

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070218\
 Data File : VU025164.D
 Acq On : 03 Jul 2018 00:58
 Operator : MD/SY
 Sample : J3809-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BR-2-062818

Quant Time: Jul 03 03:05:06 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	204696	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	311596	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	282034	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	147559	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	155160	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	
35) Dibromofluoromethane	4.89	113	122025	47.19	ug/l	0.00
Spiked Amount			Recovery	=	94.38%	
50) Toluene-d8	7.57	98	438416	46.48	ug/l	0.00
Spiked Amount			Recovery	=	92.96%	
62) 4-Bromofluorobenzene	10.31	95	160306	42.80	ug/l	0.00
Spiked Amount			Recovery	=	85.60%	

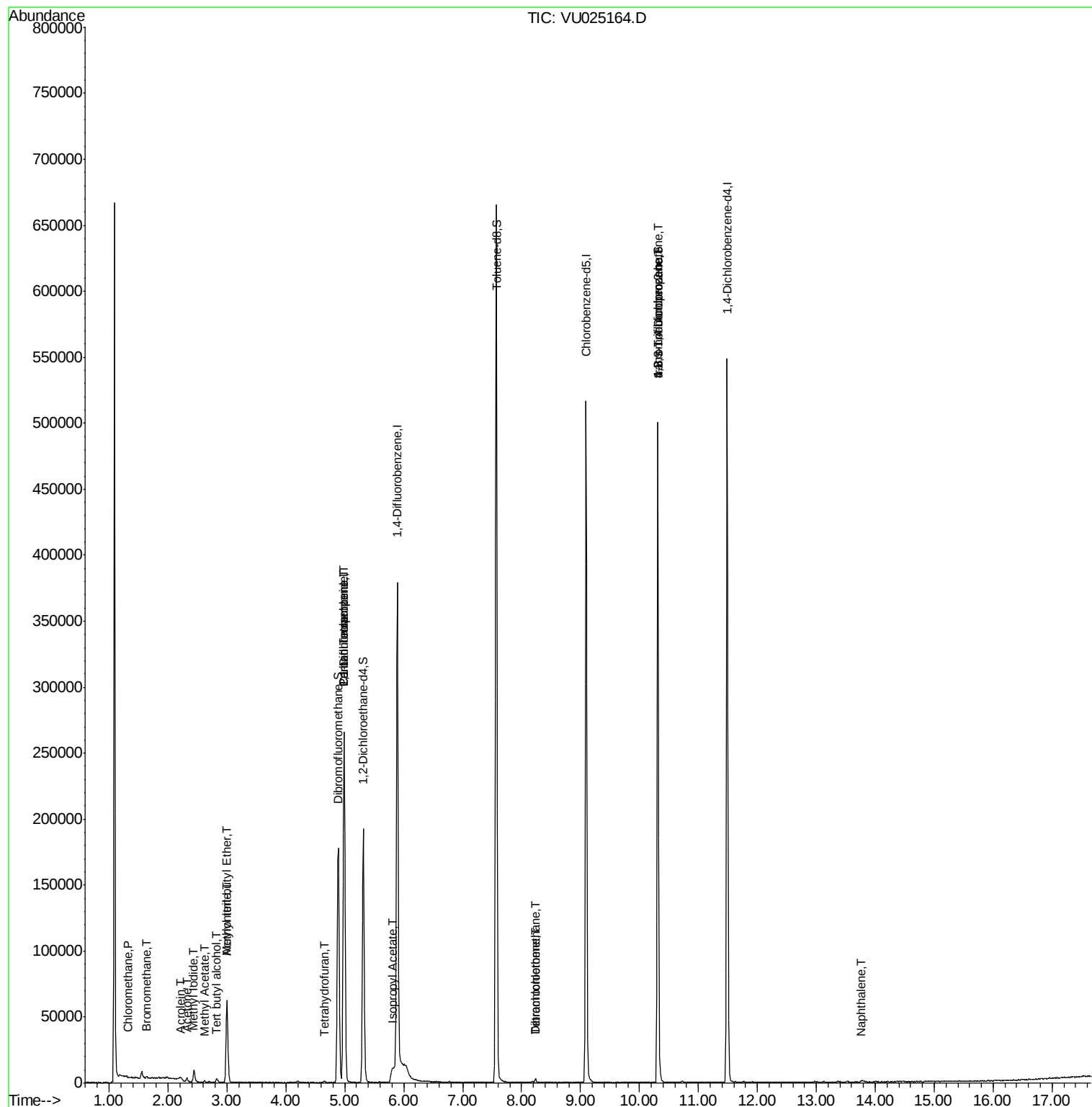
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	700	0.267	ug/l #	85
5) Bromomethane	1.63	94	393	0.301	ug/l	82
6) Chloroethane	1.70	64	20	Below Cal	#	43
10) Methyl Iodide	2.42	142	393	5.451	ug/l #	40
11) Tert butyl alcohol	2.82	59	3533	4.347	ug/l #	72
13) Acrolein	2.20	56	205	0.480	ug/l #	64
15) Acrylonitrile	3.00	53	455	0.288	ug/l #	4
16) Acetone	2.32	43	3539	1.971	ug/l	100
18) Methyl Acetate	2.62	43	1669	0.434	ug/l	94
19) Methyl tert-butyl Ether	3.00	73	66755	7.619	ug/l	93
29) Tetrahydrofuran	4.65	42	870	0.583	ug/l #	85
31) Cyclohexane	4.99	56	3899	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	14944	4.081	ug/l #	50
38) Carbon Tetrachloride	4.99	117	20162	5.007	ug/l #	15
43) Isopropyl Acetate	5.81	43	9580	1.389	ug/l #	62
60) Dibromochloromethane	8.23	129	765	0.225	ug/l #	11
64) Tetrachloroethene	8.23	164	772	0.288	ug/l #	82
76) 1,2,3-Trichloropropane	10.31	75	85143	26.208	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	85143	60.657	ug/l #	100
95) Naphthalene	13.76	128	2198	0.879	ug/l #	82

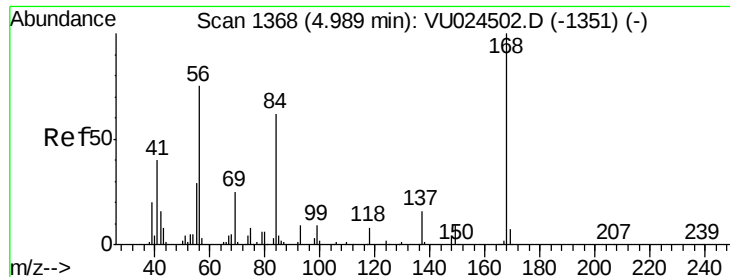
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025164.D

Acq: 03 Jul 2018 00:58

Instrument :

MSVOA_U

ClientSampleId :

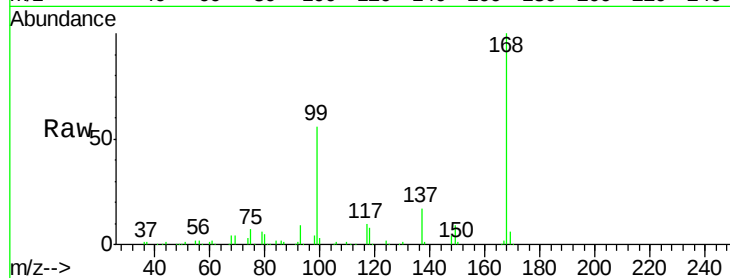
BR-2-062818

Tot Ion:168 Resp: 204696

Ion Ratio Lower Upper

168 100

99 56.4 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU025164.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU025164.D (-1275) (-)

4.99

100000

80000

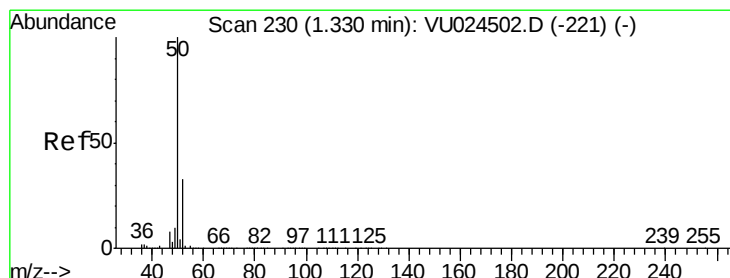
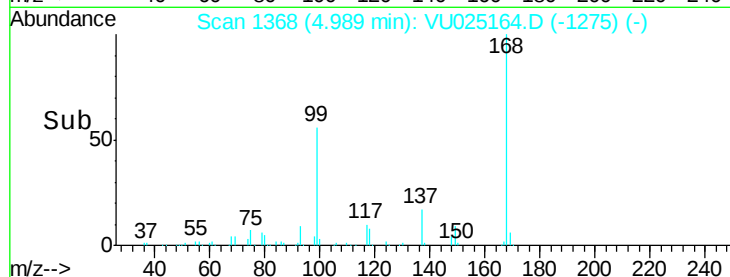
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.267 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025164.D

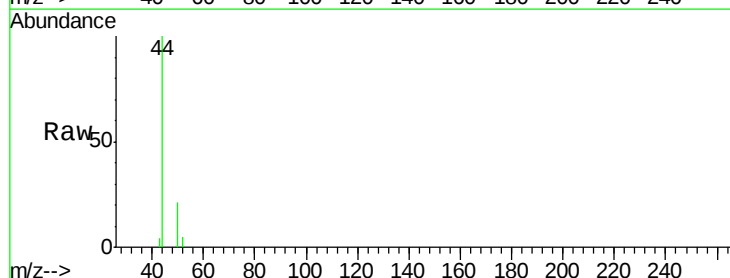
Acq: 03 Jul 2018 00:58

Tgt Ion: 50 Resp: 700

Ion Ratio Lower Upper

50 100

52 24.5 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU025164.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU025164.D (-137) (-)

1.33

800

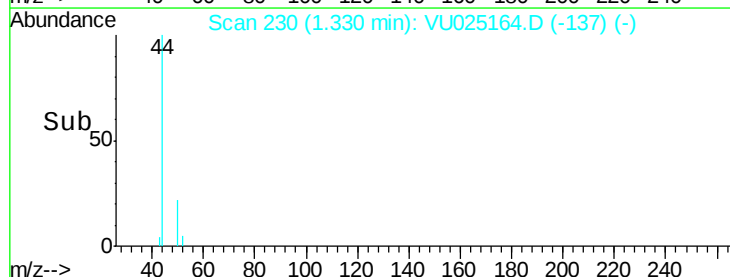
600

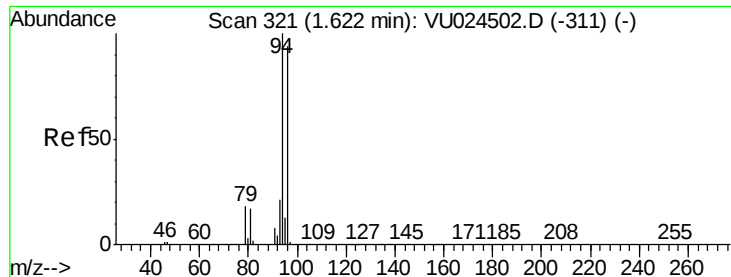
400

200

0

Time-->





#5

Bromomethane

Concen: 0.301 ug/l

RT: 1.63 min Scan# 324

Delta R.T. 0.01 min

Lab File: VU025164.D

Acq: 03 Jul 2018 00:58

Instrument :

MSVOA_U

ClientSampleId :

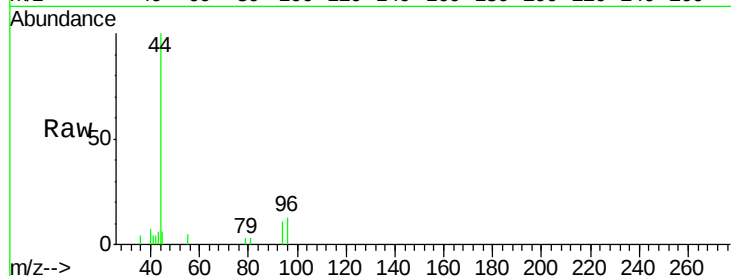
BR-2-062818

Tot Ion: 94 Resp: 393

Ion Ratio Lower Upper

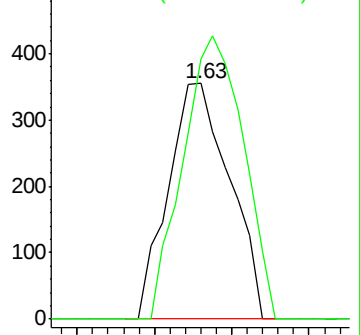
94 100

96 110.4 74.5 111.7

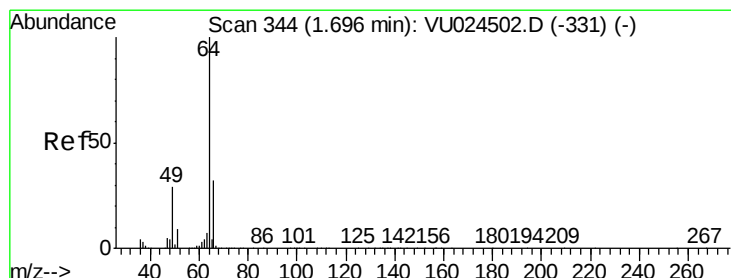
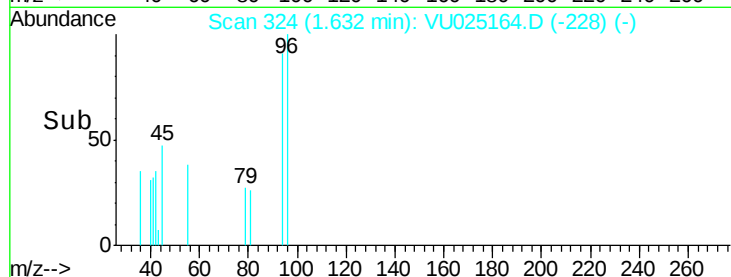


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time--> 1.60 1.62 1.64 1.66



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU025164.D

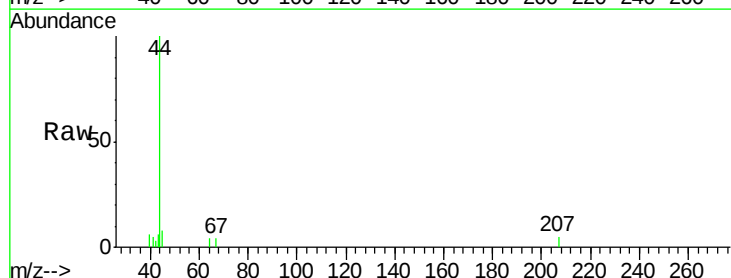
Acq: 03 Jul 2018 00:58

Tgt Ion: 64 Resp: 20

Ion Ratio Lower Upper

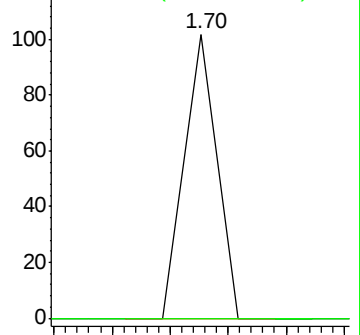
64 100

66 0.0 25.5 38.3#

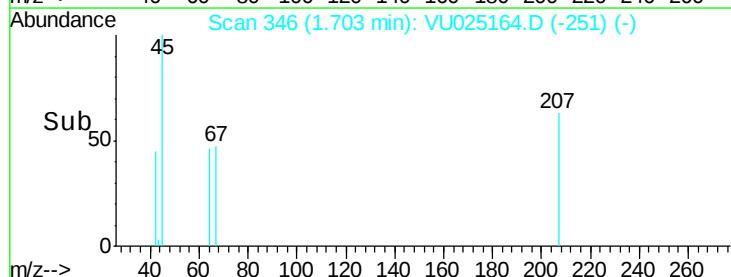


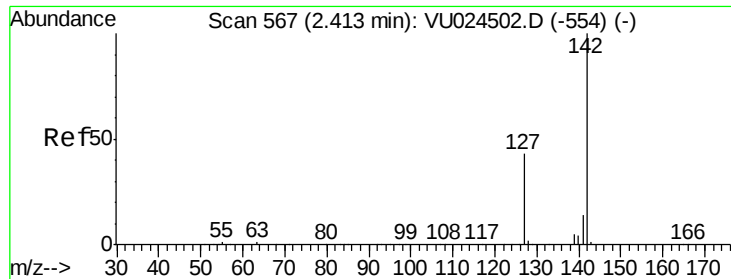
Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



Time--> 1.69 1.70 1.71 1.71

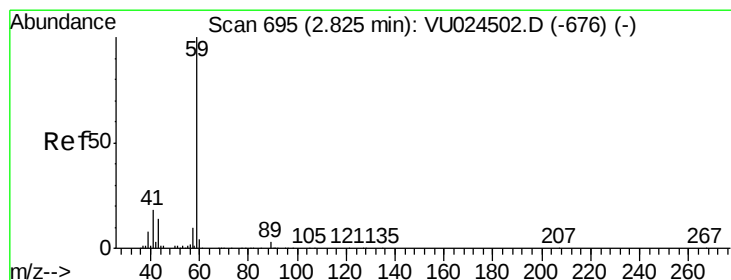
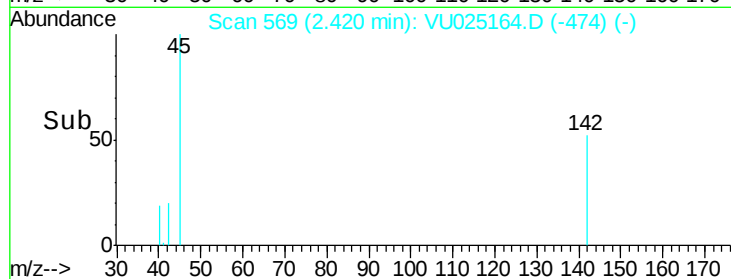
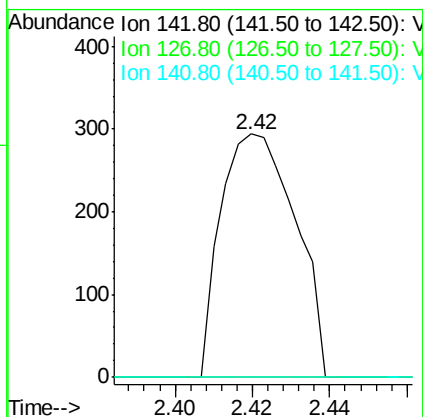
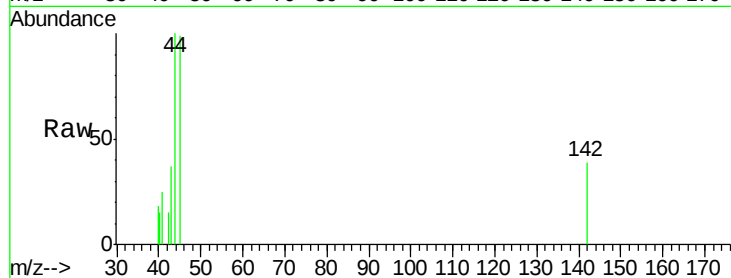




#10
Methvl Iodide
Concen: 5.451 ug/l
RT: 2.42 min Scan# 569
Delta R.T. 0.01 min
Lab File: VU025164.D
Acq: 03 Jul 2018 00:58

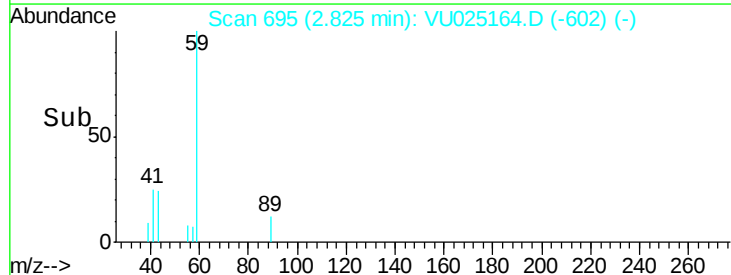
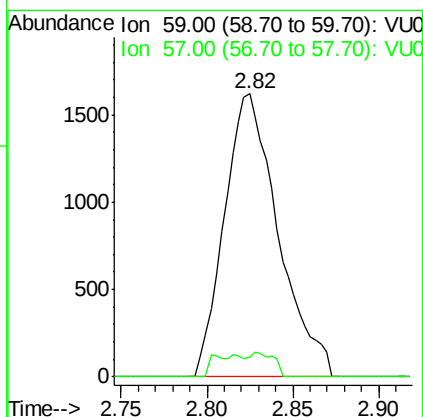
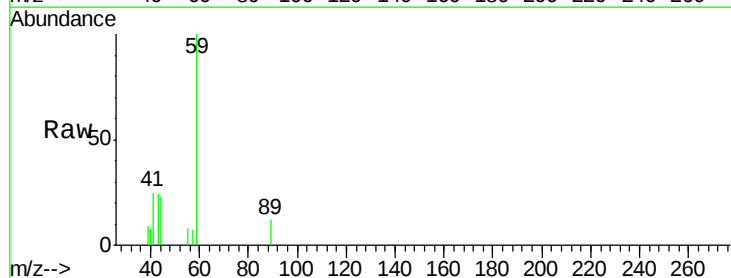
Instrument :
MSVOA_U
ClientSampleId :
BR-2-062818

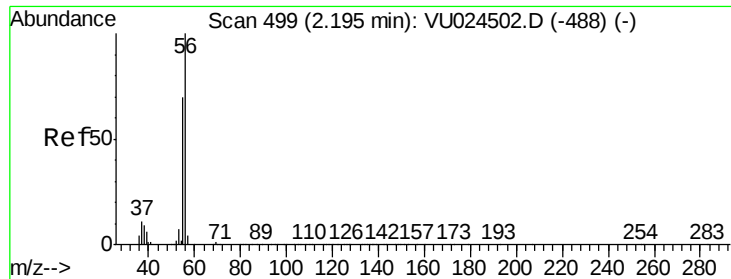
Tot Ion:142 Resp: 393
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 4.347 ug/l
RT: 2.82 min Scan# 695
Delta R.T. 0.00 min
Lab File: VU025164.D
Acq: 03 Jul 2018 00:58

Tgt Ion: 59 Resp: 3533
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#13

Acrolein

Concen: 0.480 ug/l

RT: 2.20 min Scan# 502

Delta R.T. 0.01 min

Lab File: VU025164.D

Acq: 03 Jul 2018 00:58

Instrument :

MSVOA_U

ClientSampleId :

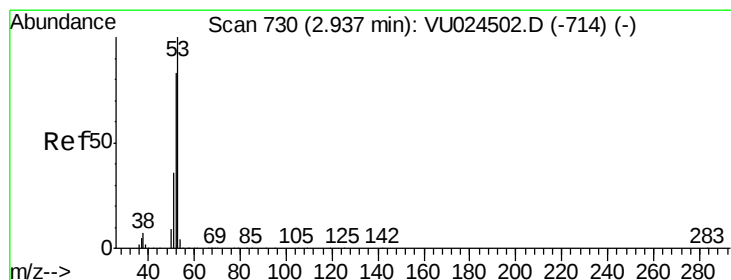
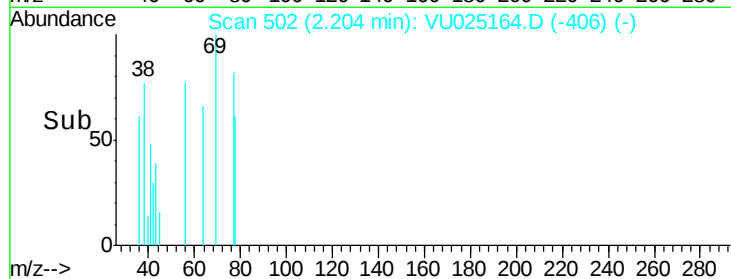
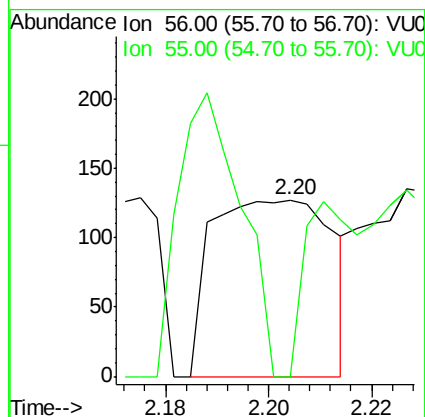
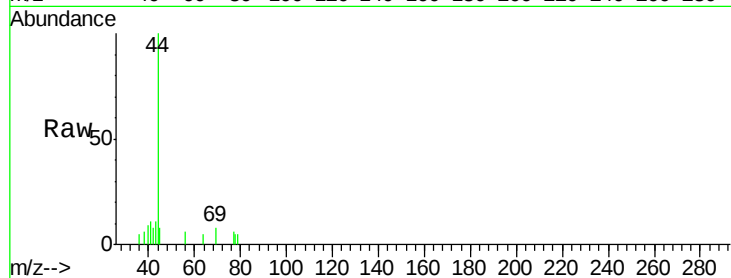
BR-2-062818

Tot Ion: 56 Resp: 205

Ion Ratio Lower Upper

56 100

55 42.4 58.4 87.6#



#15

Acrylonitrile

Concen: 0.288 ug/l

RT: 3.00 min Scan# 750

Delta R.T. 0.06 min

Lab File: VU025164.D

Acq: 03 Jul 2018 00:58

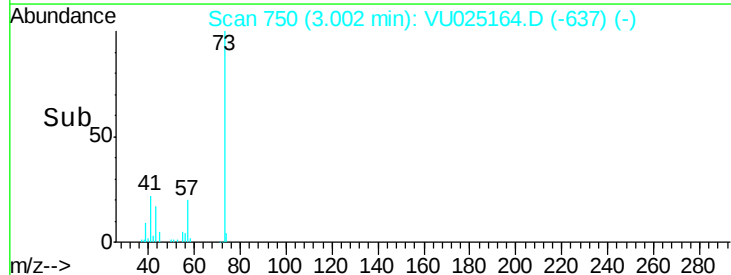
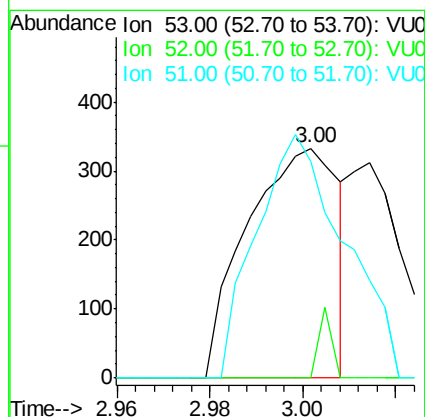
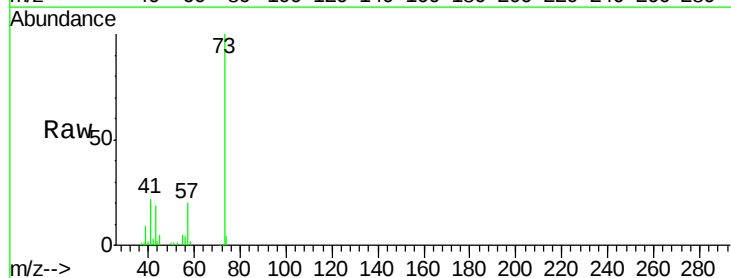
Tgt Ion: 53 Resp: 455

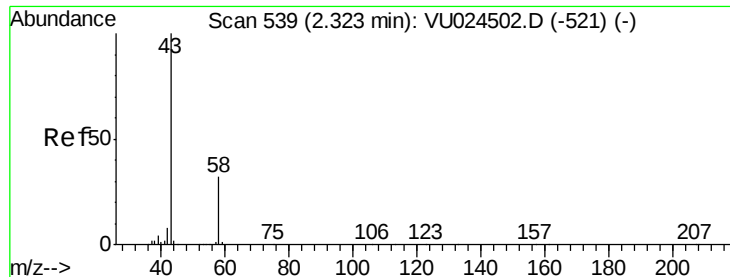
Ion Ratio Lower Upper

53 100

52 4.4 67.1 100.7#

51 102.4 28.4 42.6#





#16

Acetone

Concen: 1.971 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025164.D

Acq: 03 Jul 2018 00:58

Instrument :

MSVOA_U

ClientSampleId :

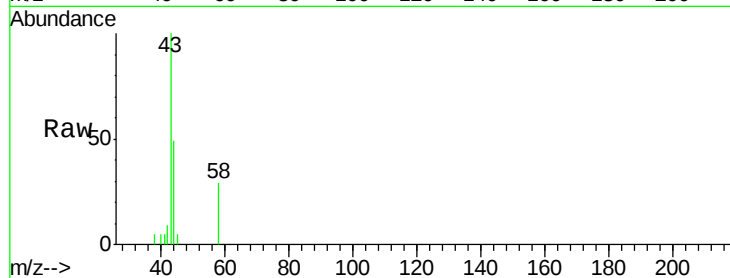
BR-2-062818

Tot Ion: 43 Resp: 3539

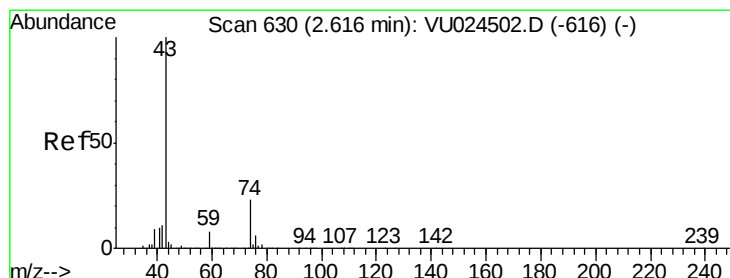
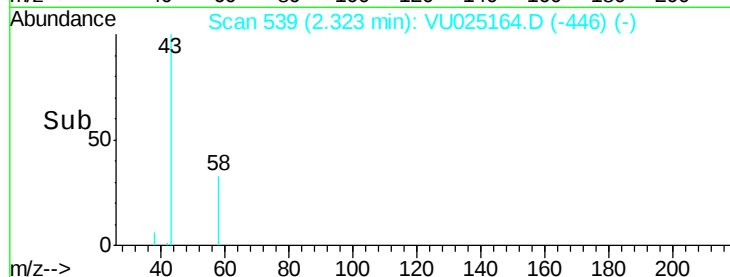
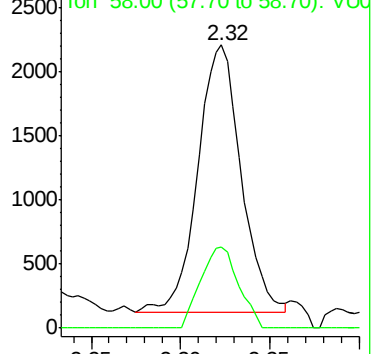
Ion Ratio Lower Upper

43 100

58 30.6 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-521) (-)



#18

Methyl Acetate

Concen: 0.434 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU025164.D

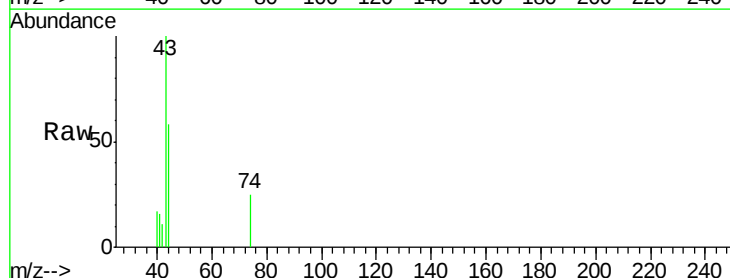
Acq: 03 Jul 2018 00:58

Tgt Ion: 43 Resp: 1669

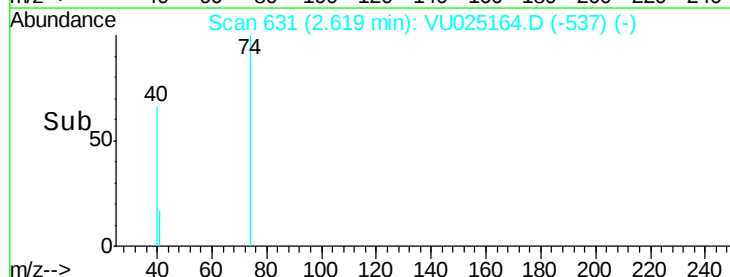
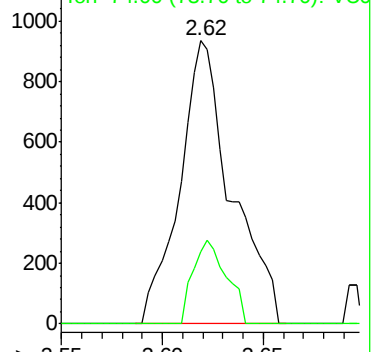
Ion Ratio Lower Upper

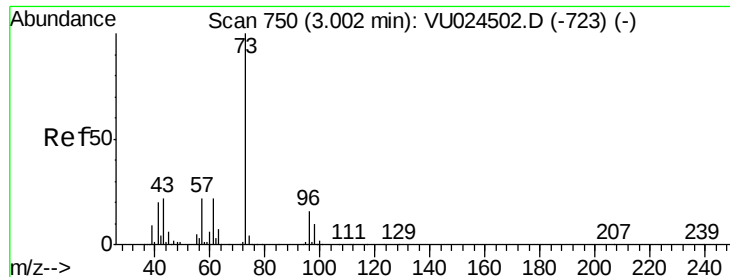
43 100

74 19.4 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-616) (-)



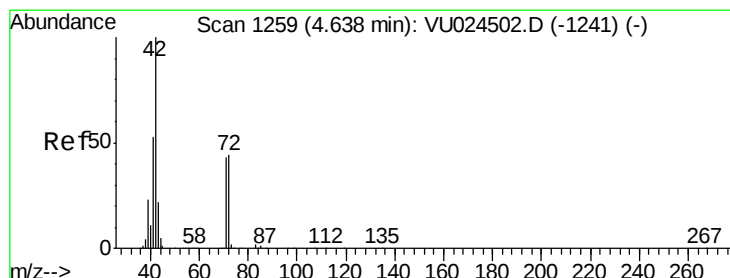
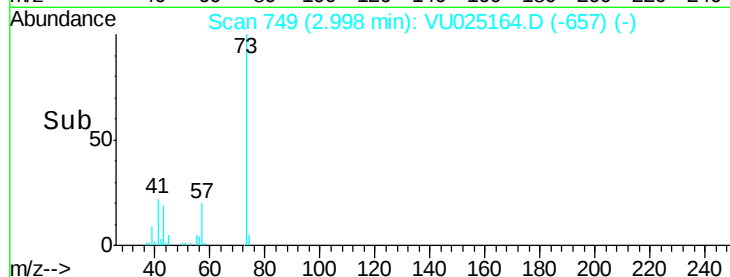
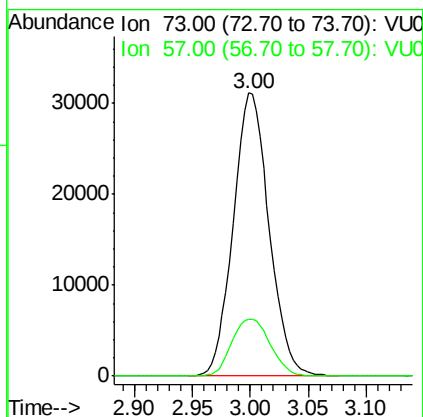
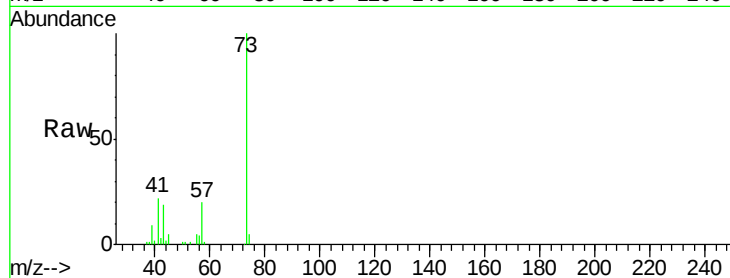


#19

Methyl tert-butyl Ether
 Concen: 7.619 ug/l
 RT: 3.00 min Scan# 749
 Delta R.T. -0.00 min
 Lab File: VU025164.D
 Acq: 03 Jul 2018 00:58

Instrument :
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 ClientSampleId :
 BR-2-062818

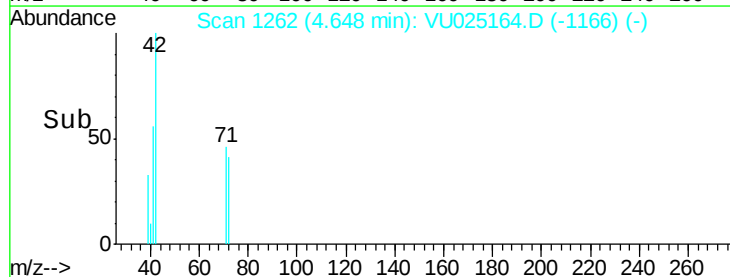
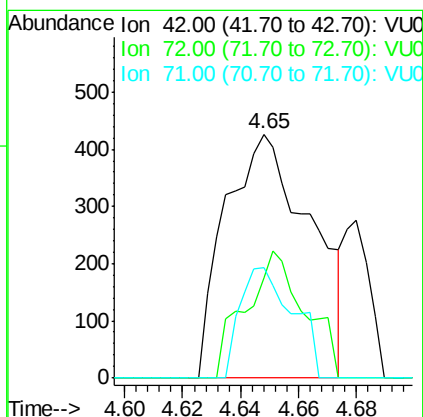
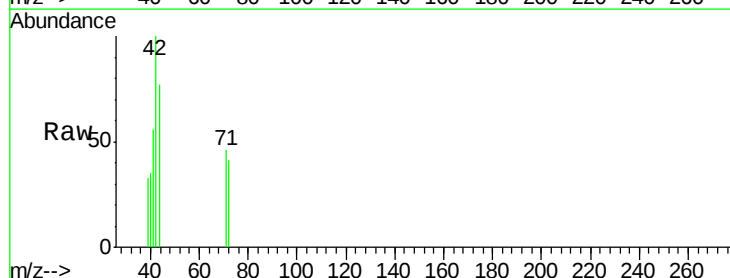
Tot Ion: 73 Resp: 66755
 Ion Ratio Lower Upper
 73 100
 57 20.1 18.8 28.2

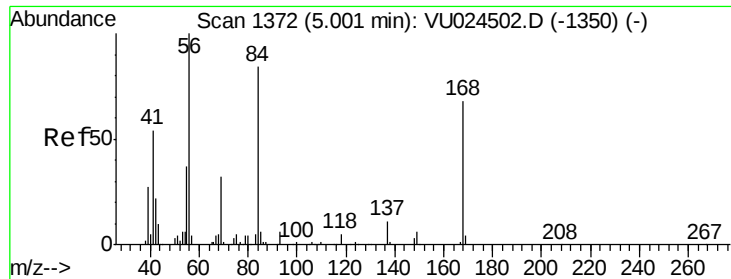


#29

Tetrahydrofuran
 Concen: 0.583 ug/l
 RT: 4.65 min Scan# 1262
 Delta R.T. 0.01 min
 Lab File: VU025164.D
 Acq: 03 Jul 2018 00:58

Tgt Ion: 42 Resp: 870
 Ion Ratio Lower Upper
 42 100
 72 36.4 34.5 51.7
 71 28.2 32.2 48.4#

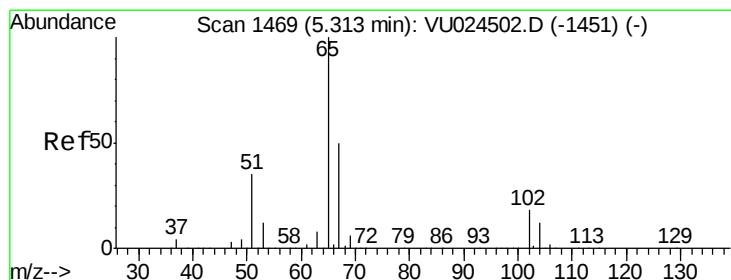
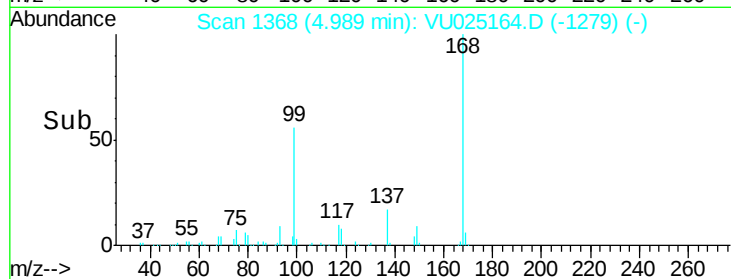
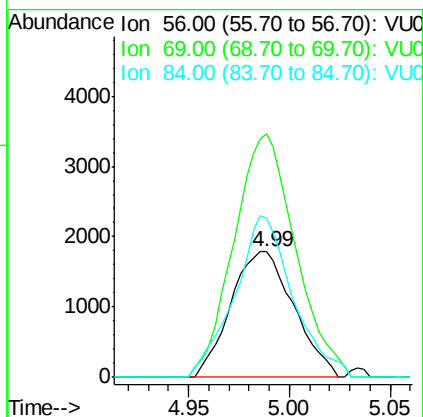
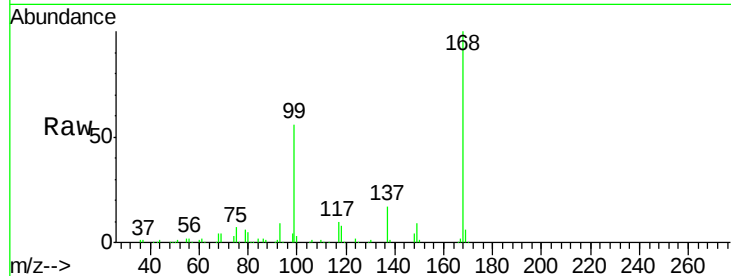




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU025164.D
Acq: 03 Jul 2018 00:58

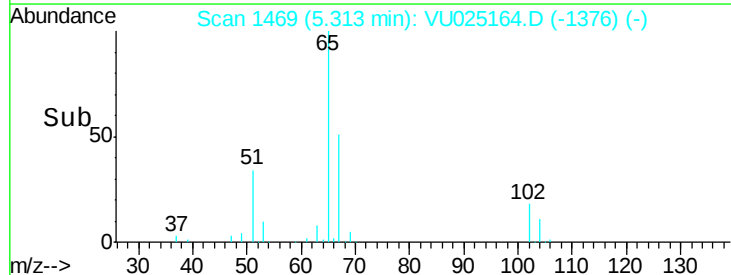
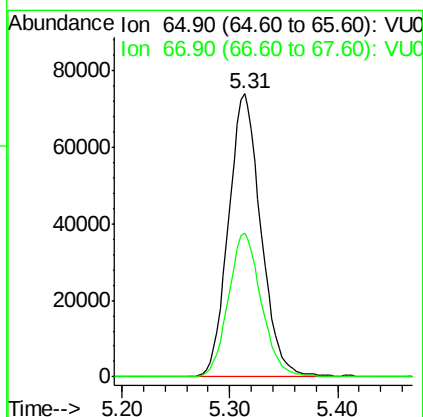
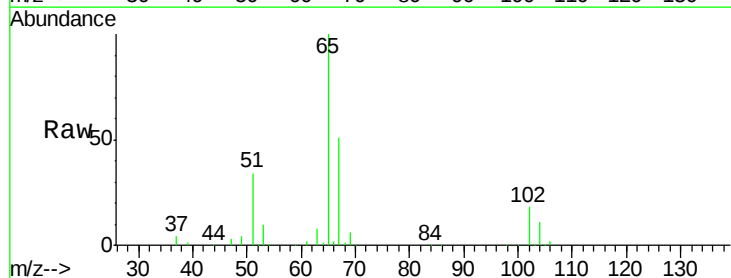
Instrument :
MSVOA_U
ClientSampleId :
BR-2-062818

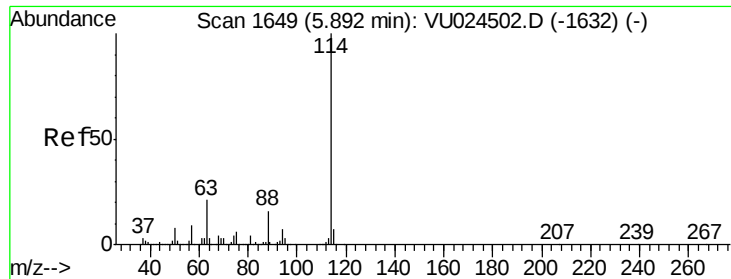
Tot Ion	56	Resp	3899
Ion Ratio	Lower	Upper	
56	100		
69	193.9	24.8	37.2#
84	126.4	65.2	97.8#



#33
1,2-Dichloroethane-d4
Concen: 46.431 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025164.D
Acq: 03 Jul 2018 00:58

Tgt Ion	65	Resp	155160
Ion Ratio	Lower	Upper	
65	100		
67	51.5	0.0	107.0

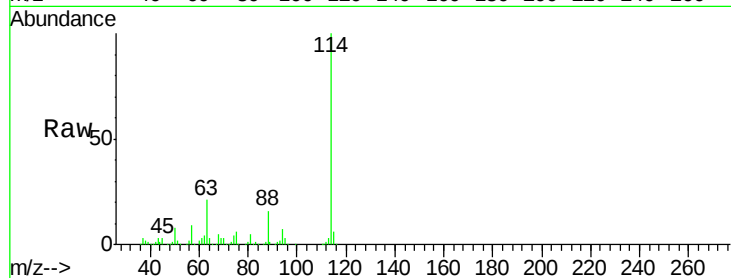




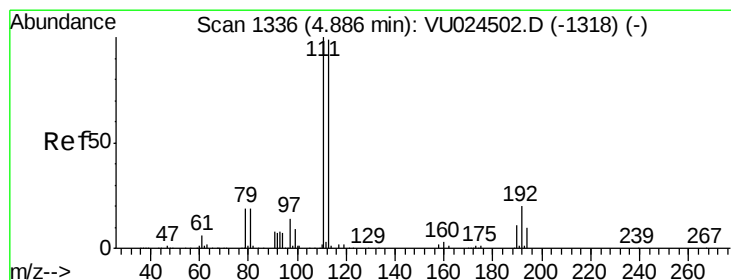
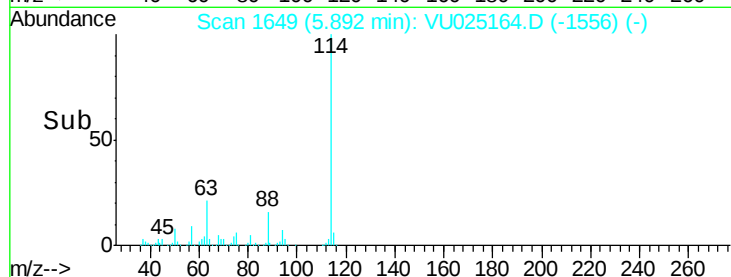
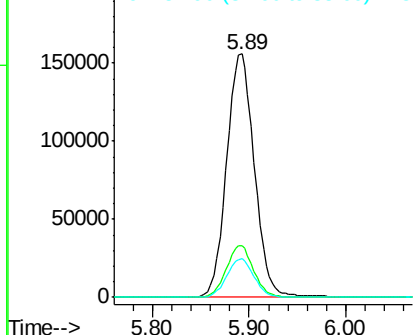
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.89 min Scan# 1649
Delta R.T. 0.00 min
Lab File: VU025164.D
Acq: 03 Jul 2018 00:58

Instrument :
MSVOA_U
ClientSampleId :
BR-2-062818

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	45.4
88	15.8	0.0	31.0

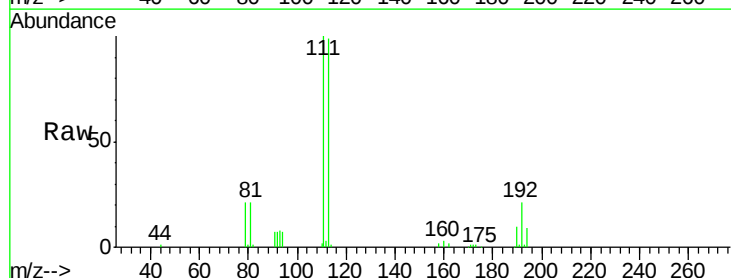


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VU0
Ion 87.90 (87.60 to 88.60): VU0

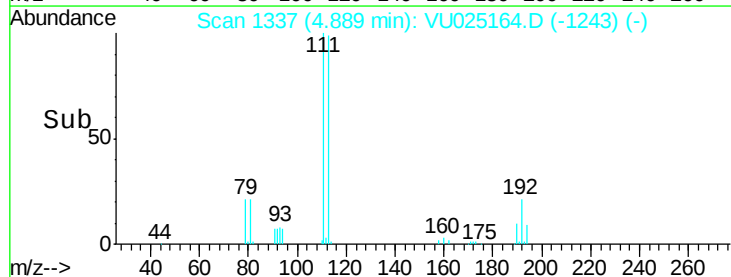
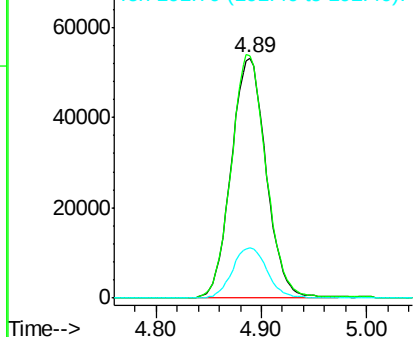


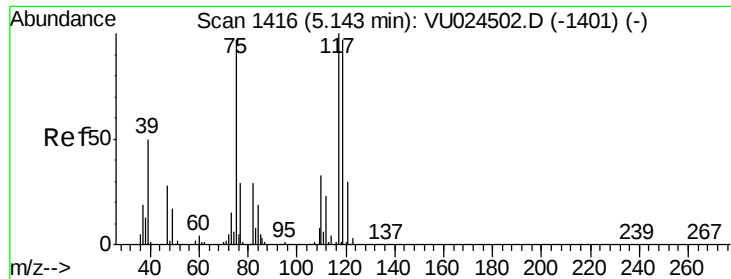
#35
Dibromofluoromethane
Concen: 47.187 ug/l
RT: 4.89 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VU025164.D
Acq: 03 Jul 2018 00:58

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.9	82.2	123.4
192	20.9	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

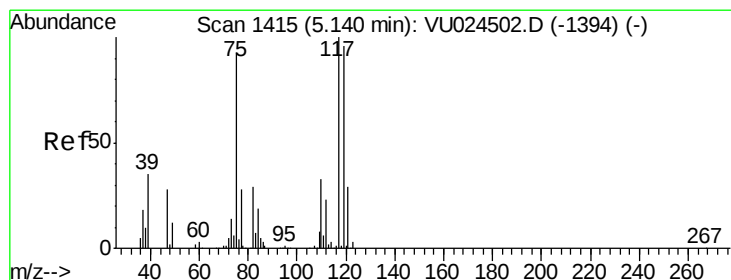
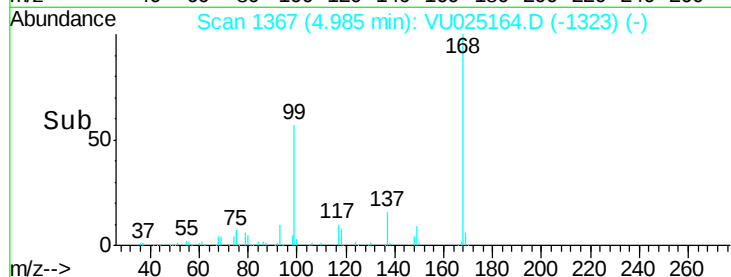
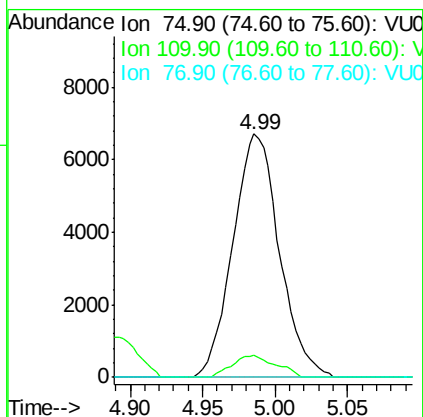
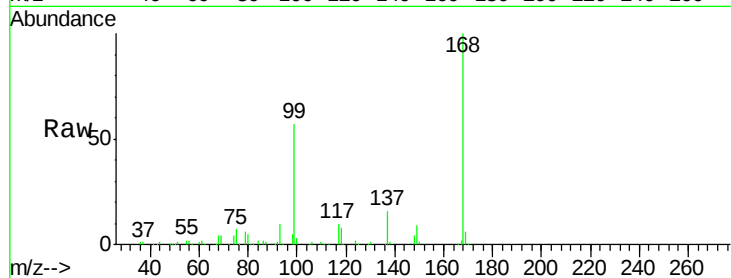




#36
 1,1-Dichloropropene
 Concen: 4.081 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025164.D
 Acq: 03 Jul 2018 00:58

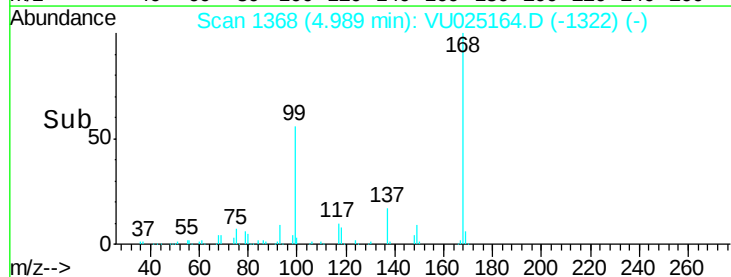
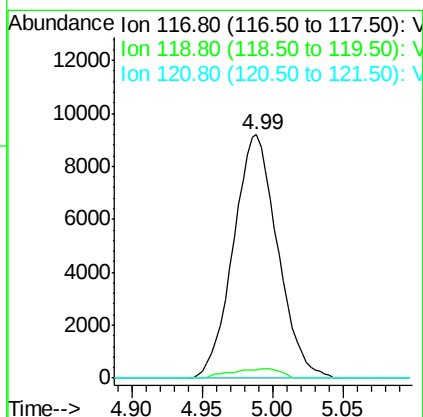
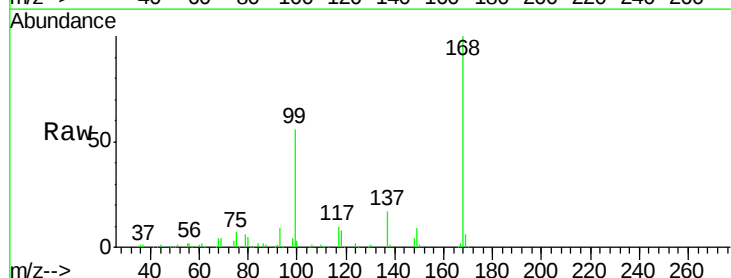
Instrument :
 MSVOA_U
 ClientSampleId :
 BR-2-062818

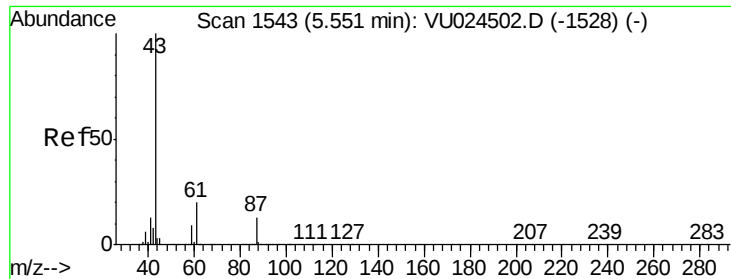
Tot Ion	75	110	77	Resp	Lower	Upper
14944	100	8.6	0.0		17.0	50.9#
					24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 5.007 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025164.D
 Acq: 03 Jul 2018 00:58

Tgt Ion	117	119	121	Resp	Lower	Upper
20162	100	3.2	0.0		76.1	114.1#
					23.7	35.5#





#43

Isopropyl Acetate

Concen: 1.389 ug/l

RT: 5.81 min Scan# 1623

Delta R.T. 0.26 min

Lab File: VU025164.D

Acq: 03 Jul 2018 00:58

Instrument :

MSVOA_U

ClientSampleId :

BR-2-062818

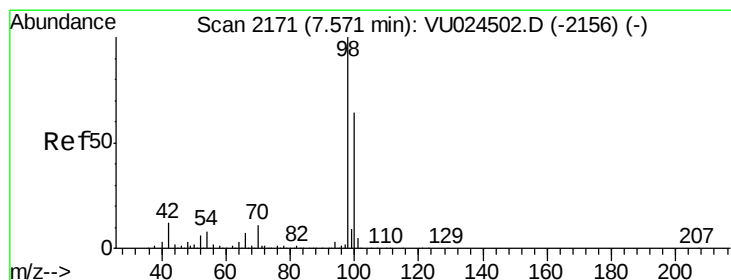
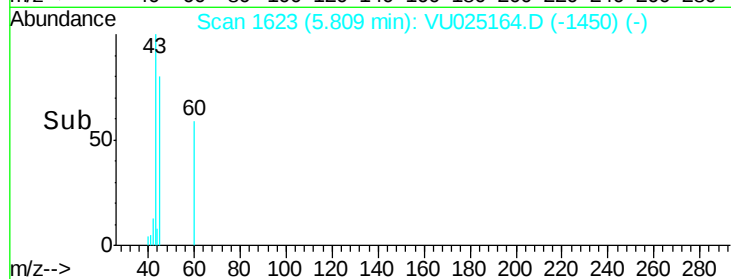
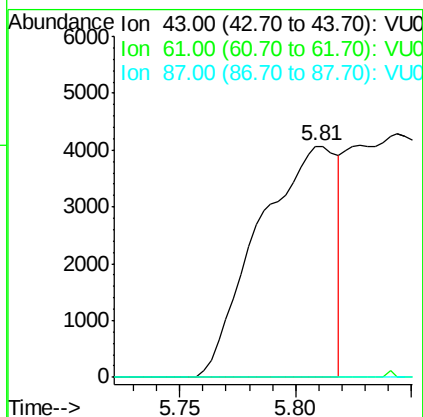
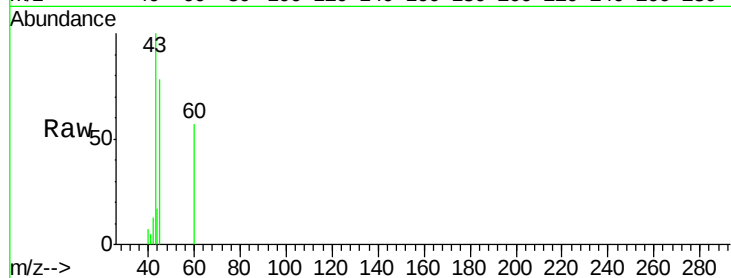
Tot Ion: 43 Resp: 9580

Ion Ratio Lower Upper

43 100

61 0.0 15.4 23.0#

87 0.0 10.0 15.0#



#50

Toluene-d8

Concen: 46.478 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025164.D

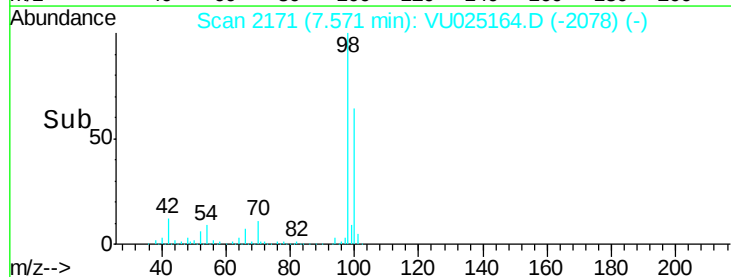
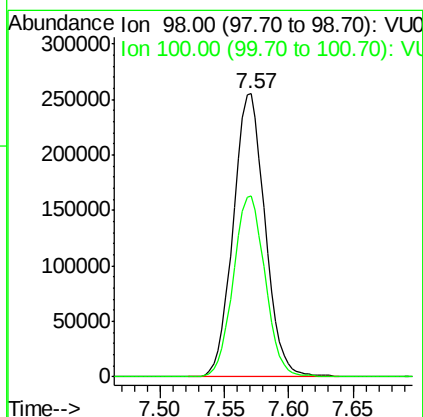
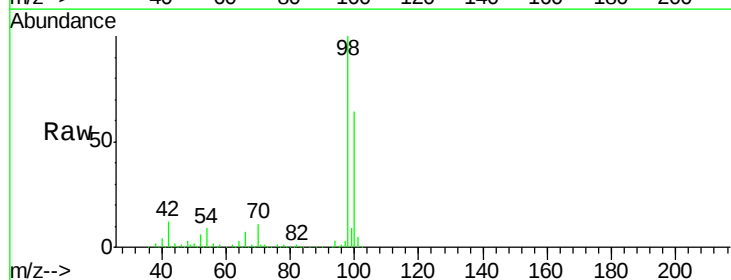
Acq: 03 Jul 2018 00:58

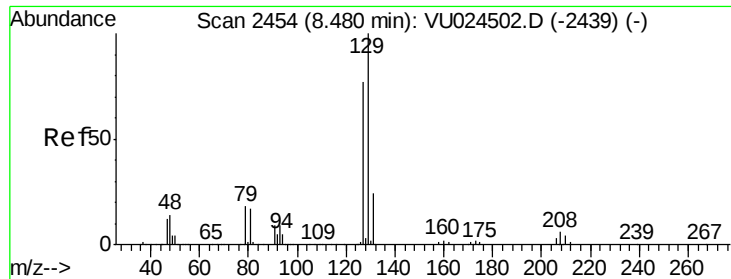
Tgt Ion: 98 Resp: 438416

Ion Ratio Lower Upper

98 100

100 64.1 51.1 76.7

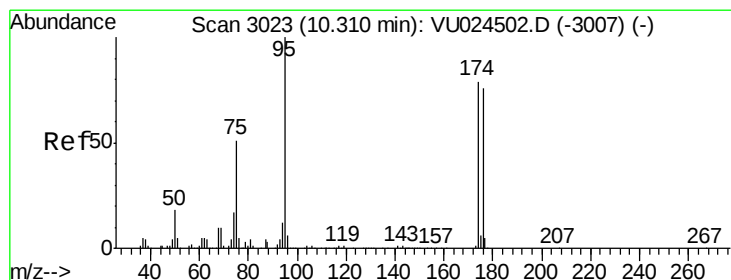
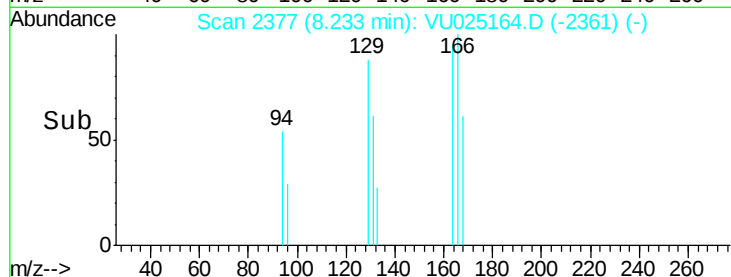
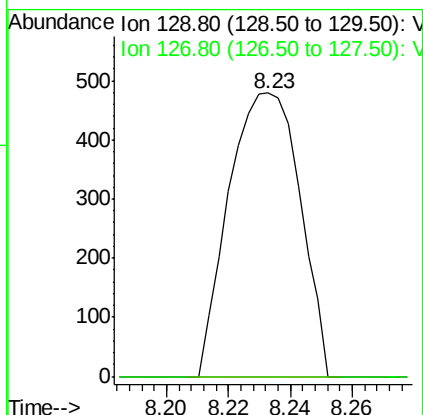
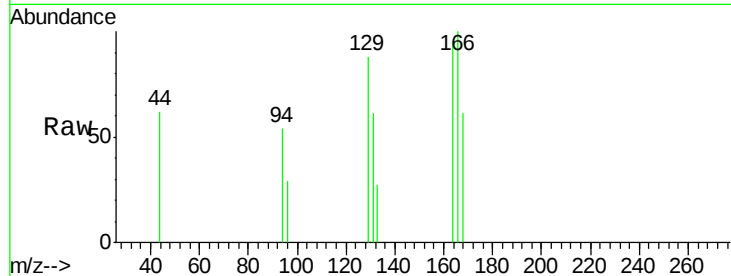




#60
 Dibromochloromethane
 Concen: 0.225 ug/l
 RT: 8.23 min Scan# 2377
 Delta R.T. -0.25 min
 Lab File: VU025164.D
 Acq: 03 Jul 2018 00:58

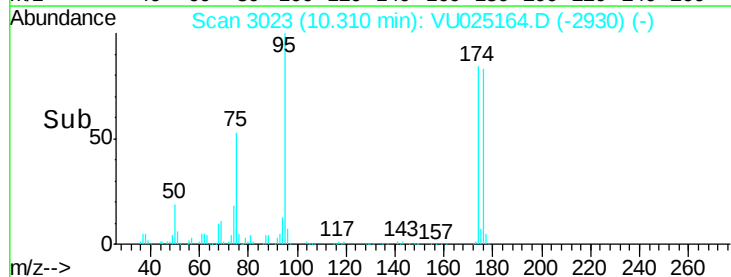
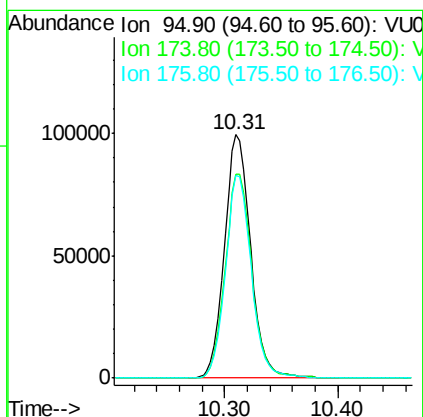
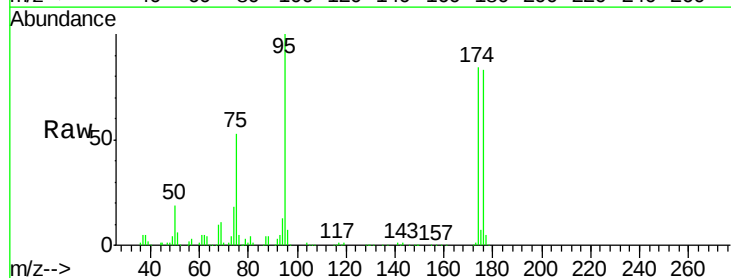
Instrument :
 MSVOA_U
 ClientSampleId :
 BR-2-062818

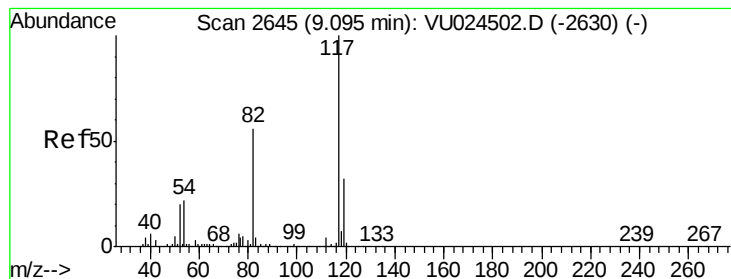
Tot Ion:129 Resp: 765
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 116.0#



#62
 4-Bromofluorobenzene
 Concen: 42.803 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. 0.00 min
 Lab File: VU025164.D
 Acq: 03 Jul 2018 00:58

Tgt Ion: 95 Resp: 160306
 Ion Ratio Lower Upper
 95 100
 174 85.4 0.0 165.8
 176 82.5 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: VU025164.D

Acq: 03 Jul 2018 00:58

Instrument :

MSVOA_U

ClientSampleId :

BR-2-062818

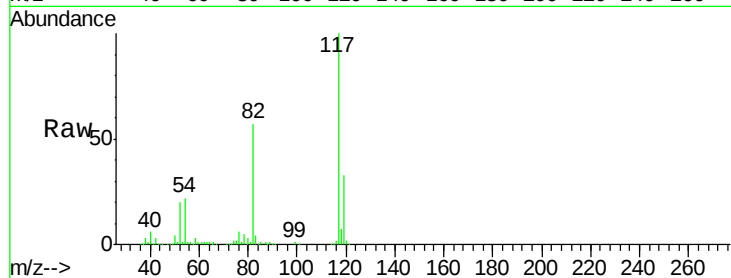
Tot Ion:117 Resp: 282034

Ion Ratio Lower Upper

117 100

82 57.1 44.3 66.5

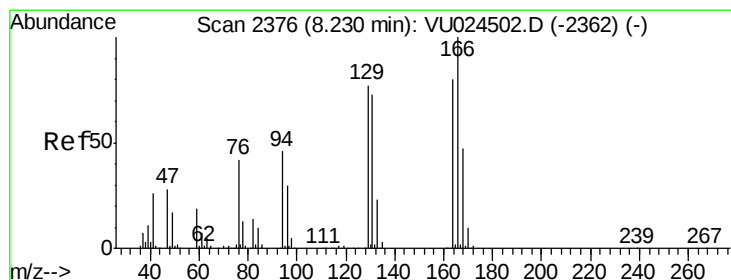
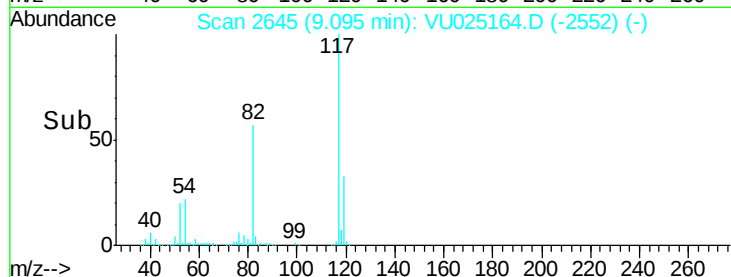
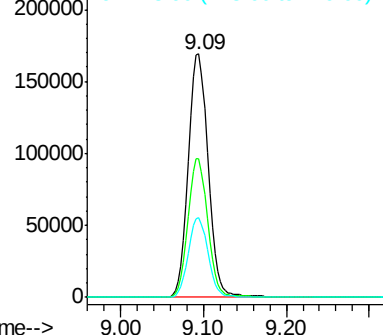
119 32.7 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 0.288 ug/l

RT: 8.23 min Scan# 2377

Delta R.T. 0.00 min

Lab File: VU025164.D

Acq: 03 Jul 2018 00:58

Tgt Ion:164 Resp: 772

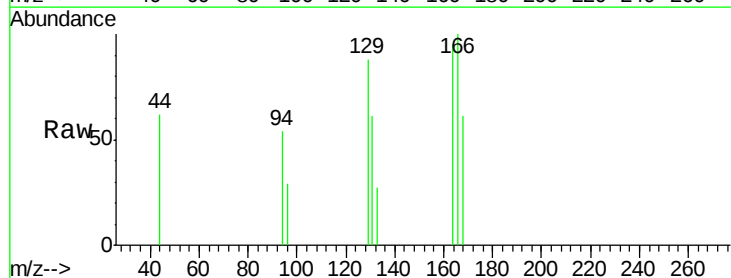
Ion Ratio Lower Upper

164 100

166 105.6 101.7 152.5

129 92.5 76.9 115.3

131 64.5 74.9 112.3#

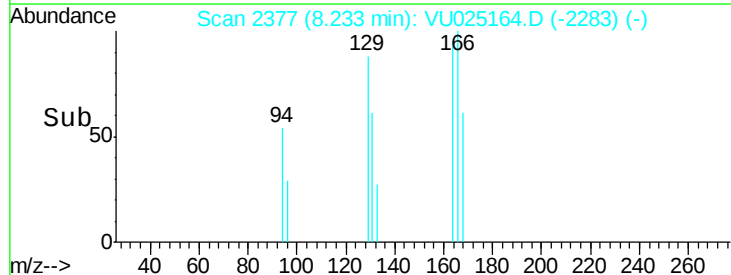
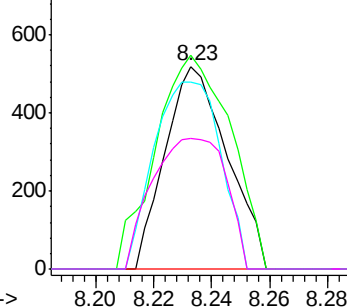


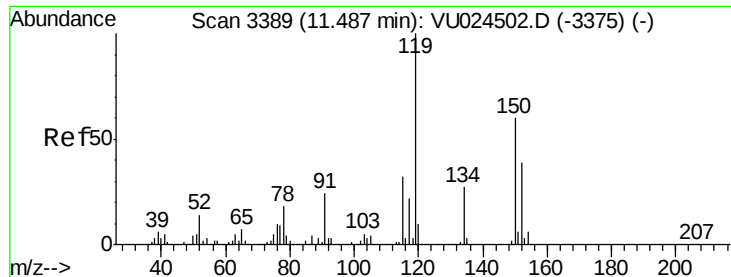
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025164.D

Acq: 03 Jul 2018 00:58

Instrument :

MSVOA_U

ClientSampleId :

BR-2-062818

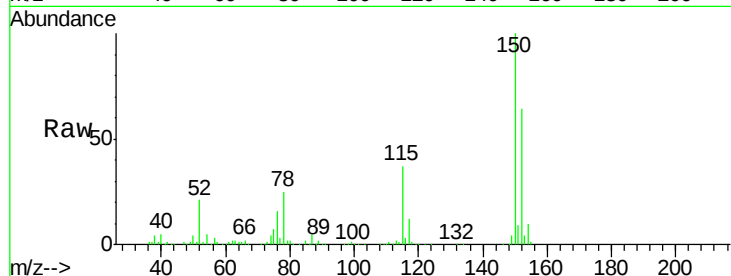
Tot Ion:152 Resp: 147559

Ion Ratio Lower Upper

152 100

115 57.0 43.0 129.0

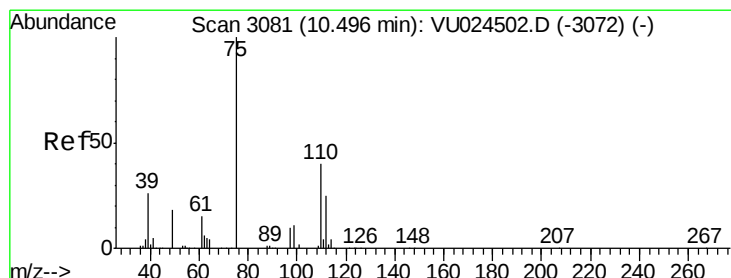
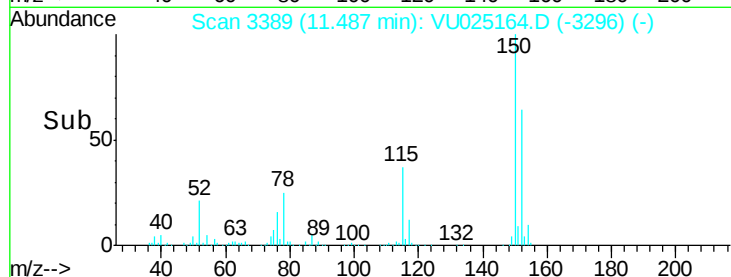
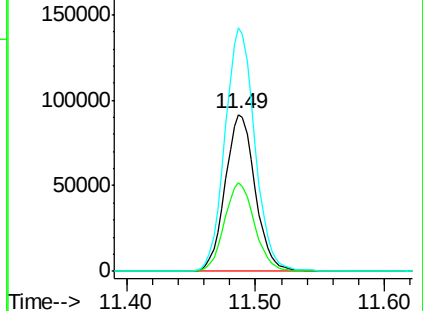
150 154.8 0.0 354.0



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: 26.208 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025164.D

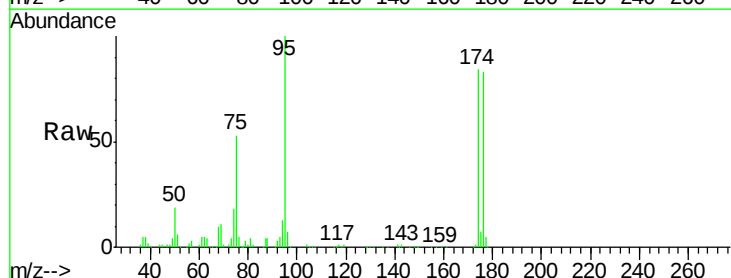
Acq: 03 Jul 2018 00:58

Tgt Ion: 75 Resp: 85143

Ion Ratio Lower Upper

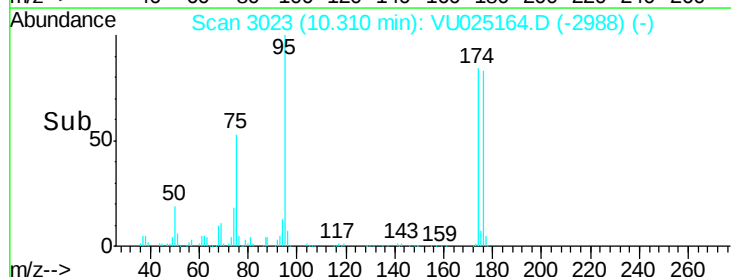
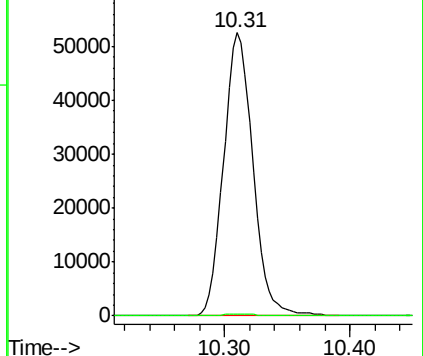
75 100

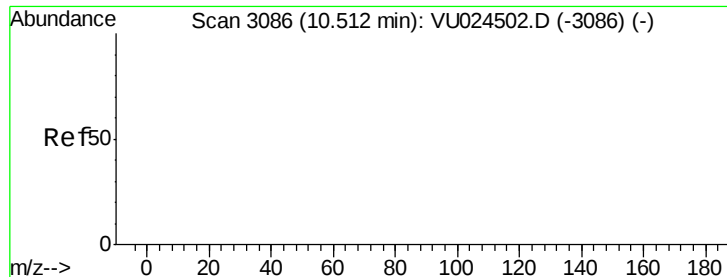
77 0.7 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

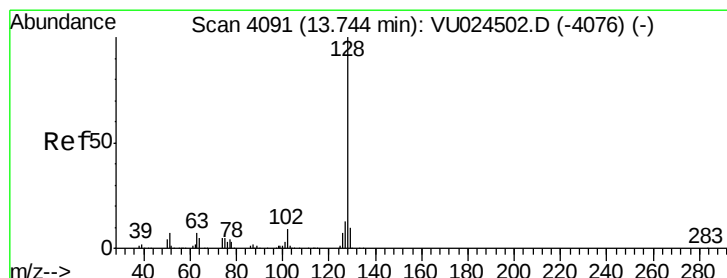
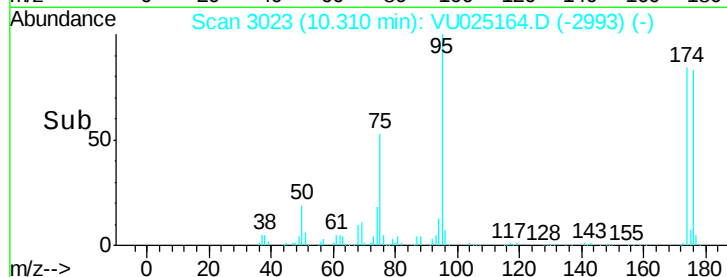
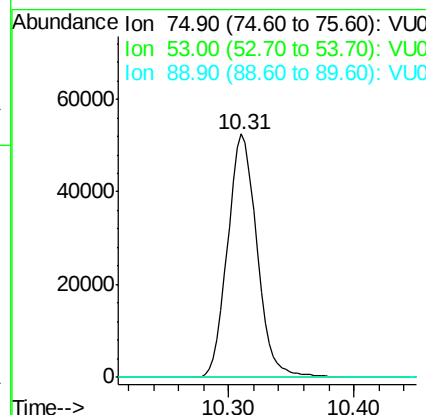
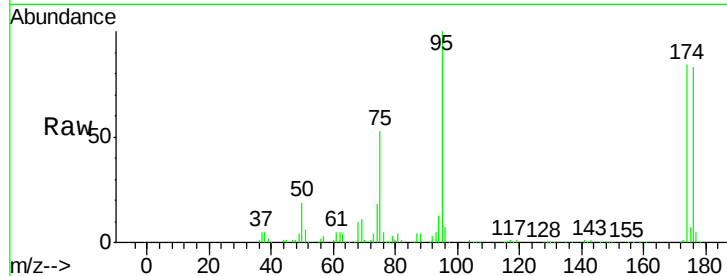




#81
trans-1,4-Dichloro-2-butene
Concen: 60.657 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU025164.D
Acq: 03 Jul 2018 00:58

Instrument :
MSVOA_U
ClientSampleId :
BR-2-062818

Tot Ion: 75 Resp: 85143
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 0.879 ug/l
RT: 13.76 min Scan# 4096
Delta R.T. 0.02 min
Lab File: VU025164.D
Acq: 03 Jul 2018 00:58

Tgt Ion:128 Resp: 2198
Ion Ratio Lower Upper
128 100
127 5.5 10.6 16.0#
129 4.4 8.6 12.8#

