

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070218\
 Data File : VU025169.D
 Acq On : 03 Jul 2018 03:01
 Operator : MD/SY
 Sample : J3809-06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BR-3-062818

Quant Time: Jul 03 07:06:27 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	196171	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	297023	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	276100	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	143504	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	154019	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	
35) Dibromofluoromethane	4.89	113	116673	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	
50) Toluene-d8	7.57	98	429271	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	
62) 4-Bromofluorobenzene	10.31	95	157333	44.07	ug/l	0.00
Spiked Amount			Recovery	=	88.14%	

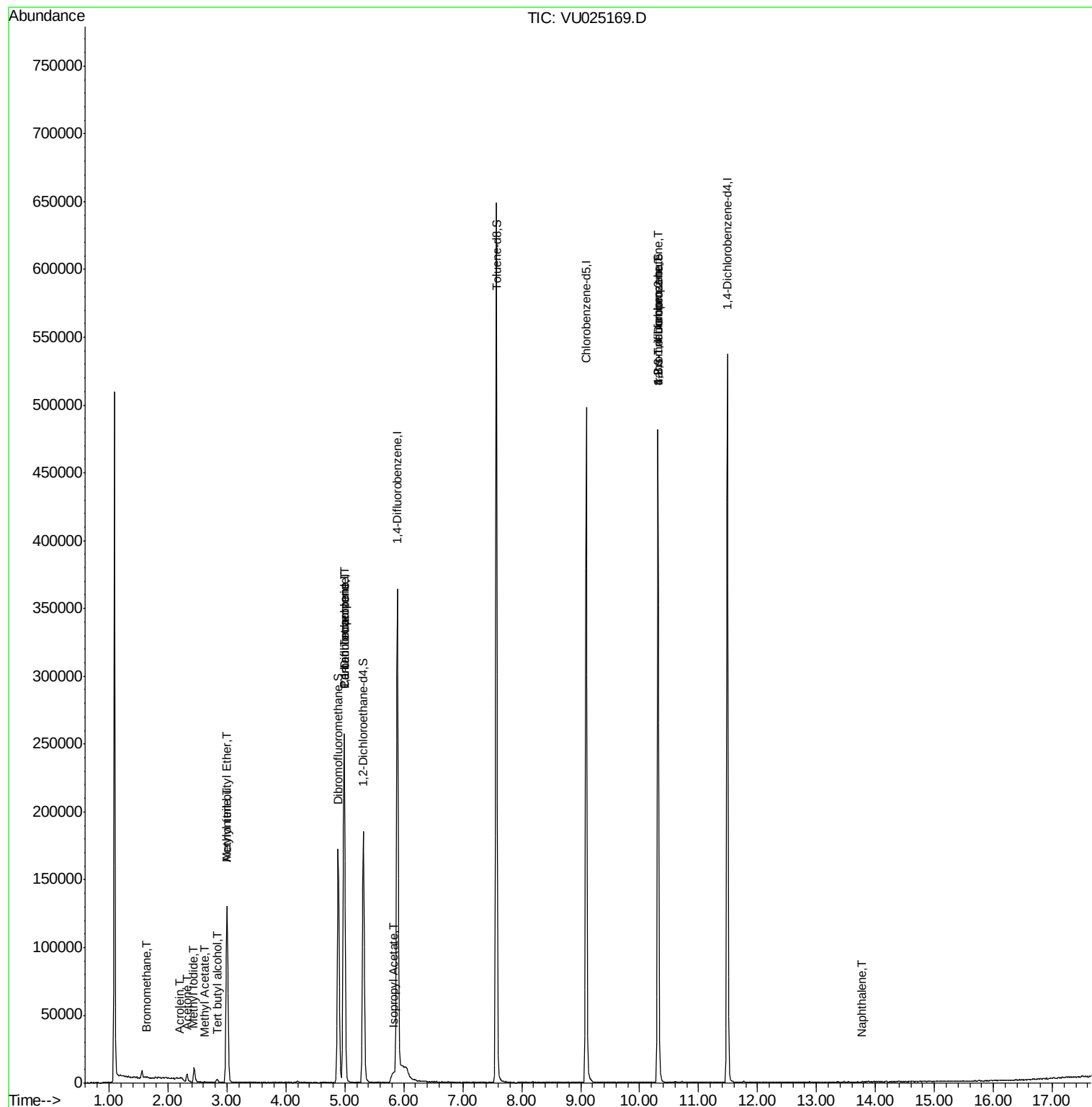
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	370	0.296	ug/l #	50
6) Chloroethane	1.70	64	74	Below Cal	#	43
10) Methyl Iodide	2.42	142	149	5.353	ug/l #	40
11) Tert butyl alcohol	2.83	59	2620	3.364	ug/l #	72
13) Acrolein	2.19	56	89	0.218	ug/l #	1
15) Acrylonitrile	3.00	53	1500	0.990	ug/l #	19
16) Acetone	2.32	43	6033	3.506	ug/l	100
18) Methyl Acetate	2.62	43	851	0.231	ug/l #	53
19) Methyl tert-butyl Ether	3.00	73	137985	16.434	ug/l	95
31) Cyclohexane	4.99	56	4162	Below Cal	#	13
36) 1,1-Dichloropropene	4.99	75	15331	4.393	ug/l #	50
38) Carbon Tetrachloride	4.99	117	19451	5.068	ug/l #	15
43) Isopropyl Acetate	5.82	43	8305	1.263	ug/l #	62
76) 1,2,3-Trichloropropane	10.31	75	82782	26.202	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	82782	60.641	ug/l #	100
95) Naphthalene	13.77	128	98	0.688	ug/l #	69

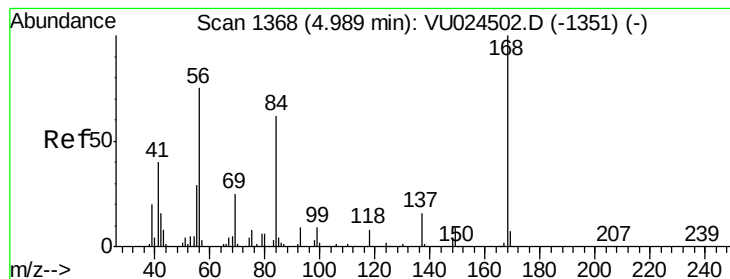
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025169.D

Acq: 03 Jul 2018 03:01

Instrument :

MSVOA_U

ClientSampleId :

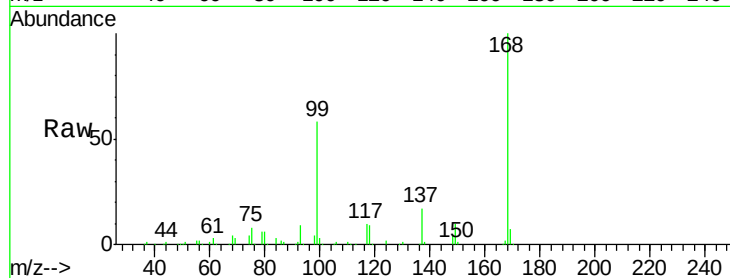
BR-3-062818

Tot Ion:168 Resp: 196171

Ion Ratio Lower Upper

168 100

99 57.9 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0

4.99

80000

60000

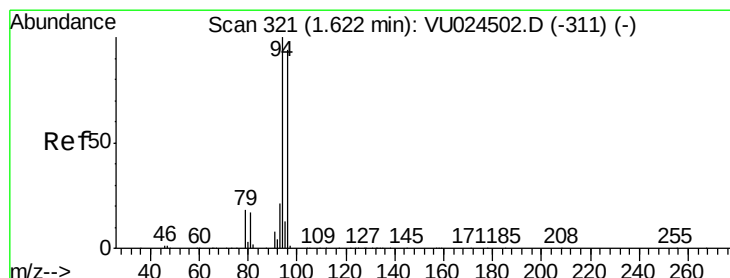
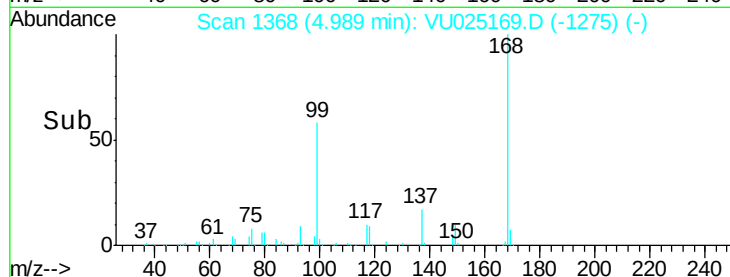
40000

20000

0

4.90 4.95 5.00 5.05

Time-->



#5

Bromomethane

Concen: 0.296 ug/l

RT: 1.63 min Scan# 324

Delta R.T. 0.01 min

Lab File: VU025169.D

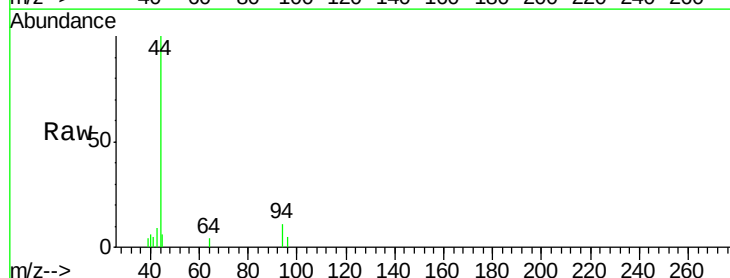
Acq: 03 Jul 2018 03:01

Tgt Ion: 94 Resp: 370

Ion Ratio Lower Upper

94 100

96 44.8 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.63

300

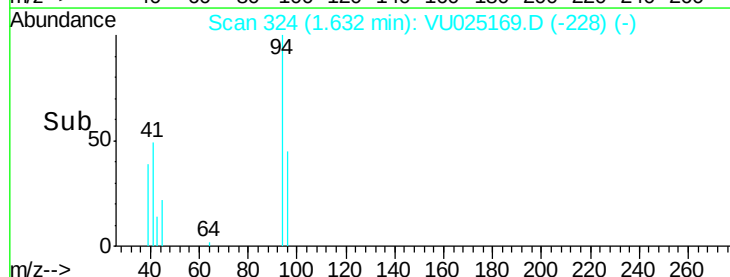
200

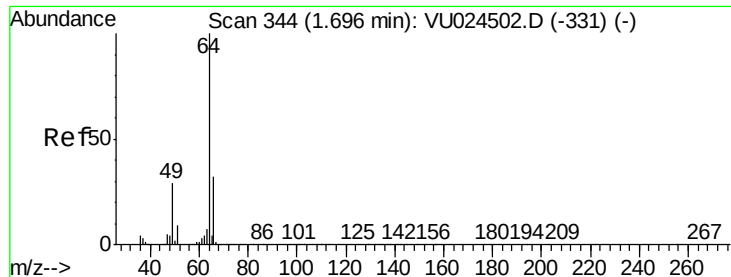
100

0

1.60 1.62 1.64 1.66

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU025169.D

Acq: 03 Jul 2018 03:01

Instrument :

MSVOA_U

ClientSampleId :

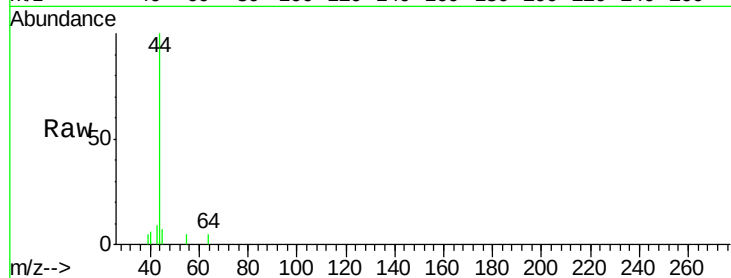
BR-3-062818

Tot Ion: 64 Resp: 74

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

1.70

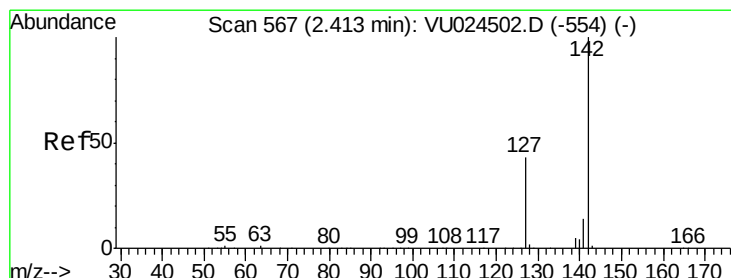
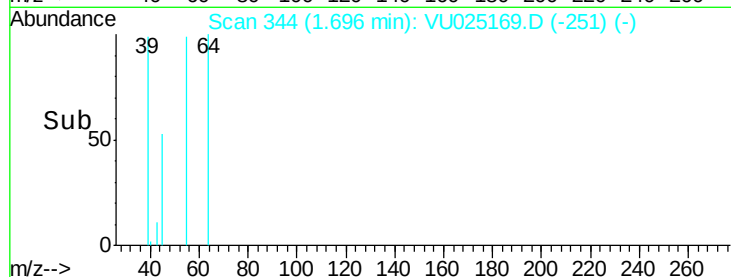
150

100

50

0

Time--> 1.68 1.69 1.70



#10

Methyl Iodide

Concen: 5.353 ug/l

RT: 2.42 min Scan# 570

Delta R.T. 0.01 min

Lab File: VU025169.D

Acq: 03 Jul 2018 03:01

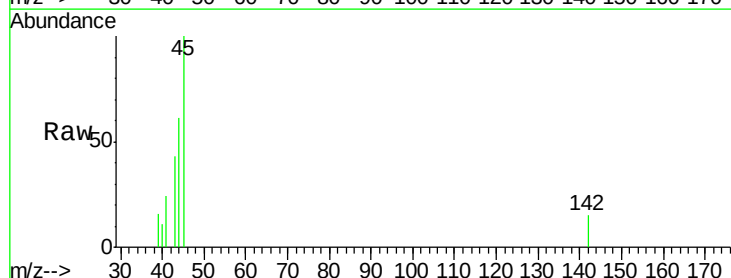
Tgt Ion: 142 Resp: 149

Ion Ratio Lower Upper

142 100

127 0.0 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

2.42

200

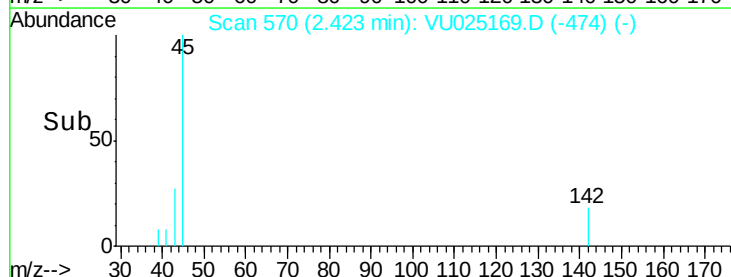
150

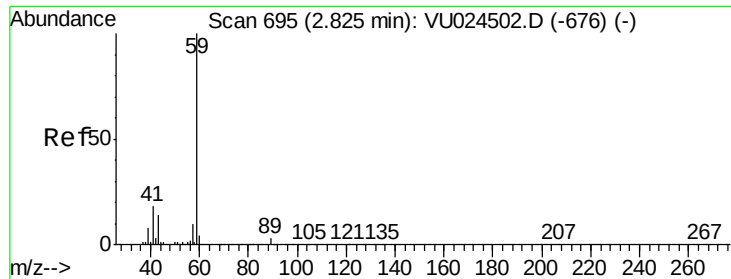
100

50

0

Time--> 2.40 2.42 2.44



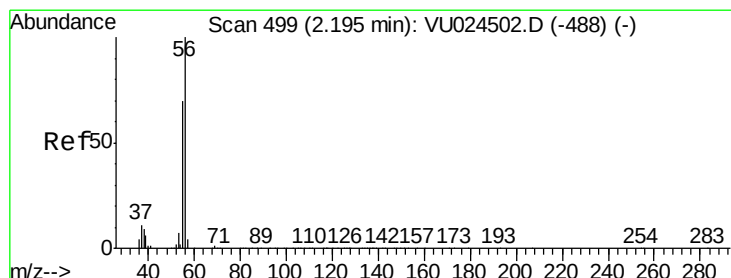
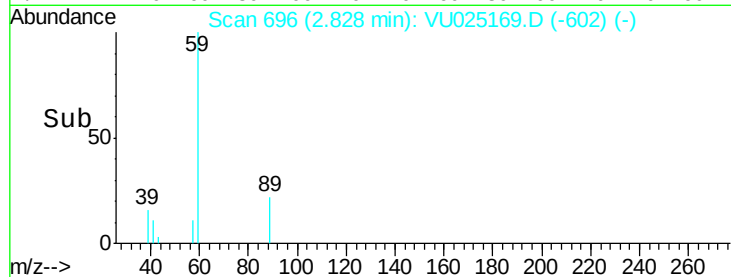
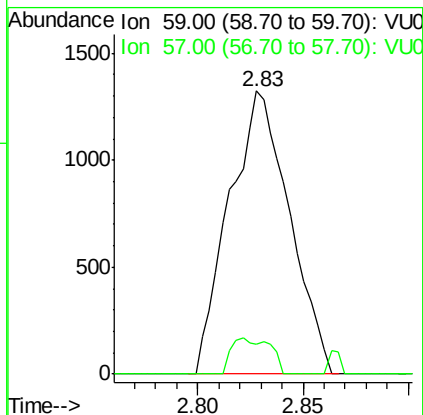
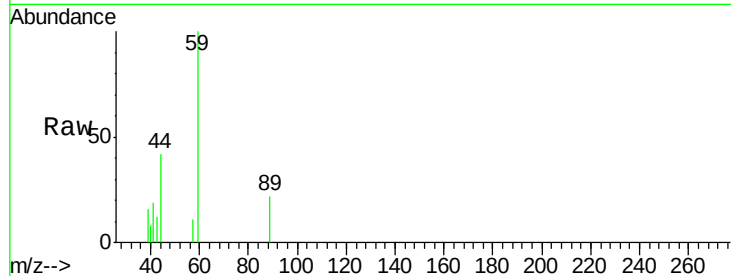


#11

Tert butyl alcohol
 Concen: 3.364 ug/l
 RT: 2.83 min Scan# 696
 Delta R.T. 0.00 min
 Lab File: VU025169.D
 Acq: 03 Jul 2018 03:01

Instrument :
 MSVOA_U
 ClientSampleId :
 BR-3-062818

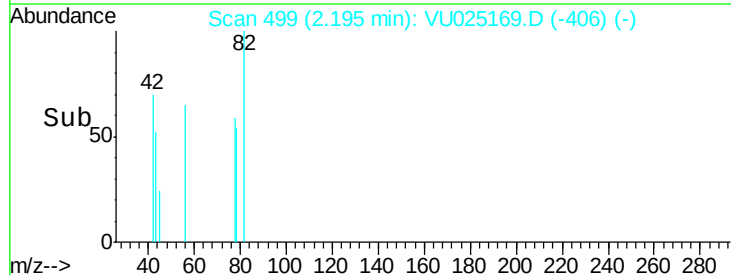
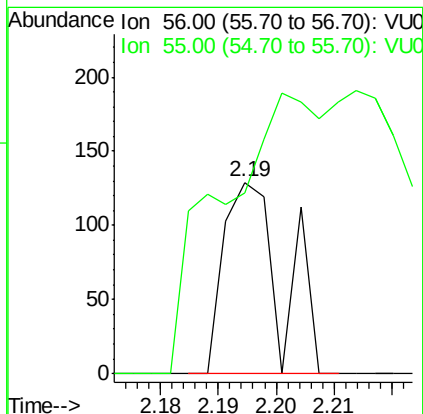
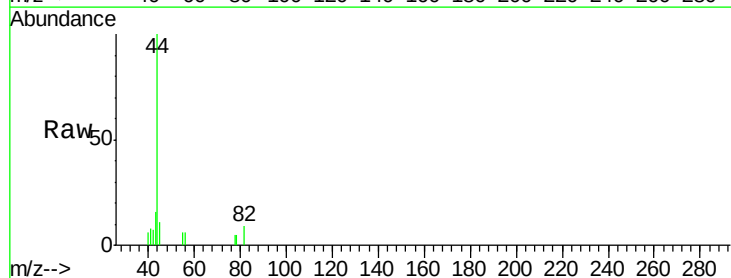
Tot Ion: 59 Resp: 2620
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

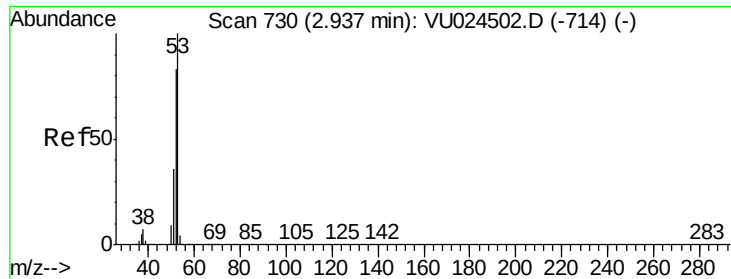


#13

Acrolein
 Concen: 0.218 ug/l
 RT: 2.19 min Scan# 499
 Delta R.T. 0.00 min
 Lab File: VU025169.D
 Acq: 03 Jul 2018 03:01

Tgt Ion: 56 Resp: 89
 Ion Ratio Lower Upper
 56 100
 55 253.9 58.4 87.6#





#15

Acrylonitrile

Concen: 0.990 ug/l

RT: 3.00 min Scan# 750

Delta R.T. 0.06 min

Lab File: VU025169.D

Acq: 03 Jul 2018 03:01

Instrument :

MSVOA_U

ClientSampleId :

BR-3-062818

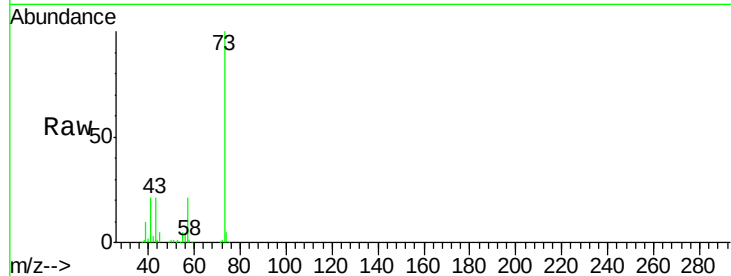
Tot Ion: 53 Resp: 1500

Ion Ratio Lower Upper

53 100

52 10.3 67.1 100.7#

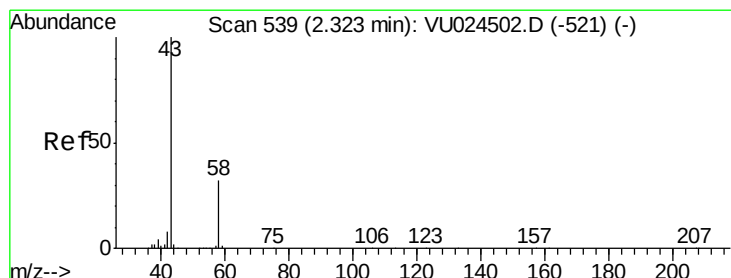
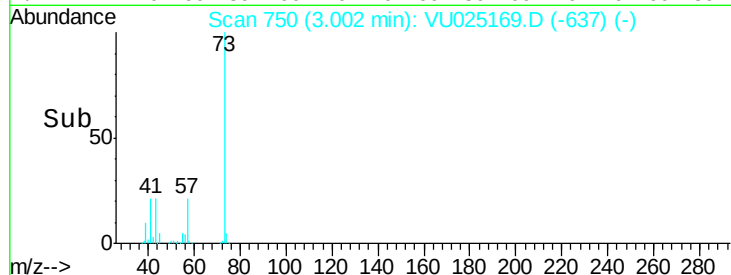
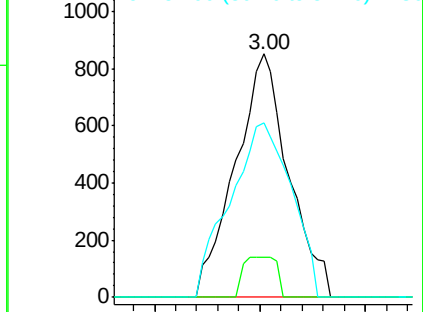
51 82.1 28.4 42.6#



Abundance Ion 53.00 (52.70 to 53.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 51.00 (50.70 to 51.70): VU0



#16

Acetone

Concen: 3.506 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025169.D

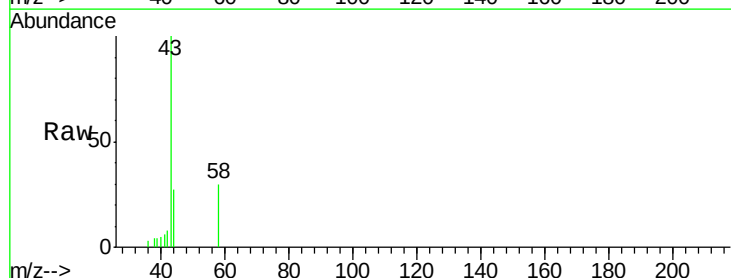
Acq: 03 Jul 2018 03:01

Tgt Ion: 43 Resp: 6033

Ion Ratio Lower Upper

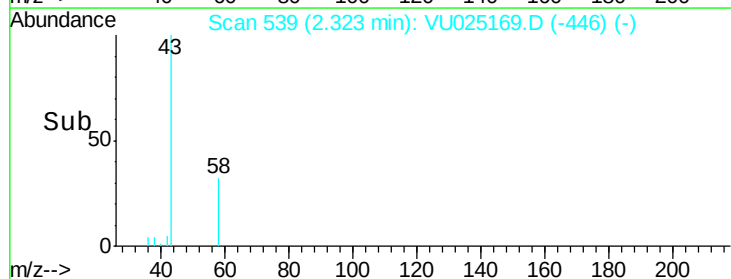
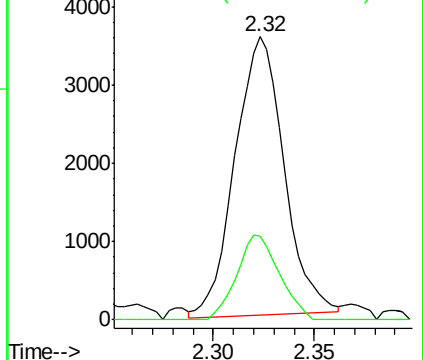
43 100

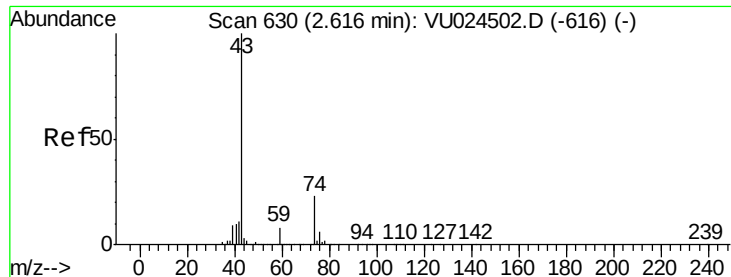
58 30.5 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#18

Methyl Acetate

Concen: 0.231 ug/l

RT: 2.62 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU025169.D

Acq: 03 Jul 2018 03:01

Instrument :

MSVOA_U

ClientSampleId :

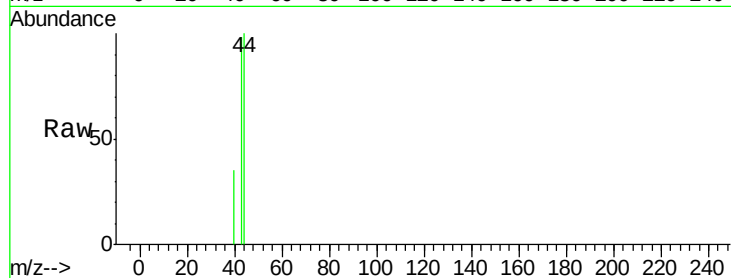
BR-3-062818

Tot Ion: 43 Resp: 851

Ion Ratio Lower Upper

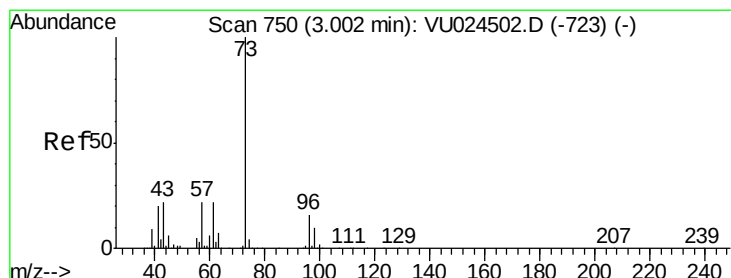
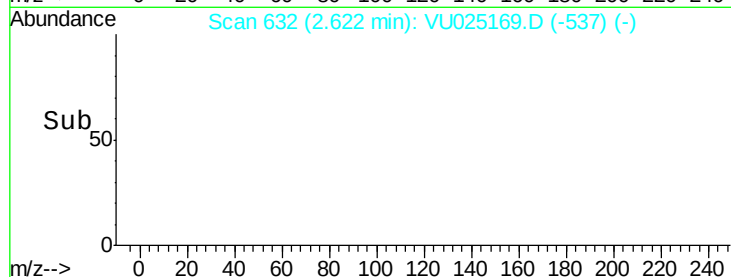
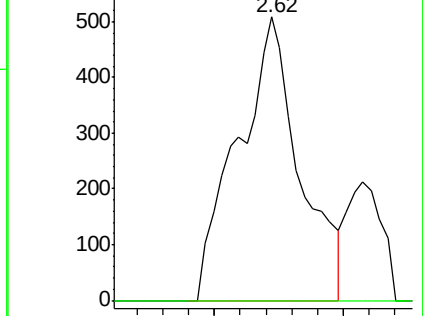
43 100

74 0.0 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#19

Methyl tert-butyl Ether

Concen: 16.434 ug/l

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU025169.D

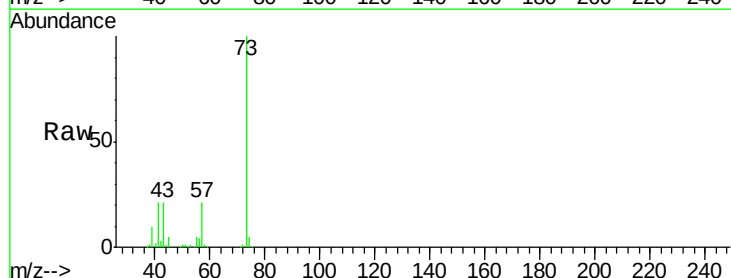
Acq: 03 Jul 2018 03:01

Tgt Ion: 73 Resp: 137985

Ion Ratio Lower Upper

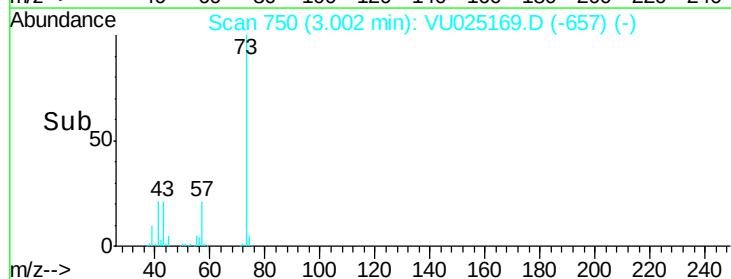
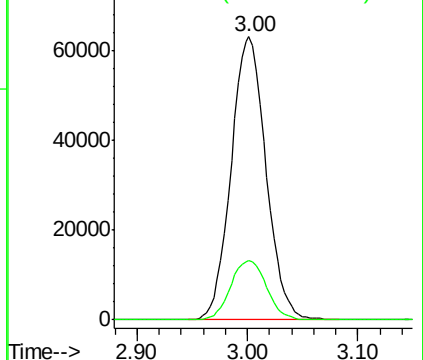
73 100

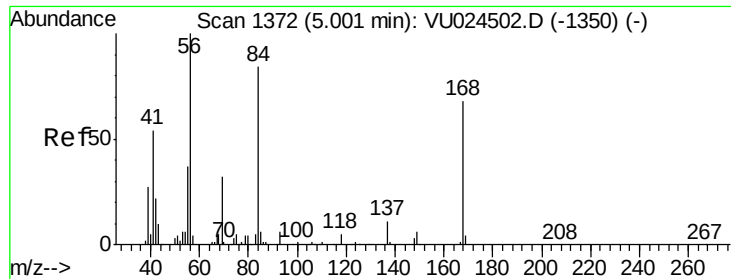
57 20.9 18.8 28.2



Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

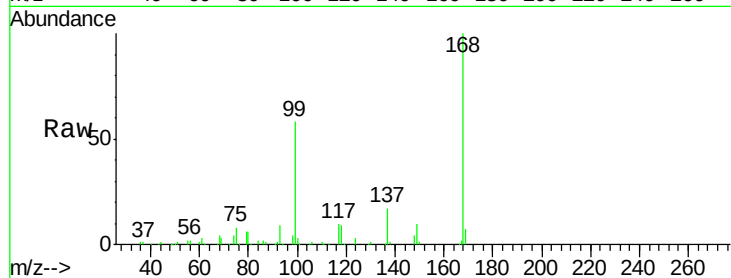




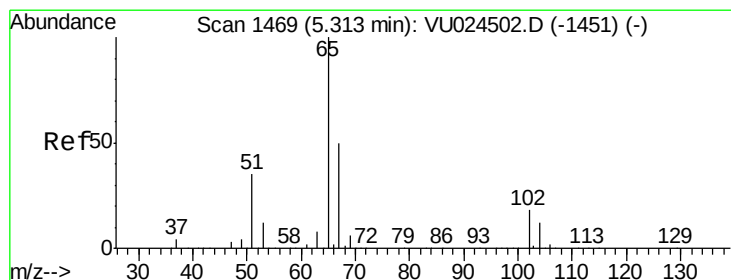
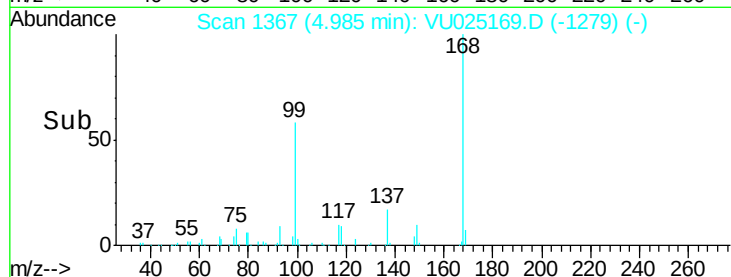
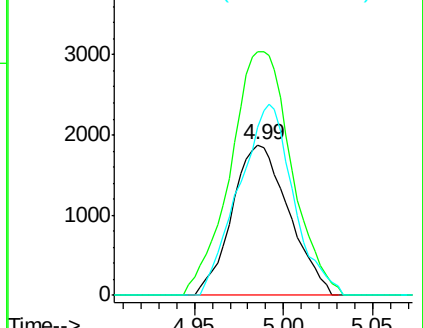
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1367
Delta R.T. -0.02 min
Lab File: VU025169.D
Acq: 03 Jul 2018 03:01

Instrument :
MSVOA_U
ClientSampleId :
BR-3-062818

Tot Ion: 56 Resp: 4162
Ion Ratio Lower Upper
56 100
69 155.9 24.8 37.2#
84 111.5 65.2 97.8#

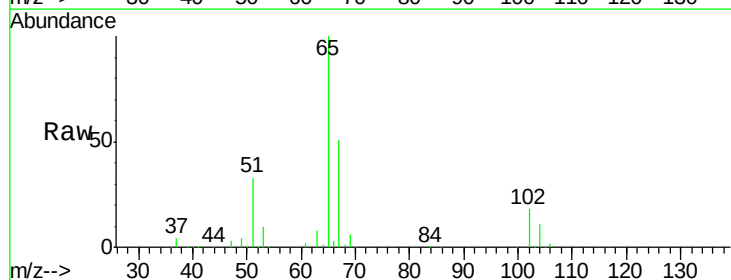


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

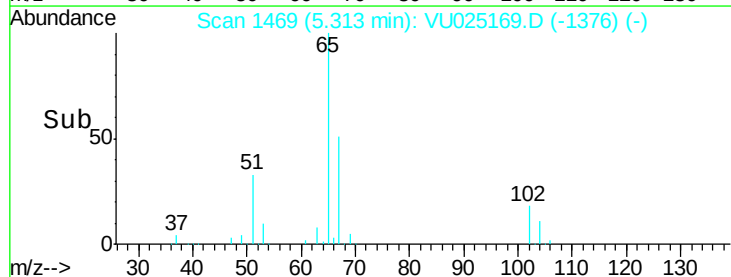
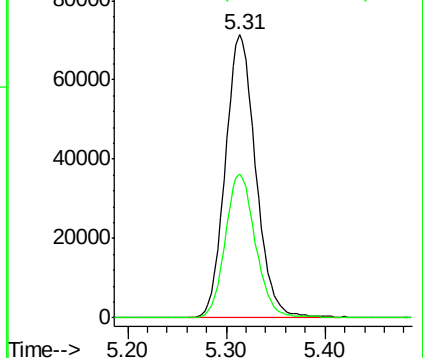


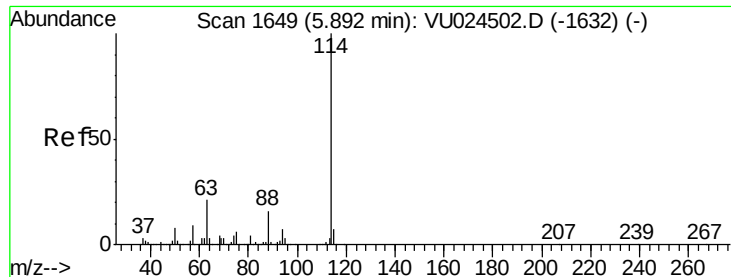
#33
1,2-Dichloroethane-d4
Concen: 48.093 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025169.D
Acq: 03 Jul 2018 03:01

Tgt Ion: 65 Resp: 154019
Ion Ratio Lower Upper
65 100
67 50.3 0.0 107.0



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU025169.D

Acq: 03 Jul 2018 03:01

Instrument :

MSVOA_U

ClientSampleId :

BR-3-062818

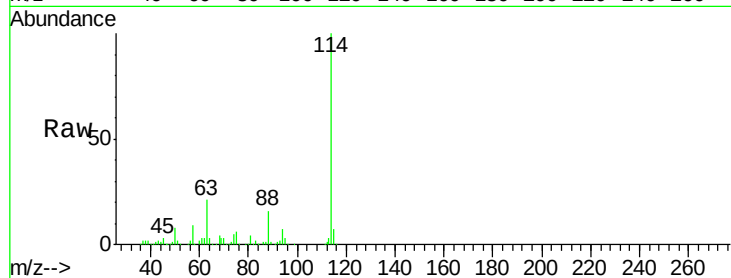
Tot Ion:114 Resp: 297023

Ion Ratio Lower Upper

114 100

63 20.9 0.0 45.4

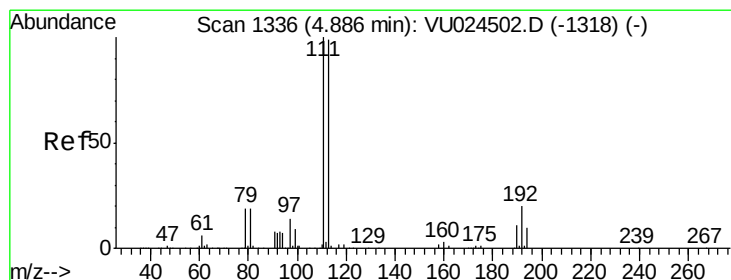
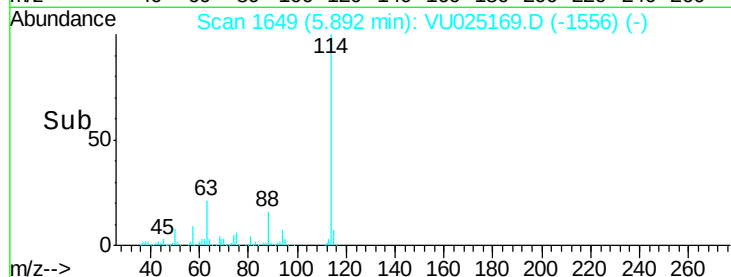
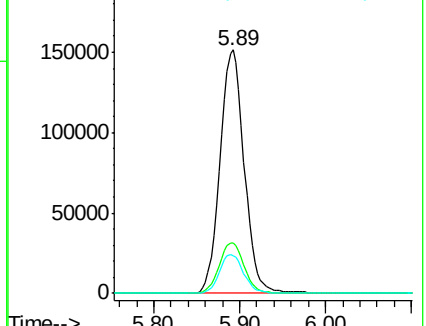
88 15.5 0.0 31.0



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: 47.331 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025169.D

Acq: 03 Jul 2018 03:01

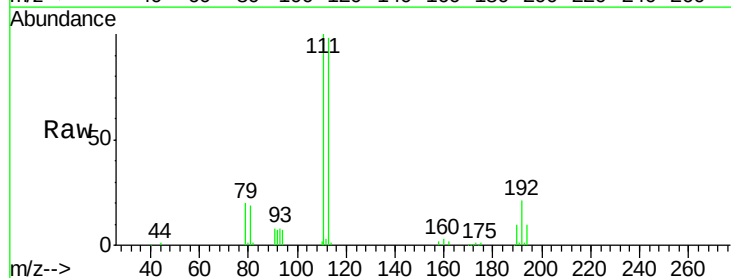
Tgt Ion:113 Resp: 116673

Ion Ratio Lower Upper

113 100

111 102.2 82.2 123.4

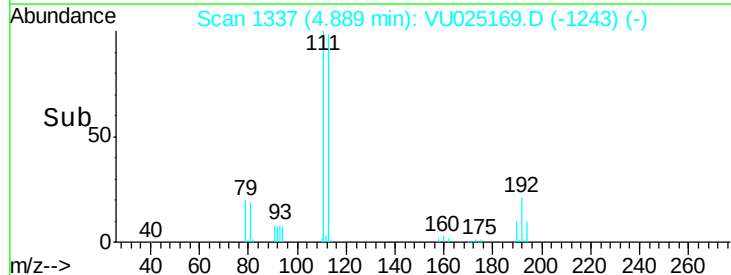
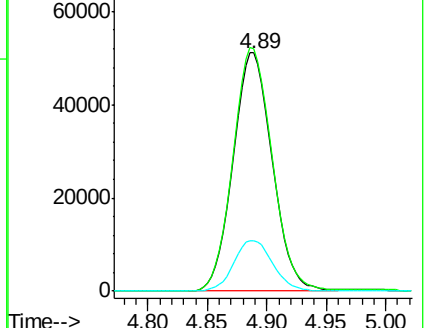
192 21.2 16.2 24.4

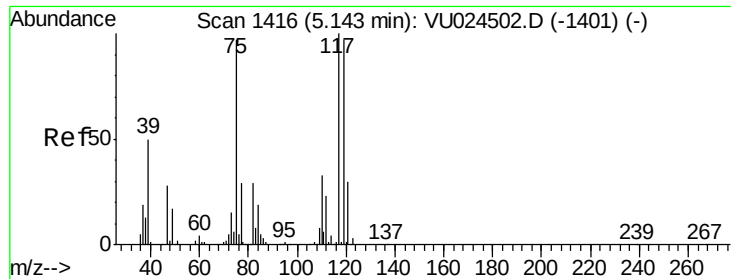


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

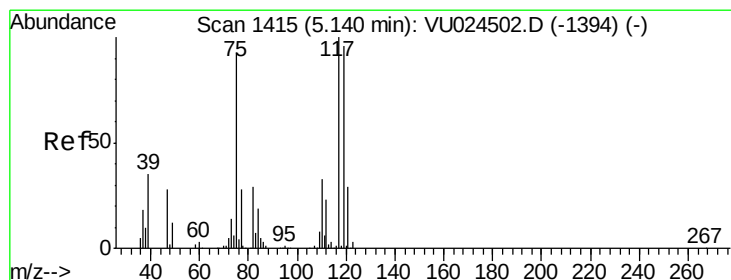
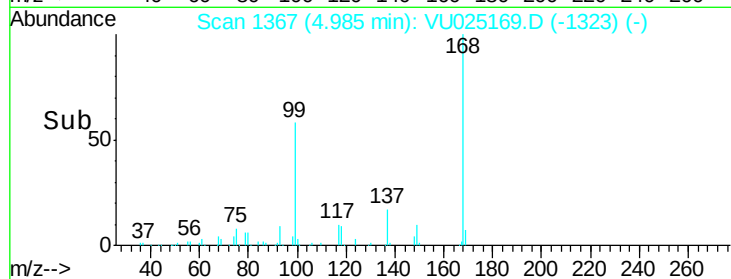
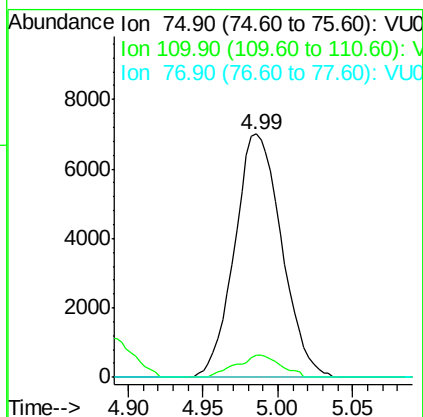
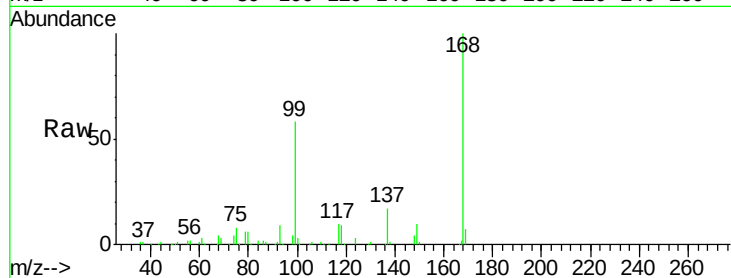




#36
 1,1-Dichloropropene
 Concen: 4.393 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025169.D
 Acq: 03 Jul 2018 03:01

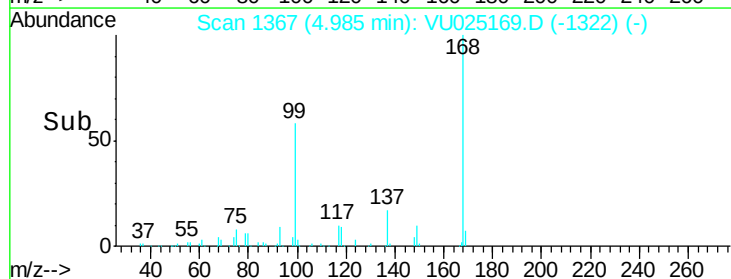
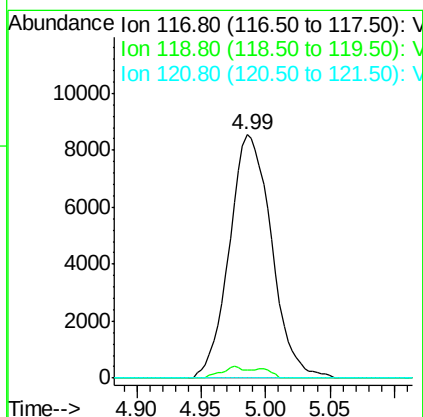
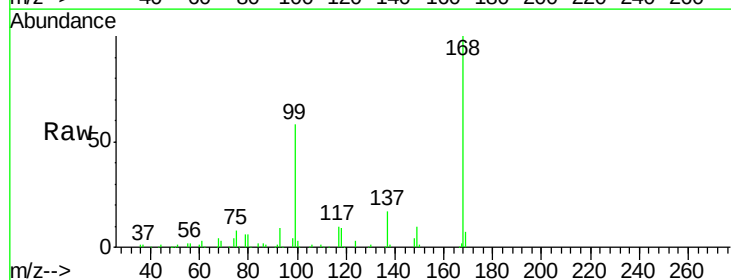
Instrument :
 MSVOA_U
 ClientSampleId :
 BR-3-062818

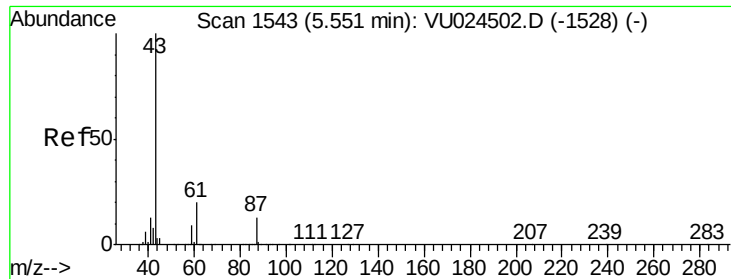
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 5.068 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU025169.D
 Acq: 03 Jul 2018 03:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.1	76.1	114.1#
121	0.0	23.7	35.5#





#43

Isopropyl Acetate

Concen: 1.263 ug/l

RT: 5.82 min Scan# 1626

Delta R.T. 0.27 min

Lab File: VU025169.D

Acq: 03 Jul 2018 03:01

Instrument :

MSVOA_U

ClientSampleId :

BR-3-062818

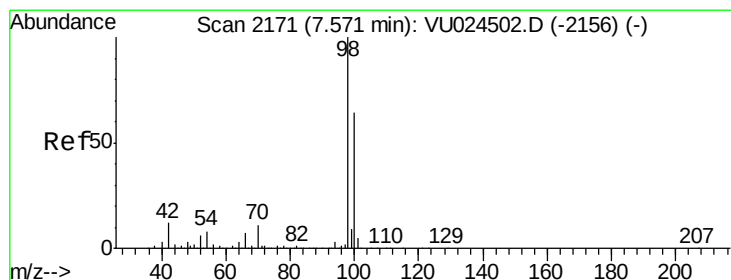
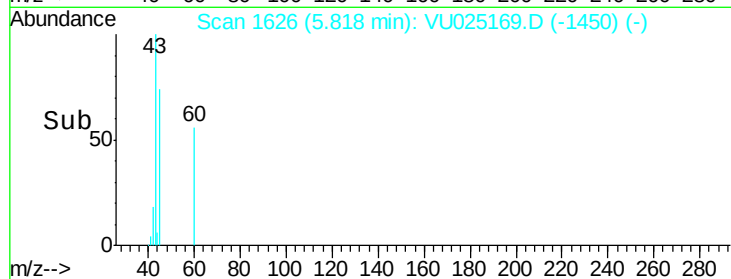
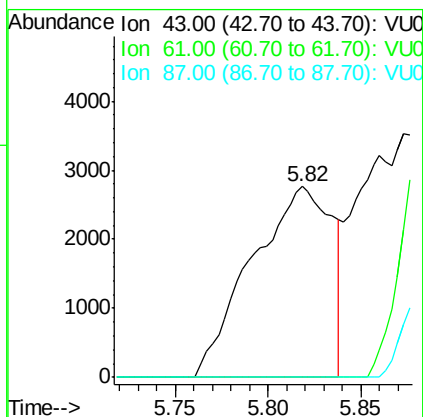
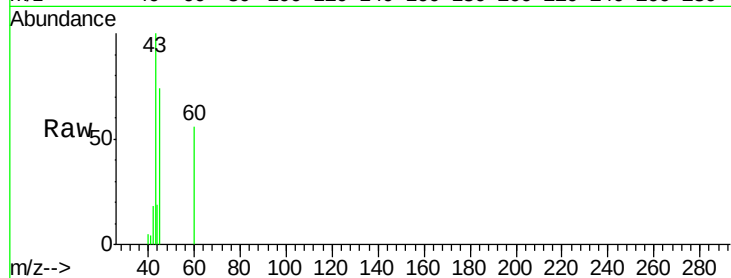
Tot Ion: 43 Resp: 8305

Ion Ratio Lower Upper

43 100

61 0.0 15.4 23.0#

87 0.0 10.0 15.0#



#50

Toluene-d8

Concen: 47.742 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025169.D

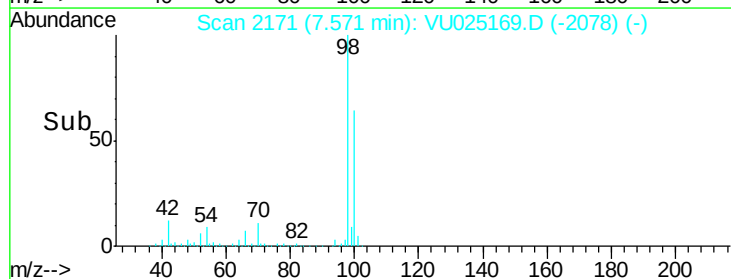
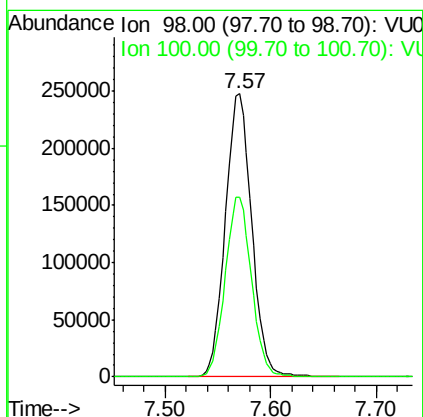
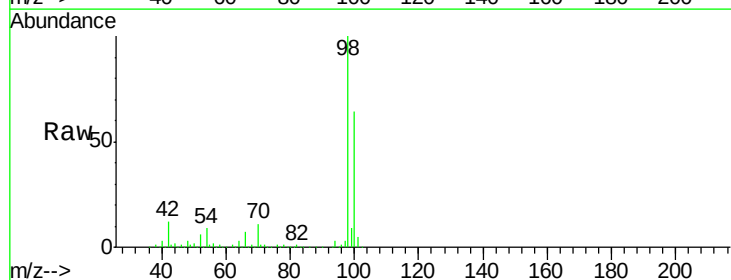
Acq: 03 Jul 2018 03:01

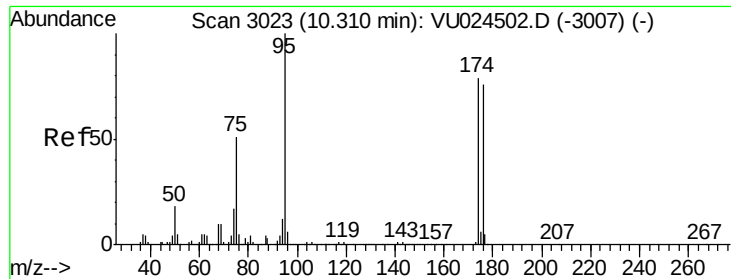
Tgt Ion: 98 Resp: 429271

Ion Ratio Lower Upper

98 100

100 63.6 51.1 76.7

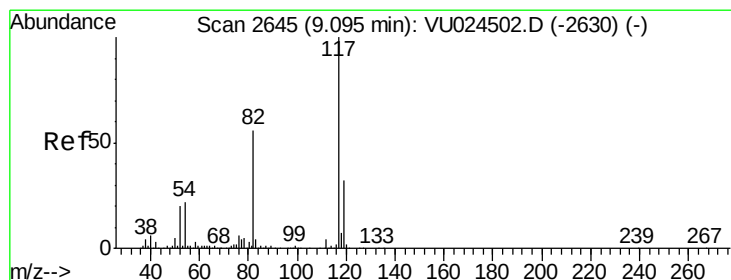
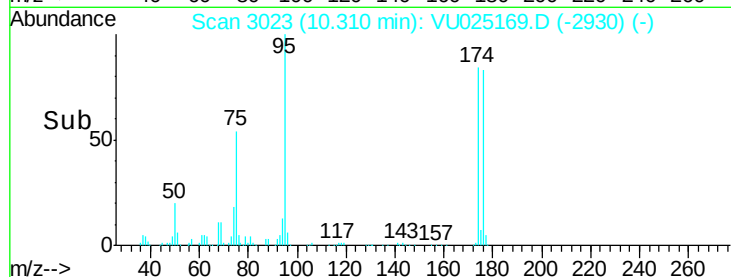
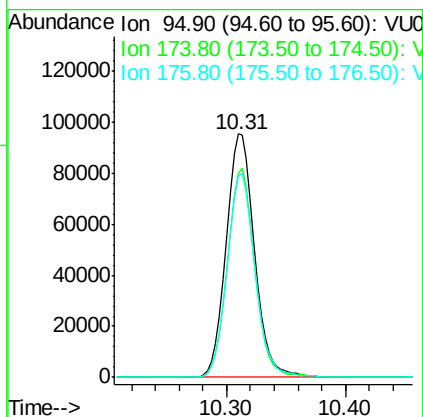
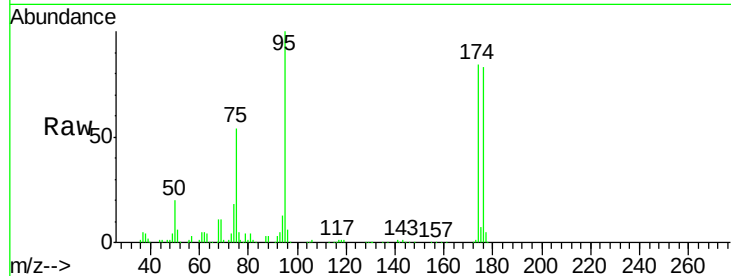




#62
4-Bromofluorobenzene
Concen: 44.071 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025169.D
Acq: 03 Jul 2018 03:01

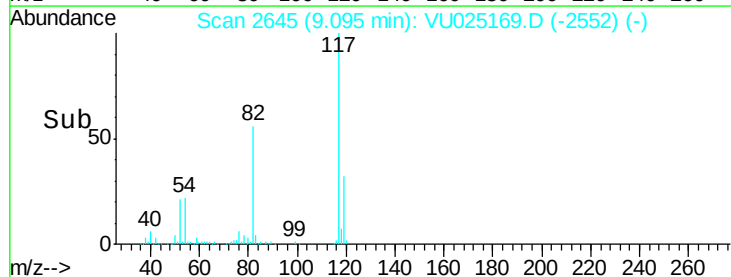
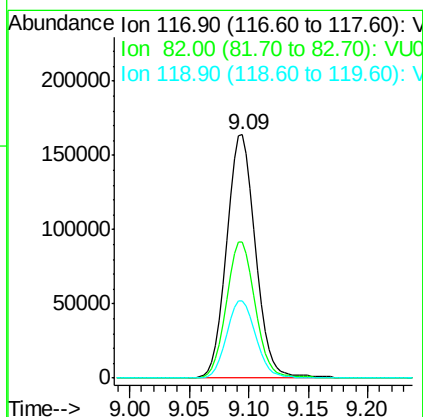
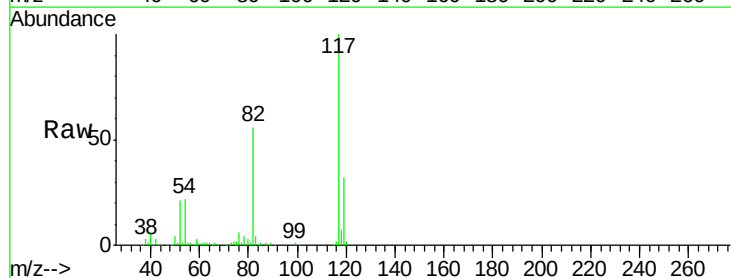
Instrument :
MSVOA_U
ClientSampleId :
BR-3-062818

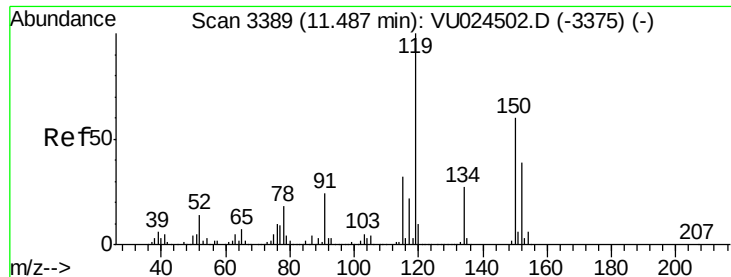
Tot Ion: 95 Resp: 157333
Ion Ratio Lower Upper
95 100
174 83.2 0.0 165.8
176 82.7 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025169.D
Acq: 03 Jul 2018 03:01

Tgt Ion: 117 Resp: 276100
Ion Ratio Lower Upper
117 100
82 56.0 44.3 66.5
119 31.9 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025169.D

Acq: 03 Jul 2018 03:01

Instrument :

MSVOA_U

ClientSampleId :

BR-3-062818

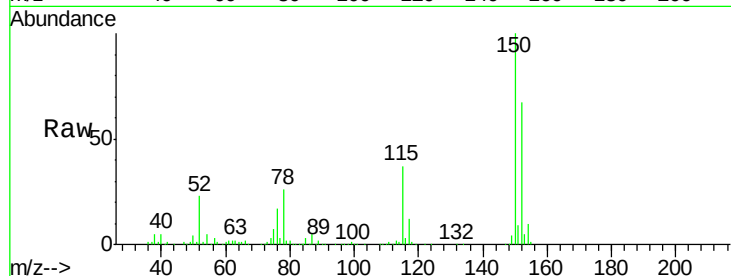
Tot Ion:152 Resp: 143504

Ion Ratio Lower Upper

152 100

115 56.4 43.0 129.0

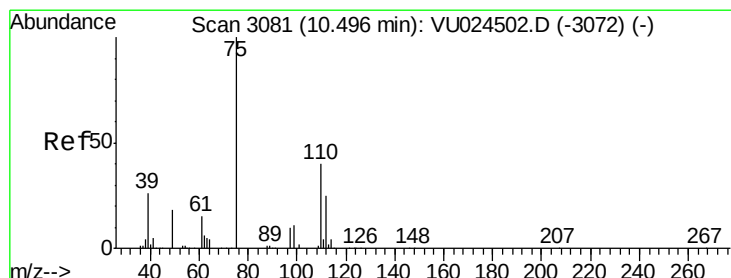
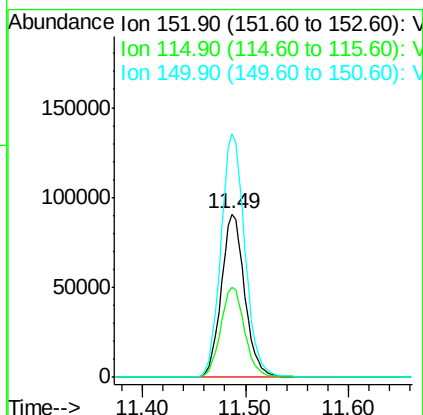
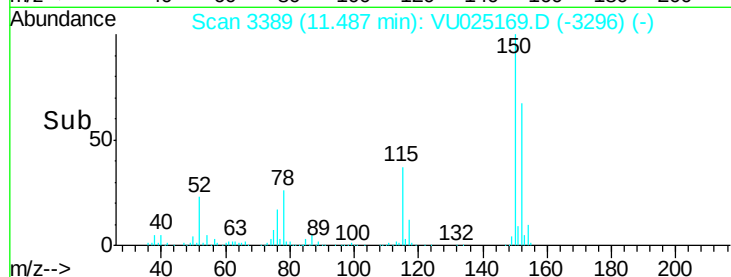
150 153.1 0.0 354.0



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: 26.202 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025169.D

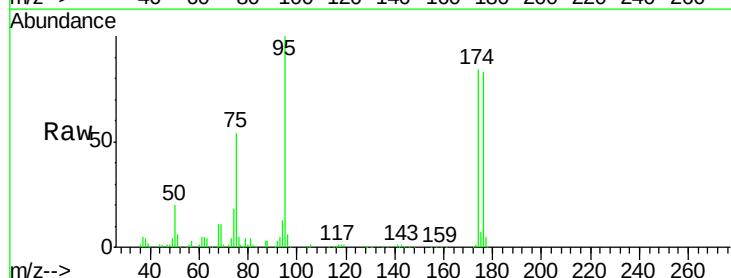
Acq: 03 Jul 2018 03:01

Tgt Ion: 75 Resp: 82782

Ion Ratio Lower Upper

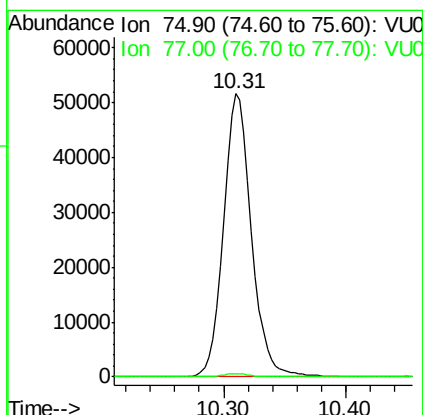
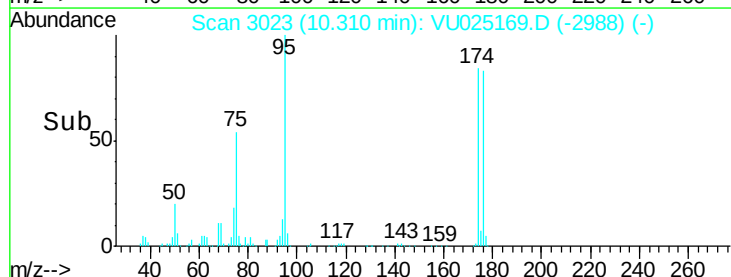
75 100

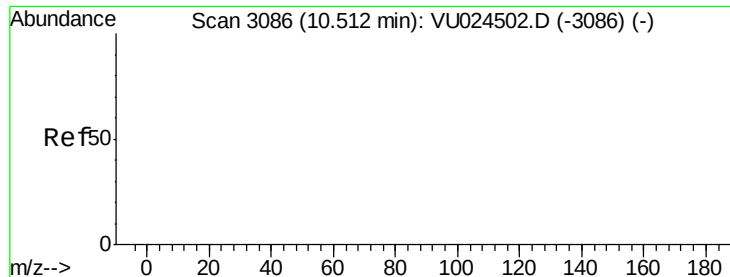
77 1.0 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

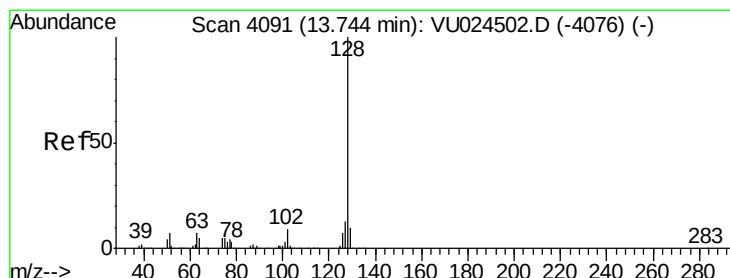
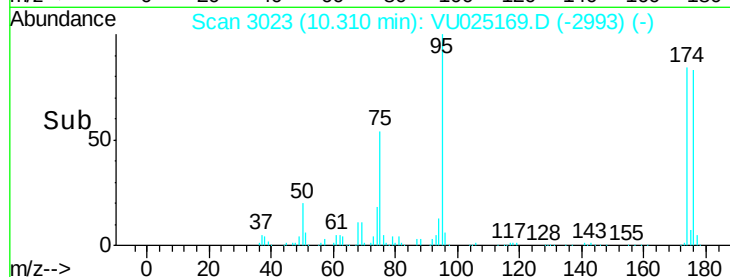
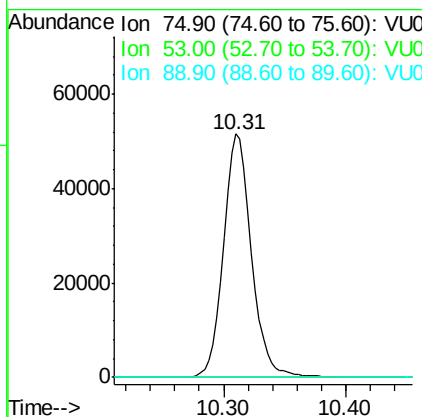
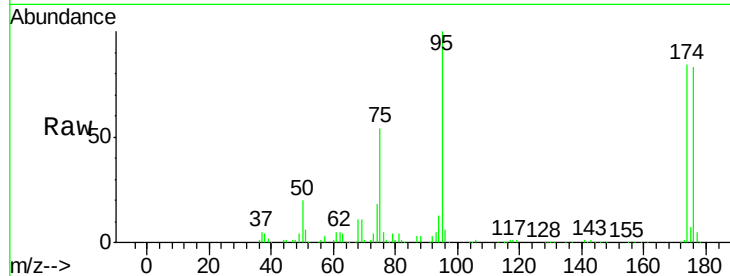




#81
trans-1,4-Dichloro-2-butene
Concen: 60.641 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU025169.D
Acq: 03 Jul 2018 03:01

Instrument :
MSVOA_U
ClientSampleId :
BR-3-062818

Tot Ion: 75 Resp: 82782
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 0.688 ug/l
RT: 13.77 min Scan# 4100
Delta R.T. 0.03 min
Lab File: VU025169.D
Acq: 03 Jul 2018 03:01

Tgt Ion:128 Resp: 98
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.6 12.8#

