

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025353.D
 Acq On : 12 Jul 2018 20:46
 Operator : MD/SY
 Sample : PB111044ZHE#08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#08

Quant Time: Jul 13 01:14:12 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 10 09:34:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	190850	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	302819	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	279289	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	145915	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	149748	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
35) Dibromofluoromethane	4.89	113	114683	44.89	ug/l	0.00
Spiked Amount			Recovery	=	89.78%	
50) Toluene-d8	7.57	98	427232	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
62) 4-Bromofluorobenzene	10.31	95	157796	44.80	ug/l	0.00
Spiked Amount			Recovery	=	89.60%	

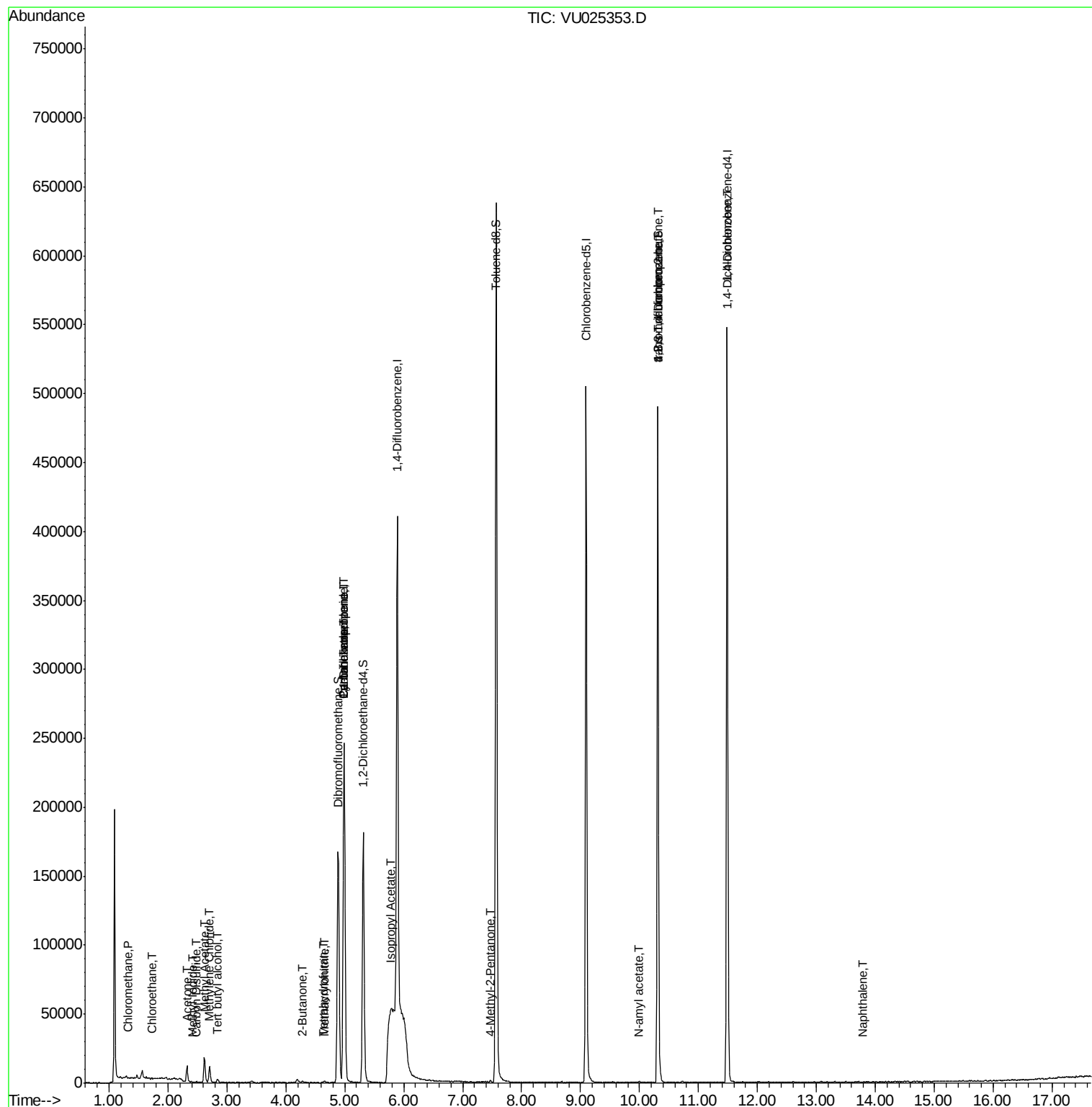
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	377	0.75	ug/l	94
5) Bromomethane	1.63	94	174	Below Cal		96
6) Chloroethane	1.72	64	20	0.30	ug/l #	43
10) Methyl Iodide	2.41	142	127	7.75	ug/l #	39
11) Tert butyl alcohol	2.84	59	1504	2.33	ug/l #	73
16) Acetone	2.32	43	11762	12.49	ug/l	95
17) Carbon Disulfide	2.48	76	95	1.95	ug/l #	74
18) Methyl Acetate	2.62	43	22595	7.44	ug/l	96
20) Methylene Chloride	2.70	84	5514	3.06	ug/l	96
25) 2-Butanone	4.28	43	2269	1.10	ug/l #	66
29) Tetrahydrofuran	4.65	42	984	0.80	ug/l #	59
31) Cyclohexane	4.99	56	3754	1.73	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	14580	4.33	ug/l #	49
38) Carbon Tetrachloride	4.99	117	18803	5.19	ug/l #	17
41) Methacrylonitrile	4.66	41	577	0.28	ug/l #	32
43) Isopropyl Acetate	5.78	43	69953	11.63	ug/l #	61
51) 4-Methyl-2-Pentanone	7.46	43	1054	0.27	ug/l #	70
74) N-amyl acetate	9.99	43	579	1.39	ug/l #	43
76) 1,2,3-Trichloropropane	10.31	75	84969	28.59	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	84969	73.09	ug/l #	100
88) 1,4-Dichlorobenzene	11.50	146	20	1.49	ug/l #	1
95) Naphthalene	13.79	128	69	2.42	ug/l #	69

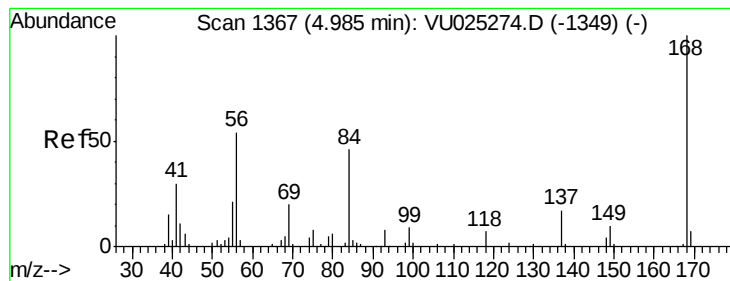
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU025353.D

Acq: 12 Jul 2018 20:46

Instrument :

MSVOA_U

ClientSampleId :

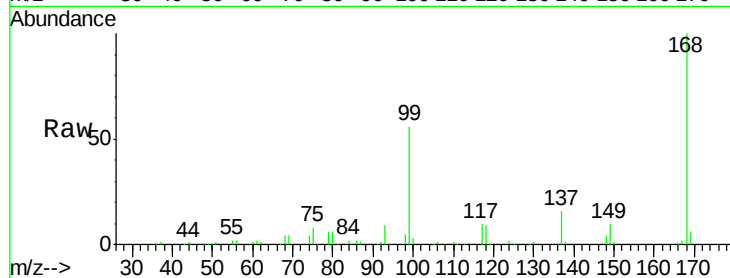
PB111044ZHE#08

Tot Ion:168 Resp: 190850

Ion Ratio Lower Upper

168 100

99 56.4 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025274.D (-1349) (-)

Ion 98.90 (98.60 to 99.60): VU025274.D (-1349) (-)

4.99

80000

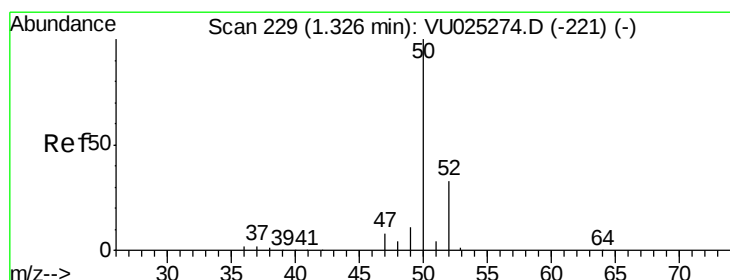
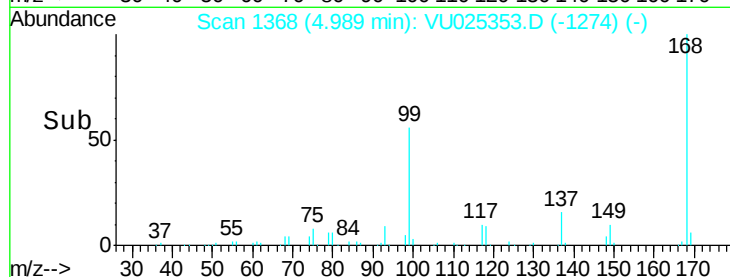
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.75 ug/l

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU025353.D

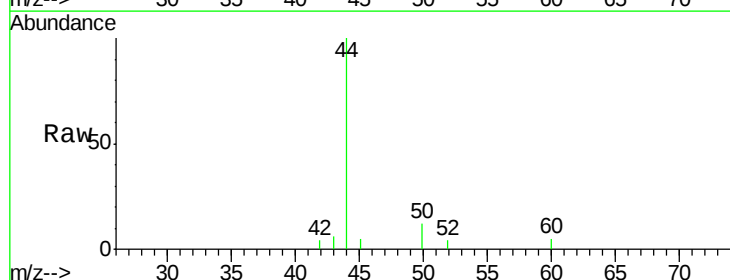
Acq: 12 Jul 2018 20:46

Tgt Ion: 50 Resp: 377

Ion Ratio Lower Upper

50 100

52 36.2 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VU025274.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU025274.D (-221) (-)

1.33

400

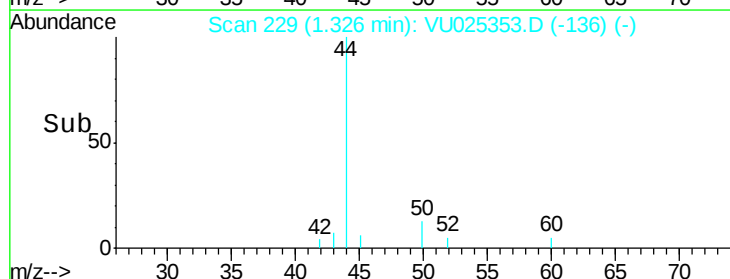
300

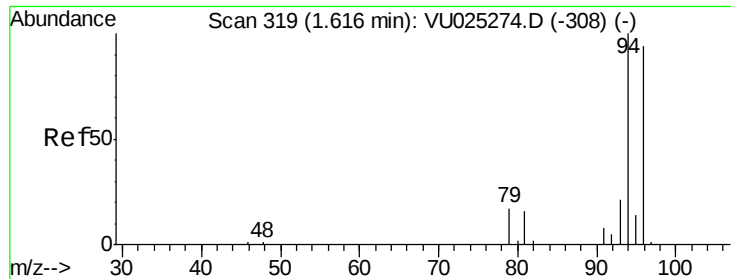
200

100

0

Time-->

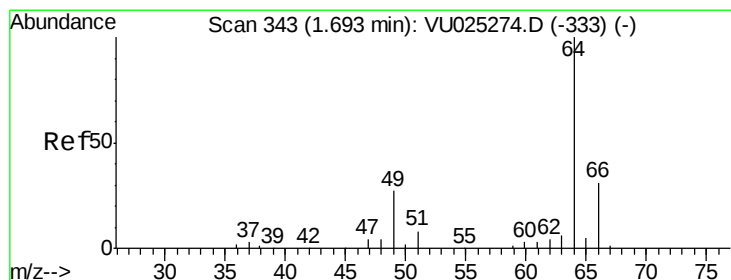
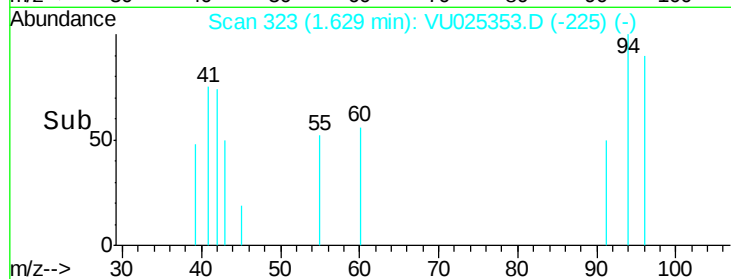
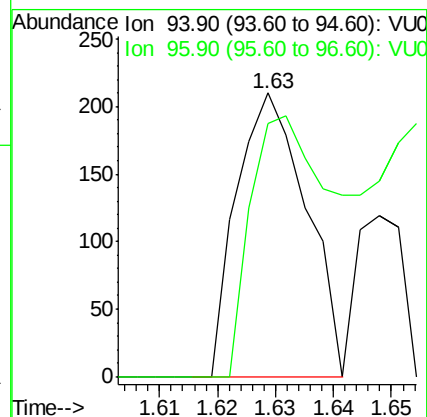
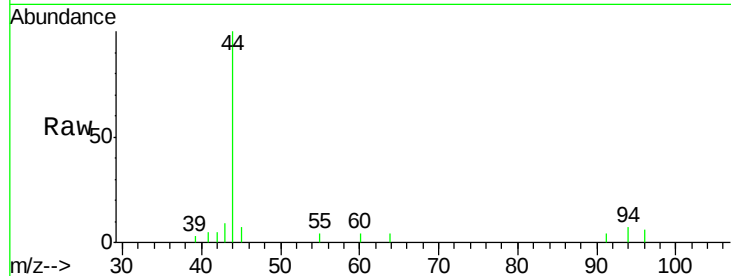




#5
Bromomethane
Concen: Below Cal
RT: 1.63 min Scan# 323
Delta R.T. 0.01 min
Lab File: VU025353.D
Acq: 12 Jul 2018 20:46

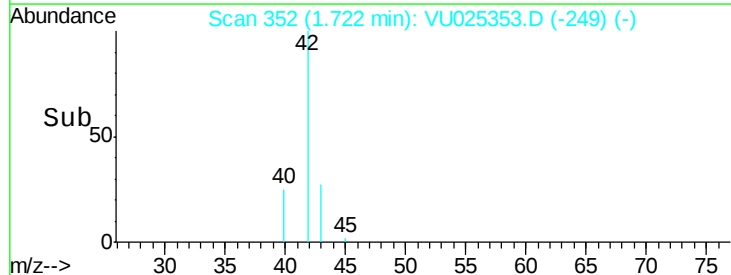
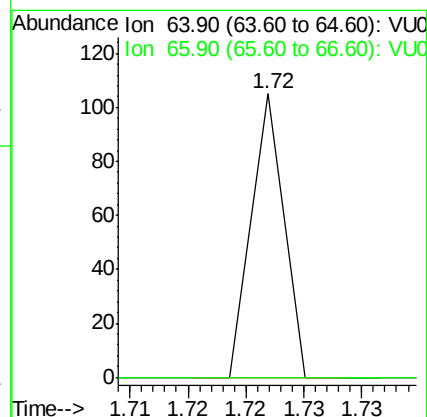
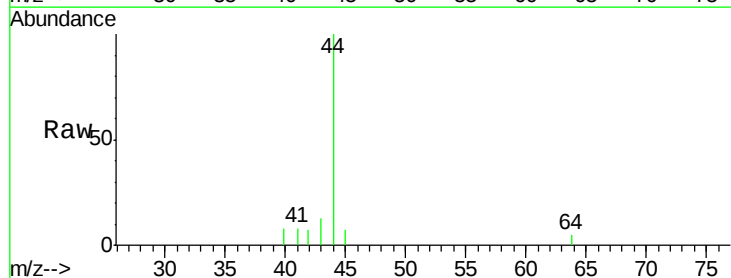
Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#08

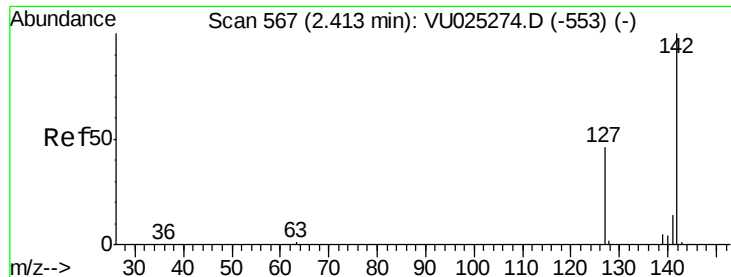
Tot Ion: 94 Resp: 174
Ion Ratio Lower Upper
94 100
96 89.5 75.0 112.4



#6
Chloroethane
Concen: 0.30 ug/l
RT: 1.72 min Scan# 352
Delta R.T. 0.03 min
Lab File: VU025353.D
Acq: 12 Jul 2018 20:46

Tgt Ion: 64 Resp: 20
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.4#

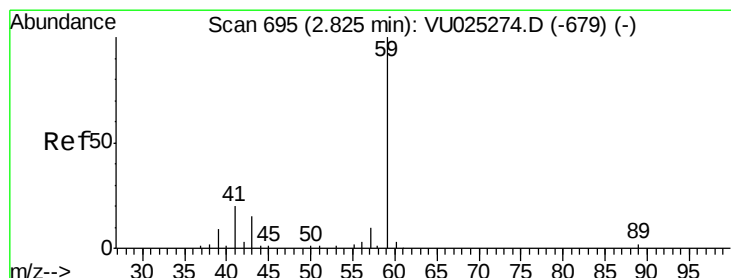
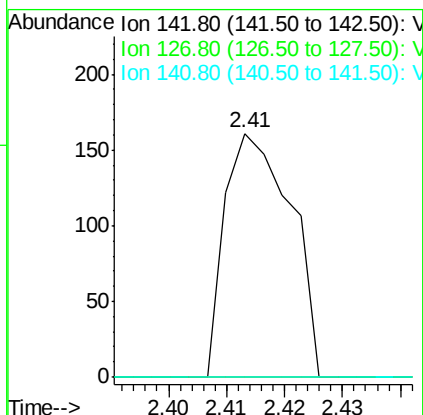
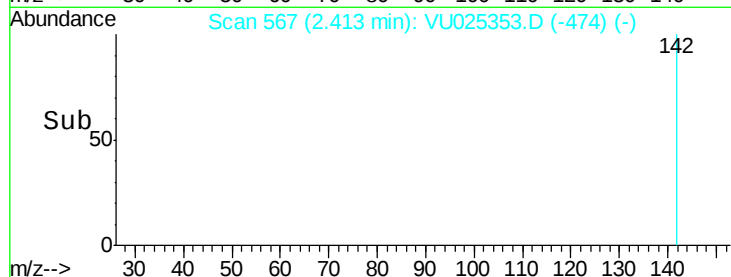
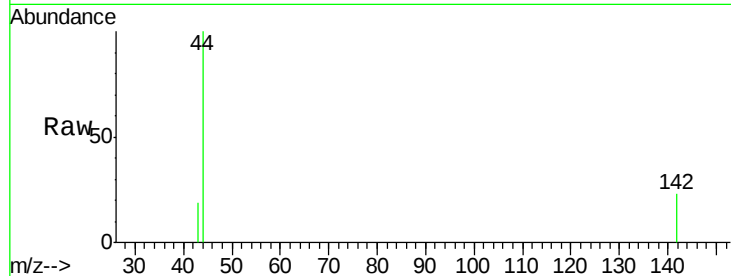




#10
Methvl Iodide
Concen: 7.75 ug/l
RT: 2.41 min Scan# 567
Delta R.T. 0.00 min
Lab File: VU025353.D
Acq: 12 Jul 2018 20:46

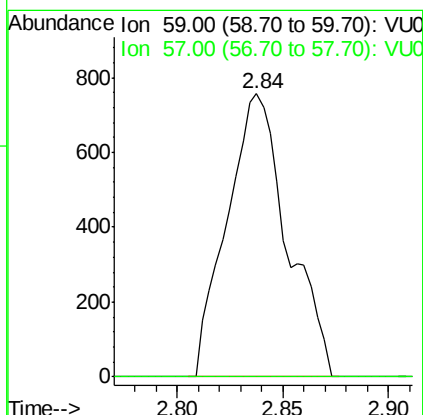
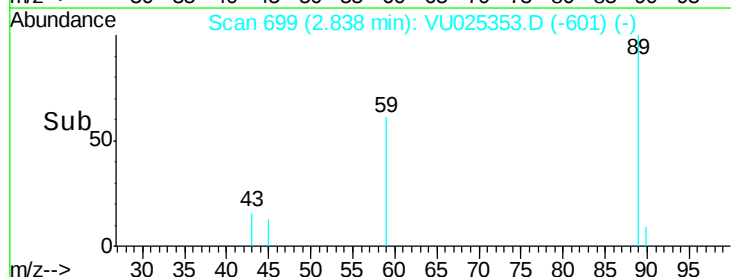
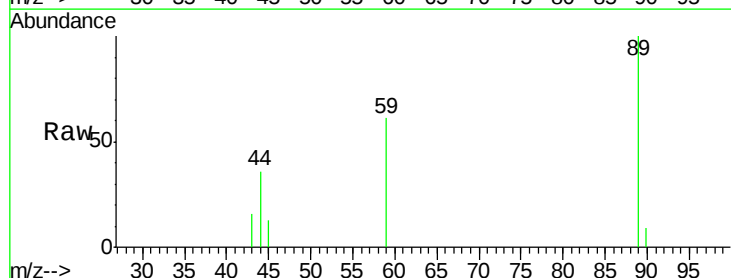
Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#08

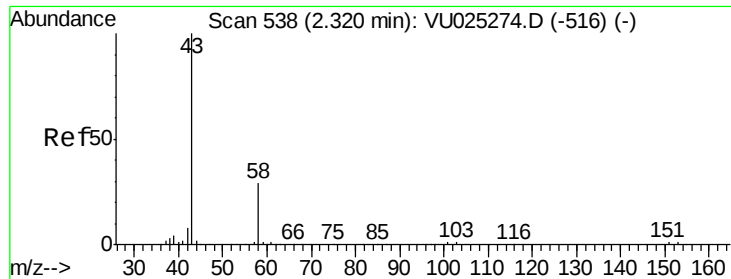
Tot Ion:142 Resp: 127
Ion Ratio Lower Upper
142 100
127 0.0 36.5 54.7#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 2.33 ug/l
RT: 2.84 min Scan# 699
Delta R.T. 0.01 min
Lab File: VU025353.D
Acq: 12 Jul 2018 20:46

Tgt Ion: 59 Resp: 1504
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#16

Acetone

Concen: 12.49 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025353.D

Acq: 12 Jul 2018 20:46

Instrument :

MSVOA_U

ClientSampleId :

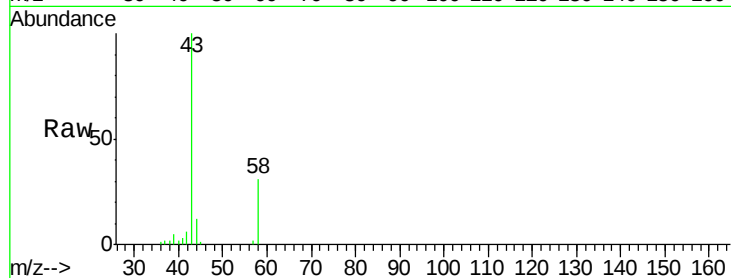
PB111044ZHE#08

Tot Ion: 43 Resp: 11762

Ion Ratio Lower Upper

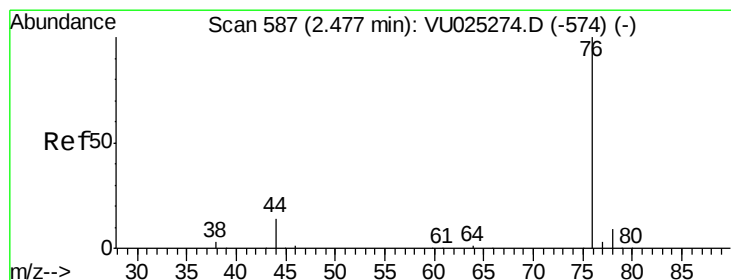
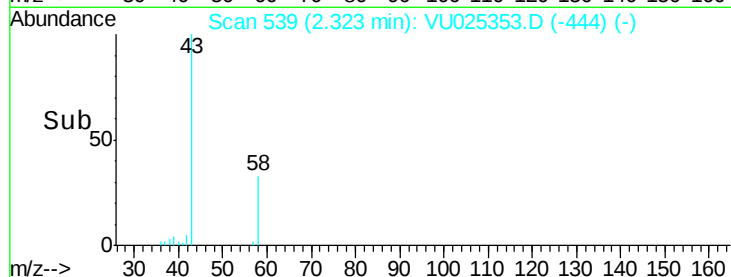
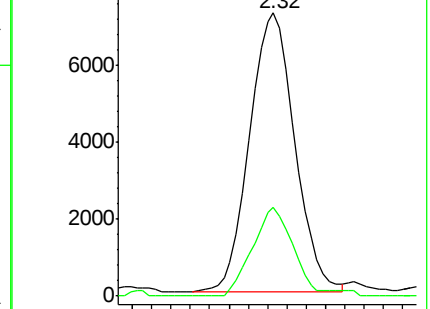
43 100

58 31.7 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#17

Carbon Disulfide

Concen: 1.95 ug/l

RT: 2.48 min Scan# 589

Delta R.T. 0.01 min

Lab File: VU025353.D

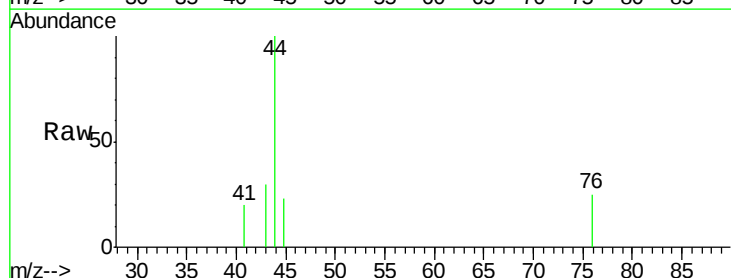
Acq: 12 Jul 2018 20:46

Tgt Ion: 76 Resp: 95

Ion Ratio Lower Upper

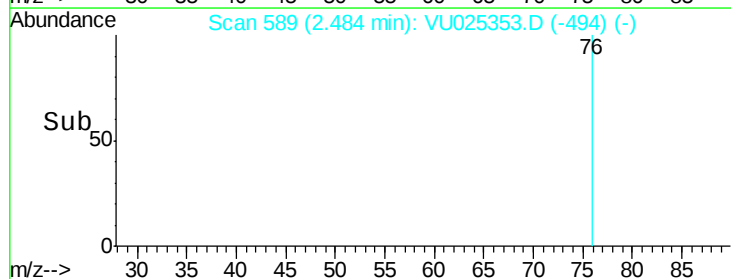
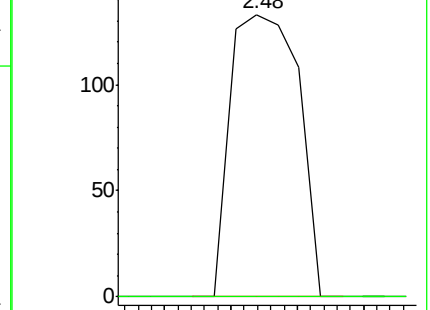
76 100

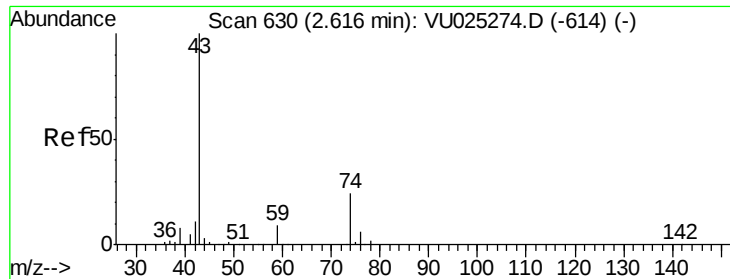
78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

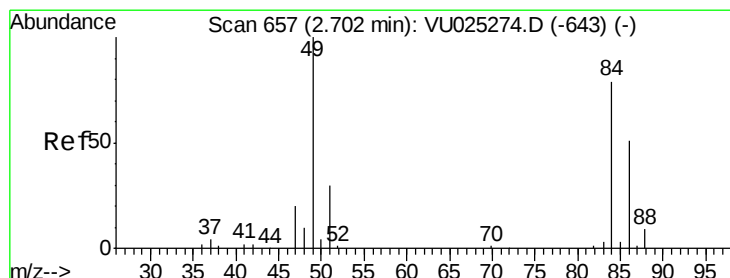
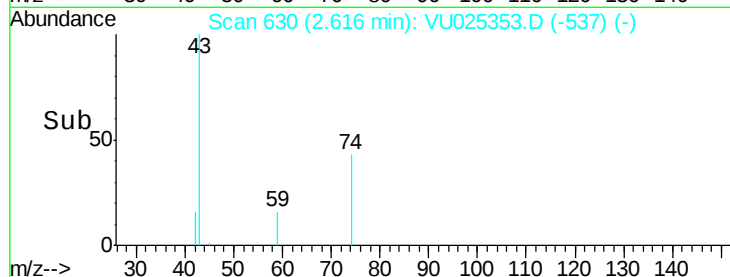
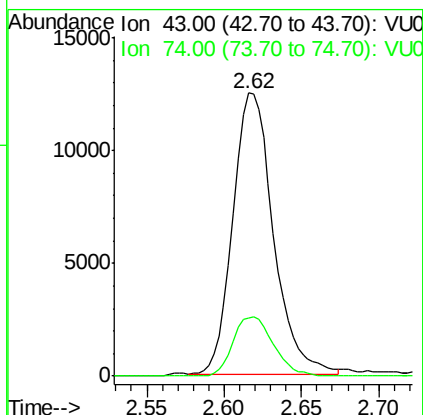
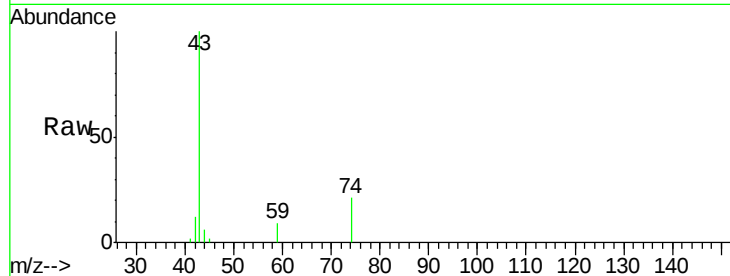




#18
Methyl Acetate
Concen: 7.44 ug/l
RT: 2.62 min Scan# 630
Delta R.T. 0.00 min
Lab File: VU025353.D
Acq: 12 Jul 2018 20:46

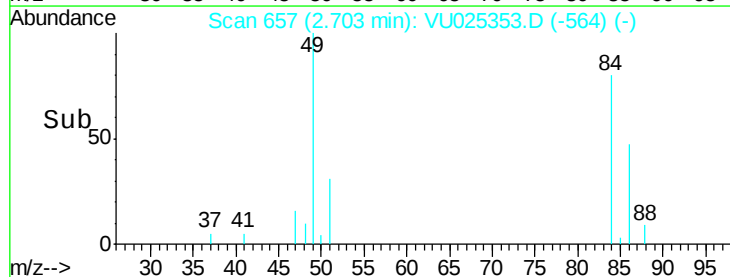
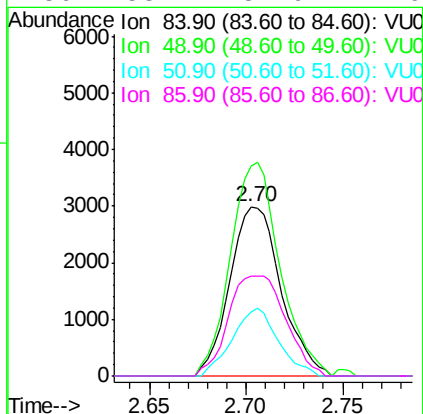
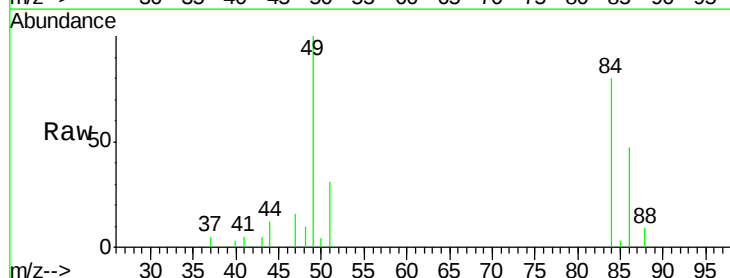
Instrument :
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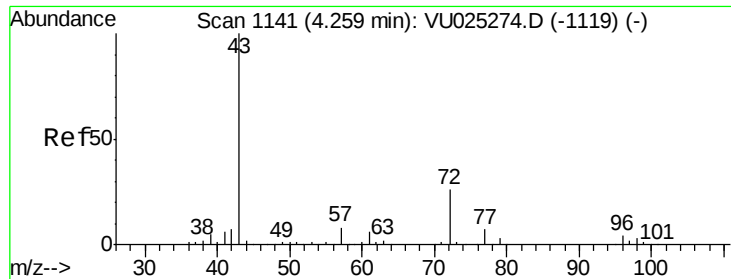
Tot Ion: 43 Resp: 22595
Ion Ratio Lower Upper
43 100
74 21.1 18.5 27.7



#20
Methylene Chloride
Concen: 3.06 ug/l
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025353.D
Acq: 12 Jul 2018 20:46

Tgt Ion: 84 Resp: 5514
Ion Ratio Lower Upper
84 100
49 124.6 101.8 152.6
51 38.2 30.8 46.2
86 58.7 51.9 77.9

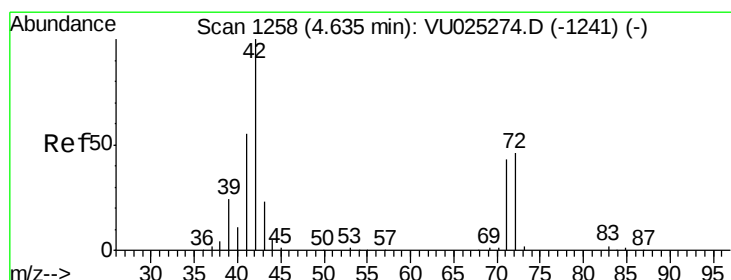
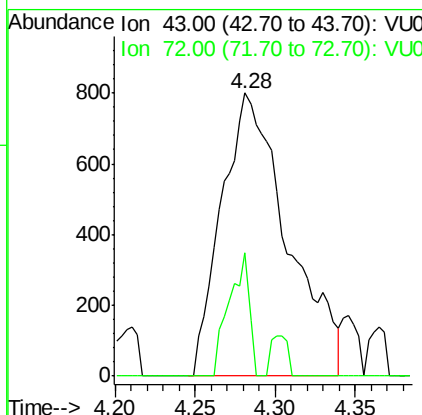
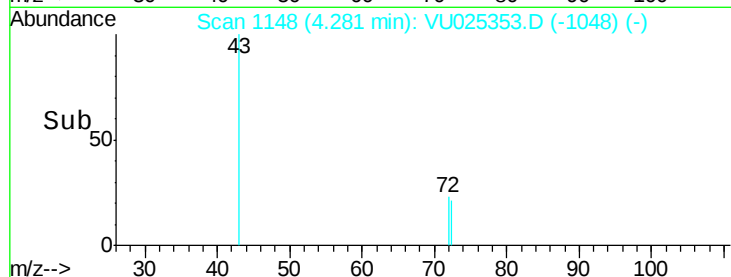
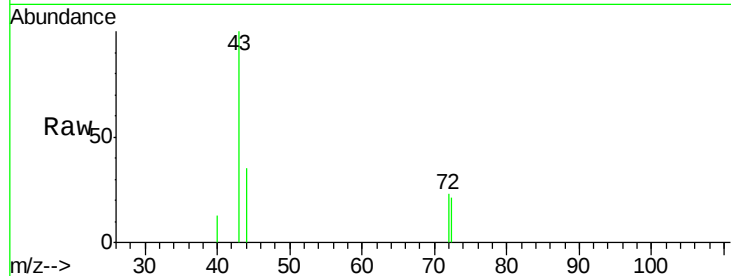




#25
 2-Butanone
 Concen: 1.10 ug/l
 RT: 4.28 min Scan# 1148
 Delta R.T. 0.02 min
 Lab File: VU025353.D
 Acq: 12 Jul 2018 20:46

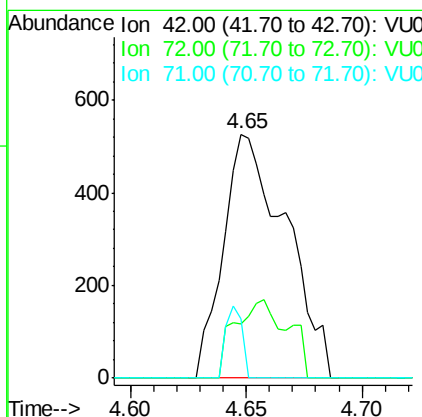
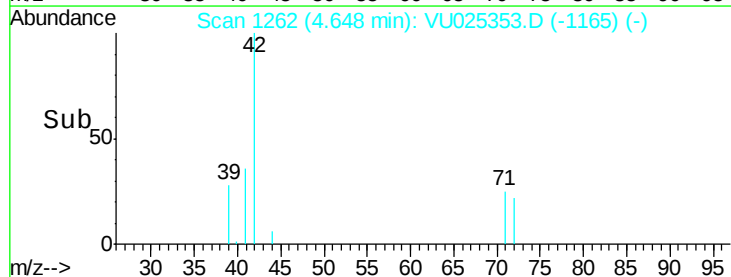
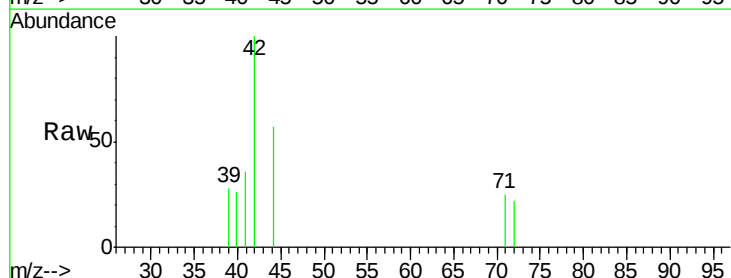
Instrument :
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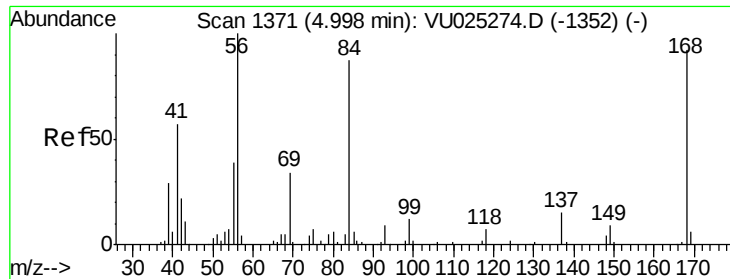
Tot Ion: 43 Resp: 2269
 Ion Ratio Lower Upper
 43 100
 72 43.5 21.0 31.4#



#29
 Tetrahydrofuran
 Concen: 0.80 ug/l
 RT: 4.65 min Scan# 1262
 Delta R.T. 0.01 min
 Lab File: VU025353.D
 Acq: 12 Jul 2018 20:46

Tgt Ion: 42 Resp: 984
 Ion Ratio Lower Upper
 42 100
 72 27.2 36.7 55.1#
 71 7.7 33.9 50.9#

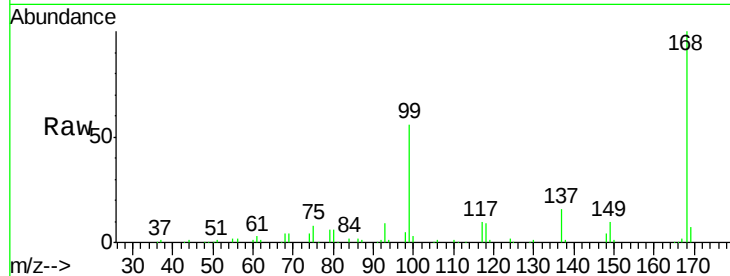




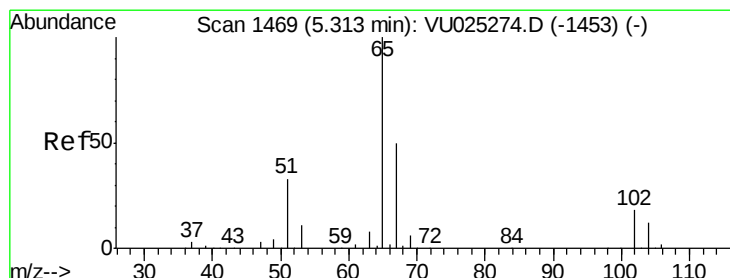
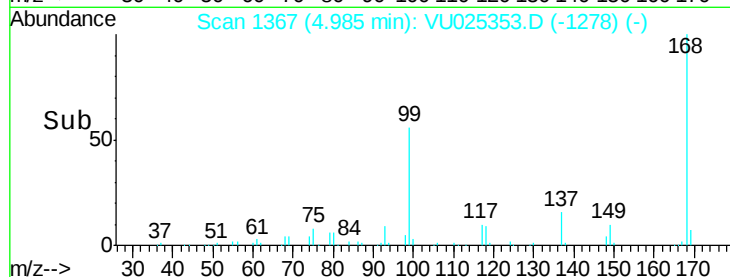
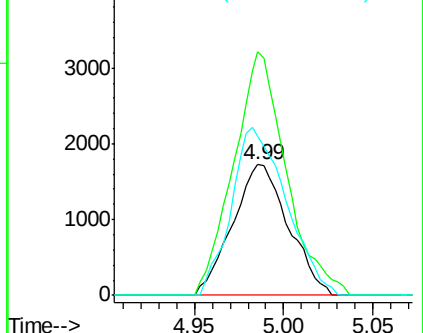
#31
Cyclohexane
Concen: 1.73 ug/l
RT: 4.99 min Scan# 1367
Delta R.T. -0.01 min
Lab File: VU025353.D
Acq: 12 Jul 2018 20:46

Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#08

Tot Ion: 56 Resp: 3754
Ion Ratio Lower Upper
56 100
69 186.0 26.8 40.2#
84 122.0 69.7 104.5#

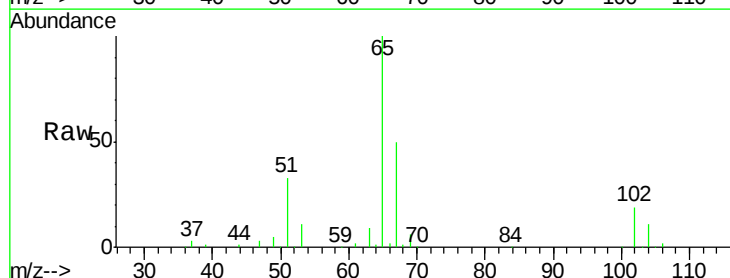


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

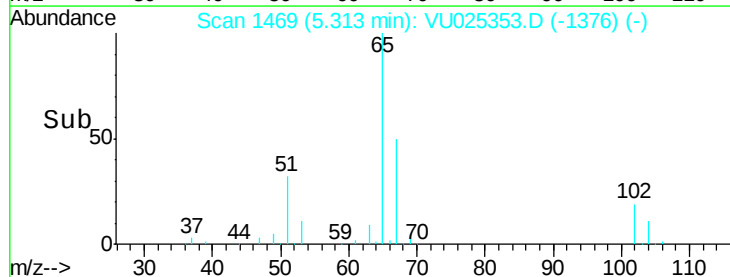
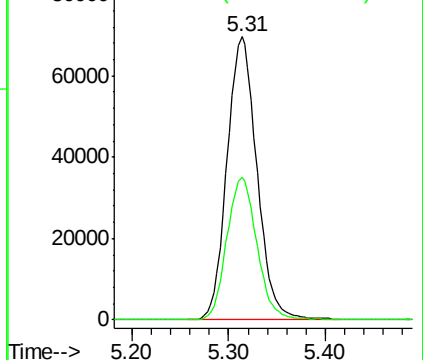


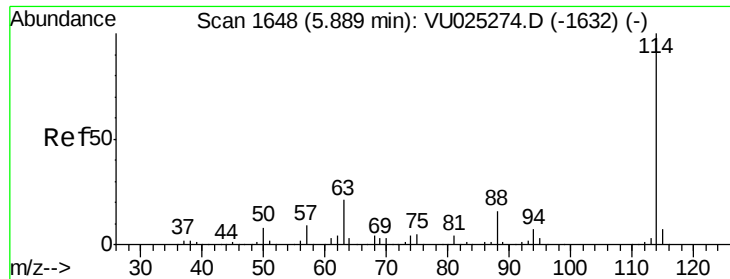
#33
1,2-Dichloroethane-d4
Concen: 50.50 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025353.D
Acq: 12 Jul 2018 20:46

Tgt Ion: 65 Resp: 149748
Ion Ratio Lower Upper
65 100
67 50.5 0.0 103.6



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU025353.D

Acq: 12 Jul 2018 20:46

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#08

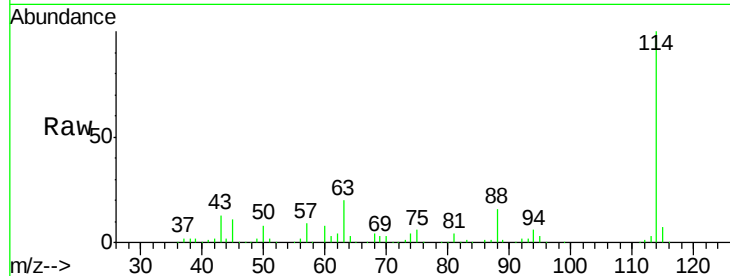
Tot Ion:114 Resp: 302819

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.6

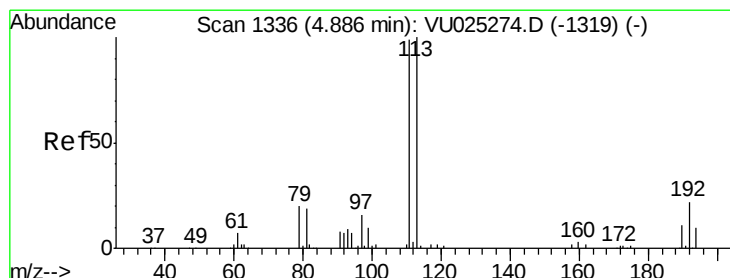
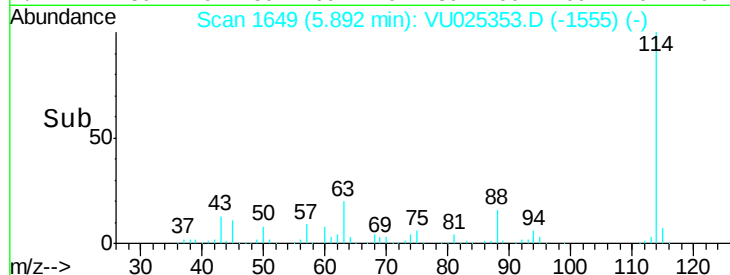
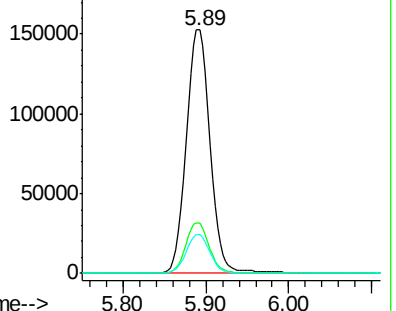
88 16.0 0.0 32.4



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: 44.89 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU025353.D

Acq: 12 Jul 2018 20:46

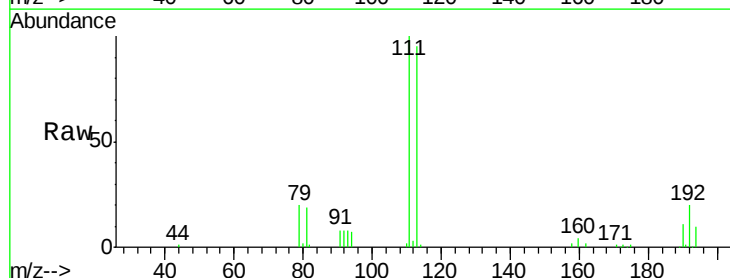
Tgt Ion:113 Resp: 114683

Ion Ratio Lower Upper

113 100

111 103.4 81.7 122.5

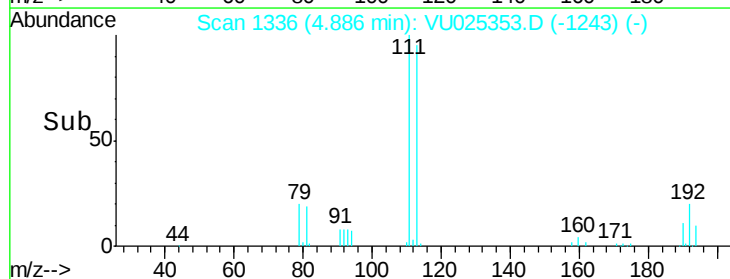
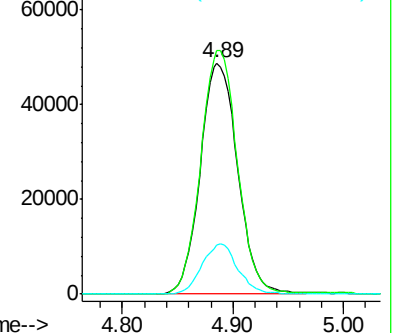
192 20.8 17.1 25.7

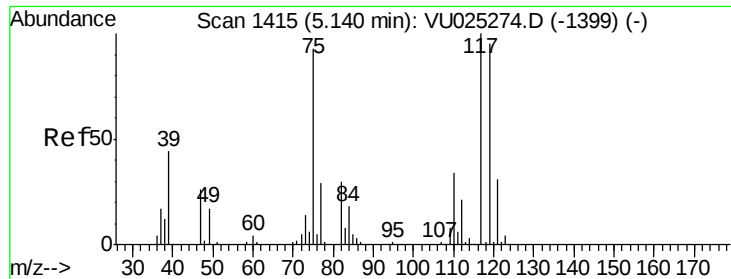


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

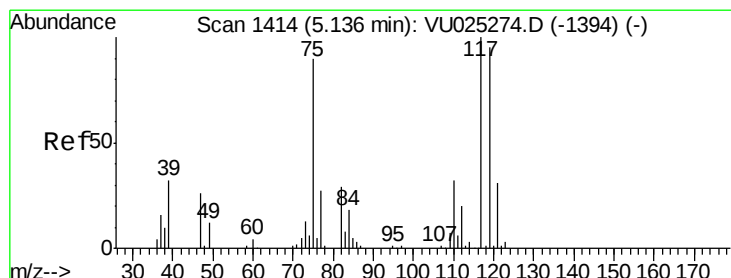
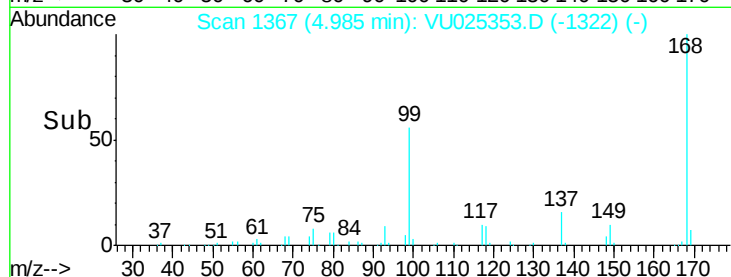
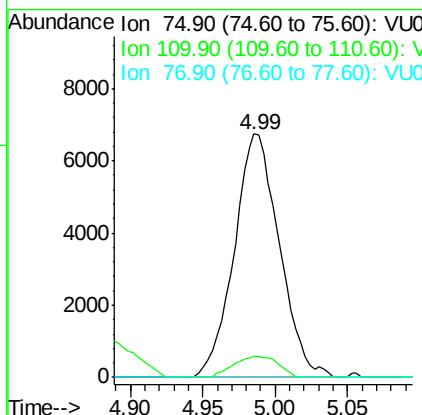
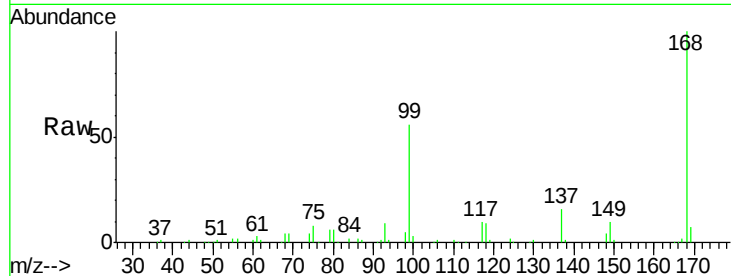




#36
 1,1-Dichloropropene
 Concen: 4.33 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU025353.D
 Acq: 12 Jul 2018 20:46

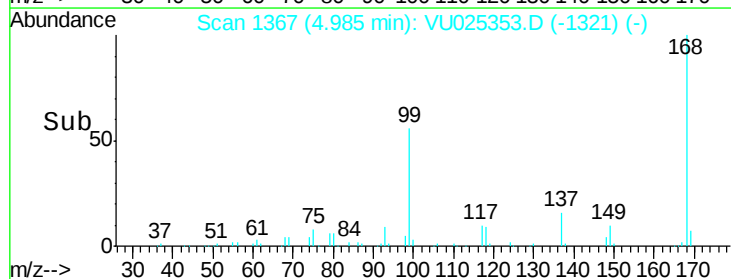
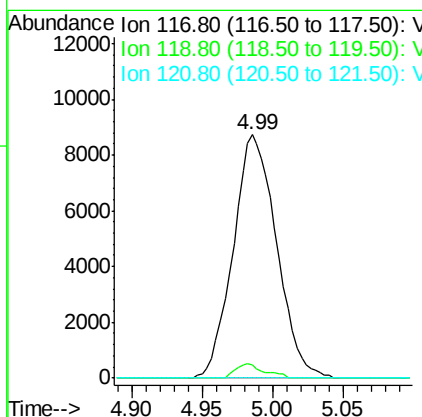
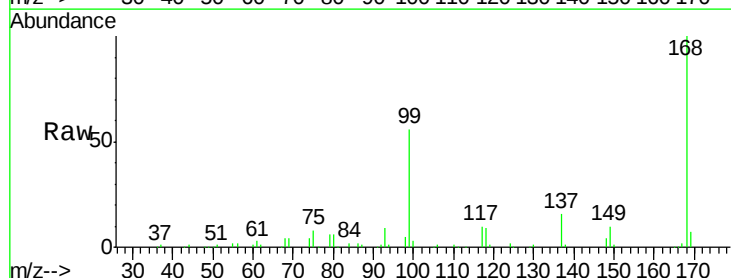
Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044ZHE#08

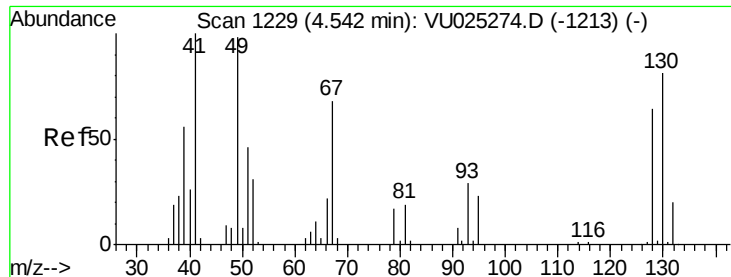
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.6	52.9#
77	0.0	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 5.19 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU025353.D
 Acq: 12 Jul 2018 20:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	75.7	113.5#
121	0.0	24.6	36.8#

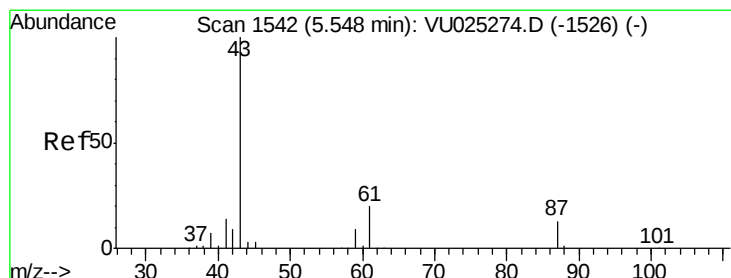
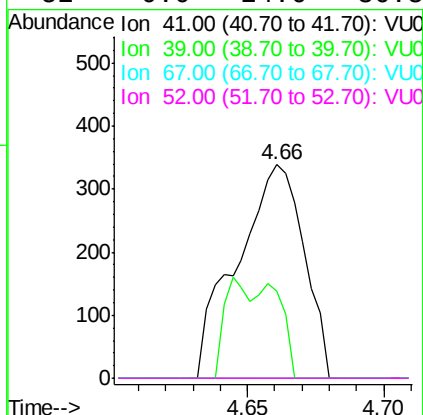
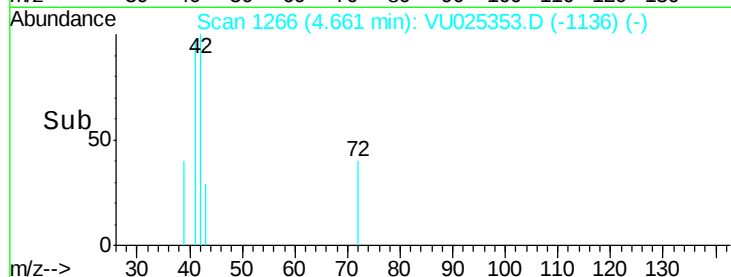
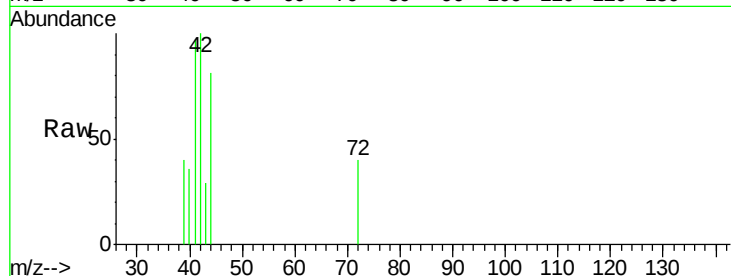




#41
Methacrylonitrile
Concen: 0.28 ug/l
RT: 4.66 min Scan# 1266
Delta R.T. 0.12 min
Lab File: VU025353.D
Acq: 12 Jul 2018 20:46

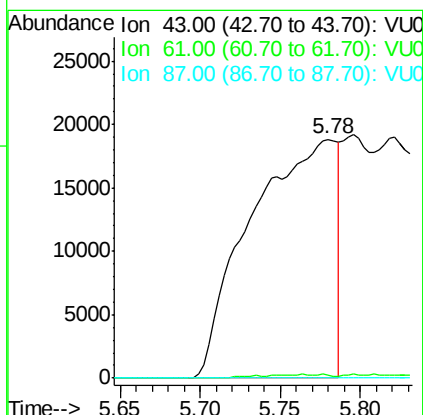
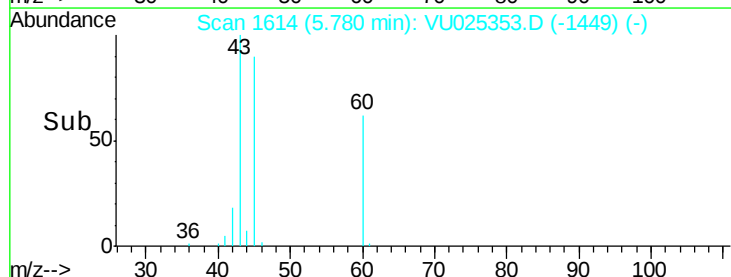
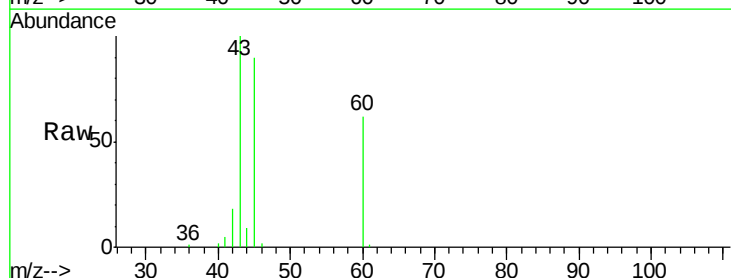
Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#08

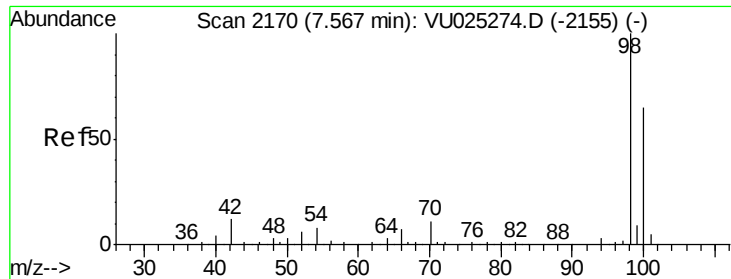
Tot Ion: 41 Resp: 577
Ion Ratio Lower Upper
41 100
39 18.2 44.4 66.6#
67 0.0 56.0 84.0#
52 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 11.63 ug/l
RT: 5.78 min Scan# 1614
Delta R.T. 0.23 min
Lab File: VU025353.D
Acq: 12 Jul 2018 20:46

Tgt Ion: 43 Resp: 69953
Ion Ratio Lower Upper
43 100
61 0.0 15.5 23.3#
87 0.0 10.6 16.0#





#50

Toluene-d8

Concen: 48.84 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU025353.D

Acq: 12 Jul 2018 20:46

Instrument :

MSVOA_U

ClientSampleId :

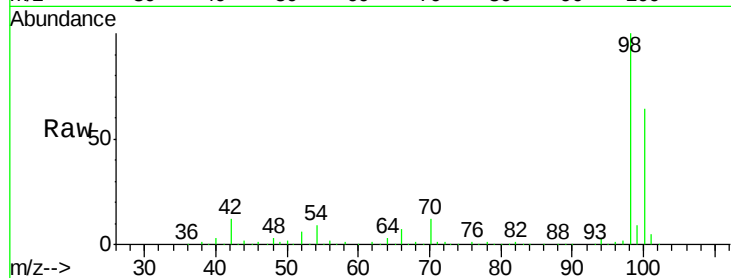
PB111044ZHE#08

Tot Ion: 98 Resp: 427232

Ion Ratio Lower Upper

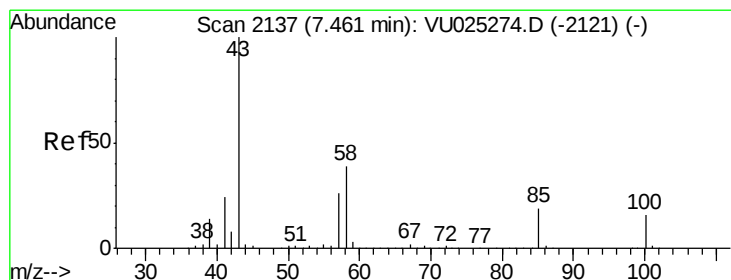
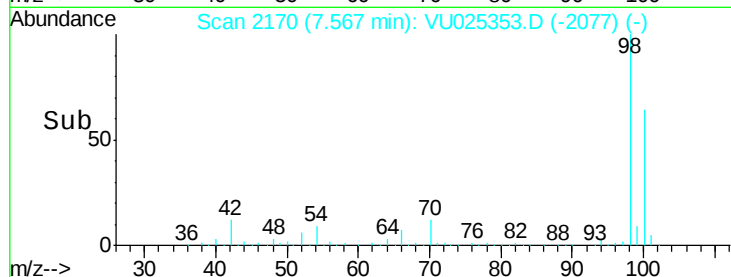
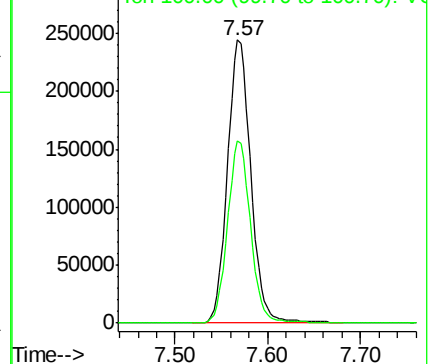
98 100

100 63.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU



#51

4-Methyl-2-Pentanone

Concen: 0.27 ug/l

RT: 7.46 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU025353.D

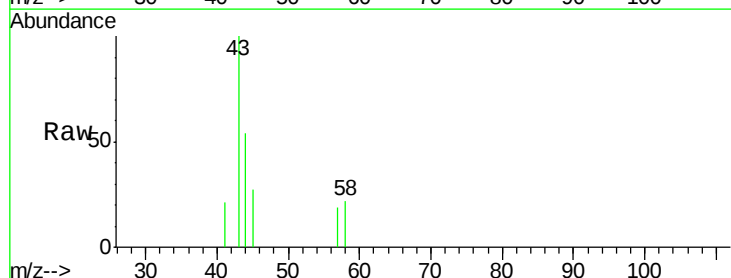
Acq: 12 Jul 2018 20:46

Tgt Ion: 43 Resp: 1054

Ion Ratio Lower Upper

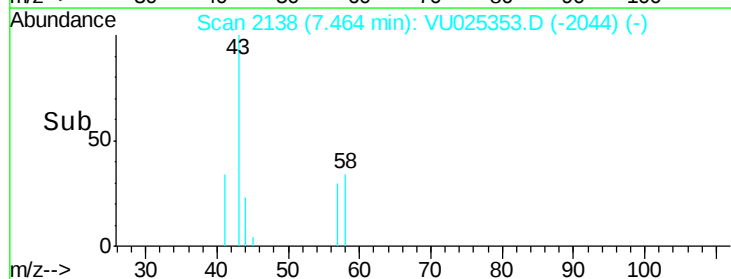
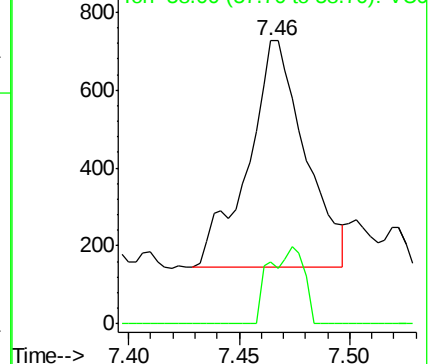
43 100

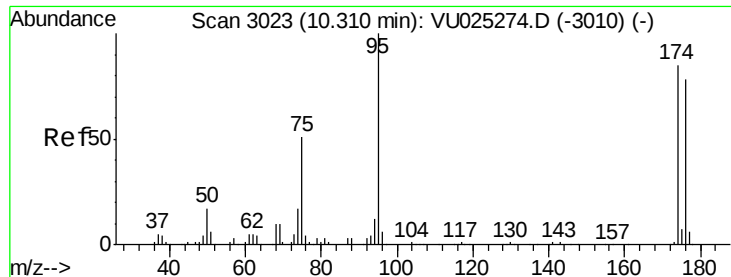
58 20.6 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

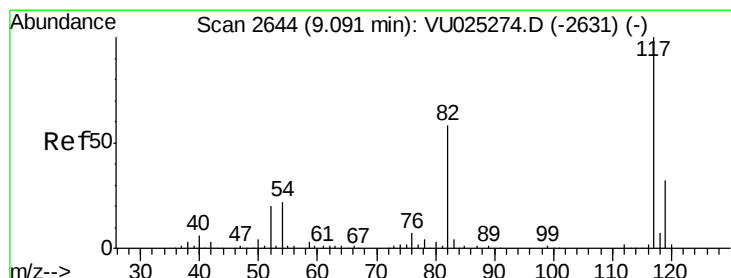
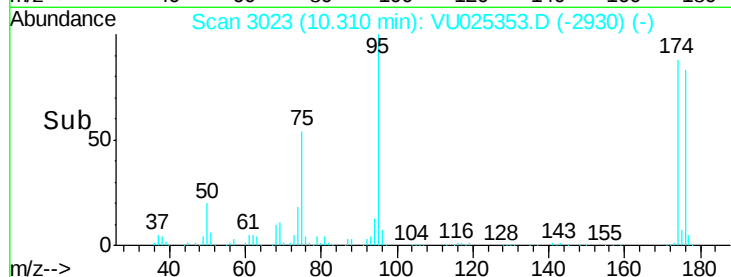
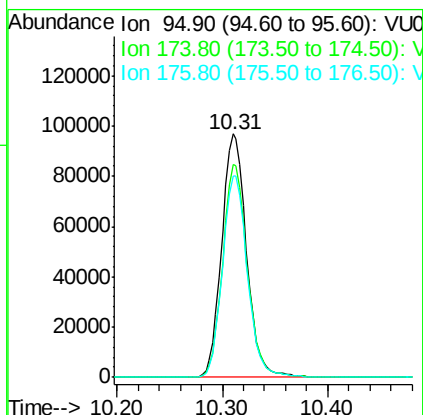
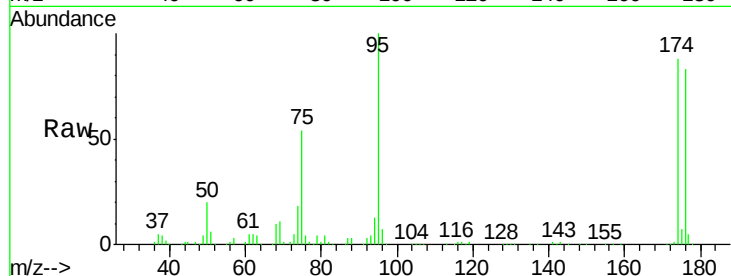




#62
4-Bromofluorobenzene
Concen: 44.80 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025353.D
Acq: 12 Jul 2018 20:46

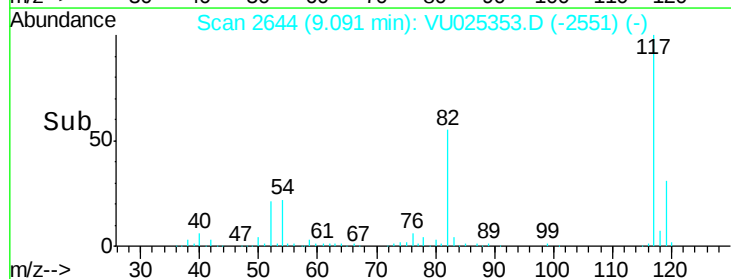
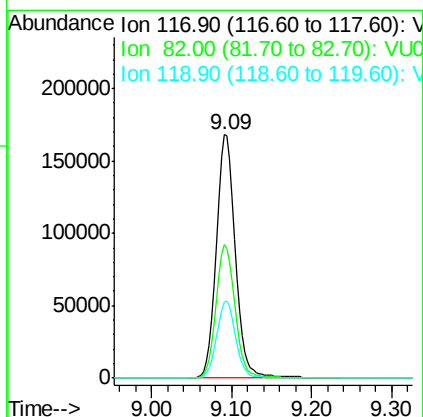
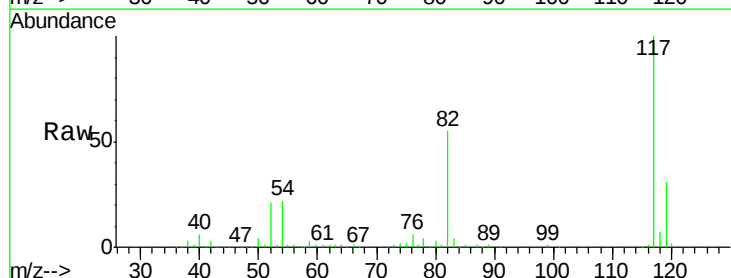
Instrument :
MSVOA_U
ClientSampleId :
PB111044ZHE#08

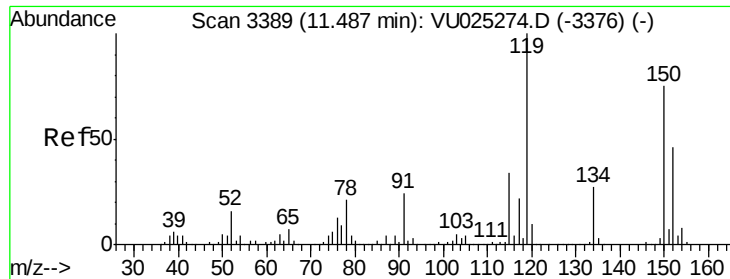
Tot Ion: 95 Resp: 157796
Ion Ratio Lower Upper
95 100
174 87.0 0.0 172.2
176 83.3 0.0 162.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VU025353.D
Acq: 12 Jul 2018 20:46

Tgt Ion: 117 Resp: 279289
Ion Ratio Lower Upper
117 100
82 54.6 46.0 69.0
119 31.3 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025353.D

Acq: 12 Jul 2018 20:46

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#08

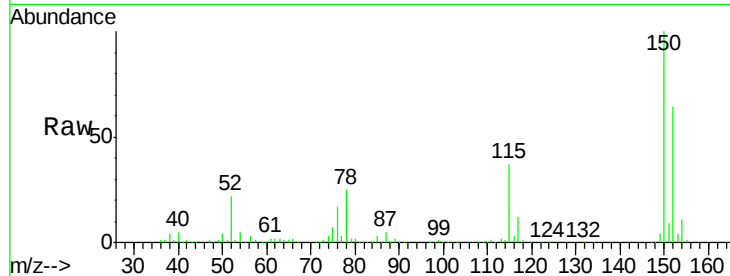
Tot Ion:152 Resp: 145915

Ion Ratio Lower Upper

152 100

115 56.5 40.1 120.3

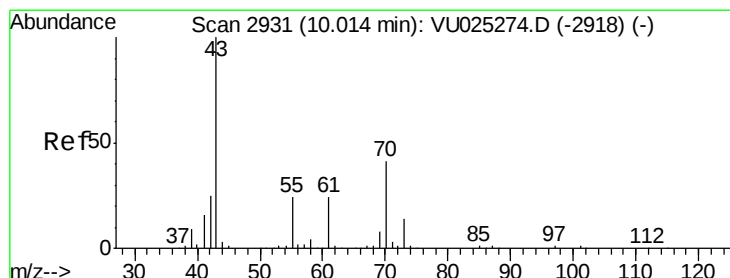
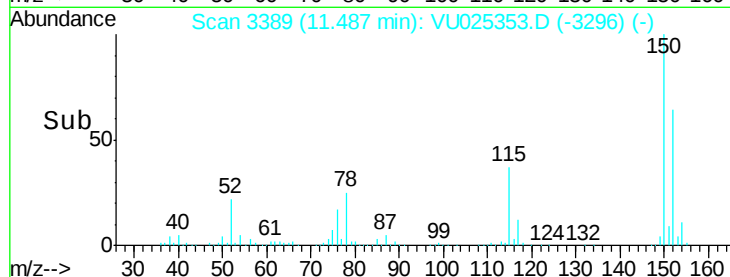
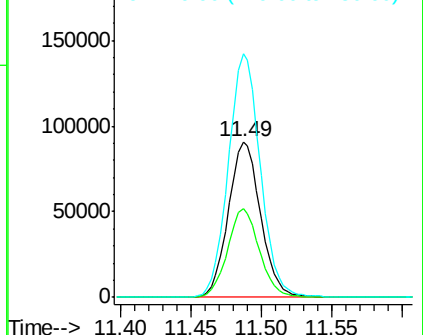
150 155.2 0.0 351.4



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



#74

N-ethyl acetate

Concen: 1.39 ug/l

RT: 9.99 min Scan# 2924

Delta R.T. -0.02 min

Lab File: VU025353.D

Acq: 12 Jul 2018 20:46

Tgt Ion: 43 Resp: 579

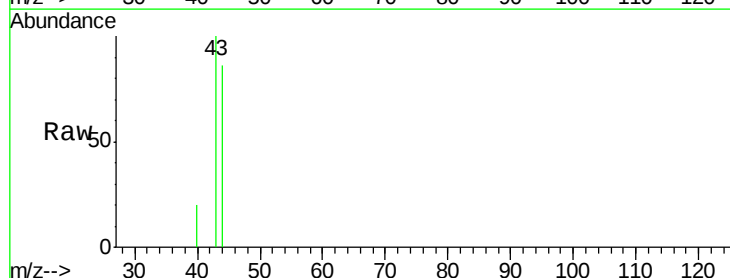
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.2#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#

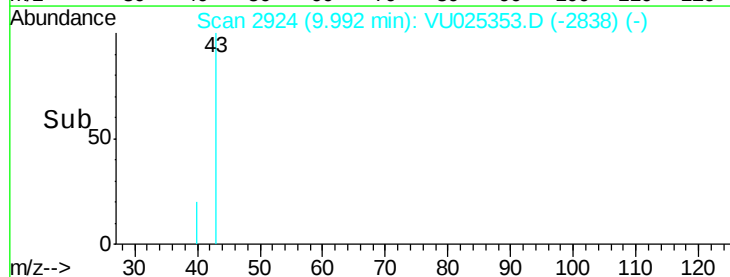
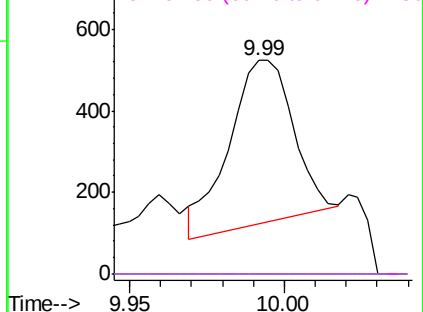


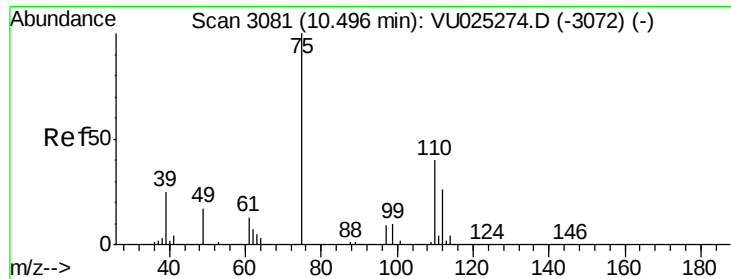
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#76

1,2,3-Trichloropropane

Concen: 28.59 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025353.D

Acq: 12 Jul 2018 20:46

Instrument :

MSVOA_U

ClientSampleId :

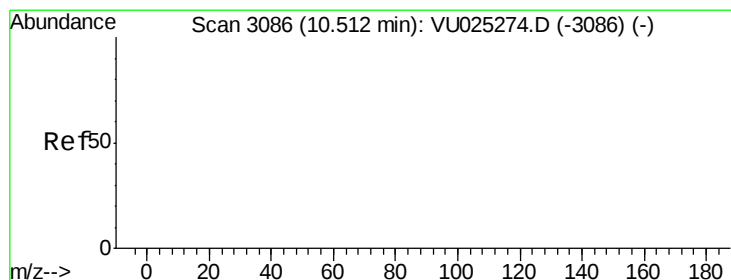
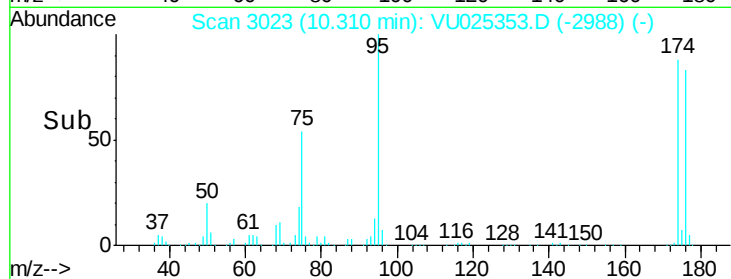
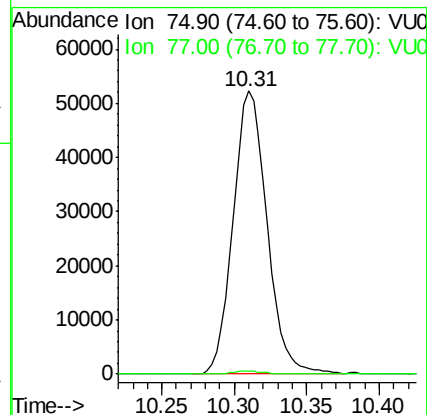
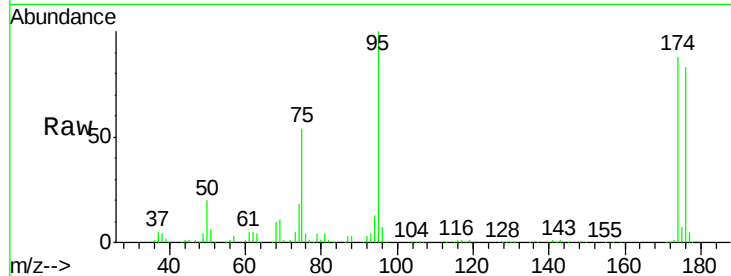
PB111044ZHE#08

Tot Ion: 75 Resp: 84969

Ion Ratio Lower Upper

75 100

77 1.0 20.4 61.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.09 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025353.D

Acq: 12 Jul 2018 20:46

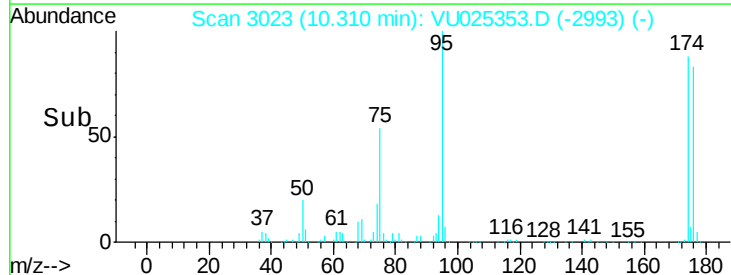
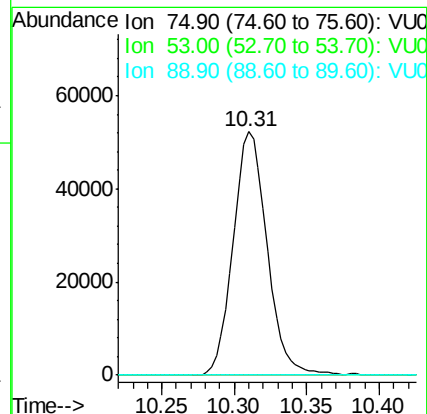
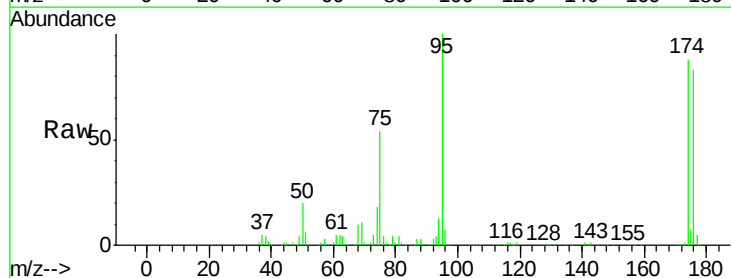
Tgt Ion: 75 Resp: 84969

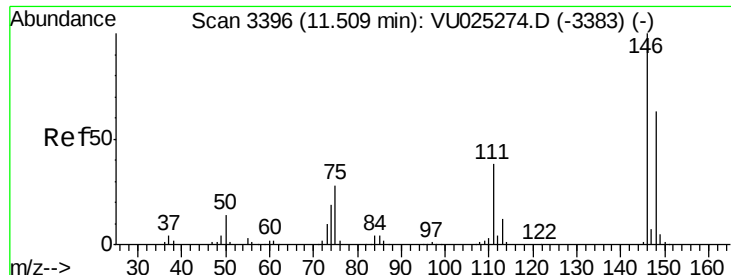
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#88

1,4-Dichlorobenzene

Concen: 1.49 ug/l

RT: 11.50 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VU025353.D

Acq: 12 Jul 2018 20:46

Instrument :

MSVOA_U

ClientSampleId :

PB111044ZHE#08

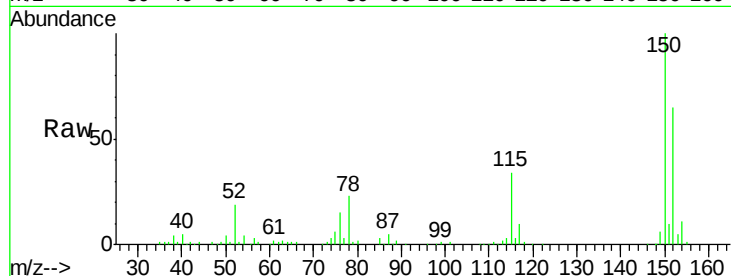
Tot Ion:146 Resp: 20

Ion Ratio Lower Upper

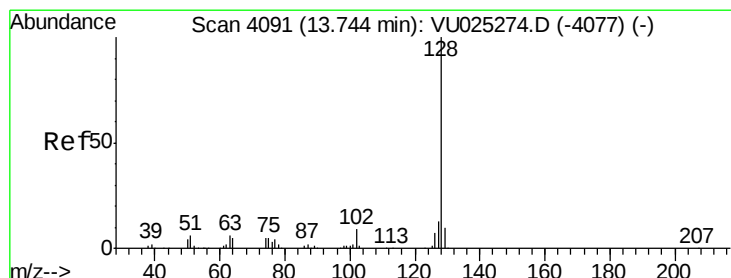
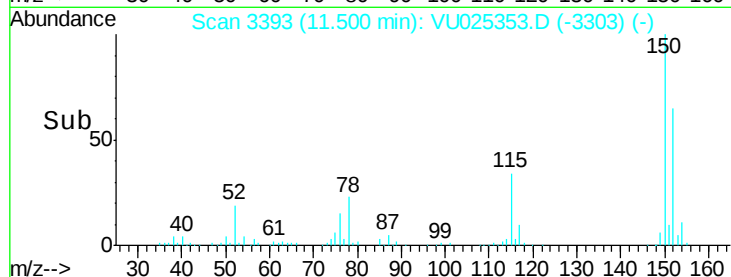
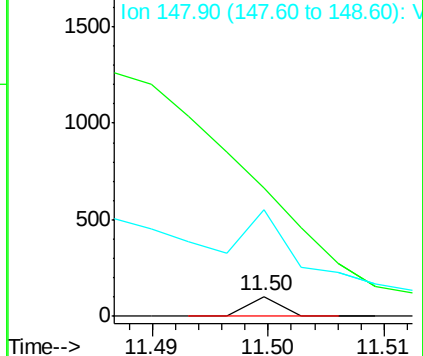
146 100

111 9880.0 19.4 58.1#

148 2725.0 31.7 95.1#



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 2.42 ug/l

RT: 13.79 min Scan# 4104

Delta R.T. 0.04 min

Lab File: VU025353.D

Acq: 12 Jul 2018 20:46

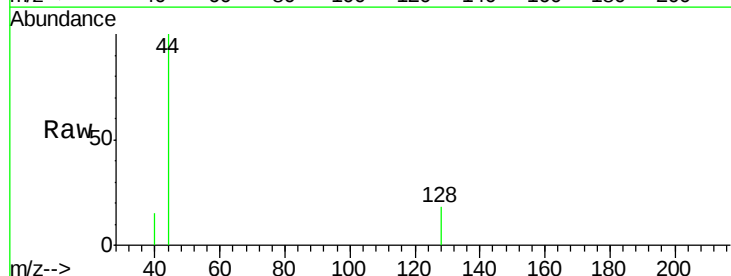
Tgt Ion:128 Resp: 69

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.3 12.5#



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

