

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062518\
 Data File : VU024901.D
 Acq On : 26 Jun 2018 02:14
 Operator : MD/SY
 Sample : J3669-28ME
 Misc : 6.32g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 26 05:41:13 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	255239	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	387382	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.10	117	363821	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	198686	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	189675	45.52	ug/l	0.00
Spiked Amount			Recovery	=	91.04%	
35) Dibromofluoromethane	4.89	113	150266	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	
50) Toluene-d8	7.57	98	555018	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	
62) 4-Bromofluorobenzene	10.32	95	212907	45.73	ug/l	0.00
Spiked Amount			Recovery	=	91.46%	

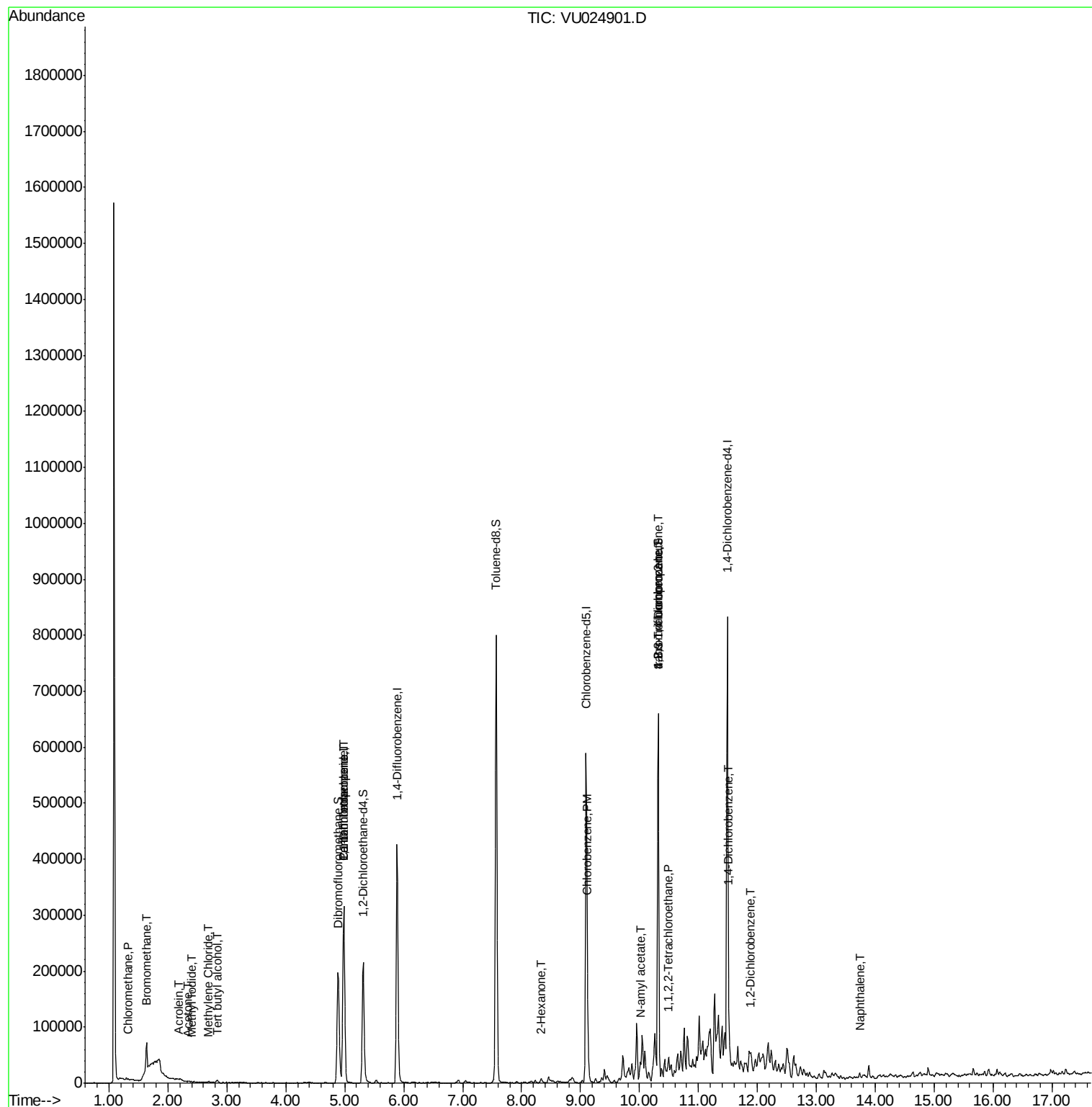
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1608	0.49	ug/l	91
5) Bromomethane	1.62	94	911	0.56	ug/l	90
6) Chloroethane	1.70	64	124	Below Cal	#	60
8) Diethyl Ether	1.96	74	144	Below Cal		73
10) Methyl Iodide	2.39	142	634	5.50	ug/l	# 84
11) Tert butyl alcohol	2.83	59	2399	2.37	ug/l	# 72
13) Acrolein	2.18	56	190	0.36	ug/l	# 13
16) Acetone	2.35	43	827	0.37	ug/l	# 44
20) Methylene Chloride	2.69	84	762	0.22	ug/l	# 75
31) Cyclohexane	4.98	56	5364	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	19117	4.20	ug/l	# 51
38) Carbon Tetrachloride	4.98	117	24150	4.82	ug/l	# 16
59) 2-Hexanone	8.33	43	3950	0.90	ug/l	# 26
65) Chlorobenzene	9.12	112	28285	3.04	ug/l	99
74) N-amyl acetate	10.01	43	7432	1.02	ug/l	# 61
75) 1,1,2,2-Tetrachloroethane	10.49	83	2272	0.44	ug/l	# 25
76) 1,2,3-Trichloropropane	10.32	75	107575	24.59	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	10.32	75	107575	56.92	ug/l	# 100
88) 1,4-Dichlorobenzene	11.52	146	2136	0.30	ug/l	# 26
91) 1,2-Dichlorobenzene	11.89	146	4557	0.64	ug/l	# 83
95) Naphthalene	13.75	128	671	0.72	ug/l	# 49

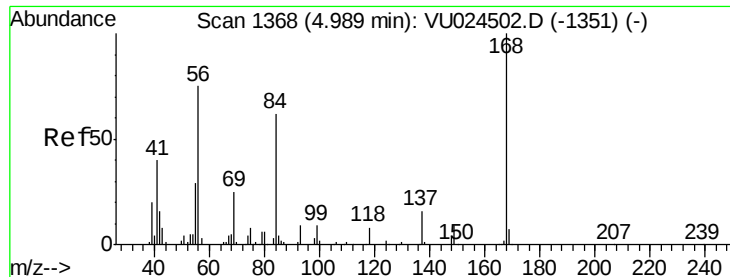
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VU024901.D

Acq: 26 Jun 2018 02:14

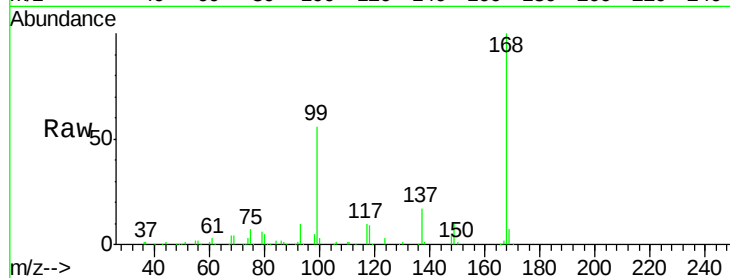
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 255239

Ion Ratio Lower Upper

168 100

99 56.4 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

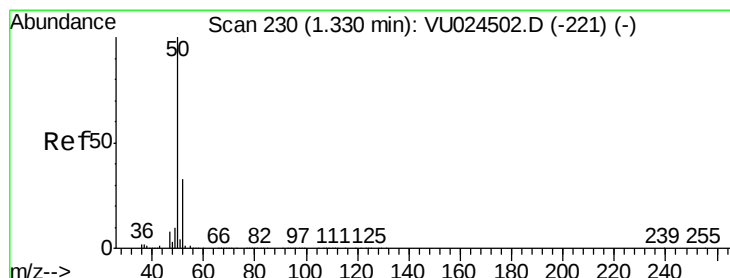
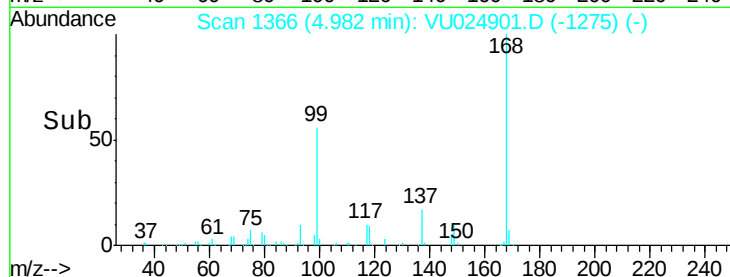
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.49 ug/l

RT: 1.32 min Scan# 228

Delta R.T. -0.01 min

Lab File: VU024901.D

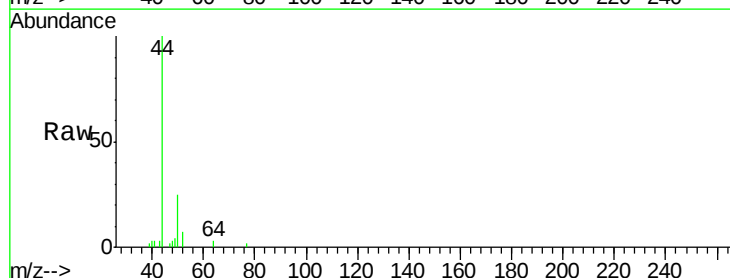
Acq: 26 Jun 2018 02:14

Tgt Ion: 50 Resp: 1608

Ion Ratio Lower Upper

50 100

52 27.8 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) (-)

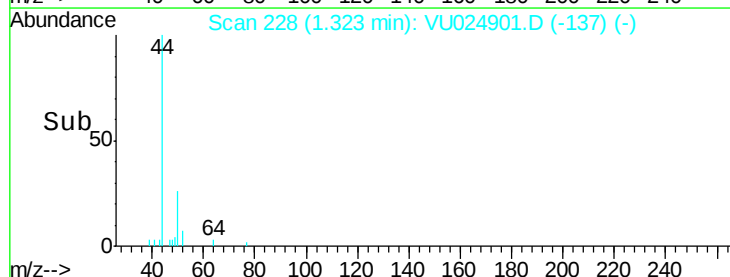
1.32

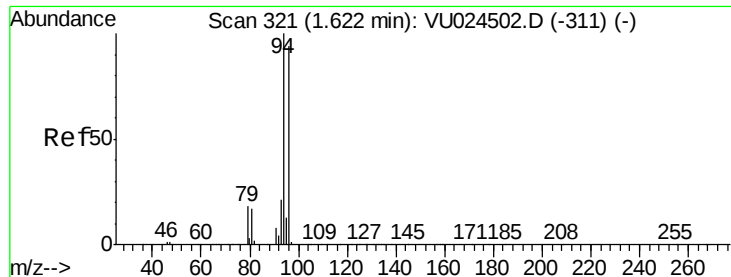
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.56 ug/l

RT: 1.62 min Scan# 320

Delta R.T. -0.00 min

Lab File: VU024901.D

Acq: 26 Jun 2018 02:14

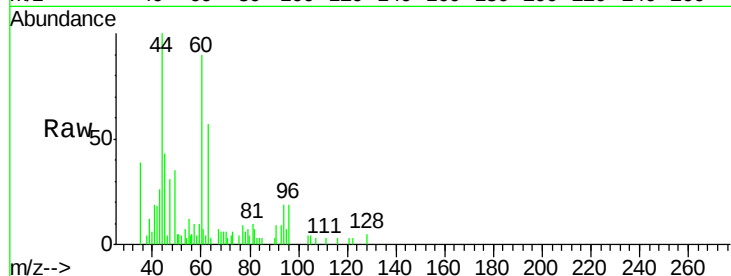
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 94 Resp: 911

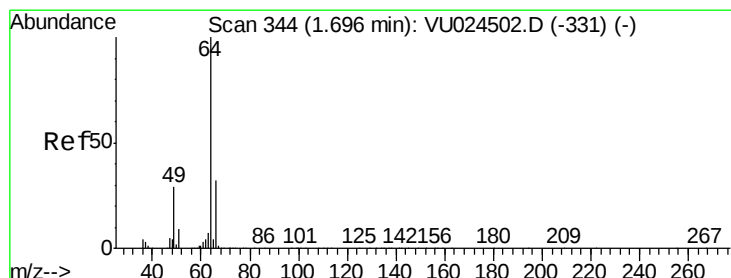
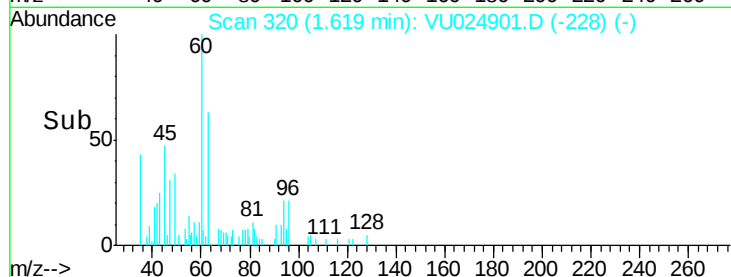
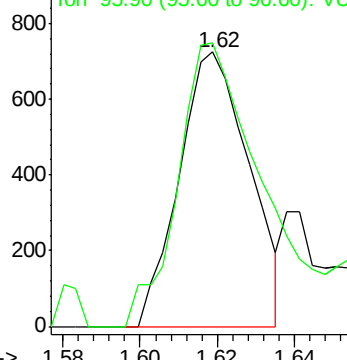
Ion Ratio Lower Upper

94 100

96 103.2 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: 1.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU024901.D

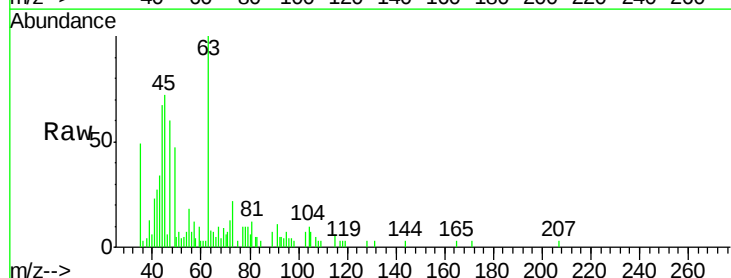
Acq: 26 Jun 2018 02:14

Tgt Ion: 64 Resp: 124

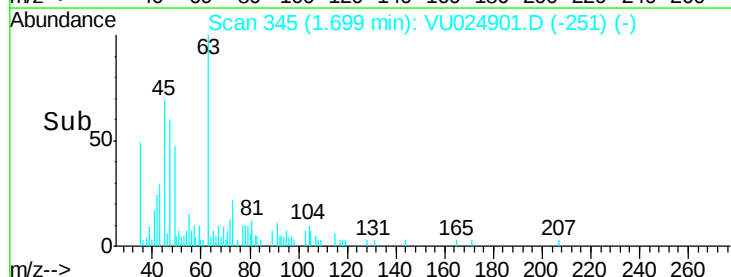
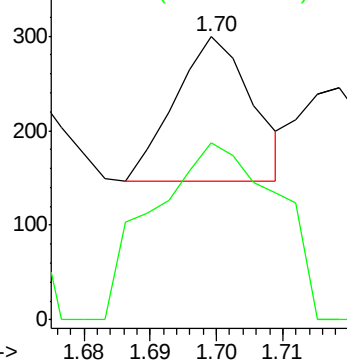
Ion Ratio Lower Upper

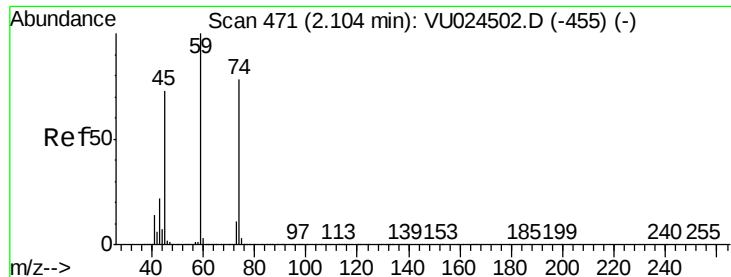
64 100

66 54.2 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: 1.96 min Scan# 425

Delta R.T. -0.15 min

Lab File: VU024901.D

Acq: 26 Jun 2018 02:14

Instrument :

MSVOA_U

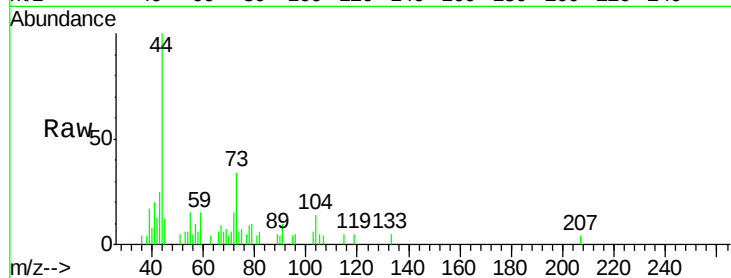
ClientSampleId :

Tot Ion: 74 Resp: 144

Ion Ratio Lower Upper

74 100

45 81.3 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU024901.D (-378) (-)

Ion 45.00 (44.70 to 45.70): VU024901.D (-378) (-)

450

300

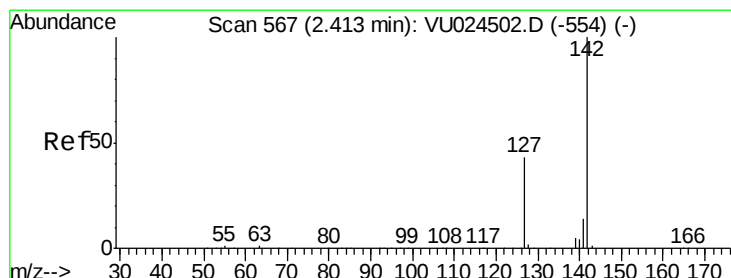
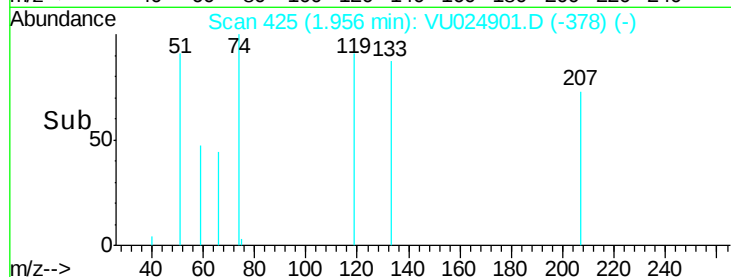
200

100

0

1.94 1.95 1.96 1.97 1.98

Time-->



#10

Methyl Iodide

Concen: 5.50 ug/l

RT: 2.39 min Scan# 561

Delta R.T. -0.02 min

Lab File: VU024901.D

Acq: 26 Jun 2018 02:14

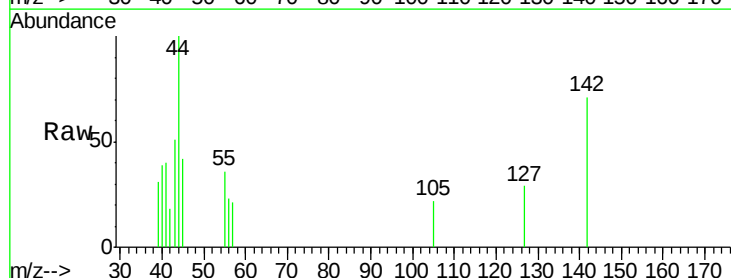
Tgt Ion: 142 Resp: 634

Ion Ratio Lower Upper

142 100

127 38.3 35.6 53.4

141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): VU024901.D (-474) (-)

Ion 126.80 (126.50 to 127.50): VU024901.D (-474) (-)

Ion 140.80 (140.50 to 141.50): VU024901.D (-474) (-)

500

400

300

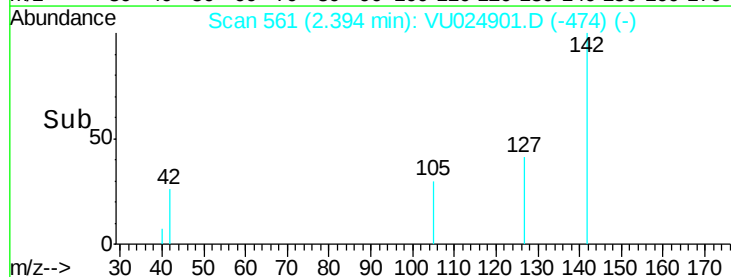
200

100

0

2.36 2.38 2.40 2.42

Time-->

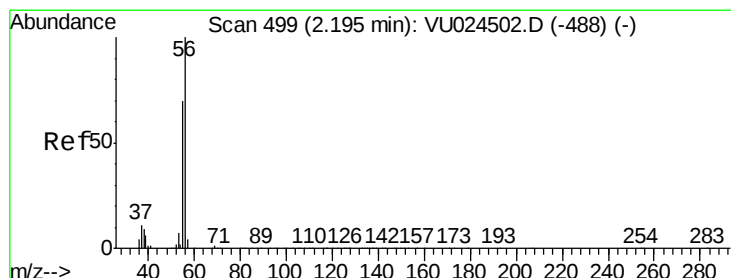
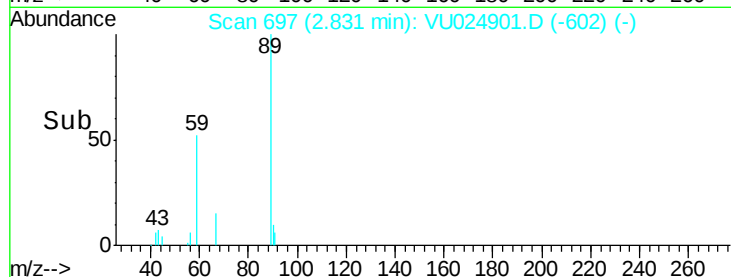
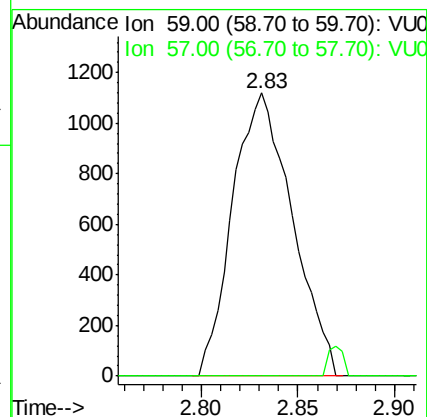
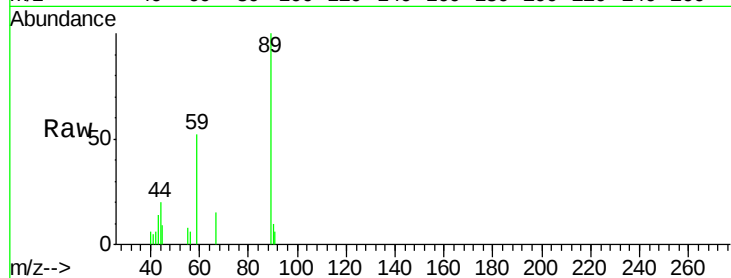




#11
Tert butyl alcohol
Concen: 2.37 ug/l
RT: 2.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VU024901.D
Acq: 26 Jun 2018 02:14

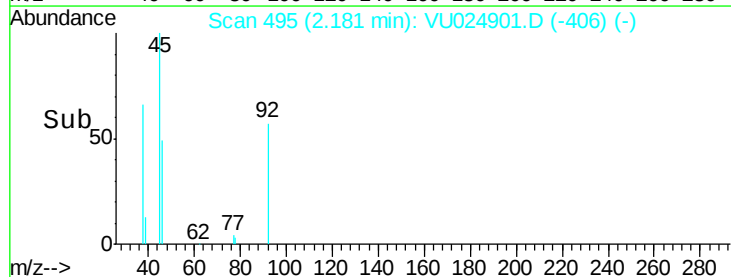
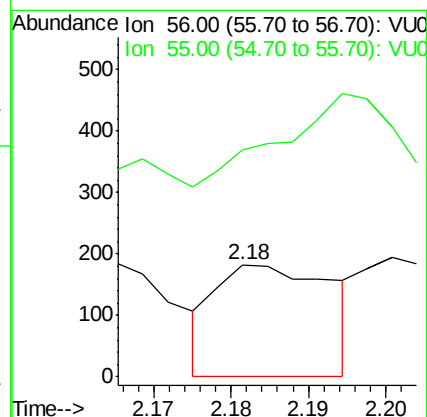
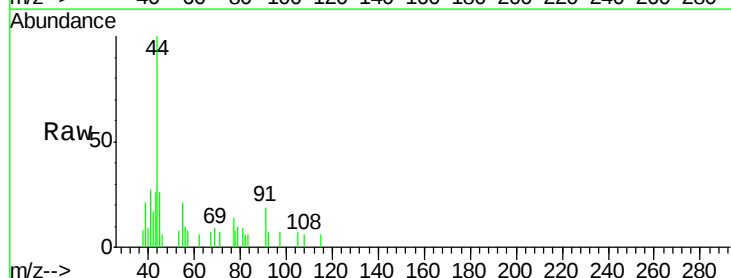
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 59 Resp: 2399
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 0.36 ug/l
RT: 2.18 min Scan# 495
Delta R.T. -0.01 min
Lab File: VU024901.D
Acq: 26 Jun 2018 02:14

Tgt Ion: 56 Resp: 190
Ion Ratio Lower Upper
56 100
55 0.0 58.4 87.6#





#16

Acetone

Concen: 0.37 ug/l

RT: 2.35 min Scan# 546

Delta R.T. 0.02 min

Lab File: VU024901.D

Acq: 26 Jun 2018 02:14

Instrument :

MSVOA_U

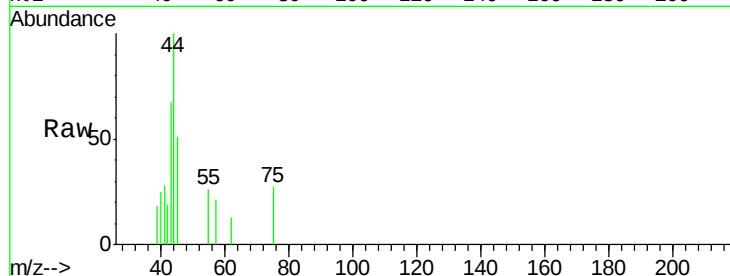
ClientSampleId :

Tot Ion: 43 Resp: 827

Ion Ratio Lower Upper

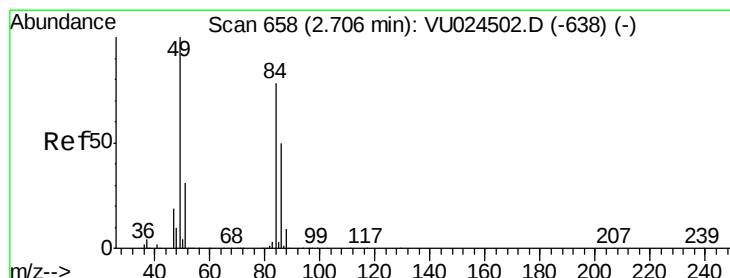
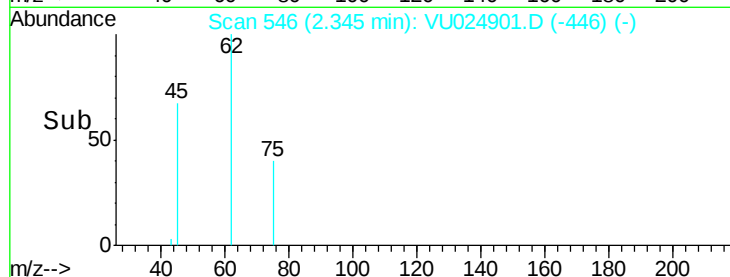
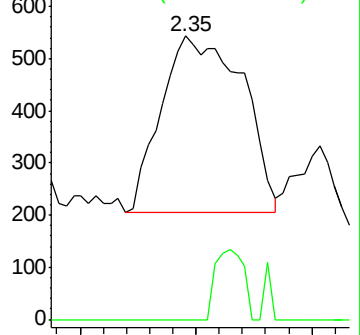
43 100

58 0.0 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: 0.22 ug/l

RT: 2.69 min Scan# 654

Delta R.T. -0.01 min

Lab File: VU024901.D

Acq: 26 Jun 2018 02:14

Tgt Ion: 84 Resp: 762

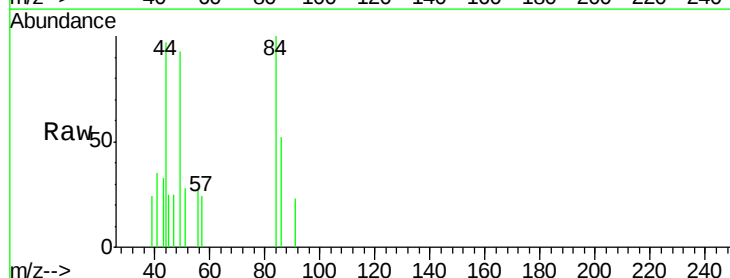
Ion Ratio Lower Upper

84 100

49 92.8 103.8 155.8#

51 28.2 32.0 48.0#

86 51.5 51.6 77.4#

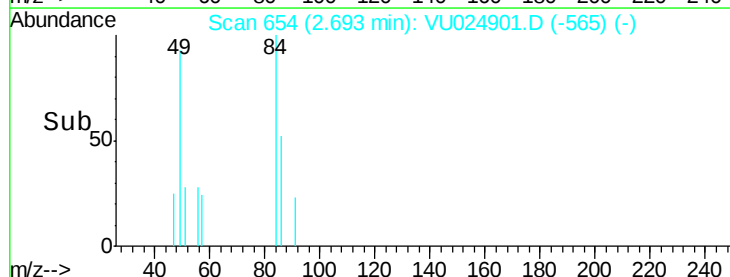
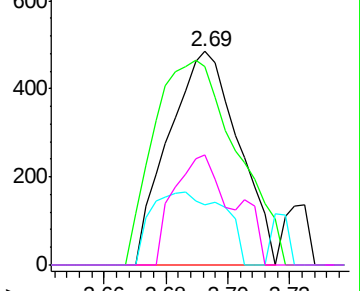


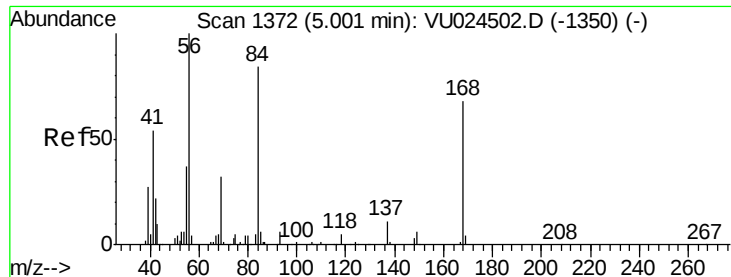
Abundance Ion 83.90 (83.60 to 84.60): VU0

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

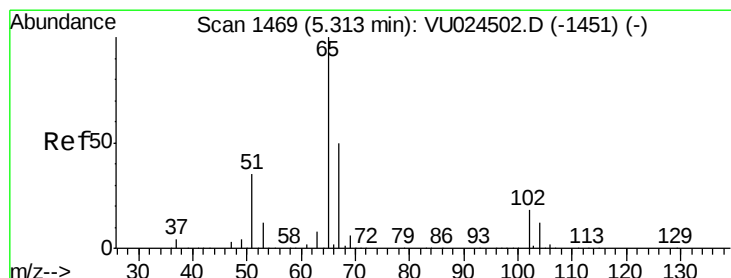
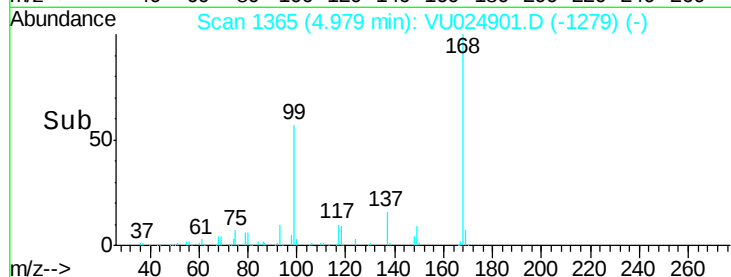
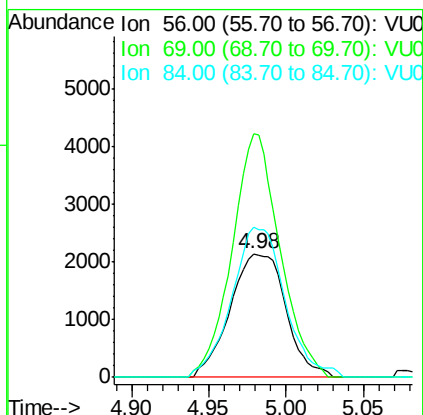
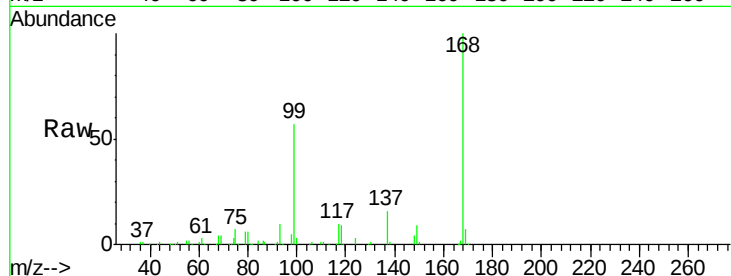




#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1365
Delta R.T. -0.02 min
Lab File: VU024901.D
Acq: 26 Jun 2018 02:14

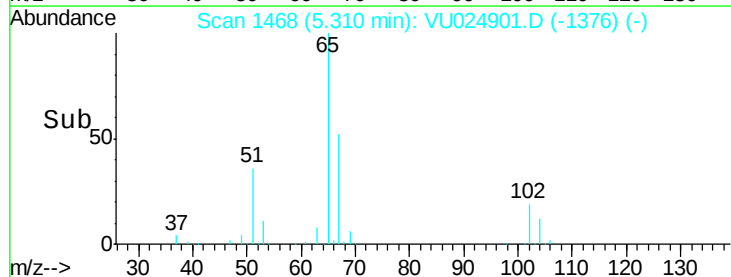
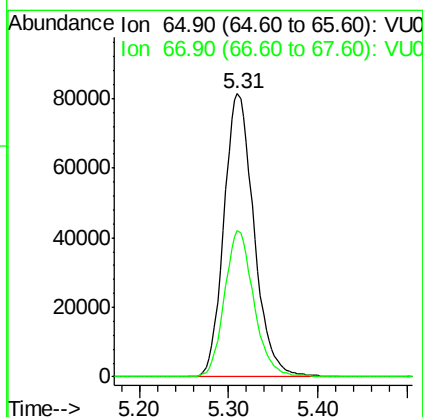
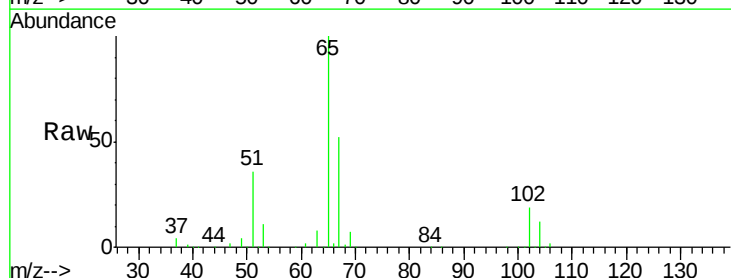
Instrument :
MSVOA_U
ClientSampled :

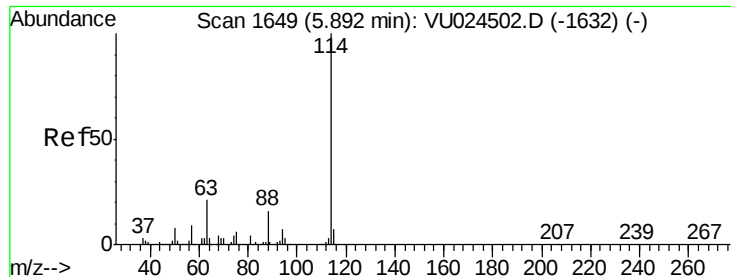
Tot Ion: 56 Resp: 5364
Ion Ratio Lower Upper
56 100
69 196.9 24.8 37.2#
84 121.3 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 45.52 ug/l
RT: 5.31 min Scan# 1468
Delta R.T. -0.00 min
Lab File: VU024901.D
Acq: 26 Jun 2018 02:14

Tgt Ion: 65 Resp: 189675
Ion Ratio Lower Upper
65 100
67 50.6 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU024901.D

Acq: 26 Jun 2018 02:14

Instrument :
MSVOA_U
ClientSampleId :

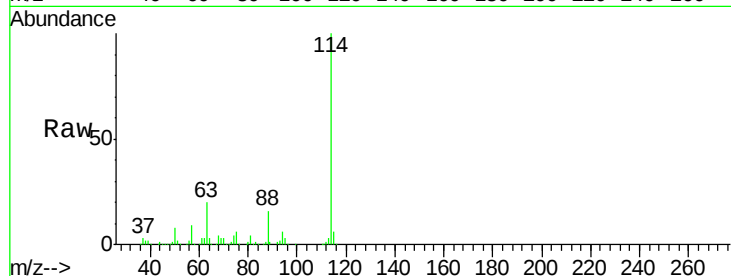
Tot Ion:114 Resp: 387382

Ion Ratio Lower Upper

114 100

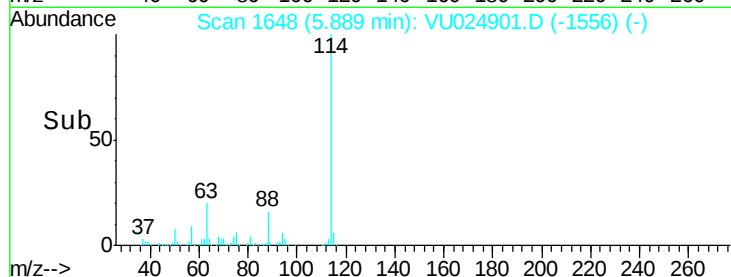
63 20.5 0.0 45.4

88 16.3 0.0 31.0

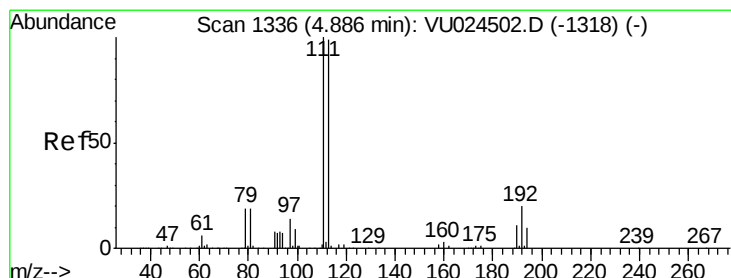


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

5.89



Time-->



#35

Dibromofluoromethane

Concen: 46.74 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU024901.D

Acq: 26 Jun 2018 02:14

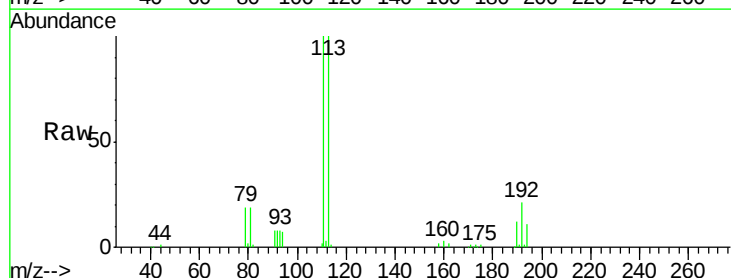
Tgt Ion:113 Resp: 150266

Ion Ratio Lower Upper

113 100

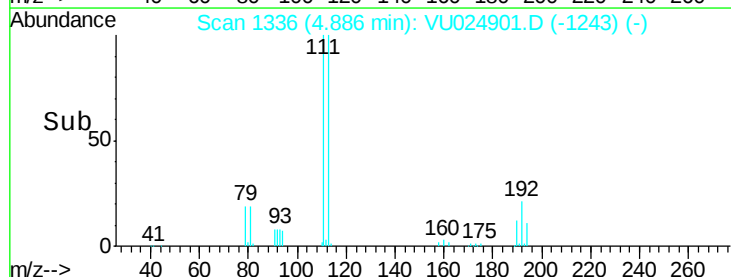
111 99.7 82.2 123.4

192 20.7 16.2 24.4

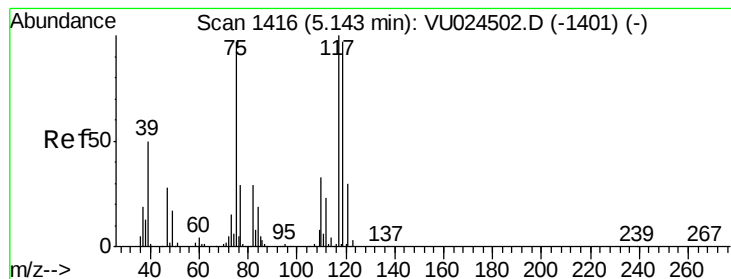


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

4.89



Time-->



#36

1,1-Dichloropropene

Concen: 4.20 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.16 min

Lab File: VU024901.D

Acq: 26 Jun 2018 02:14

Instrument :

MSVOA_U

ClientSampled :

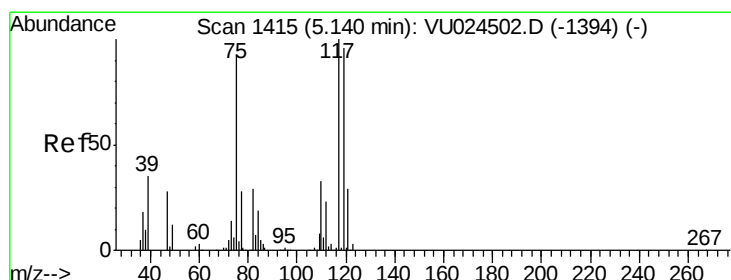
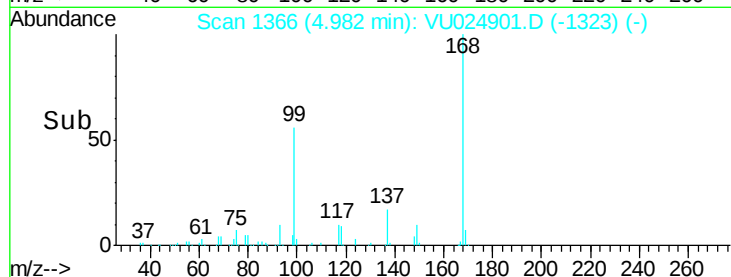
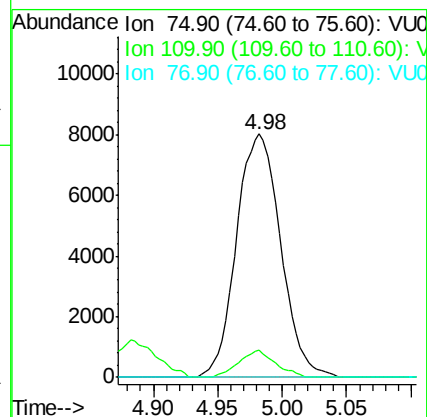
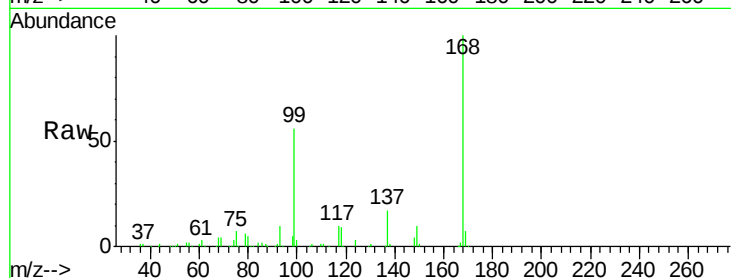
Tot Ion: 75 Resp: 19117

Ion Ratio Lower Upper

75 100

110 9.2 17.0 50.9#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 4.82 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.16 min

Lab File: VU024901.D

Acq: 26 Jun 2018 02:14

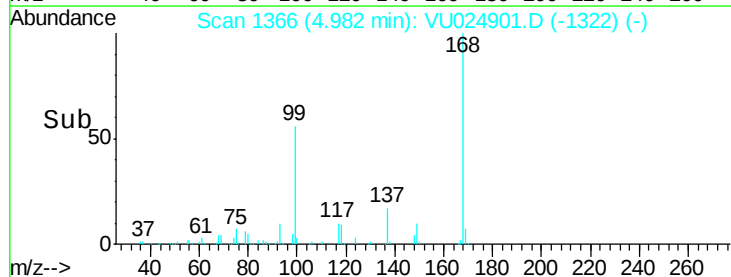
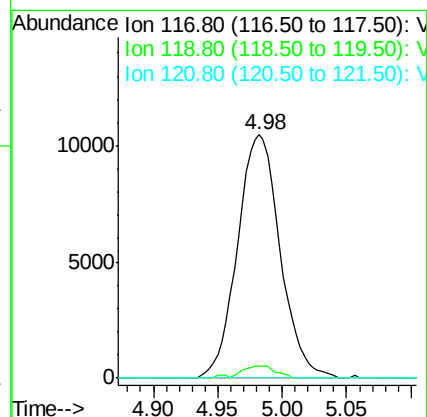
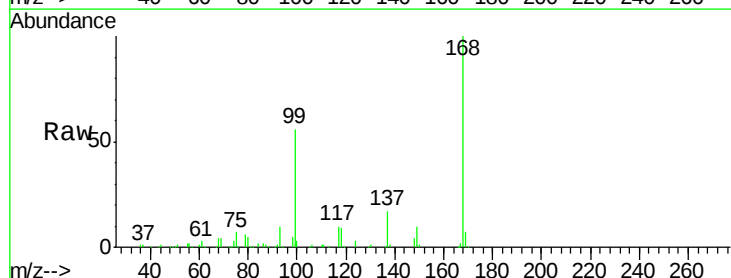
Tgt Ion: 117 Resp: 24150

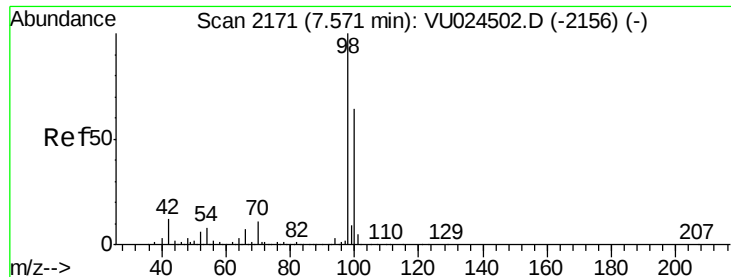
Ion Ratio Lower Upper

117 100

119 5.0 76.1 114.1#

121 0.0 23.7 35.5#

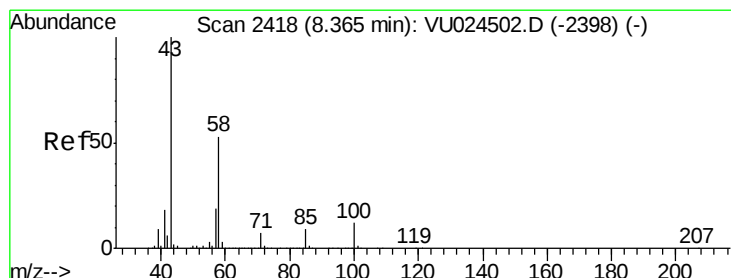
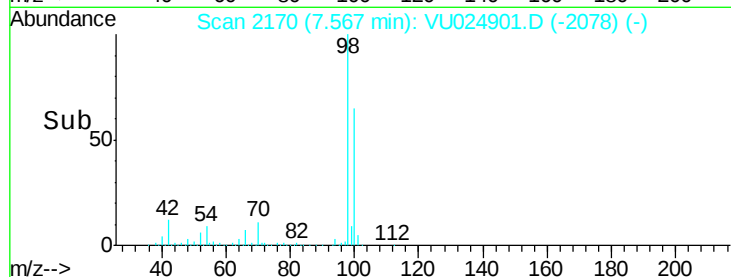
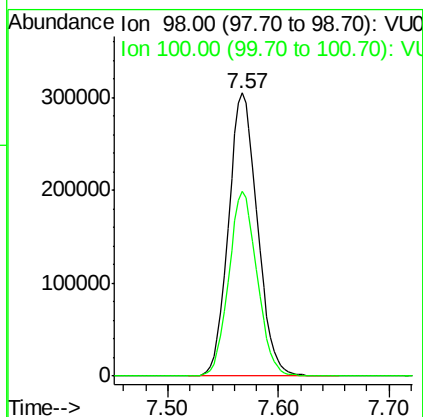
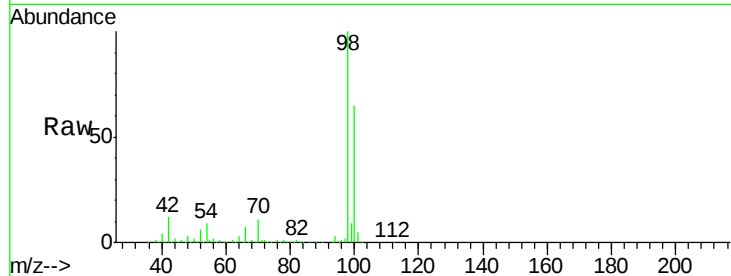




#50
Toluene-d8
Concen: 47.33 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU024901.D
Acq: 26 Jun 2018 02:14

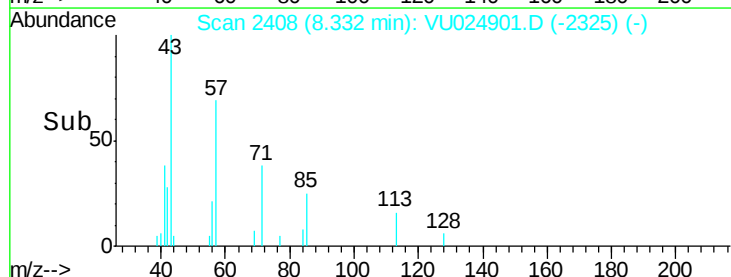
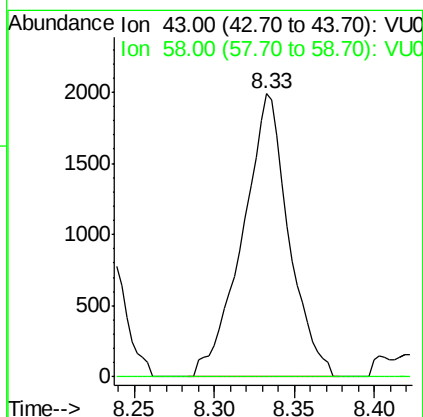
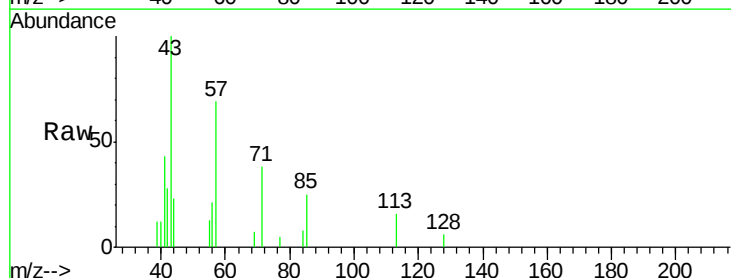
Instrument :
MSVOA_U
ClientSampleId :

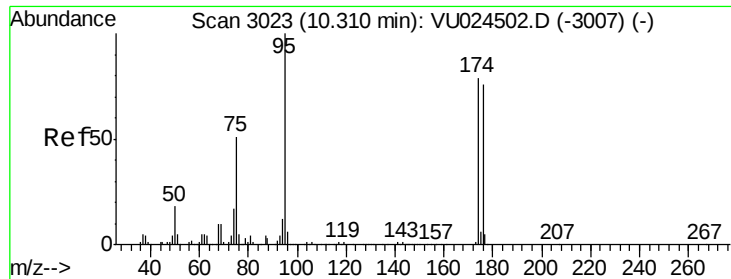
Tot Ion: 98 Resp: 555018
Ion Ratio Lower Upper
98 100
100 64.1 51.1 76.7



#59
2-Hexanone
Concen: 0.90 ug/l
RT: 8.33 min Scan# 2408
Delta R.T. -0.03 min
Lab File: VU024901.D
Acq: 26 Jun 2018 02:14

Tgt Ion: 43 Resp: 3950
Ion Ratio Lower Upper
43 100
58 0.0 26.4 79.0#

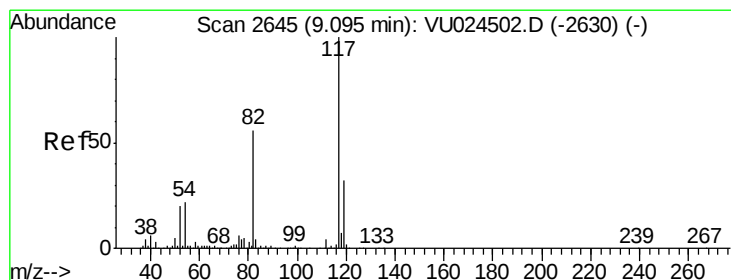
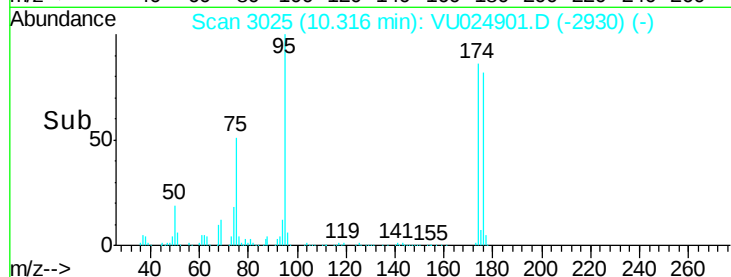
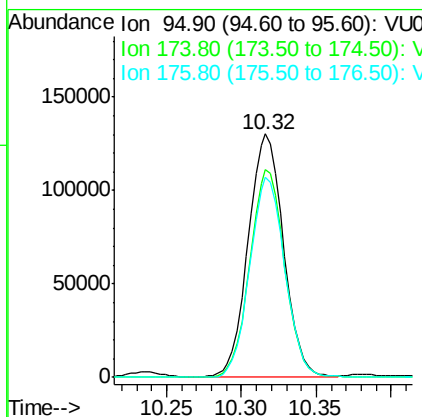
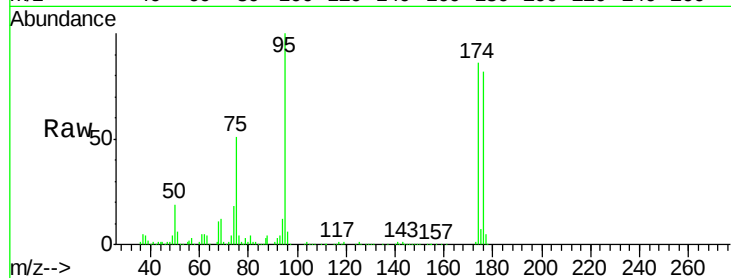




#62
4-Bromofluorobenzene
Concen: 45.73 ug/l
RT: 10.32 min Scan# 3025
Delta R.T. 0.01 min
Lab File: VU024901.D
Acq: 26 Jun 2018 02:14

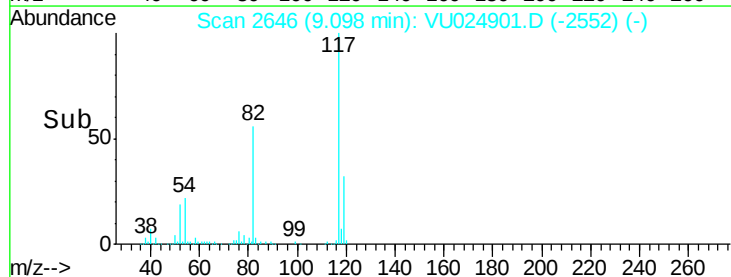
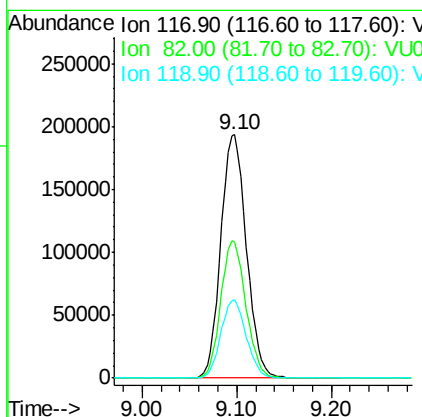
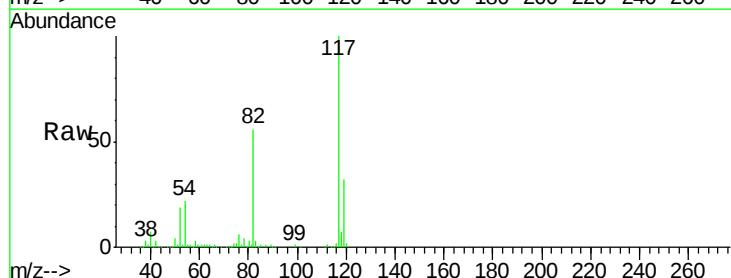
Instrument :
MSVOA_U
ClientSampleId :

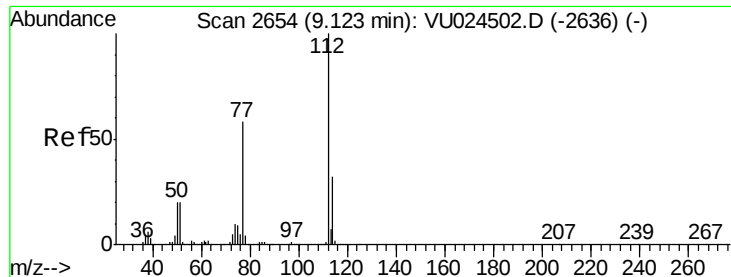
Tot Ion	Ratio	Lower	Upper
95	100		
174	85.1	0.0	165.8
176	82.2	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.10 min Scan# 2646
Delta R.T. 0.00 min
Lab File: VU024901.D
Acq: 26 Jun 2018 02:14

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

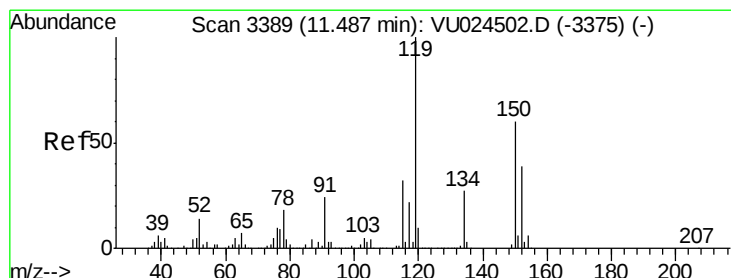
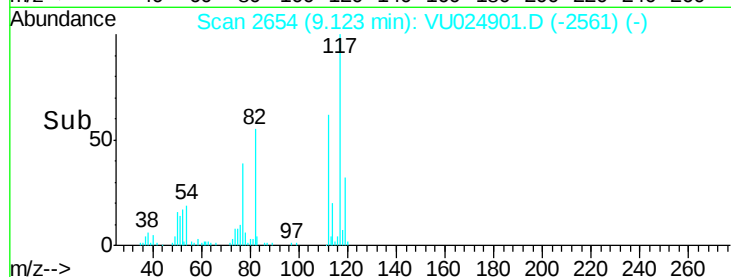
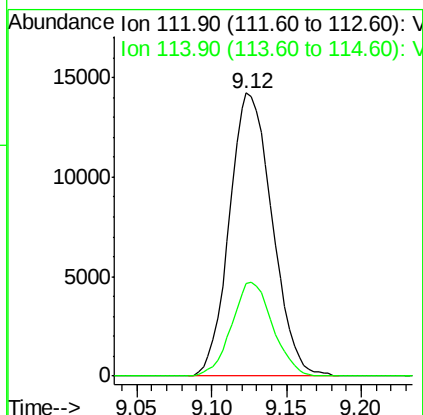
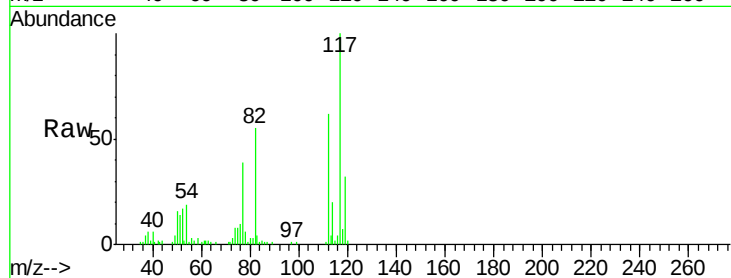




#65
Chlorobenzene
Concen: 3.04 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. -0.00 min
Lab File: VU024901.D
Acq: 26 Jun 2018 02:14

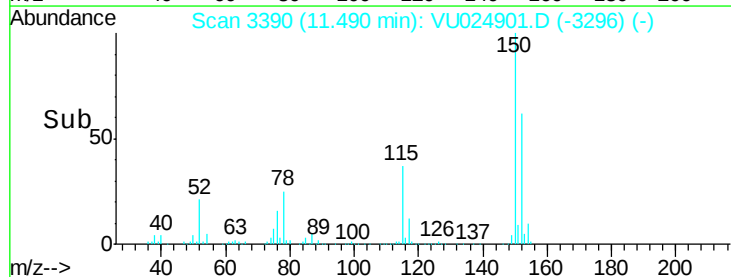
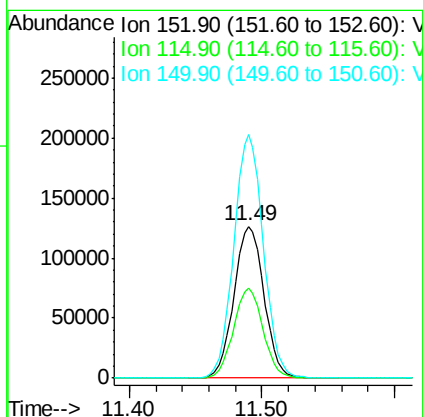
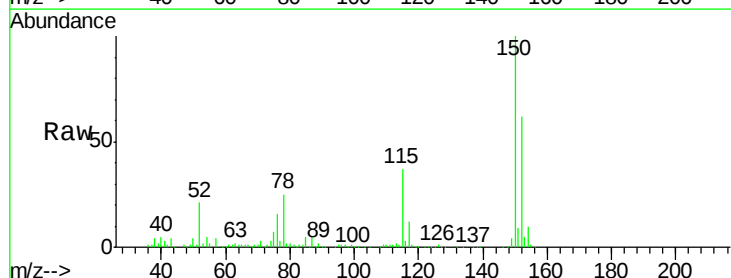
Instrument :
MSVOA_U
ClientSampleId :

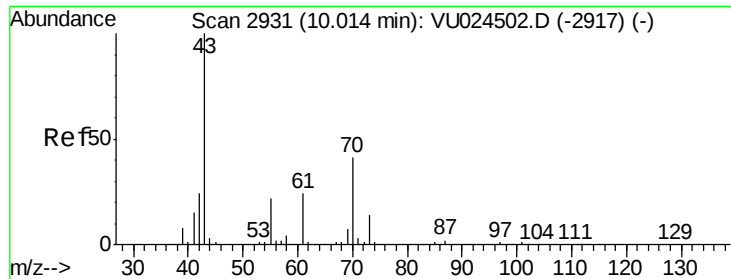
Tot Ion:112 Resp: 28285
Ion Ratio Lower Upper
112 100
114 32.5 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VU024901.D
Acq: 26 Jun 2018 02:14

Tgt Ion:152 Resp: 198686
Ion Ratio Lower Upper
152 100
115 58.2 43.0 129.0
150 157.7 0.0 354.0





#74

N-amvl acetate

Concen: 1.02 ug/l

RT: 10.01 min Scan# 2930

Delta R.T. -0.00 min

Lab File: VU024901.D

Acq: 26 Jun 2018 02:14

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 43 Resp: 7432

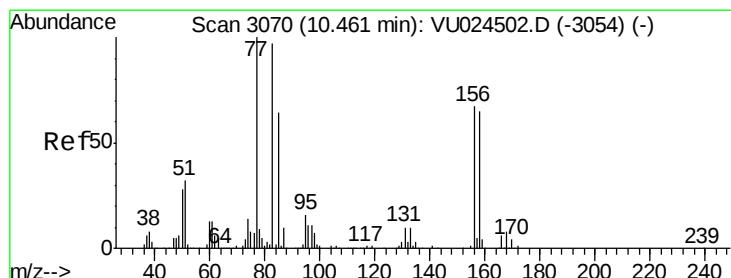
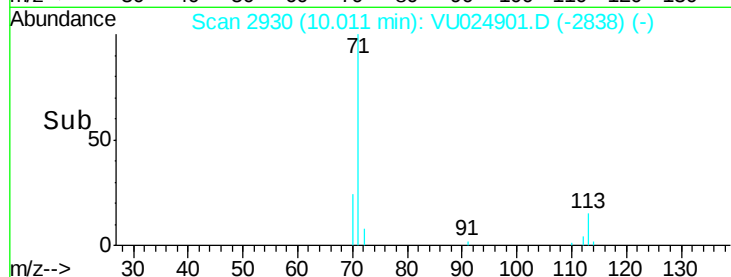
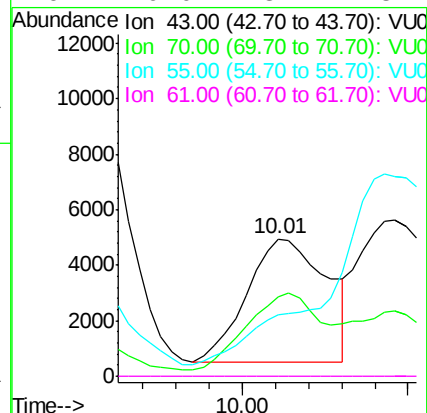
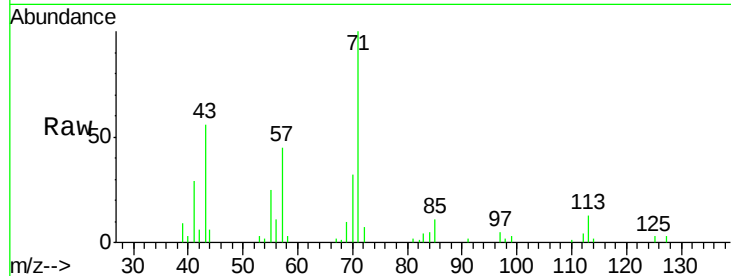
Ion Ratio Lower Upper

43 100

70 56.6 32.2 48.4#

55 0.0 20.5 30.7#

61 0.0 18.7 28.1#



#75

1,1,2,2-Tetrachloroethane

Concen: 0.44 ug/l

RT: 10.49 min Scan# 3080

Delta R.T. 0.03 min

Lab File: VU024901.D

Acq: 26 Jun 2018 02:14

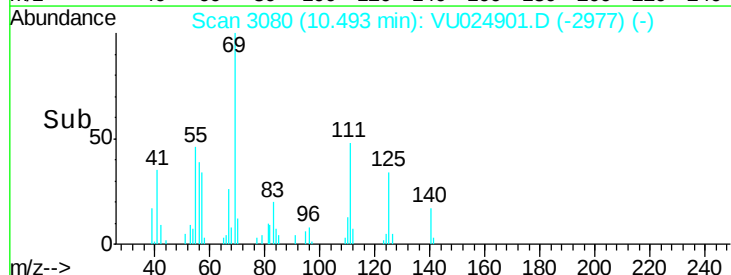
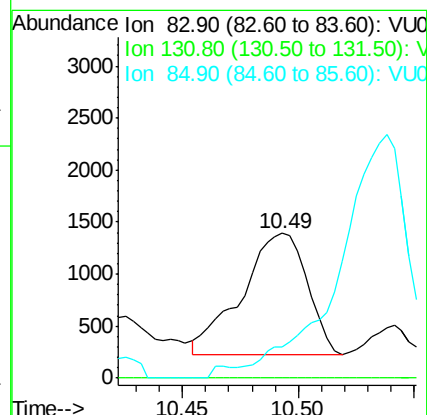
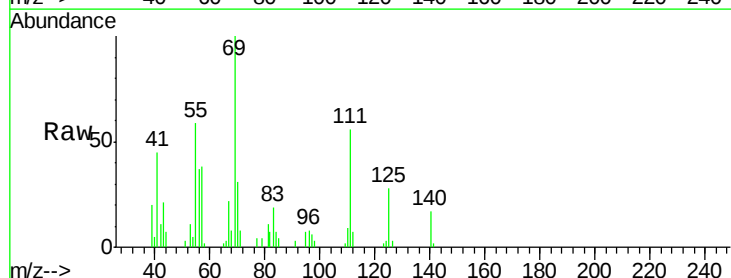
Tgt Ion: 83 Resp: 2272

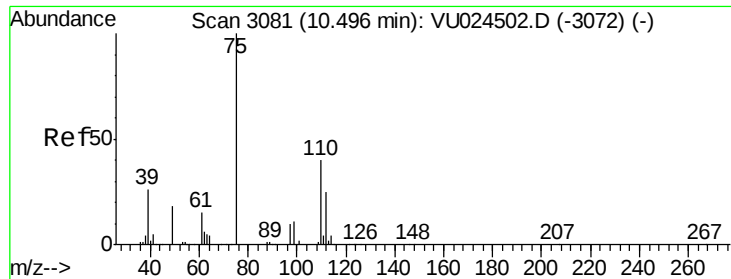
Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.1#

85 0.0 32.5 97.5#

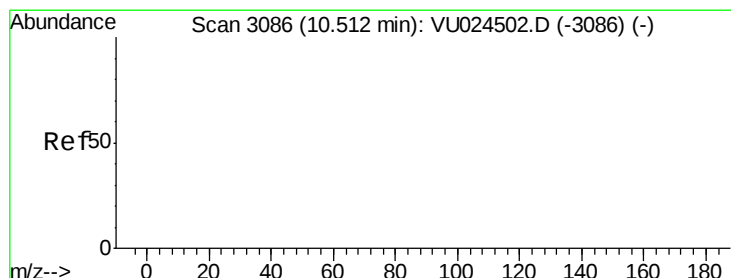
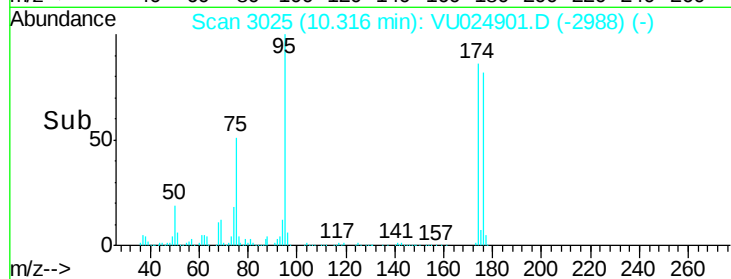
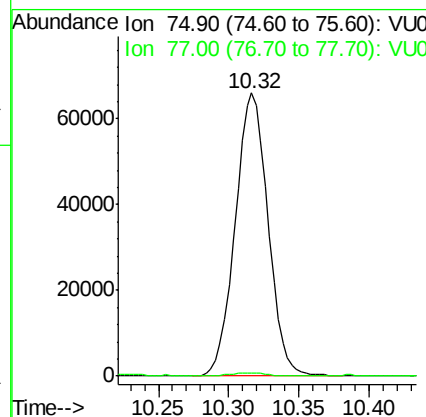
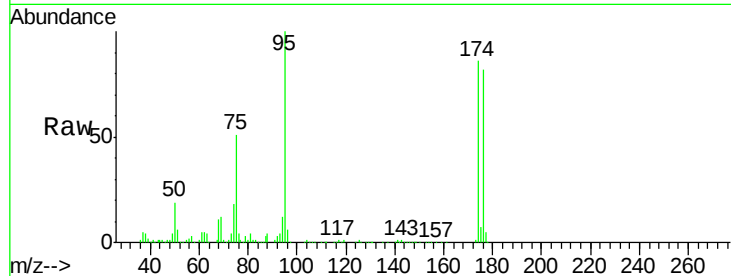




#76
 1,2,3-Trichloropropane
 Concen: 24.59 ug/l
 RT: 10.32 min Scan# 3025
 Delta R.T. -0.18 min
 Lab File: VU024901.D
 Acq: 26 Jun 2018 02:14

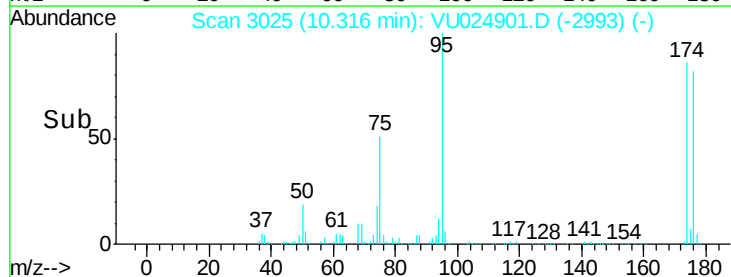
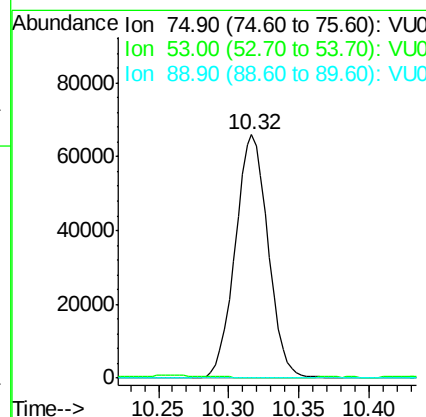
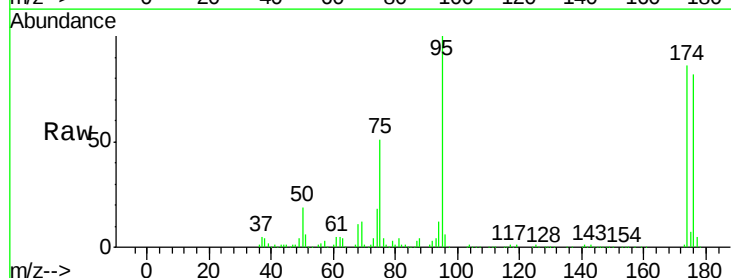
Instrument :
 MSVOA_U
 ClientSampled :

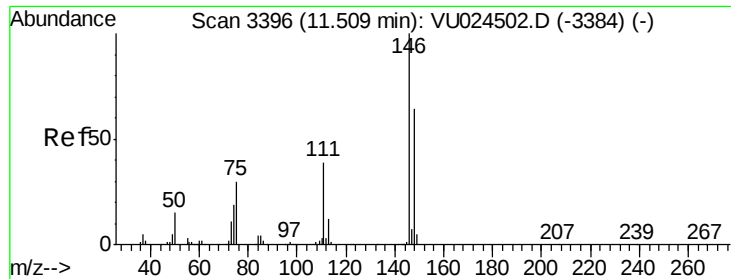
Tot Ion: 75 Resp: 107575
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.9 62.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.92 ug/l
 RT: 10.32 min Scan# 3025
 Delta R.T. -0.20 min
 Lab File: VU024901.D
 Acq: 26 Jun 2018 02:14

Tgt Ion: 75 Resp: 107575
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0

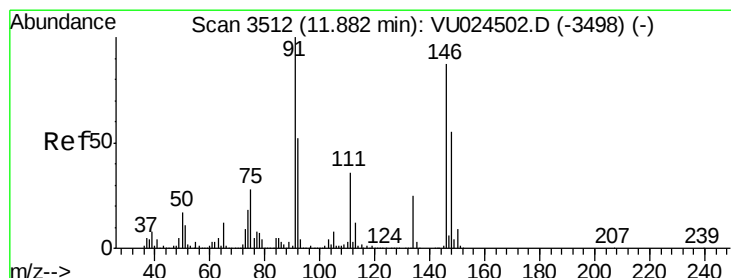
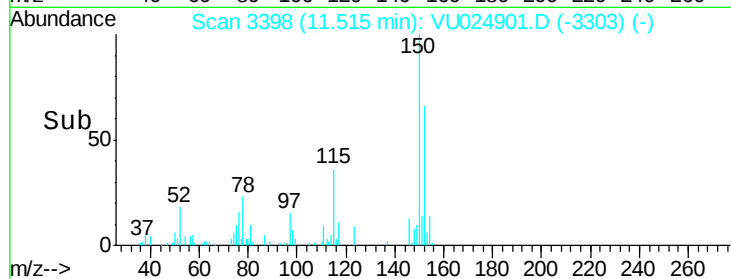
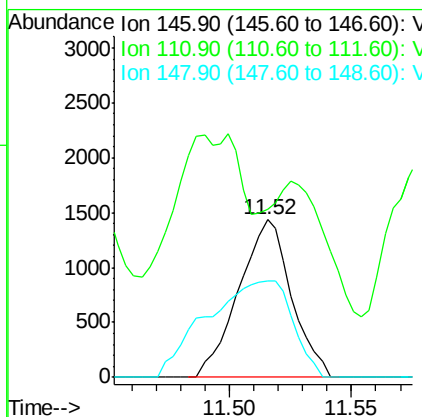
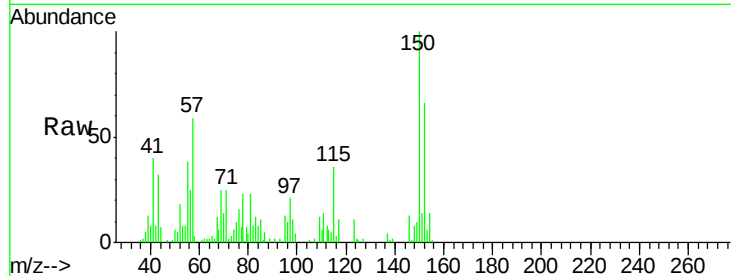




#88
 1,4-Dichlorobenzene
 Concen: 0.30 ug/l
 RT: 11.52 min Scan# 3398
 Delta R.T. 0.01 min
 Lab File: VU024901.D
 Acq: 26 Jun 2018 02:14

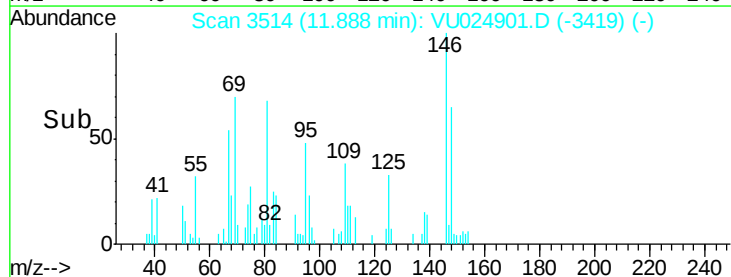
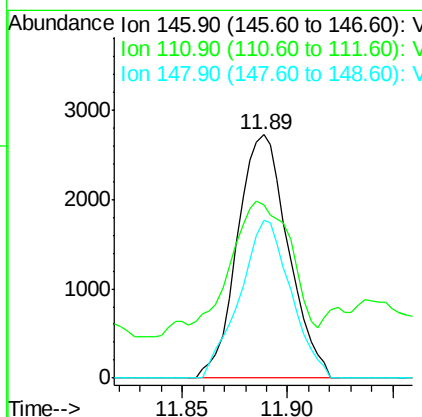
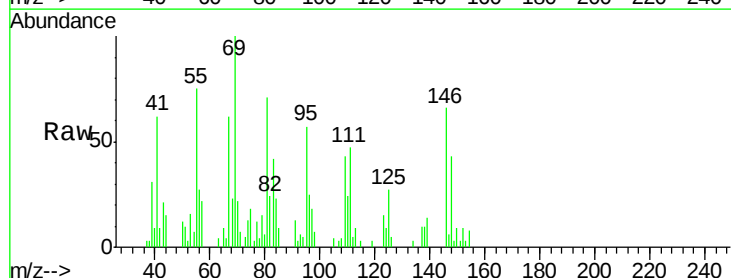
Instrument :
 MSVOA_U
 ClientSampled :

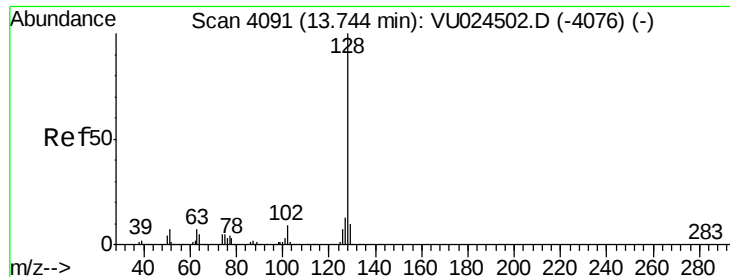
Tot Ion:146 Resp: 2136
 Ion Ratio Lower Upper
 146 100
 111 114.2 19.5 58.5#
 148 100.1 32.4 97.0#



#91
 1,2-Dichlorobenzene
 Concen: 0.64 ug/l
 RT: 11.89 min Scan# 3514
 Delta R.T. 0.01 min
 Lab File: VU024901.D
 Acq: 26 Jun 2018 02:14

Tgt Ion:146 Resp: 4557
 Ion Ratio Lower Upper
 146 100
 111 66.6 20.5 61.6#
 148 65.3 31.9 95.7





#95

Naphthalene

Concen: 0.72 ug/l

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU024901.D

Acq: 26 Jun 2018 02:14

Instrument :

MSVOA_U

ClientSampleId :

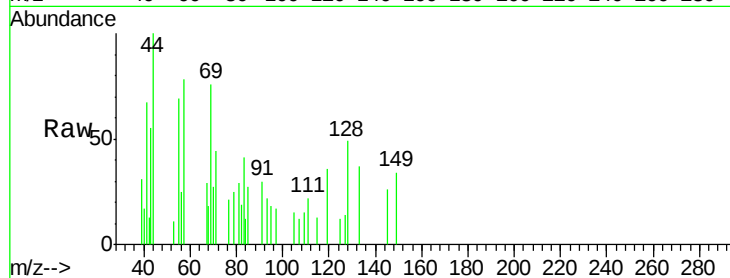
Tot Ion:128 Resp: 671

Ion Ratio Lower Upper

128 100

127 26.2 10.6 16.0#

129 38.5 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

13.75

13.72 13.74 13.76

13.75

13.72 13.74 13.76

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