

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062518\
 Data File : VU024869.D
 Acq On : 25 Jun 2018 12:54
 Operator : MD/SY
 Sample : J3662-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 26 05:13:01 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	207224	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	318040	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	293564	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	156501	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	151706	44.84	ug/l	0.00
Spiked Amount			Recovery	=	89.68%	
35) Dibromofluoromethane	4.89	113	124335	47.11	ug/l	0.00
Spiked Amount			Recovery	=	94.22%	
50) Toluene-d8	7.57	98	455530	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	
62) 4-Bromofluorobenzene	10.31	95	167749	43.88	ug/l	0.00
Spiked Amount			Recovery	=	87.76%	

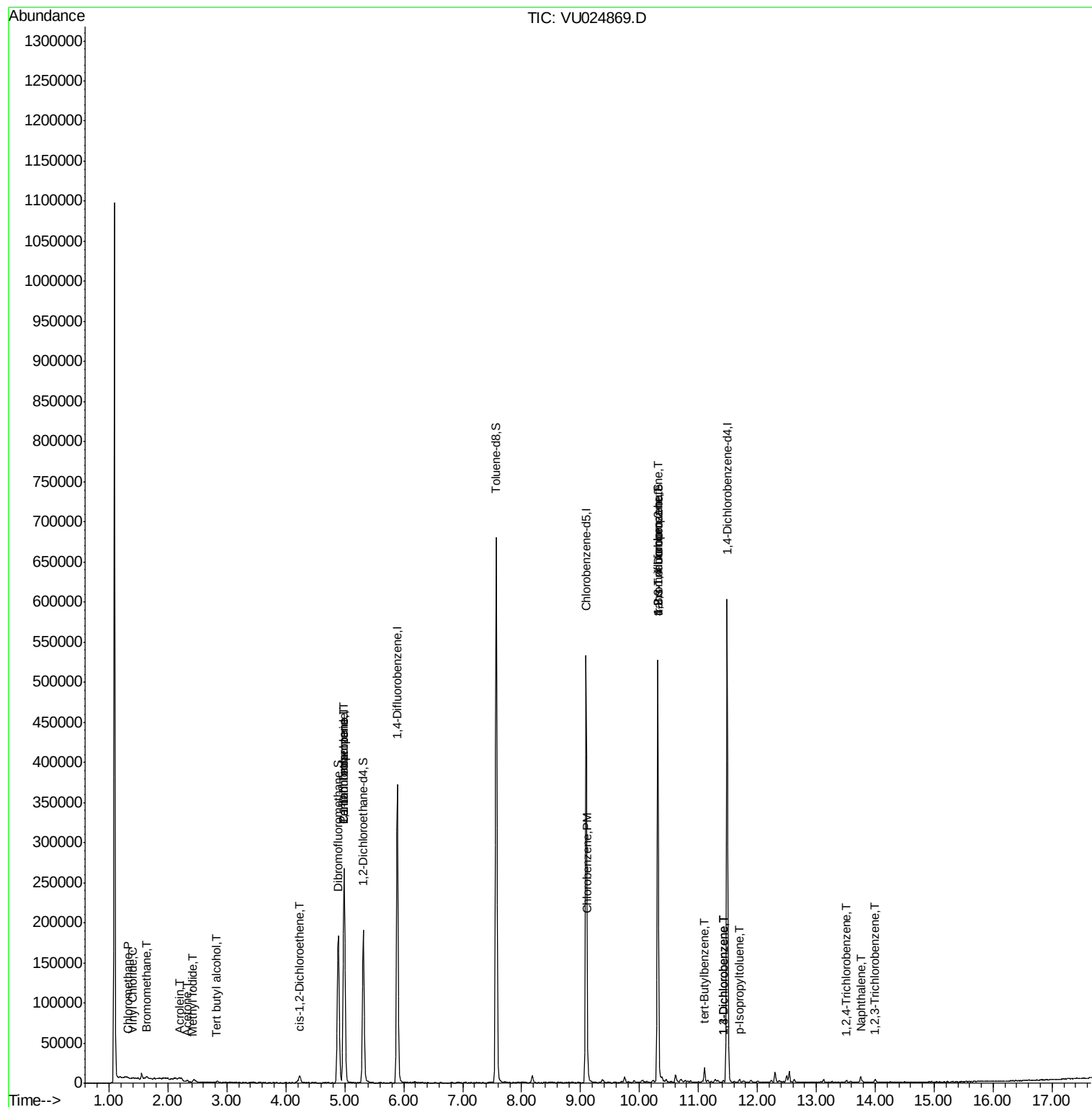
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1042	0.39	ug/l	96
4) Vinyl Chloride	1.40	62	735	0.27	ug/l #	69
5) Bromomethane	1.64	94	888	0.67	ug/l #	71
6) Chloroethane	1.69	64	110	Below Cal	#	43
8) Diethyl Ether	1.96	74	39	Below Cal	#	1
10) Methyl Iodide	2.41	142	493	5.49	ug/l #	75
11) Tert butyl alcohol	2.82	59	170	0.21	ug/l #	72
13) Acrolein	2.20	56	206	0.48	ug/l #	13
16) Acetone	2.32	43	2700	1.49	ug/l #	85
27) cis-1,2-Dichloroethene	4.24	96	5014	1.68	ug/l	87
31) Cyclohexane	4.98	56	4353	Below Cal	#	4
36) 1,1-Dichloropropene	4.99	75	15337	4.10	ug/l #	50
38) Carbon Tetrachloride	4.99	117	19686	4.79	ug/l #	16
65) Chlorobenzene	9.12	112	5773	0.77	ug/l	89
76) 1,2,3-Trichloropropane	10.31	75	87301	25.34	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	87301	58.64	ug/l #	100
83) tert-Butylbenzene	11.10	119	8325	0.83	ug/l	88
86) p-Isopropyltoluene	11.69	119	2520	0.22	ug/l	88
87) 1,3-Dichlorobenzene	11.42	146	1215	0.22	ug/l	84
88) 1,4-Dichlorobenzene	11.42	146	1215	0.21	ug/l	84
93) 1,2,4-Trichlorobenzene	13.51	180	1073	0.31	ug/l	90
95) Naphthalene	13.75	128	8025	1.37	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	1318	0.38	ug/l	94

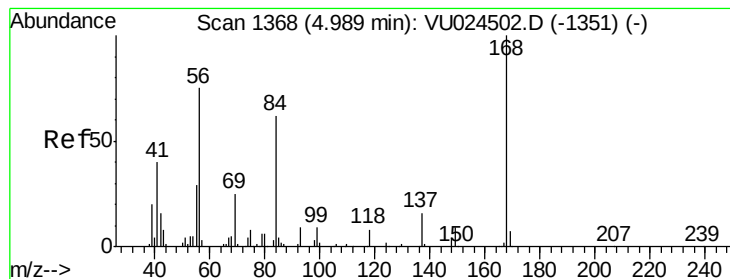
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024869.D

Acq: 25 Jun 2018 12:54

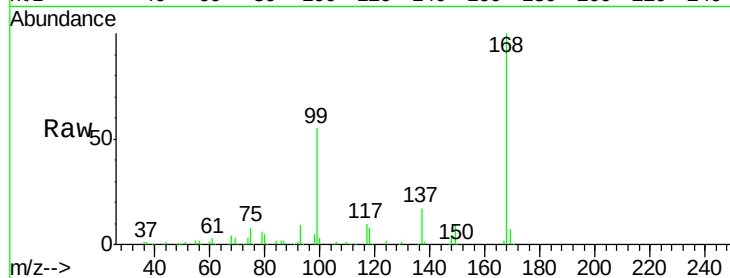
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 207224

Ion Ratio Lower Upper

168 100

99 55.2 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024869.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU024869.D (-1275) (-)

4.99

100000

80000

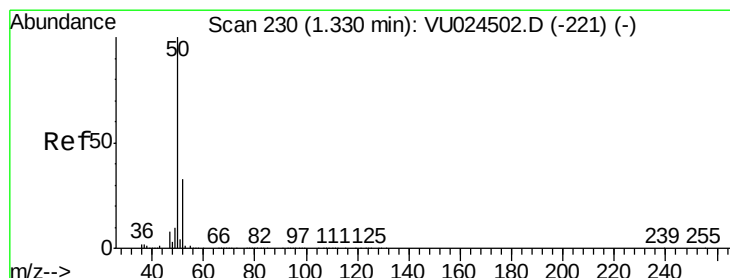
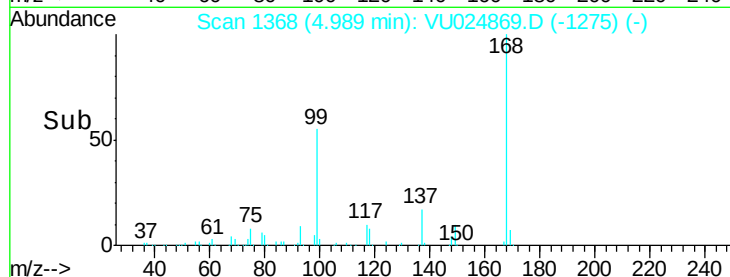
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.39 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024869.D

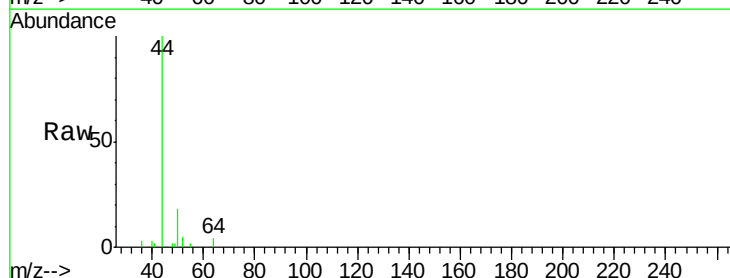
Acq: 25 Jun 2018 12:54

Tgt Ion: 50 Resp: 1042

Ion Ratio Lower Upper

50 100

52 30.5 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024869.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024869.D (-137) (-)

1.33

1000

800

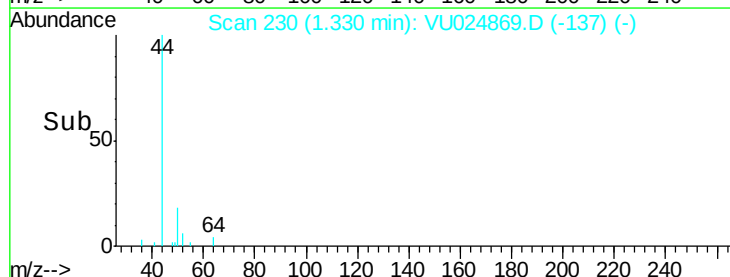
600

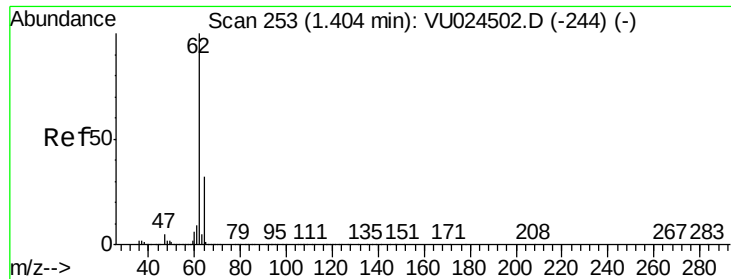
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.27 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024869.D

Acq: 25 Jun 2018 12:54

Instrument :

MSVOA_U

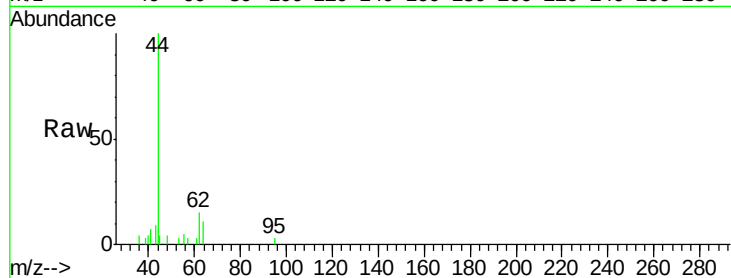
ClientSampleId :

Tot Ion: 62 Resp: 735

Ion Ratio Lower Upper

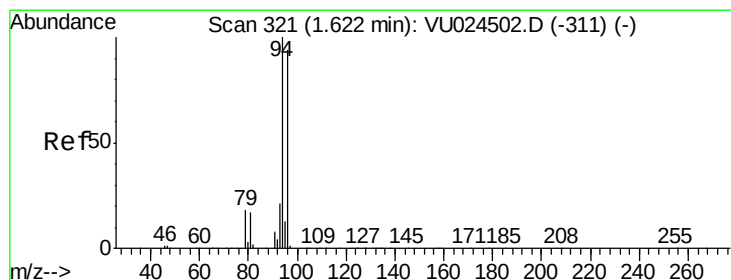
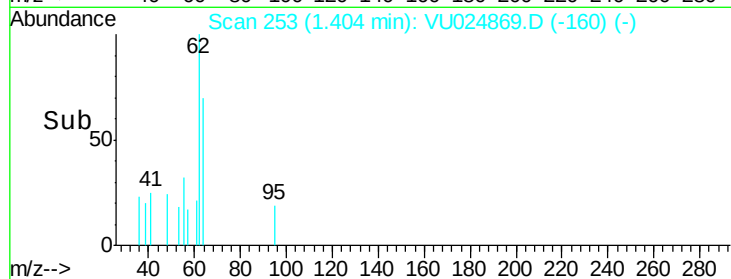
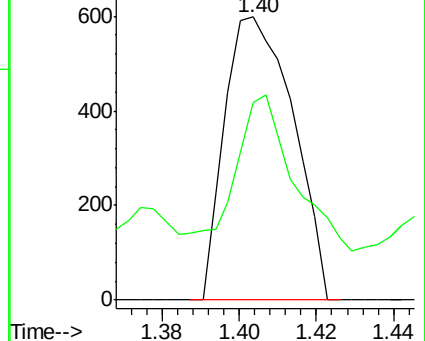
62 100

64 47.8 24.8 37.2#



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#5

Bromomethane

Concen: 0.67 ug/l

RT: 1.64 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU024869.D

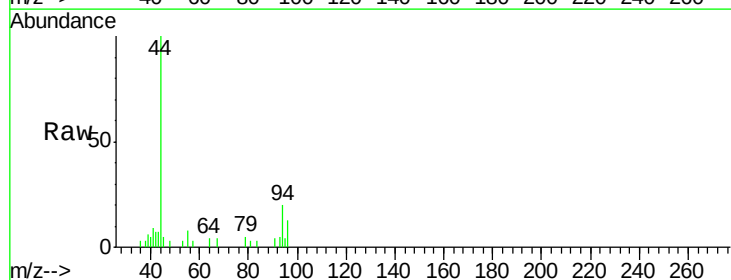
Acq: 25 Jun 2018 12:54

Tgt Ion: 94 Resp: 888

Ion Ratio Lower Upper

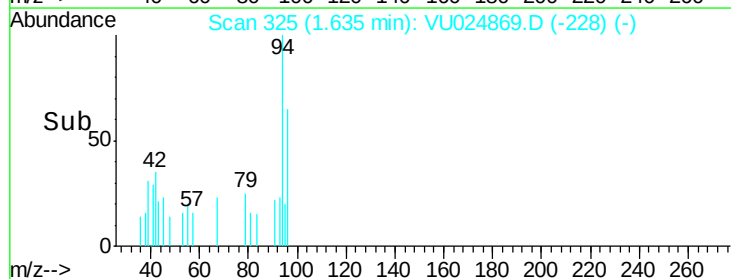
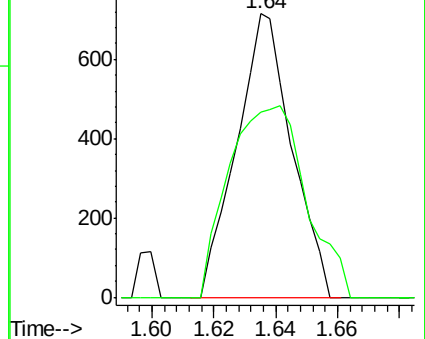
94 100

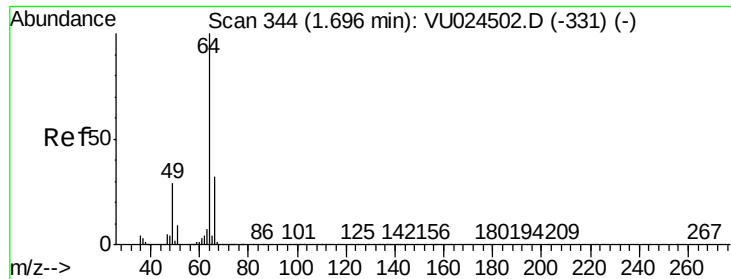
96 65.3 74.5 111.7#



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: 1.69 min Scan# 343

Delta R.T. -0.00 min

Lab File: VU024869.D

Acq: 25 Jun 2018 12:54

Instrument :

MSVOA_U

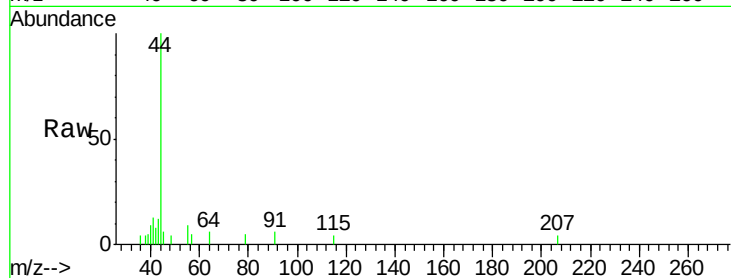
ClientSampleId :

Tot Ion: 64 Resp: 110

Ion Ratio Lower Upper

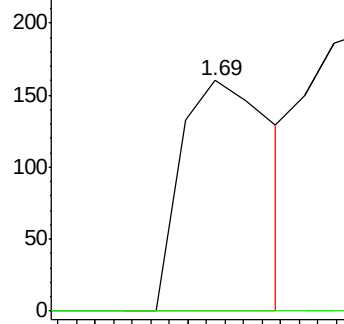
64 100

66 0.0 25.5 38.3#

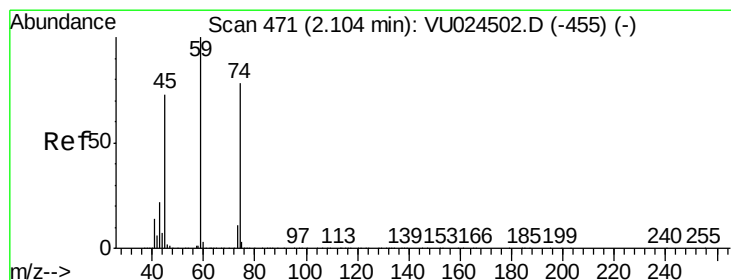
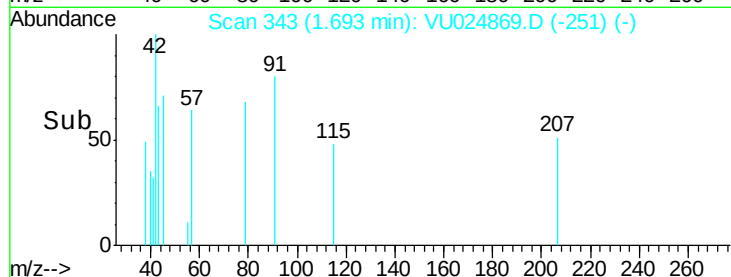


Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 1.96 min Scan# 426

Delta R.T. -0.14 min

Lab File: VU024869.D

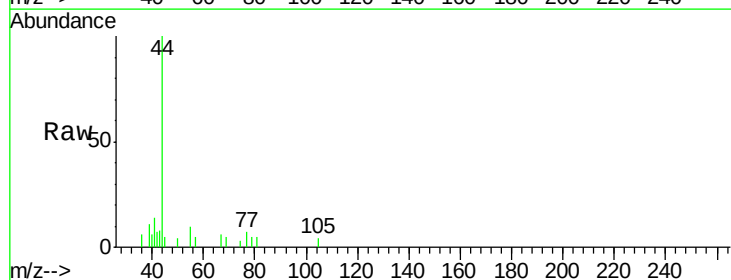
Acq: 25 Jun 2018 12:54

Tgt Ion: 74 Resp: 39

Ion Ratio Lower Upper

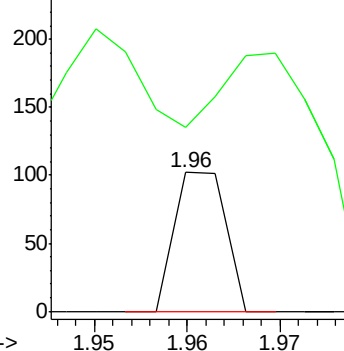
74 100

45 397.4 55.0 165.0#

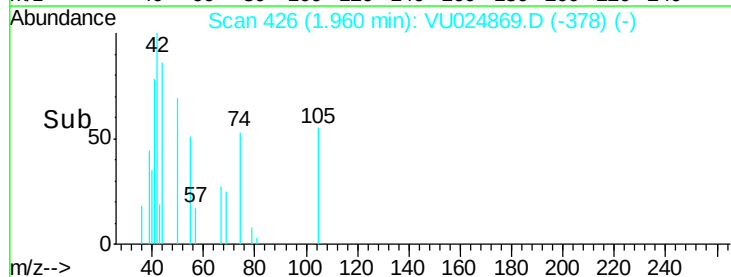


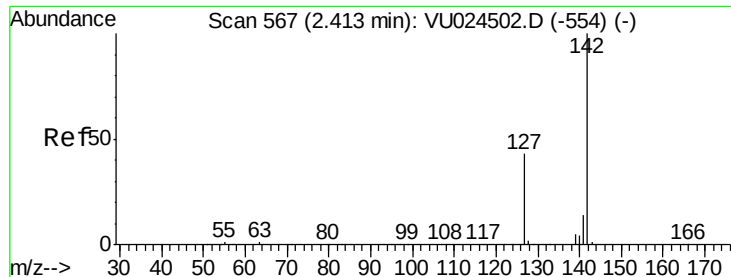
Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0



Time-->

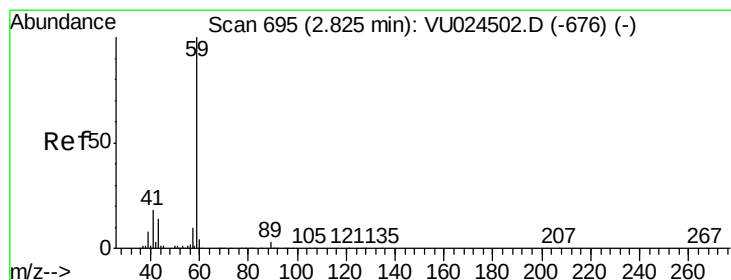
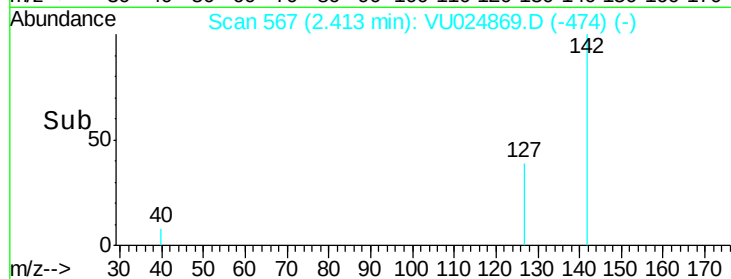
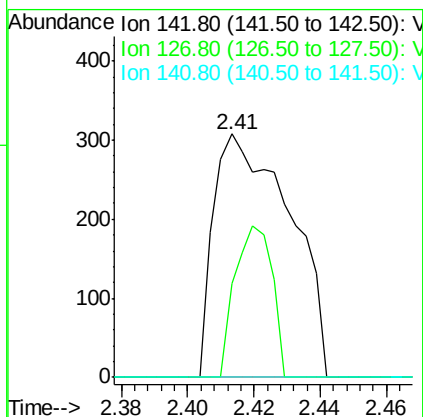
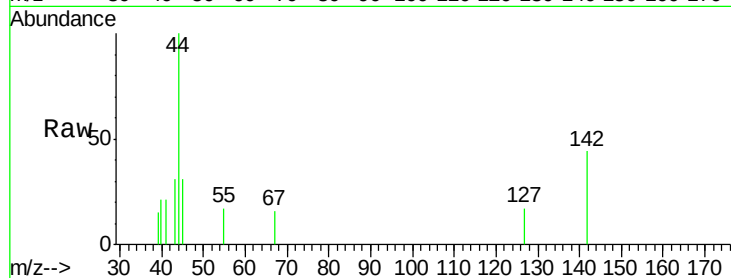




#10
Methvl Iodide
Concen: 5.49 ug/l
RT: 2.41 min Scan# 567
Delta R.T. 0.00 min
Lab File: VU024869.D
Acq: 25 Jun 2018 12:54

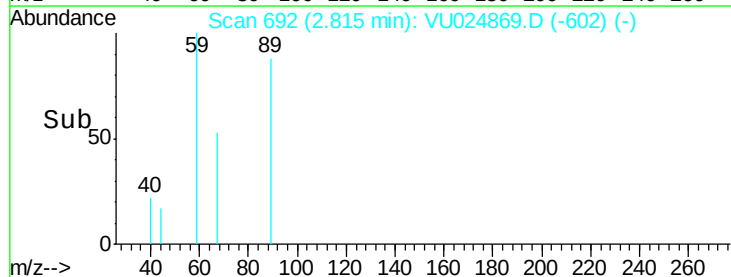
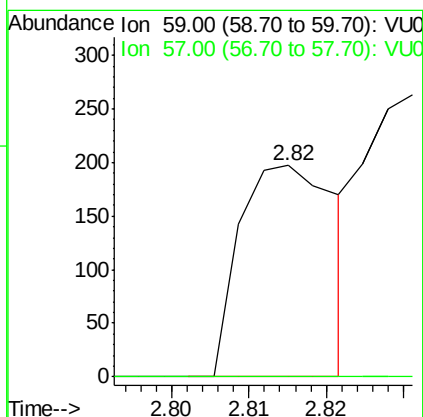
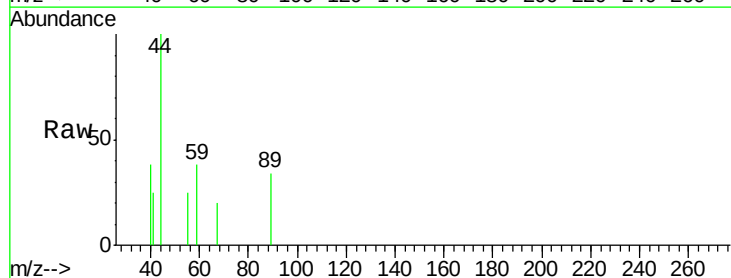
Instrument :
MSVOA_U
ClientSampleId :

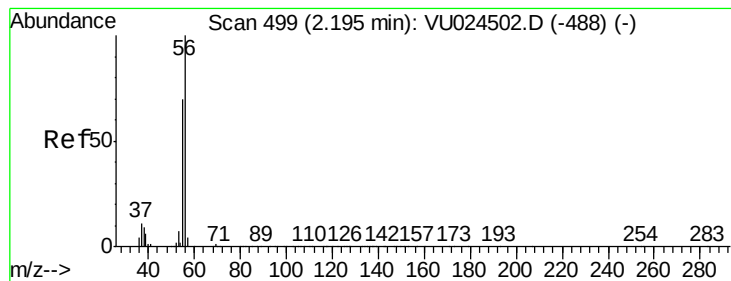
Tot Ion:142 Resp: 493
Ion Ratio Lower Upper
142 100
127 30.2 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 0.21 ug/l
RT: 2.82 min Scan# 692
Delta R.T. -0.01 min
Lab File: VU024869.D
Acq: 25 Jun 2018 12:54

Tgt Ion: 59 Resp: 170
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#13

Acrolein

Concen: 0.48 ug/l

RT: 2.20 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU024869.D

Acq: 25 Jun 2018 12:54

Instrument :

MSVOA_U

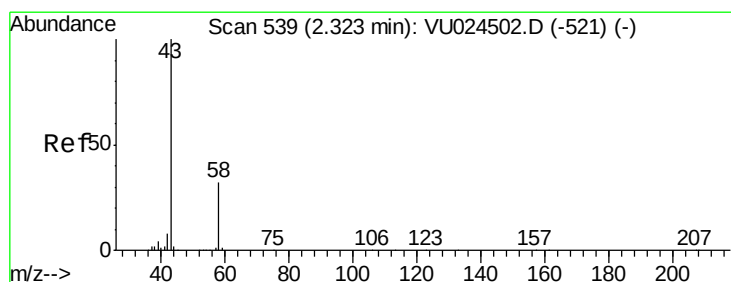
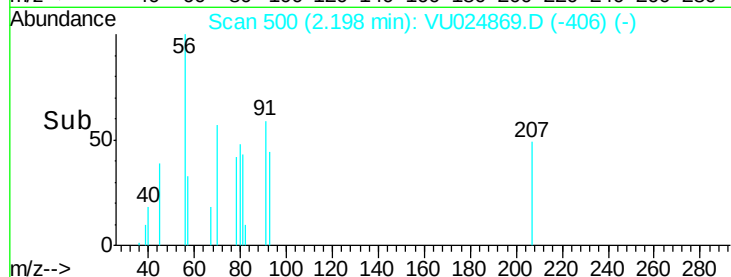
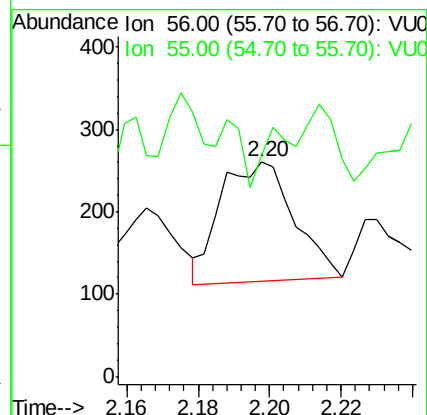
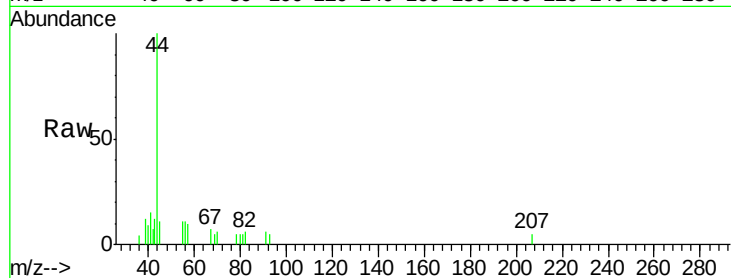
ClientSampleId :

Tot Ion: 56 Resp: 206

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#



#16

Acetone

Concen: 1.49 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024869.D

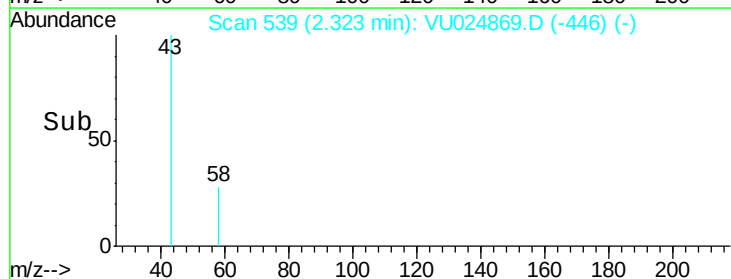
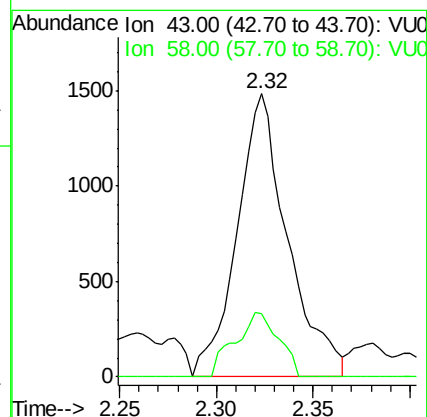
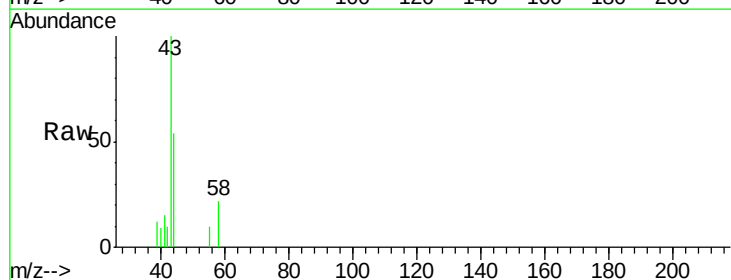
Acq: 25 Jun 2018 12:54

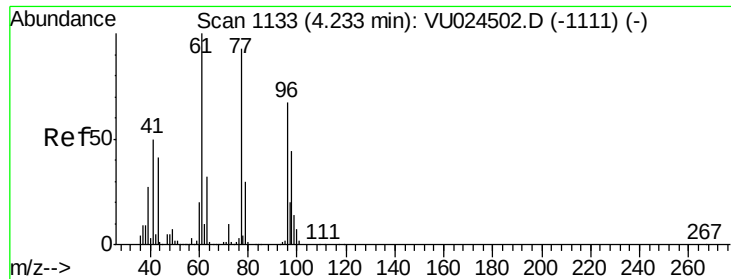
Tgt Ion: 43 Resp: 2700

Ion Ratio Lower Upper

43 100

58 22.3 24.4 36.6#





#27

cis-1,2-Dichloroethene

Concen: 1.68 ug/l

RT: 4.24 min Scan# 1134

Delta R.T. 0.00 min

Lab File: VU024869.D

Acq: 25 Jun 2018 12:54

Instrument :
MSVOA_U
ClientSampleId :

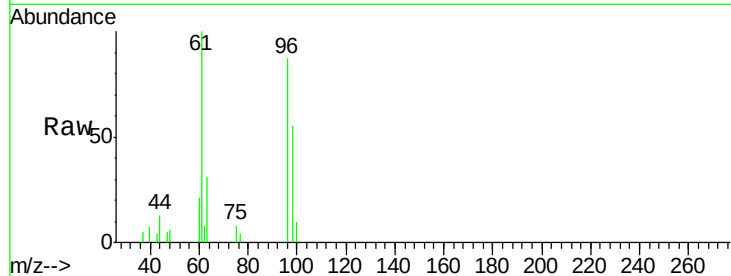
Tot Ion: 96 Resp: 5014

Ion	Ratio	Lower	Upper
96	100		
61	132.9	0.0	306.6
98	68.5	0.0	128.8

96 100

61 132.9 0.0 306.6

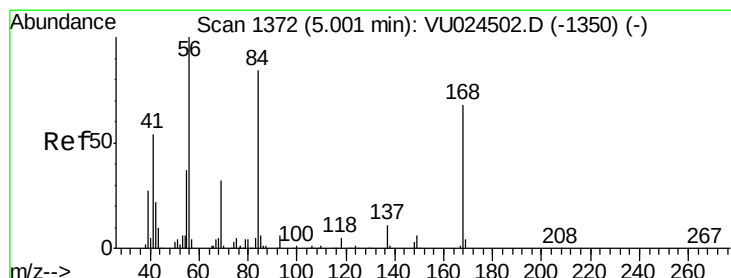
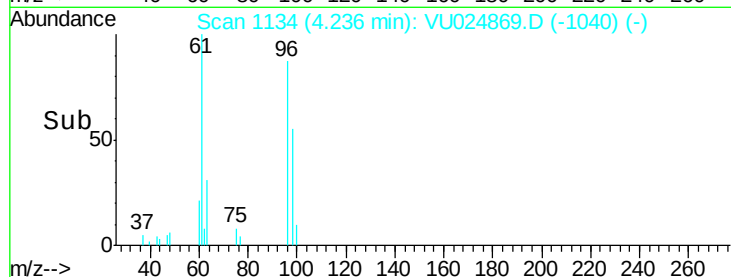
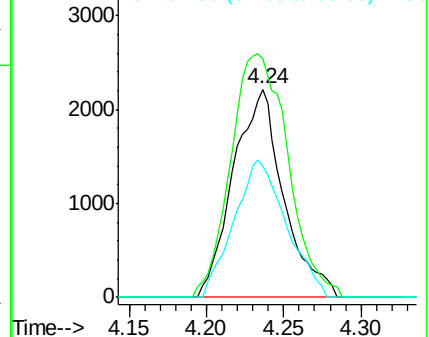
98 68.5 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1366

Delta R.T. -0.02 min

Lab File: VU024869.D

Acq: 25 Jun 2018 12:54

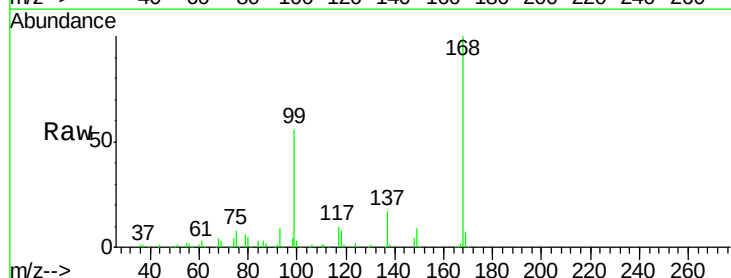
Tgt Ion: 56 Resp: 4353

Ion	Ratio	Lower	Upper
56	100		
69	157.6	24.8	37.2#
84	121.9	65.2	97.8#

56 100

69 157.6 24.8 37.2#

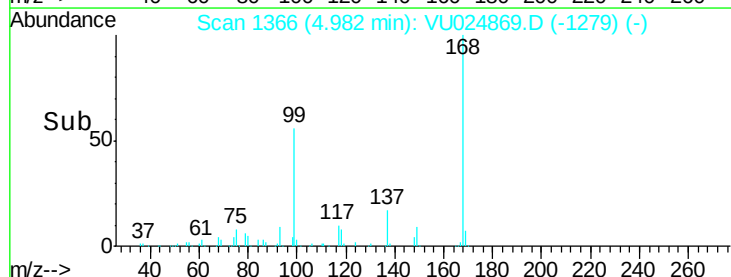
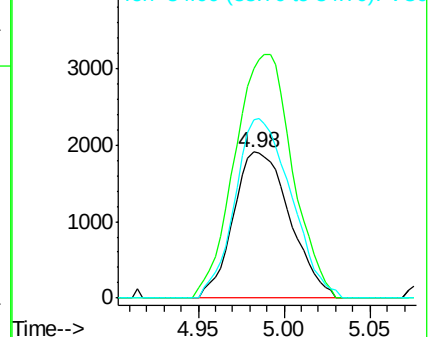
84 121.9 65.2 97.8#

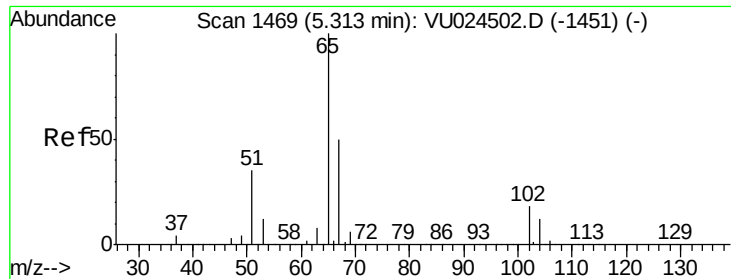


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

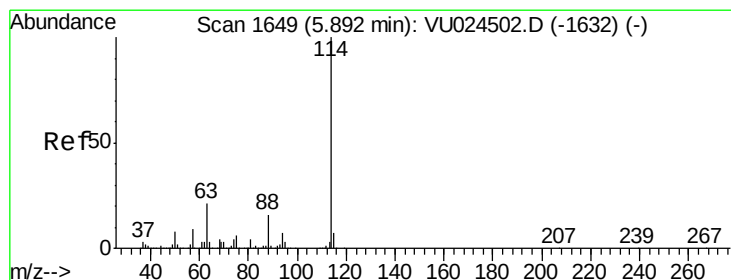
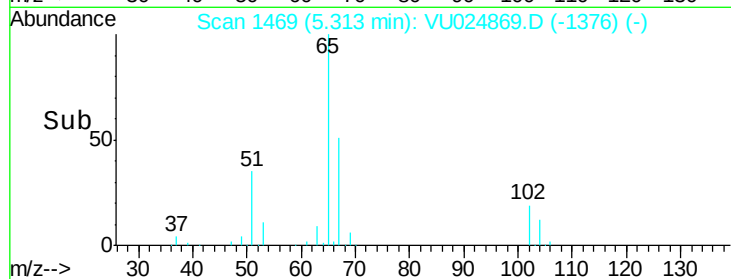
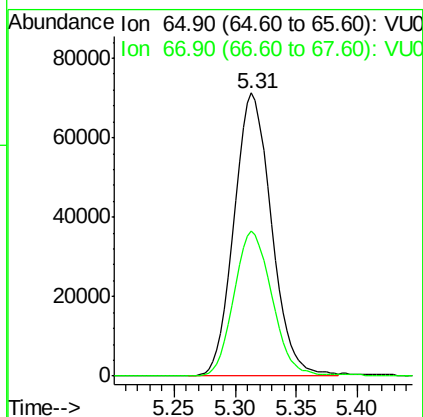
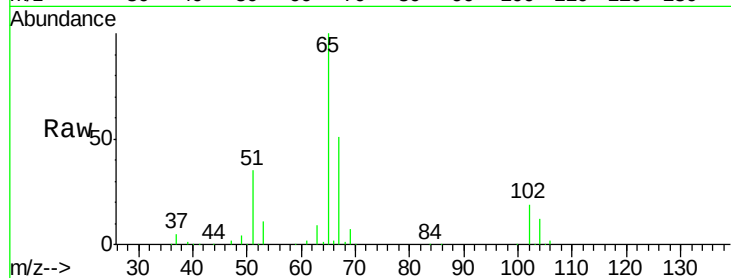




#33
 1,2-Dichloroethane-d4
 Concen: 44.84 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU024869.D
 Acq: 25 Jun 2018 12:54

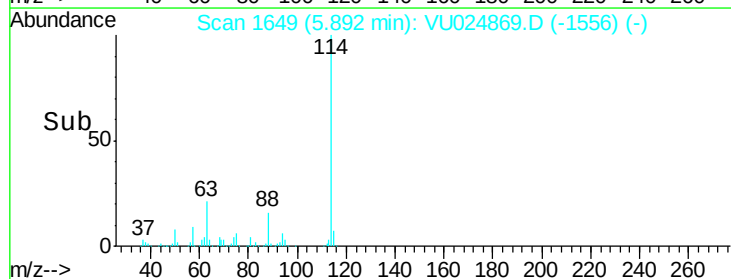
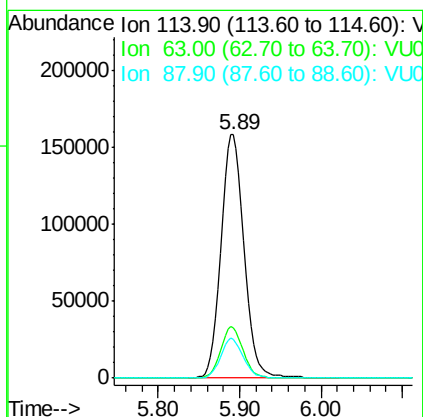
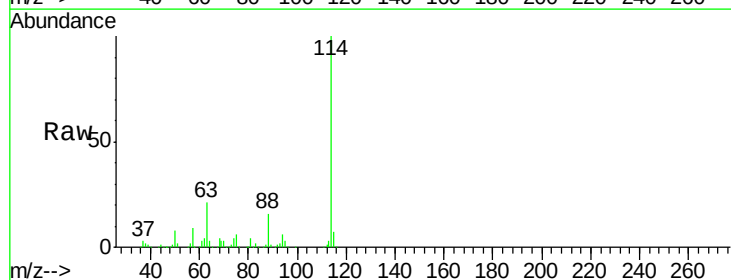
Instrument :
 MSVOA_U
 ClientSampleId :

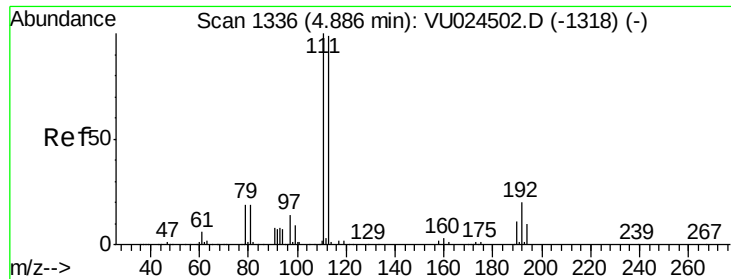
Tot Ion: 65 Resp: 151706
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024869.D
 Acq: 25 Jun 2018 12:54

Tgt Ion: 114 Resp: 318040
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 45.4
 88 15.8 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.11 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024869.D

Acq: 25 Jun 2018 12:54

Instrument :
MSVOA_U
ClientSampleId :

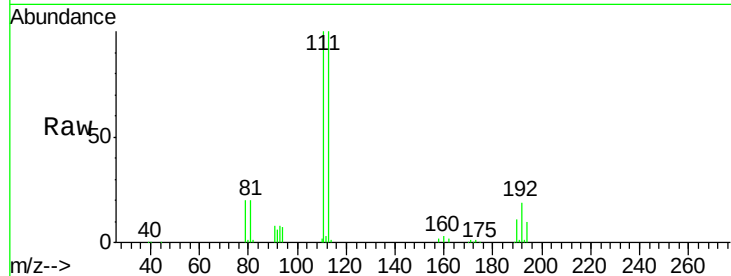
Tot Ion:113 Resp: 124335

Ion Ratio Lower Upper

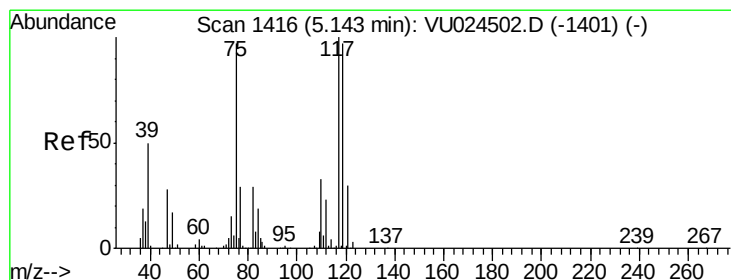
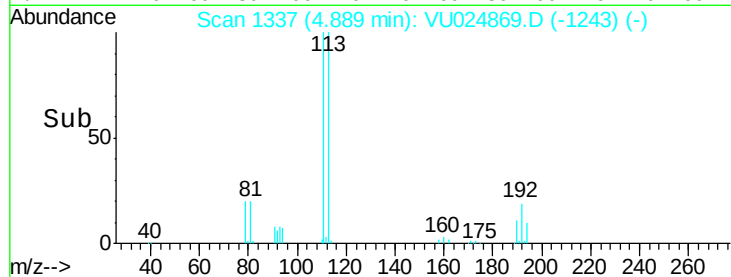
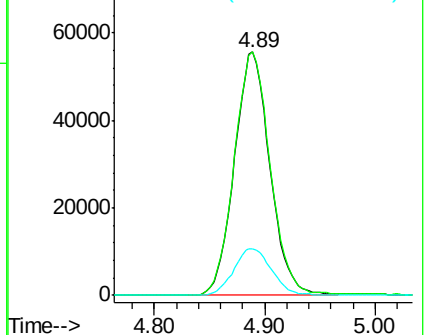
113 100

111 100.8 82.2 123.4

192 20.4 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: VU024869.D

Acq: 25 Jun 2018 12:54

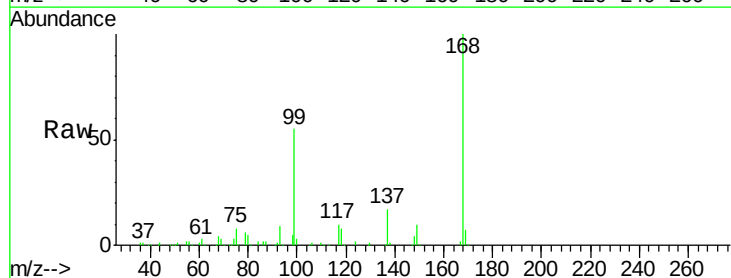
Tgt Ion: 75 Resp: 15337

Ion Ratio Lower Upper

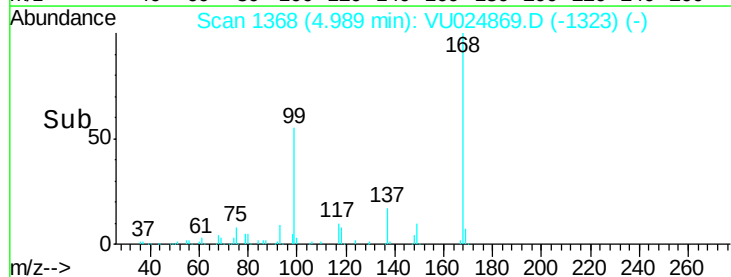
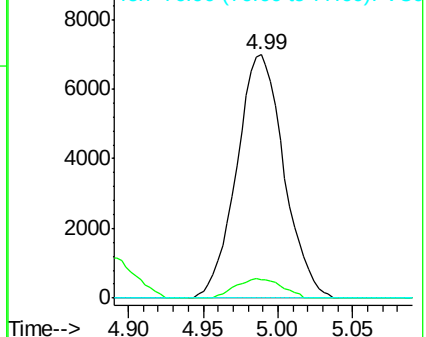
75 100

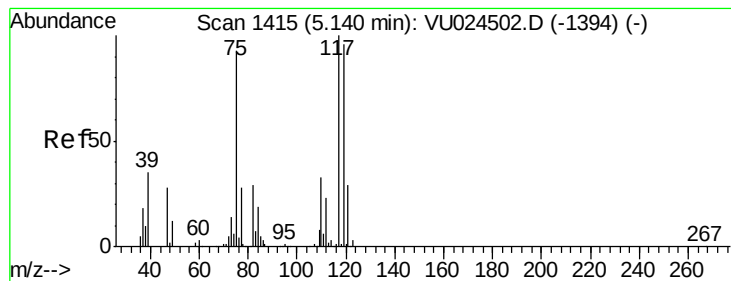
110 7.9 17.0 50.9#

77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.79 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU024869.D

Acq: 25 Jun 2018 12:54

Instrument :

MSVOA_U

ClientSampleId :

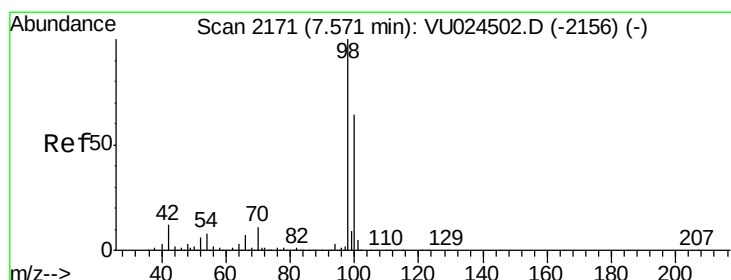
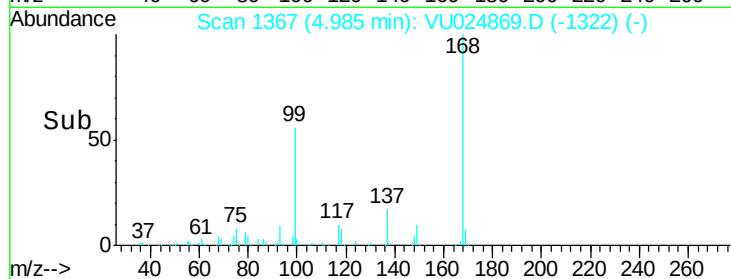
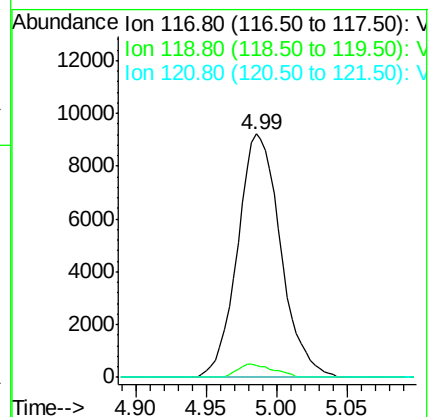
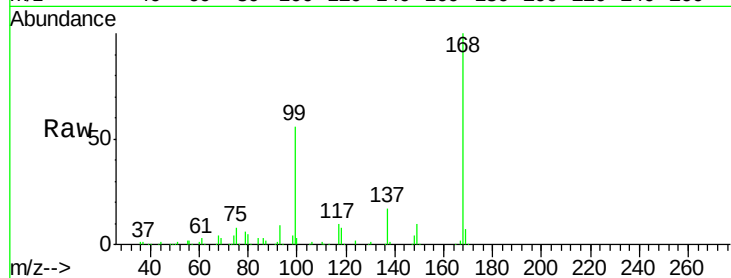
Tot Ion:117 Resp: 19686

Ion Ratio Lower Upper

117 100

119 4.9 76.1 114.1#

121 0.0 23.7 35.5#



#50

Toluene-d8

Concen: 47.31 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU024869.D

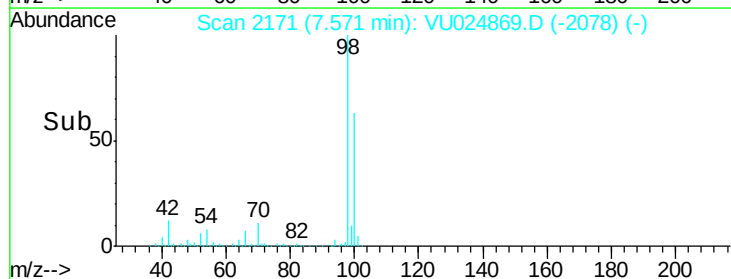
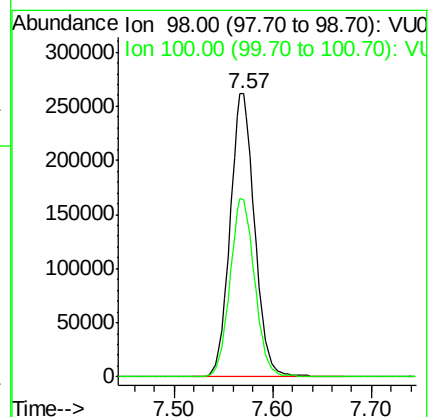
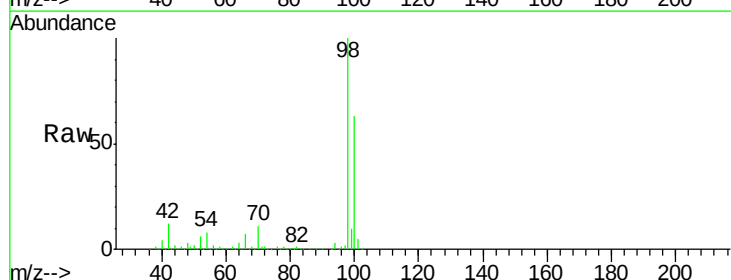
Acq: 25 Jun 2018 12:54

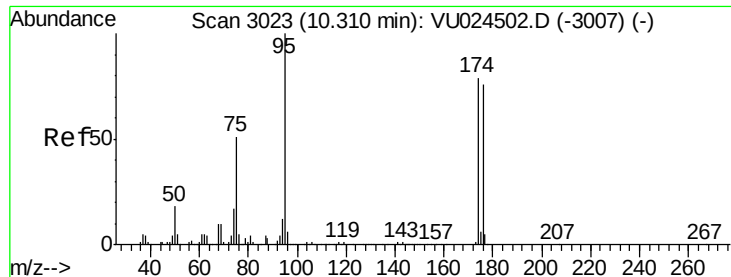
Tgt Ion: 98 Resp: 455530

Ion Ratio Lower Upper

98 100

100 63.5 51.1 76.7

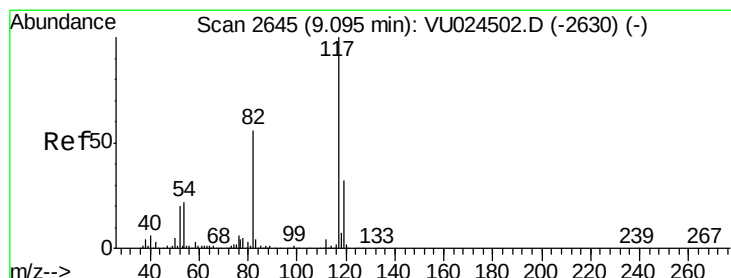
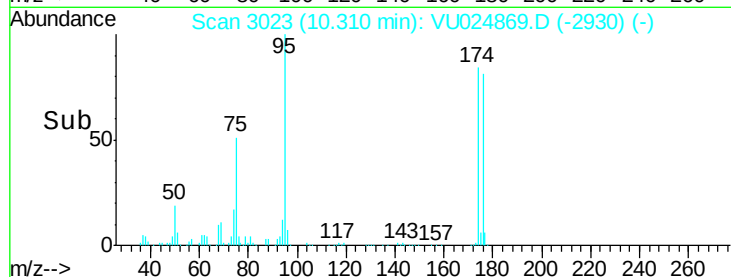
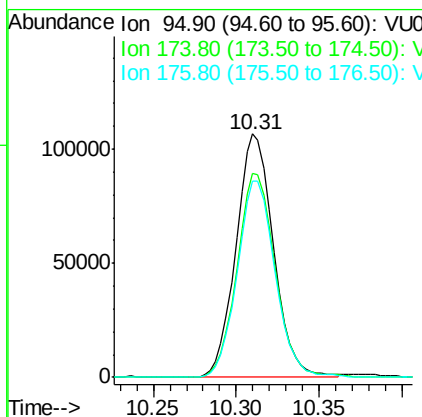
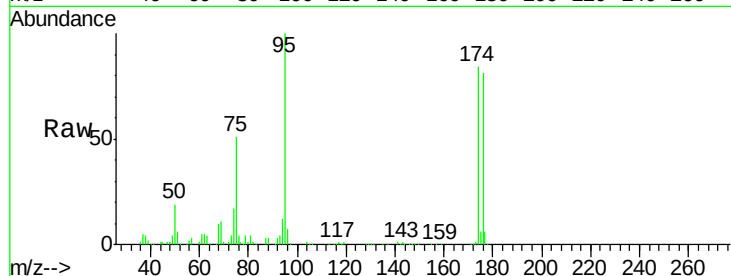




#62
4-Bromofluorobenzene
Concen: 43.88 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU024869.D
Acq: 25 Jun 2018 12:54

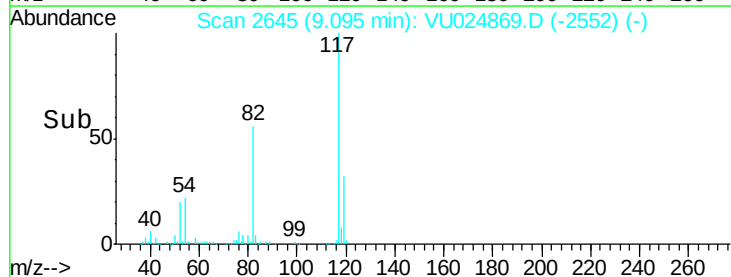
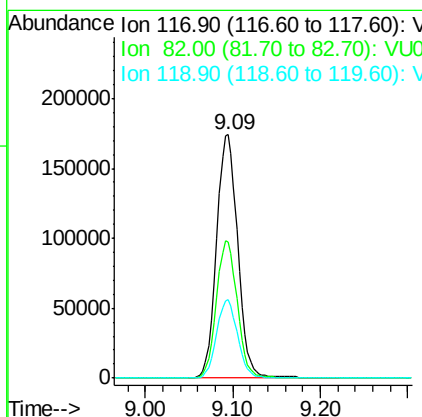
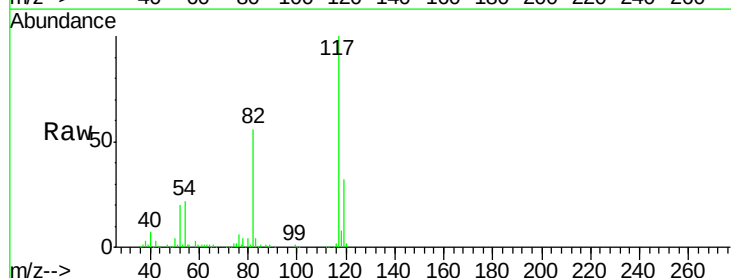
Instrument :
MSVOA_U
ClientSampled :

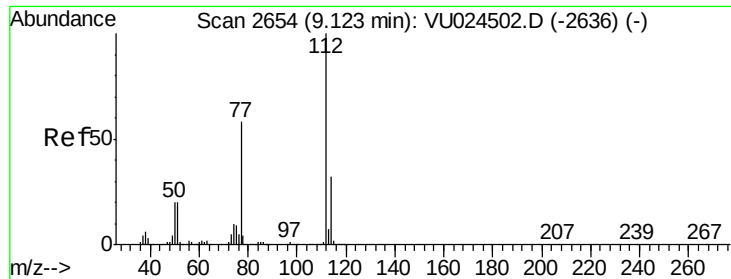
Tot Ion	95	Resp	167749
Ion Ratio	Lower	Upper	
95	100		
174	85.5	0.0	165.8
176	82.0	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024869.D
Acq: 25 Jun 2018 12:54

Tgt Ion	117	Resp	293564
Ion Ratio	Lower	Upper	
117	100		
82	56.1	44.3	66.5
119	32.1	25.4	38.2





#65

Chlorobenzene

Concen: 0.77 ug/l

RT: 9.12 min Scan# 2653

Delta R.T. -0.00 min

Lab File: VU024869.D

Acq: 25 Jun 2018 12:54

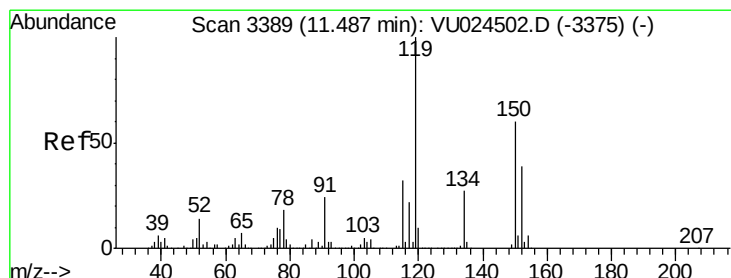
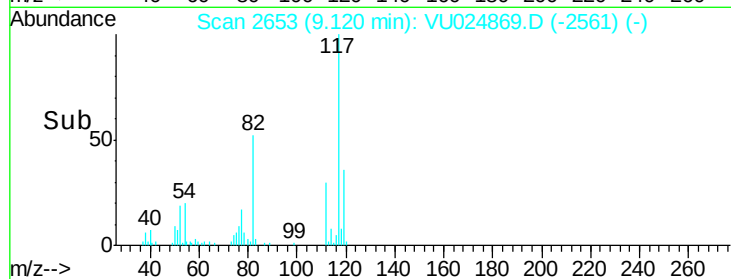
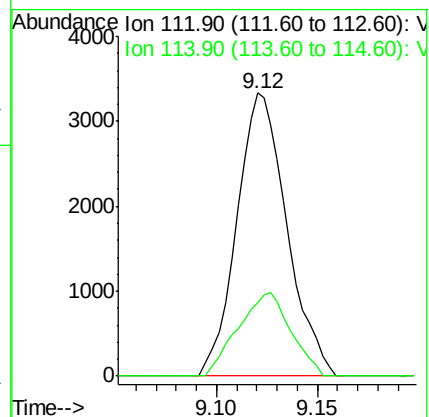
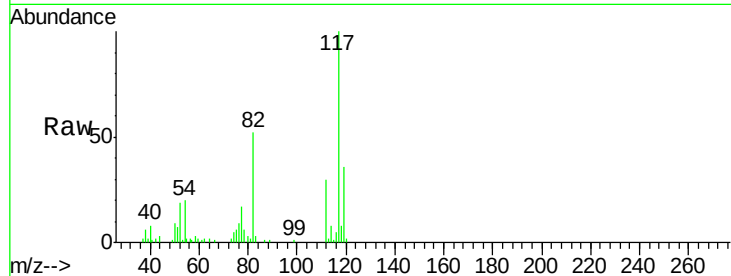
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:112 Resp: 5773

Ion Ratio Lower Upper

112 100

114 26.1 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: VU024869.D

Acq: 25 Jun 2018 12:54

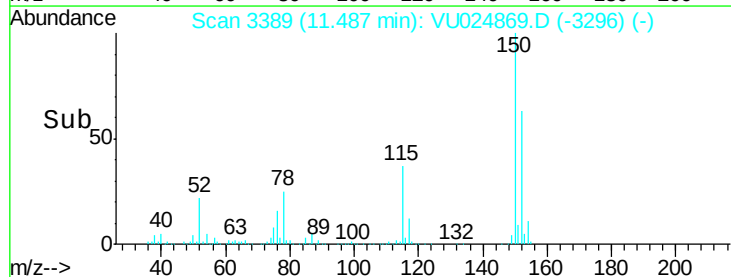
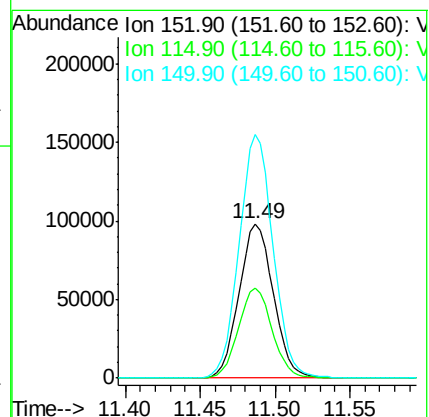
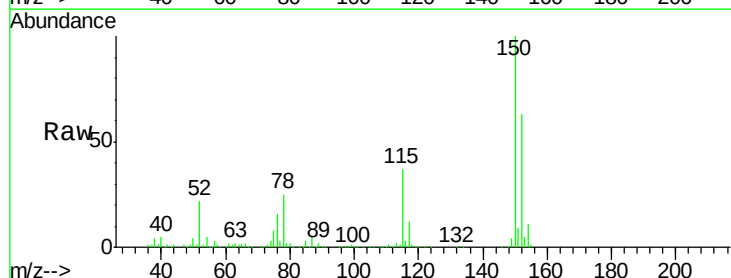
Tgt Ion:152 Resp: 156501

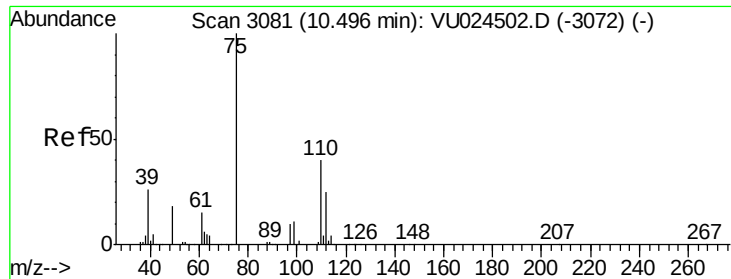
Ion Ratio Lower Upper

152 100

115 57.4 43.0 129.0

150 156.6 0.0 354.0





#76

1,2,3-Trichloropropane

Concen: 25.34 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024869.D

Acq: 25 Jun 2018 12:54

Instrument :

MSVOA_U

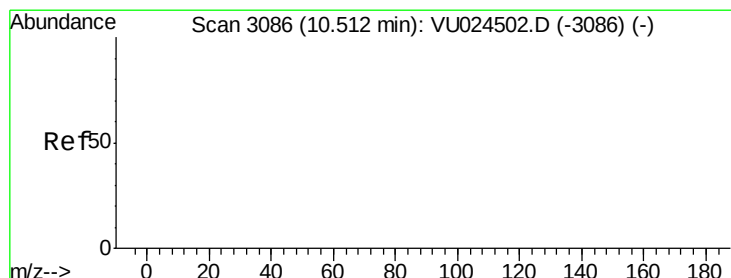
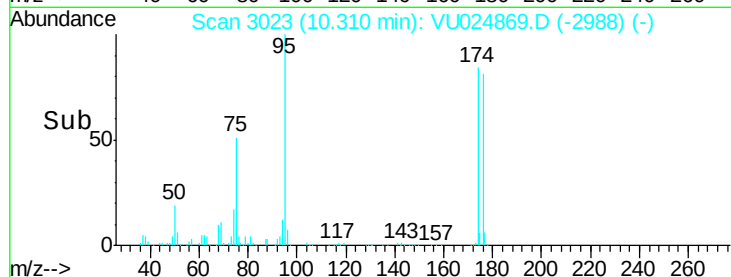
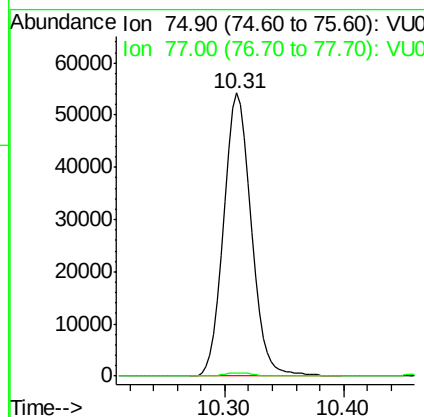
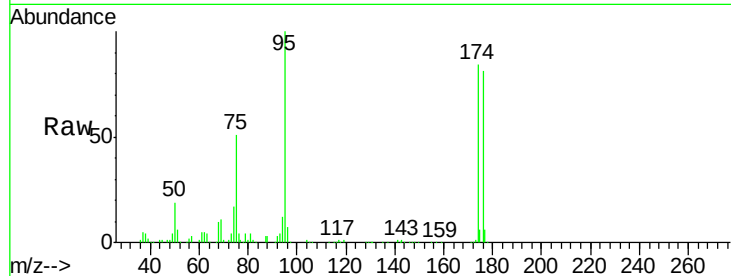
ClientSampleId :

Tot Ion: 75 Resp: 87301

Ion Ratio Lower Upper

75 100

77 1.1 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.64 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024869.D

Acq: 25 Jun 2018 12:54

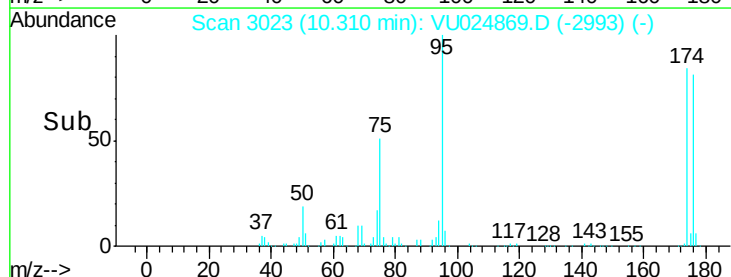
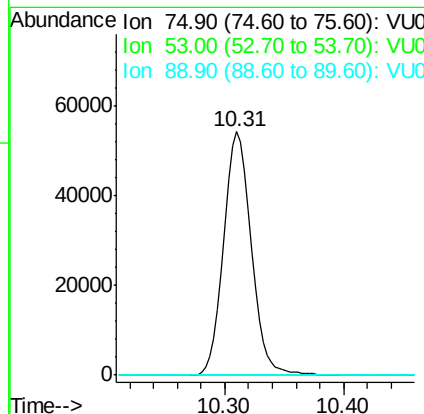
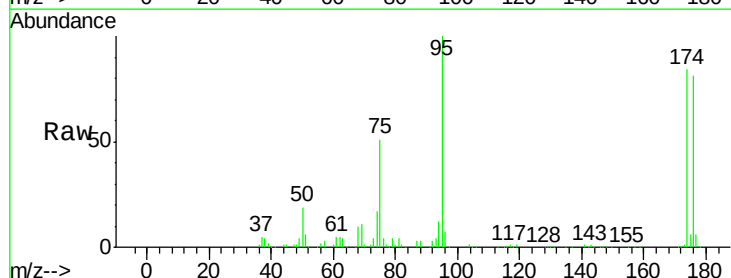
Tgt Ion: 75 Resp: 87301

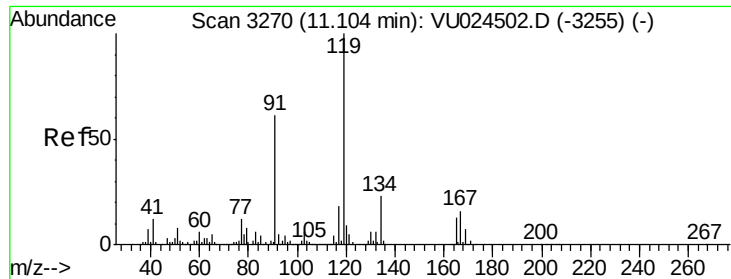
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

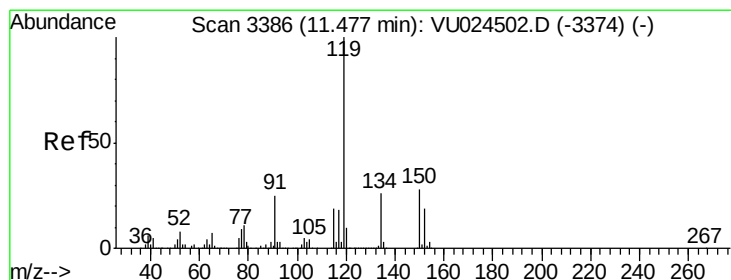
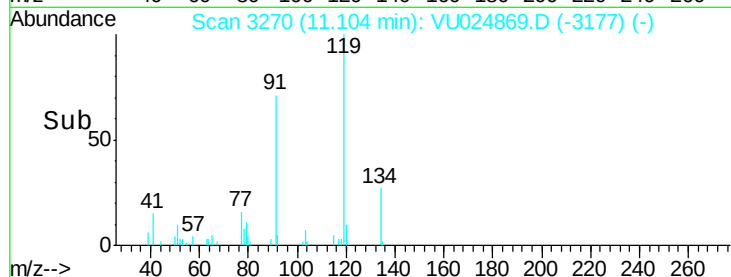
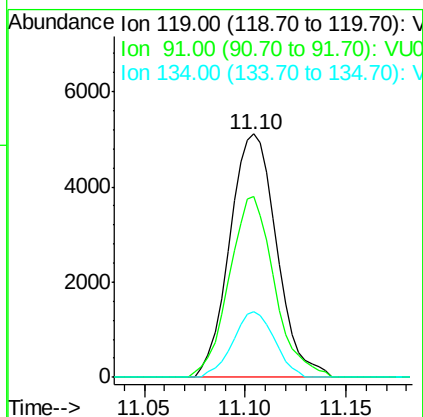
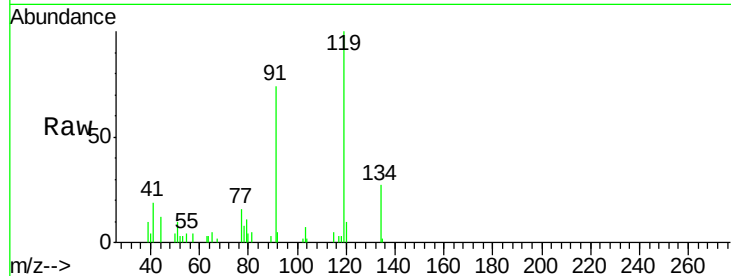




#83
tert-Butylbenzene
Concen: 0.83 ug/l
RT: 11.10 min Scan# 3270
Delta R.T. 0.00 min
Lab File: VU024869.D
Acq: 25 Jun 2018 12:54

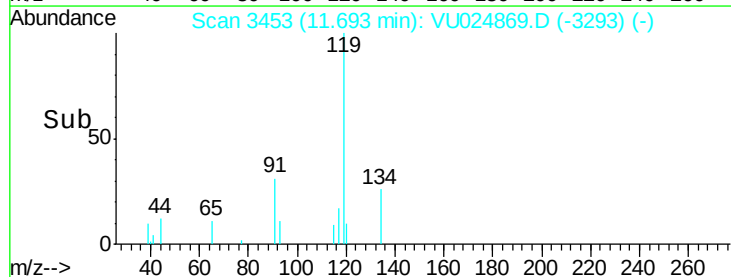
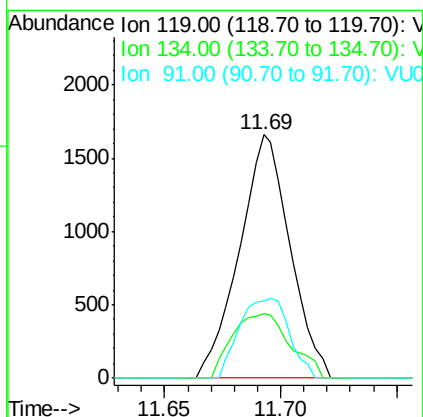
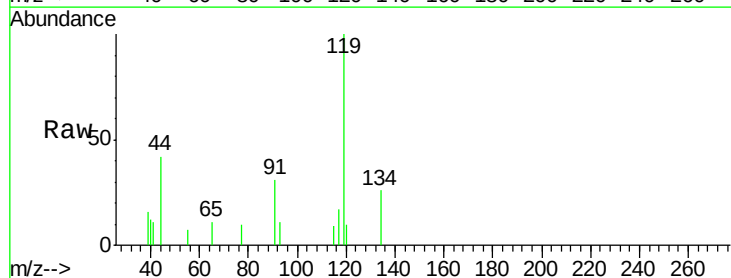
Instrument :
MSVOA_U
ClientSampleId :

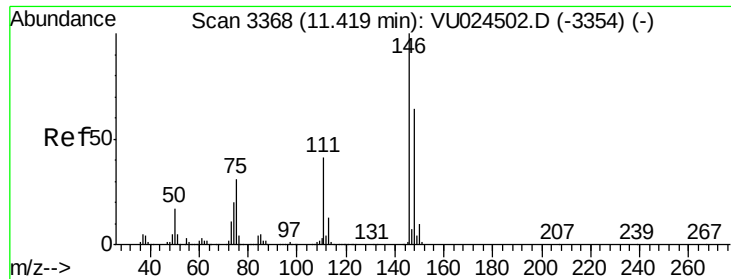
Tot Ion:119 Resp: 8325
Ion Ratio Lower Upper
119 100
91 71.5 29.7 89.1
134 24.0 11.6 34.7



#86
p-Isopropyltoluene
Concen: 0.22 ug/l
RT: 11.69 min Scan# 3453
Delta R.T. 0.22 min
Lab File: VU024869.D
Acq: 25 Jun 2018 12:54

Tgt Ion:119 Resp: 2520
Ion Ratio Lower Upper
119 100
134 30.3 12.9 38.6
91 31.9 12.0 36.1

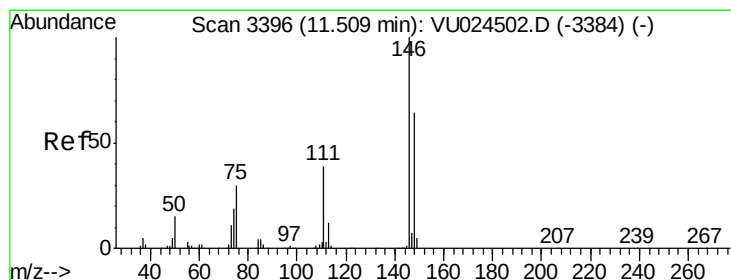
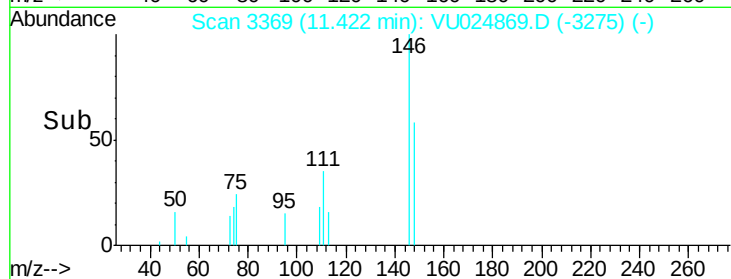
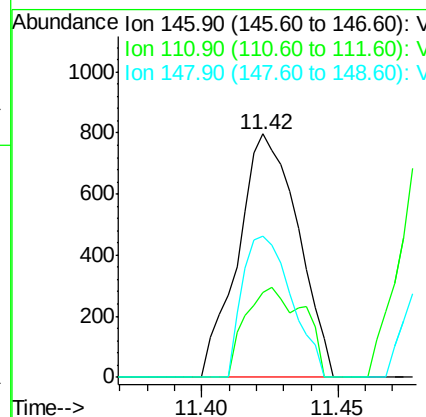
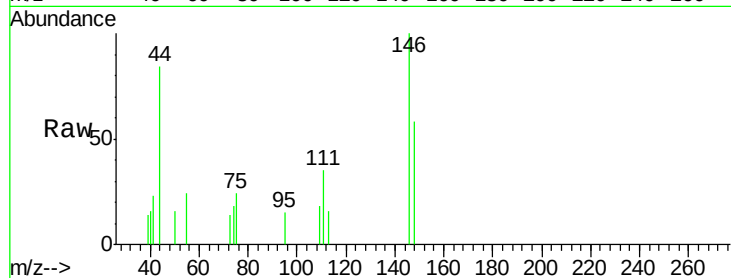




#87
 1,3-Dichlorobenzene
 Concen: 0.22 ug/l
 RT: 11.42 min Scan# 3369
 Delta R.T. 0.00 min
 Lab File: VU024869.D
 Acq: 25 Jun 2018 12:54

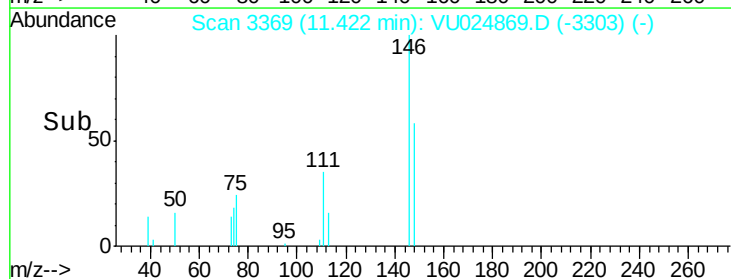
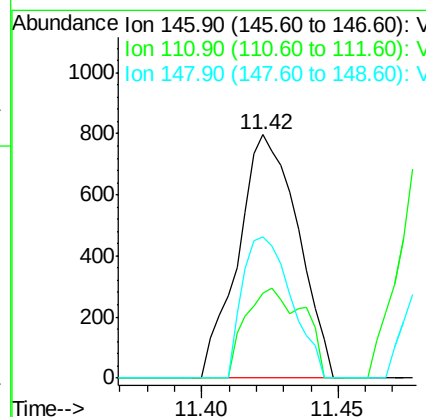
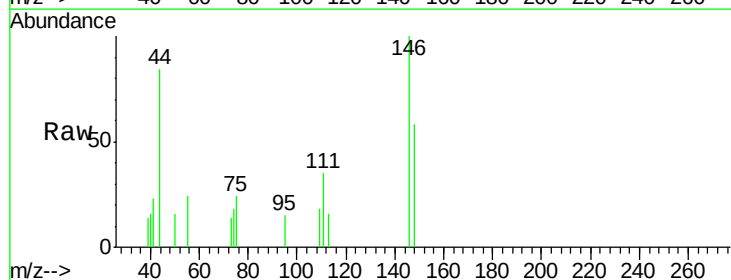
Instrument :
 MSVOA_U
 ClientSampled :

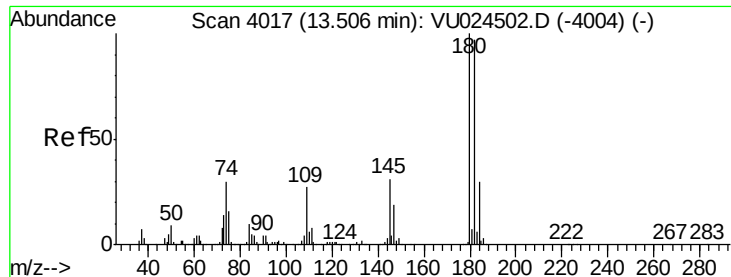
Tot Ion:146 Resp: 1215
 Ion Ratio Lower Upper
 146 100
 111 35.7 20.0 60.0
 148 47.6 32.1 96.5



#88
 1,4-Dichlorobenzene
 Concen: 0.21 ug/l
 RT: 11.42 min Scan# 3369
 Delta R.T. -0.09 min
 Lab File: VU024869.D
 Acq: 25 Jun 2018 12:54

Tgt Ion:146 Resp: 1215
 Ion Ratio Lower Upper
 146 100
 111 35.7 19.5 58.5
 148 47.6 32.4 97.0

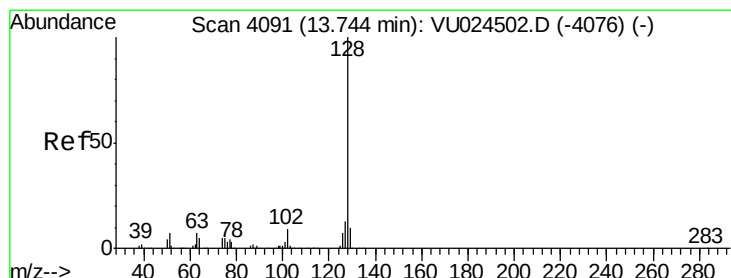
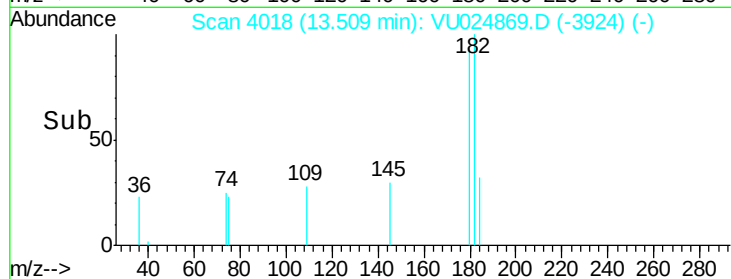
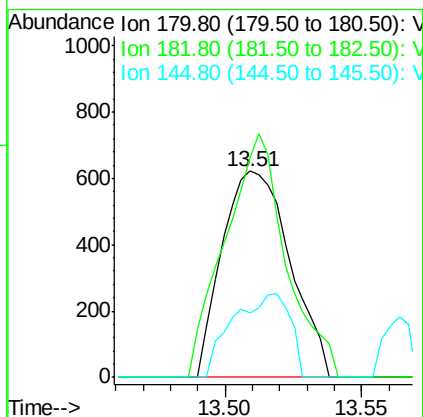
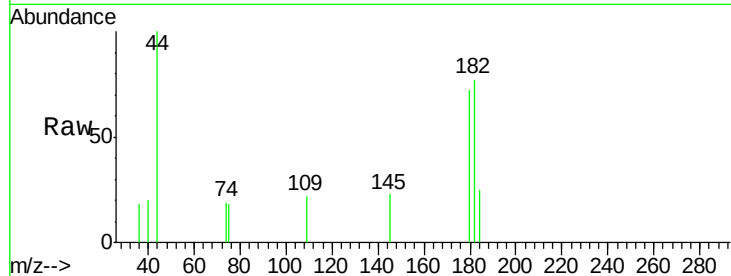




#93
 1,2,4-Trichlorobenzene
 Concen: 0.31 ug/l
 RT: 13.51 min Scan# 4018
 Delta R.T. 0.00 min
 Lab File: VU024869.D
 Acq: 25 Jun 2018 12:54

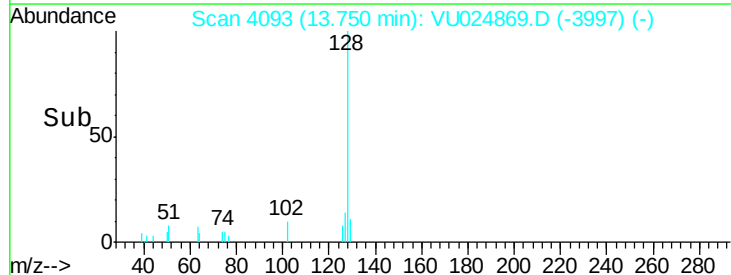
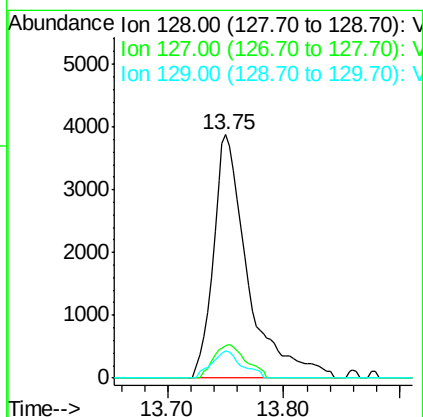
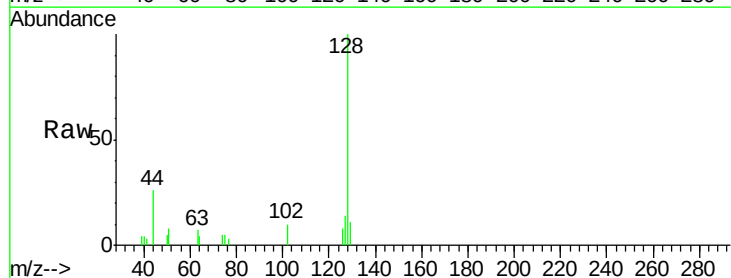
Instrument :
 MSVOA_U
 ClientSampleId :

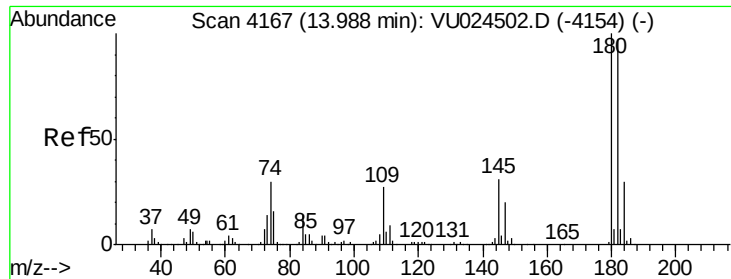
Tot Ion:180 Resp: 1073
 Ion Ratio Lower Upper
 180 100
 182 106.2 48.0 144.2
 145 34.1 14.7 44.1



#95
 Naphthalene
 Concen: 1.37 ug/l
 RT: 13.75 min Scan# 4093
 Delta R.T. 0.01 min
 Lab File: VU024869.D
 Acq: 25 Jun 2018 12:54

Tgt Ion:128 Resp: 8025
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.6 16.0
 129 9.9 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 0.38 ug/l
 RT: 13.99 min Scan# 4168
 Delta R.T. 0.00 min
 Lab File: VU024869.D
 Acq: 25 Jun 2018 12:54

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.2	47.9	143.7
145	33.1	15.4	46.1

