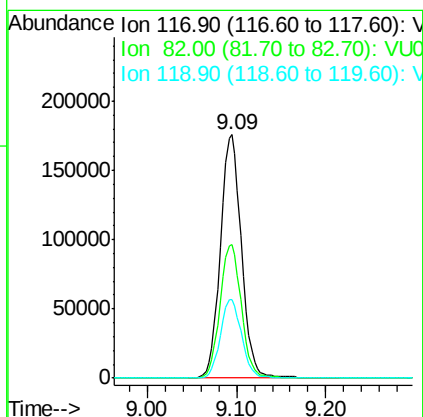
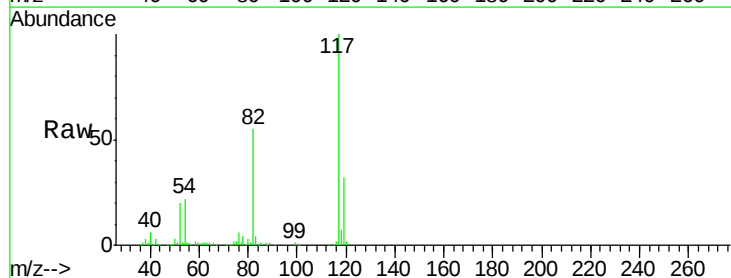
Instrument :
MSVOA_U
ClientSampled :

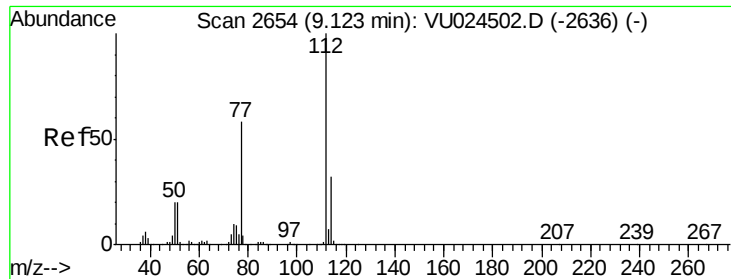
Tot Ion	95	Resp	166461
Ion Ratio	Lower	Upper	
95	100		
174	85.3	0.0	165.8
176	82.3	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024877.D
Acq: 25 Jun 2018 16:08

Tgt Ion	117	Resp	287432
Ion Ratio	Lower	Upper	
117	100		
82	54.8	44.3	66.5
119	32.3	25.4	38.2

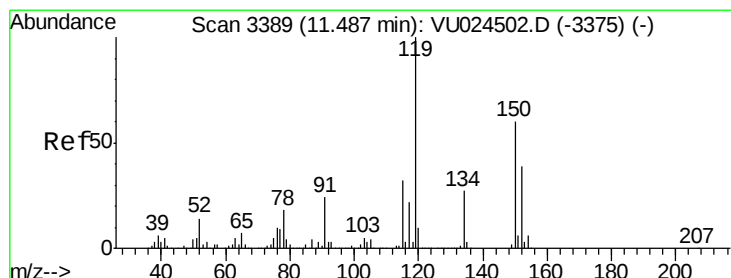
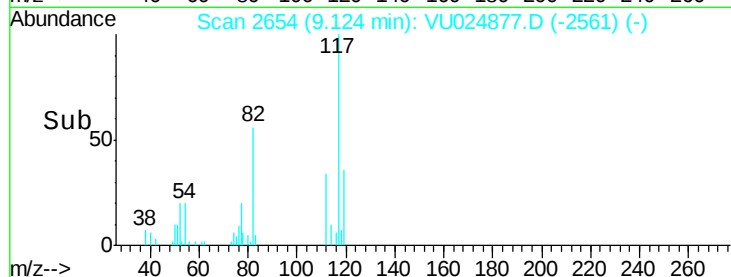
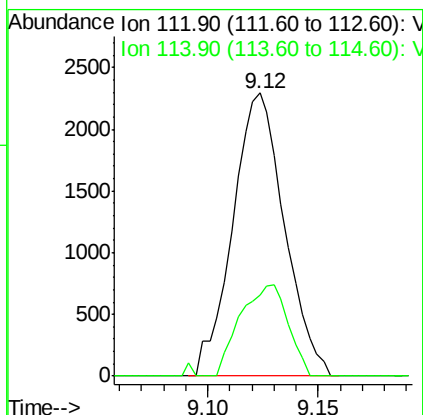
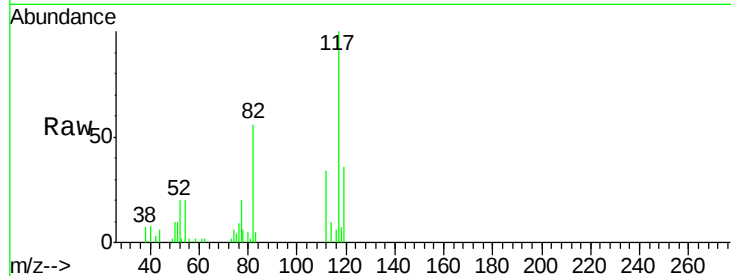




#65
Chlorobenzene
Concen: 0.51 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU024877.D
Acq: 25 Jun 2018 16:08

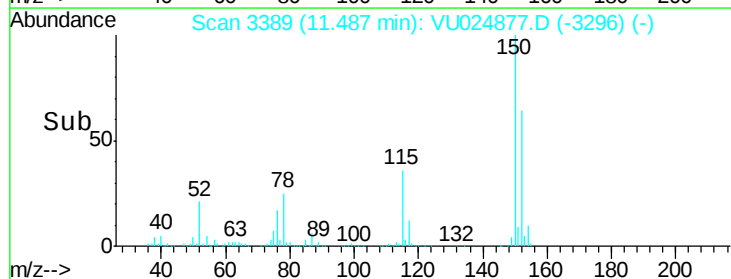
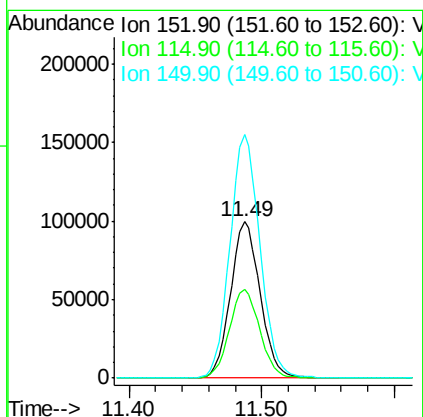
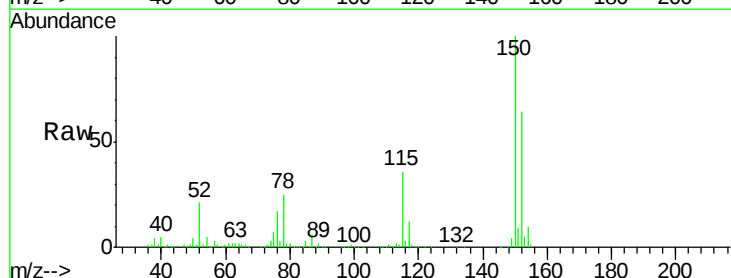
Instrument :
MSVOA_U
ClientSampled :

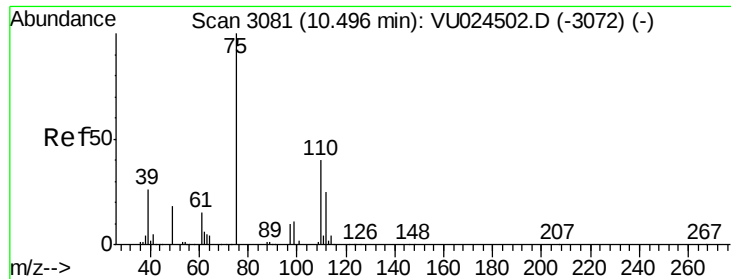
Tot Ion:112 Resp: 3728
Ion Ratio Lower Upper
112 100
114 28.7 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU024877.D
Acq: 25 Jun 2018 16:08

Tgt Ion:152 Resp: 155334
Ion Ratio Lower Upper
152 100
115 57.8 43.0 129.0
150 157.3 0.0 354.0





#76

1,2,3-Trichloropropane

Concen: 25.76 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024877.D

Acq: 25 Jun 2018 16:08

Instrument :

MSVOA_U

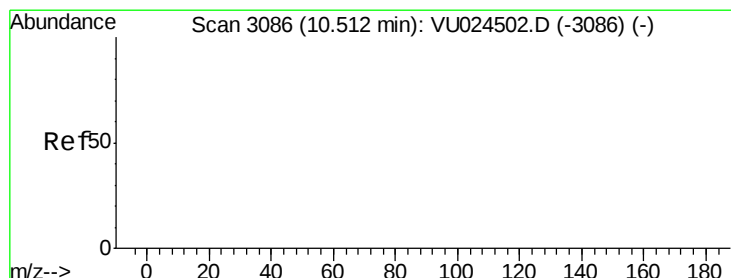
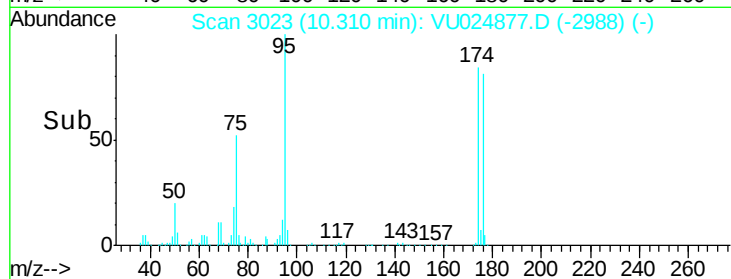
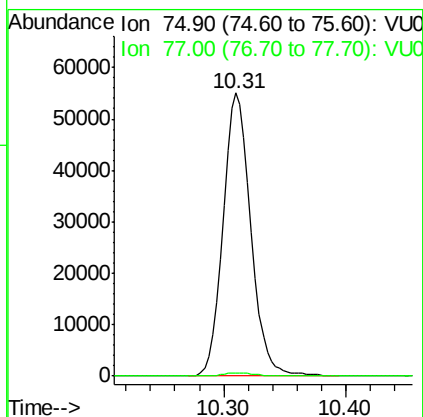
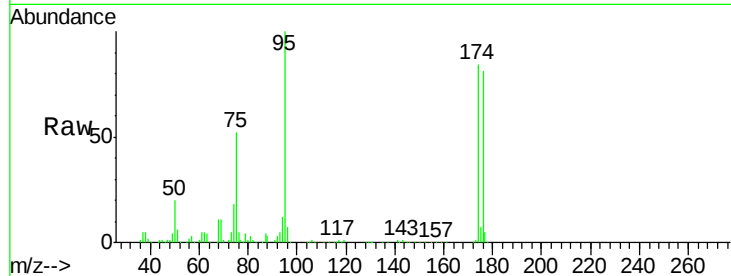
ClientSampleId :

Tot Ion: 75 Resp: 88092

Ion Ratio Lower Upper

75 100

77 1.2 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.62 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024877.D

Acq: 25 Jun 2018 16:08

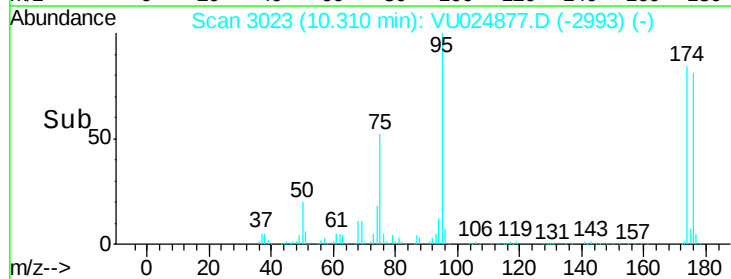
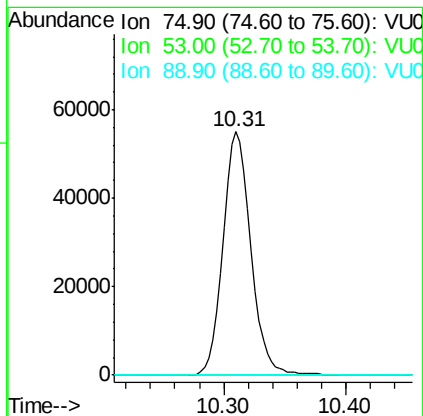
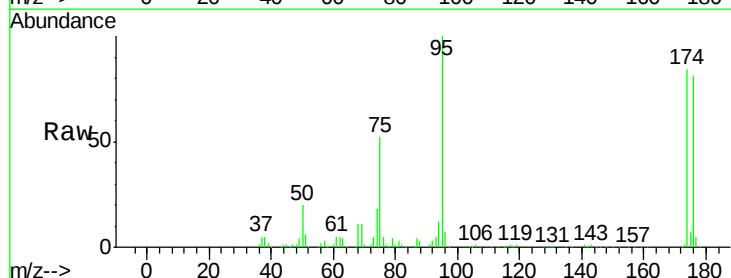
Tgt Ion: 75 Resp: 88092

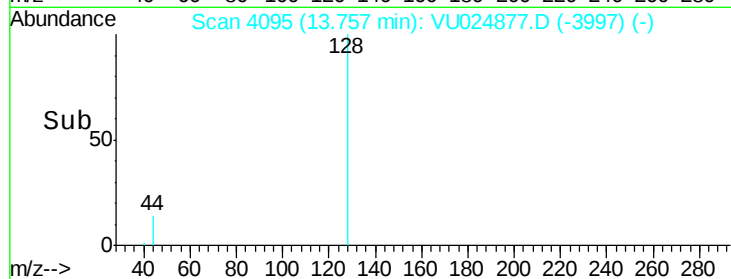
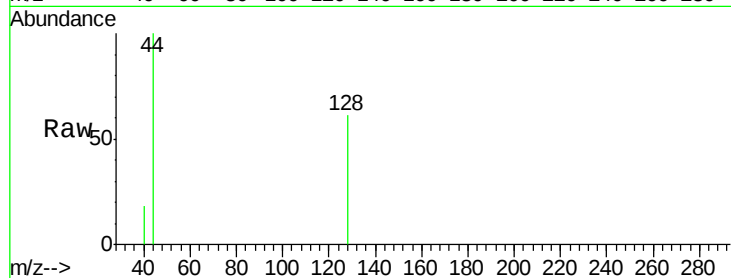
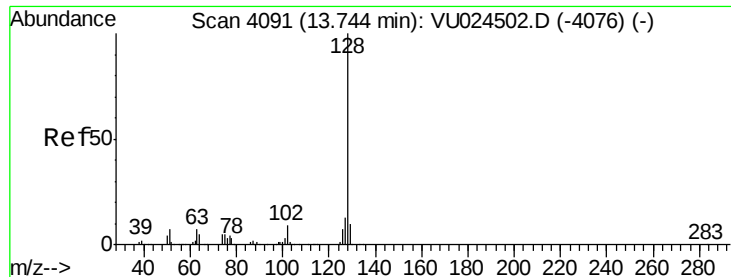
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#95

Naphthalene

Concen: 0.81 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU024877.D

Acq: 25 Jun 2018 16:08

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:128 Resp: 1551

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#

