

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE111616\
 Data File : BE092548.D
 Acq On : 17 Nov 2016 00:04
 Operator : UM/SJ
 Sample : H5636-08
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C19023041

Quant Time: Nov 17 04:53:34 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE111616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 16 15:43:18 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	7930	5.00	ng	-0.02
7) Naphthalene-d8	10.93	136	40604	5.00	ng	0.00
12) Acenaphthene-d10	14.80	164	31631	5.00	ng	0.00
18) Phenanthrene-d10	17.56	188	58756	5.00	ng	0.00
24) Chrysene-d12	21.72	240	88105	5.00	ng	0.00
31) Perylene-d12	24.08	264	72424	5.00	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	8948	6.68	ng	-0.02
5) Phenol-d6	7.31	99	7522	3.43	ng	-0.05
8) Nitrobenzene-d5	9.32	82	14766	5.59	ng	-0.05
13) 2,4,6-Tribromophenol	16.28	330	11863	16.72	ng	-0.02
14) 2-Fluorobiphenyl	13.41	172	39336	5.10	ng	-0.02
26) Terphenyl-d14	20.16	244	65468	6.50	ng	-0.02

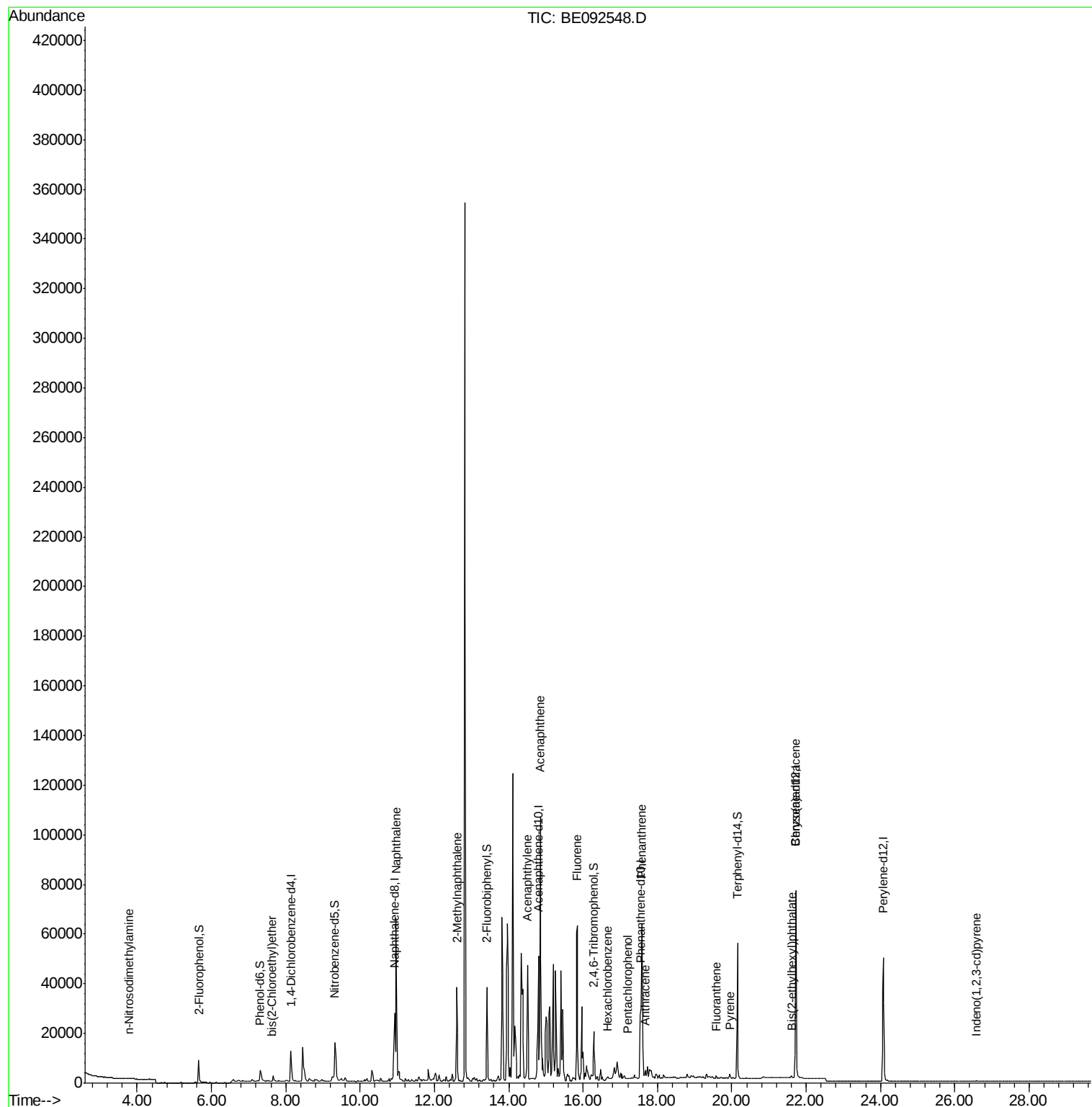
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.52	88	5	Below Cal	#	19
3) n-Nitrosodimethylamine	3.79	42	38	0.21 ng	#	2
6) bis(2-Chloroethyl)ether	7.61	93	40	0.06 ng	#	1
9) Naphthalene	10.97	128	105015	12.53 ng		97
11) 2-Methylnaphthalene	12.60	142	28628	5.36 ng		94
15) Acenaphthylene	14.51	152	35866	0.81 ng	#	1
16) Acenaphthene	14.85	154	21877	3.04 ng	#	68
17) Fluorene	15.84	166	49008	5.50 ng	#	96
19) Hexachlorobenzene	16.66	284	608	0.26 ng	#	1
20) Pentachlorophenol	17.21	266	17	0.06 ng	#	69
21) Phenanthrene	17.58	178	77642	5.91 ng		98
22) Anthracene	17.67	178	3691	0.30 ng	#	77
23) Fluoranthene	19.58	202	1382	0.02 ng	#	76
25) Pyrene	19.95	202	2664	0.04 ng	#	60
27) Benzo(a)anthracene	21.72	228	1062	0.11 ng	#	17
29) Bis(2-ethylhexyl)phthalate	21.61	149	1352	0.35 ng	#	56
30) Indeno(1,2,3-cd)pyrene	26.58	276	331	0.05 ng	#	89

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. -0.02 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

Instrument :

BNA_E

ClientSampleId :

C19023041

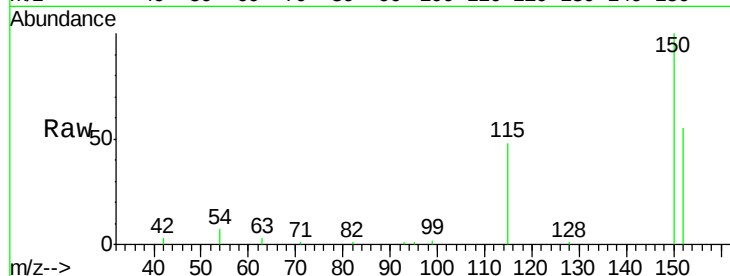
Tgt Ion:152 Resp: 7930

Ion Ratio Lower Upper

152 100

150 182.9 106.0 159.0#

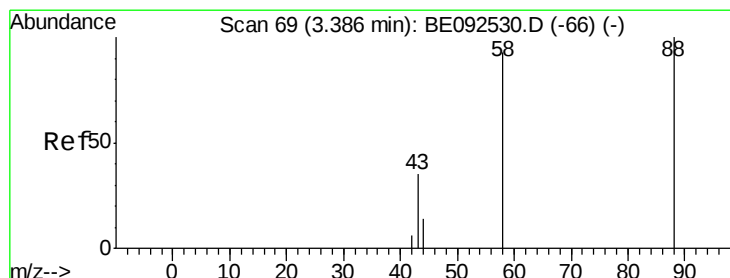
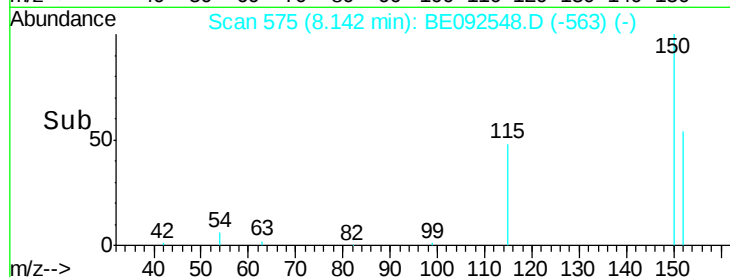
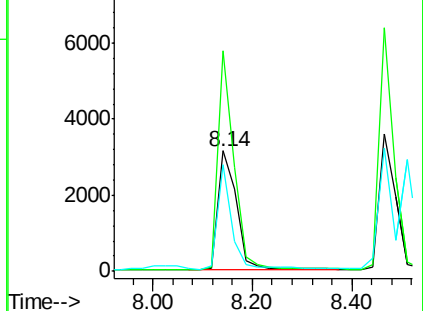
115 88.4 31.2 46.8#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: Below Cal

RT: 3.52 min Scan# 81

Delta R.T. 0.14 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

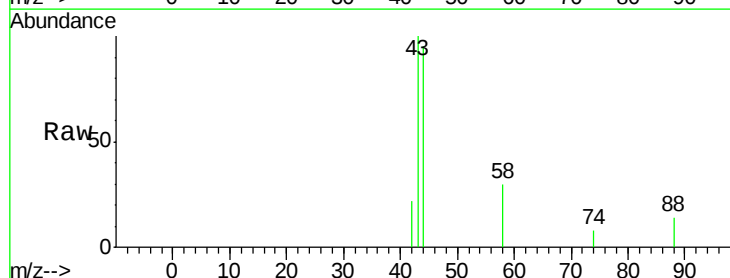
Tgt Ion: 88 Resp: 5

Ion Ratio Lower Upper

88 100

58 0.0 63.6 95.4#

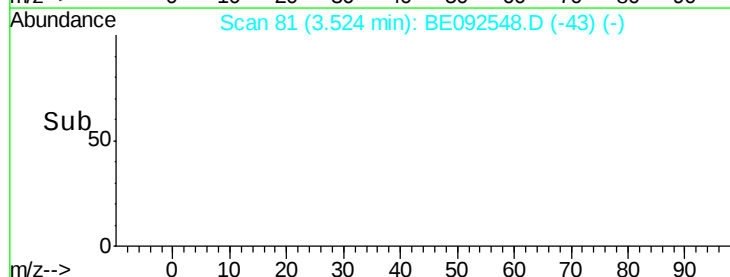
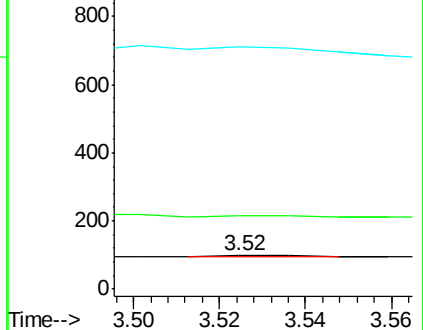
43 0.0 28.0 42.0#

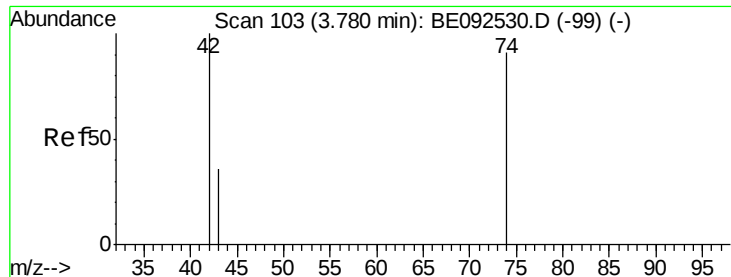


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.21 ng

RT: 3.79 min Scan# 104

Delta R.T. 0.01 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

Instrument :

BNA_E

ClientSampleId :

C19023041

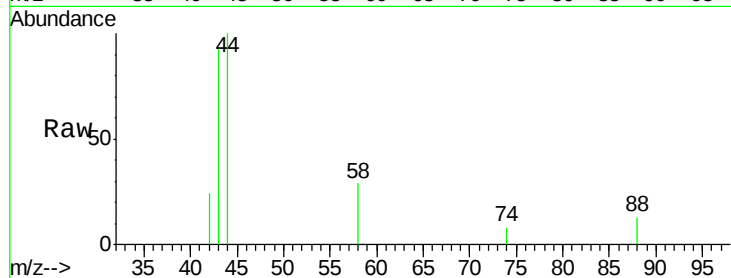
Tgt Ion: 42 Resp: 38

Ion Ratio Lower Upper

42 100

74 0.0 86.0 129.0#

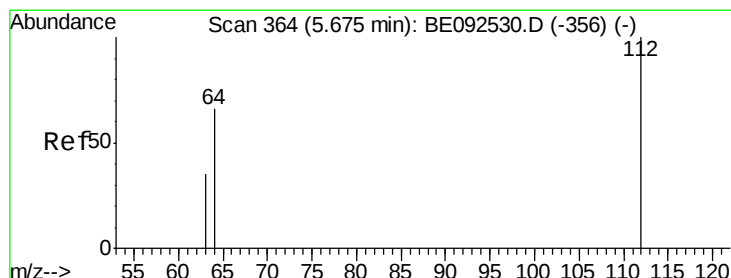
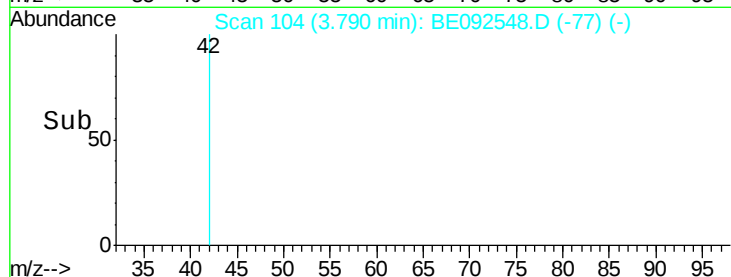
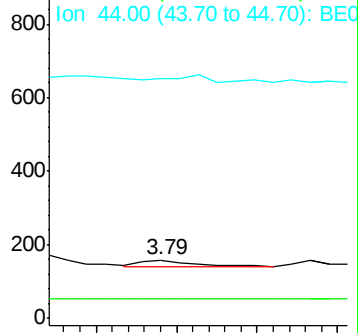
44 0.0 5.1 7.7#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 6.68 ng

RT: 5.65 min Scan# 360

Delta R.T. -0.02 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

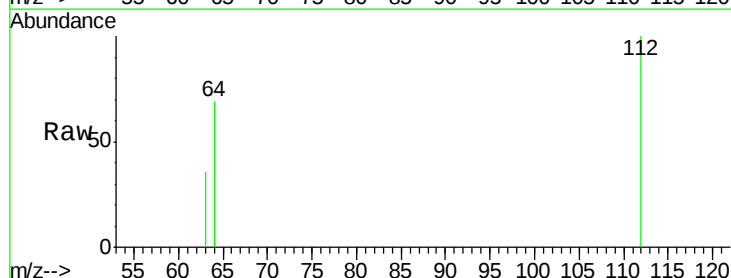
Tgt Ion: 112 Resp: 8948

Ion Ratio Lower Upper

112 100

64 68.1 53.5 80.3

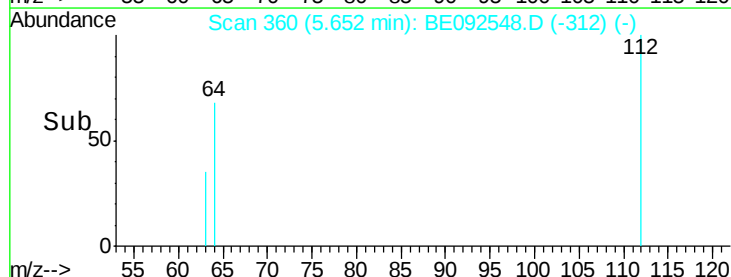
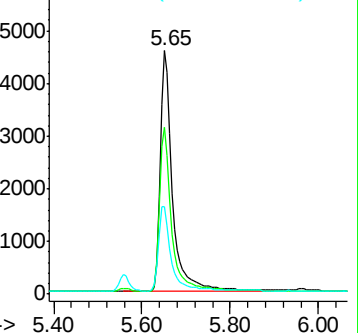
63 35.9 27.9 41.9



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 3.43 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.05 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

Instrument :

BNA_E

ClientSampled :

C19023041

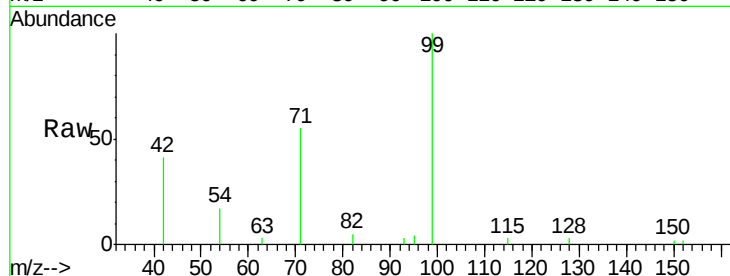
Tgt Ion: 99 Resp: 7522

Ion Ratio Lower Upper

99 100

42 22.5 16.0 24.0

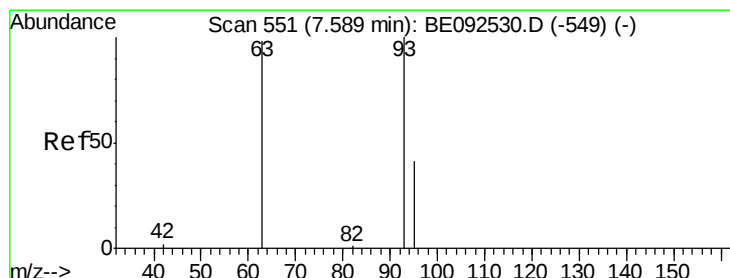
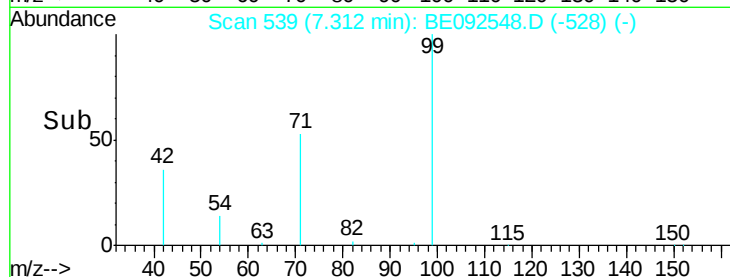
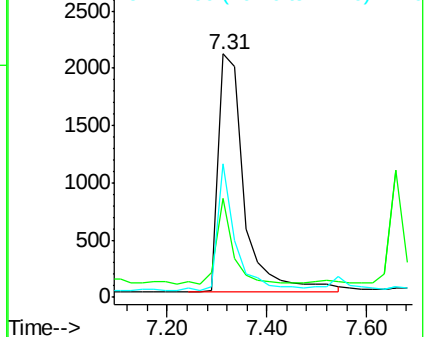
71 36.0 30.6 45.8



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.06 ng

RT: 7.61 min Scan# 552

Delta R.T. 0.02 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

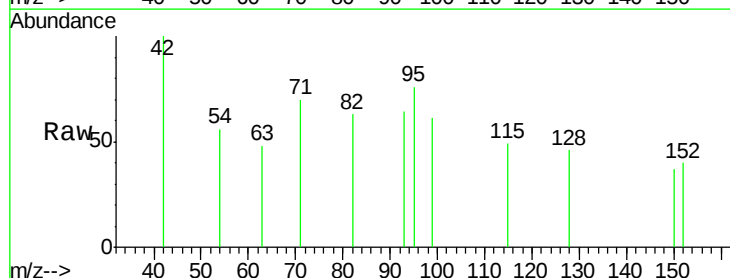
Tgt Ion: 93 Resp: 40

Ion Ratio Lower Upper

93 100

63 0.0 71.6 107.4#

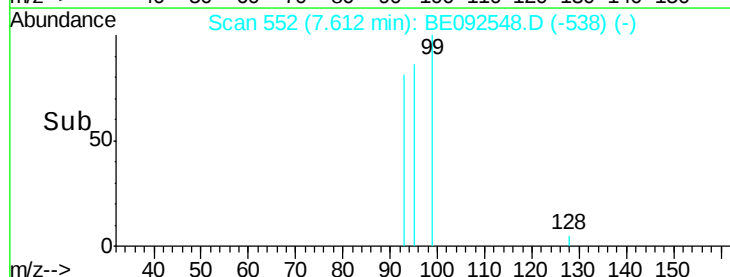
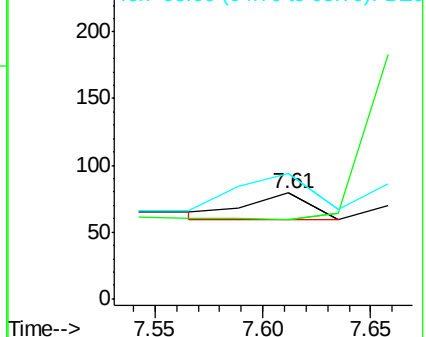
95 162.5 24.0 36.0#

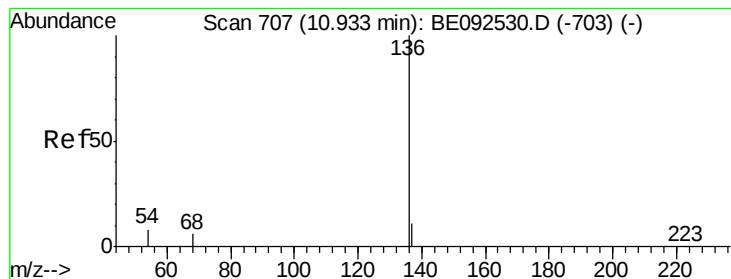


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.93 min Scan# 707

Delta R.T. -0.00 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

Instrument :

BNA_E

ClientSampleId :

C19023041

Tgt Ion:136 Resp: 40604

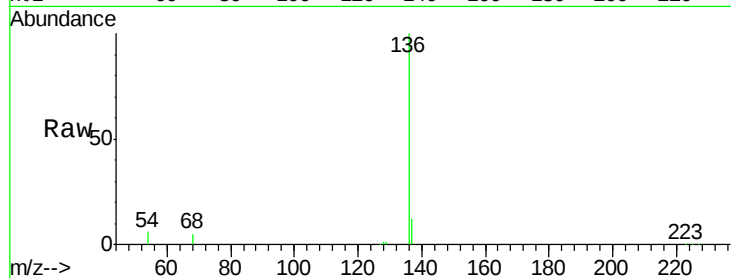
Ion Ratio Lower Upper

136 100

137 11.5 8.2 12.4

54 5.8 9.6 14.4#

68 4.7 6.7 10.1#

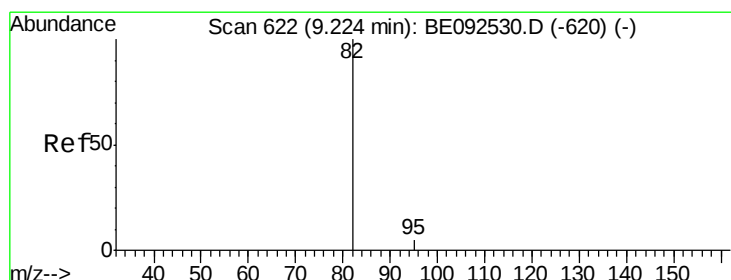
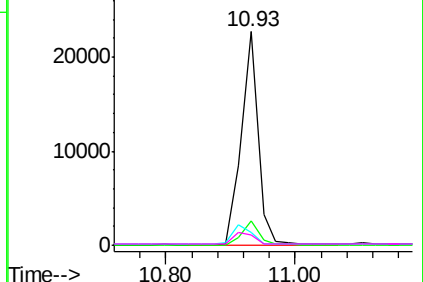
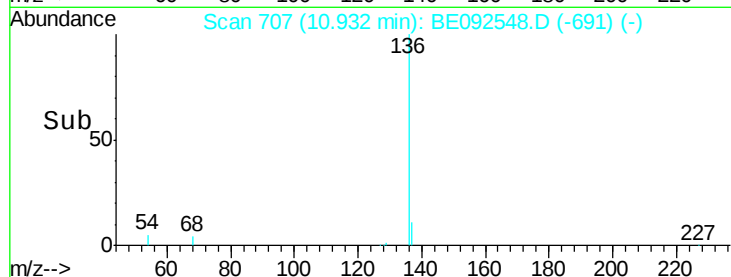


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 5.59 ng

RT: 9.32 min Scan# 626

Delta R.T. -0.05 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

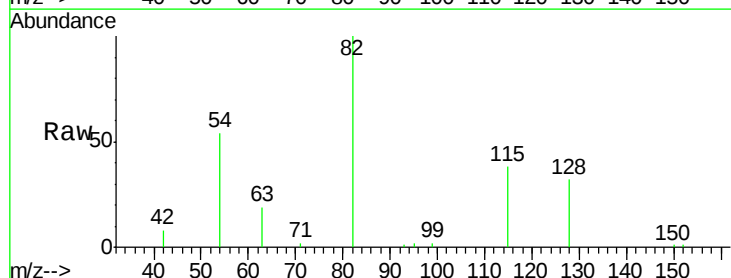
Tgt Ion: 82 Resp: 14766

Ion Ratio Lower Upper

82 100

128 31.8 39.0 58.4#

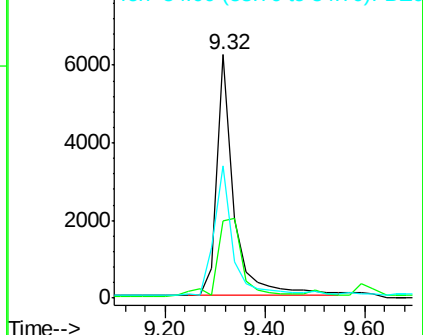
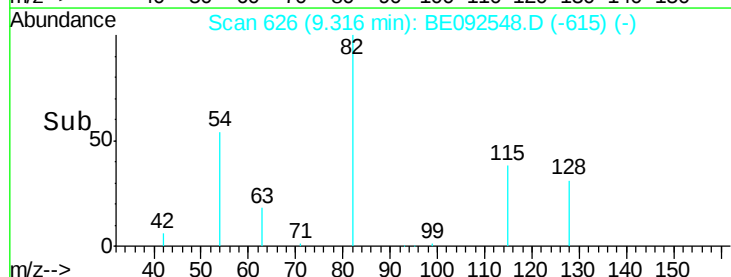
54 54.2 44.8 67.2

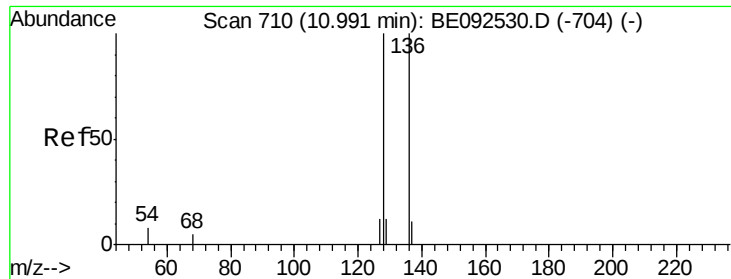


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 12.53 ng

RT: 10.97 min Scan# 709

Delta R.T. -0.02 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

Instrument :

BNA_E

ClientSampleId :

C19023041

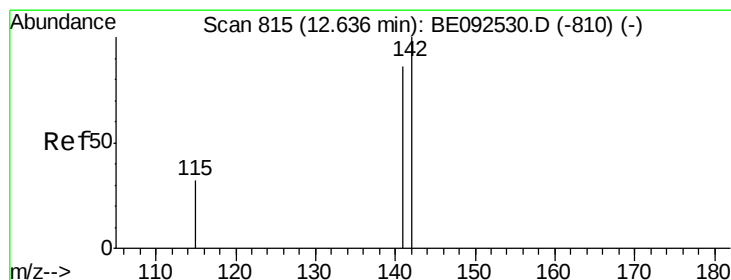
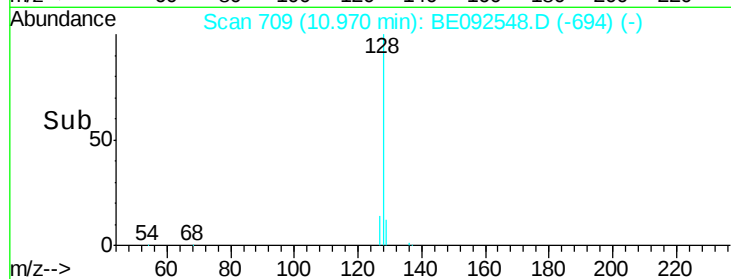
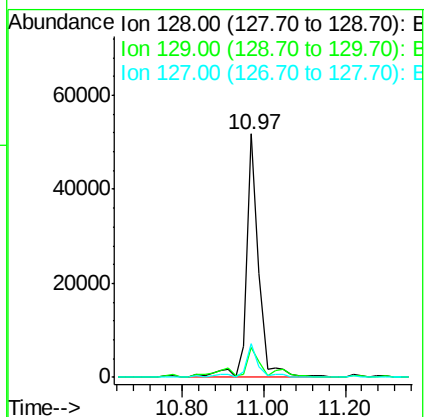
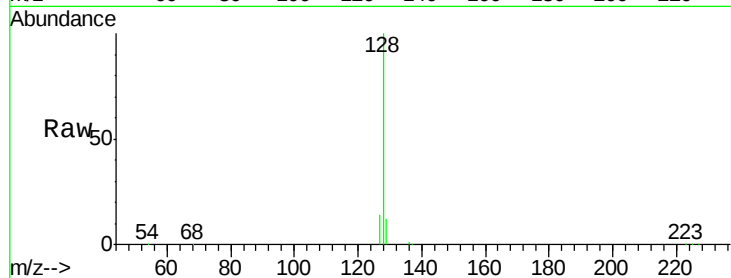
Tgt Ion:128 Resp: 105015

Ion Ratio Lower Upper

128 100

129 12.3 11.2 16.8

127 14.0 11.6 17.4



#11

2-Methylnaphthalene

Concen: 5.36 ng

RT: 12.60 min Scan# 812

Delta R.T. -0.04 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

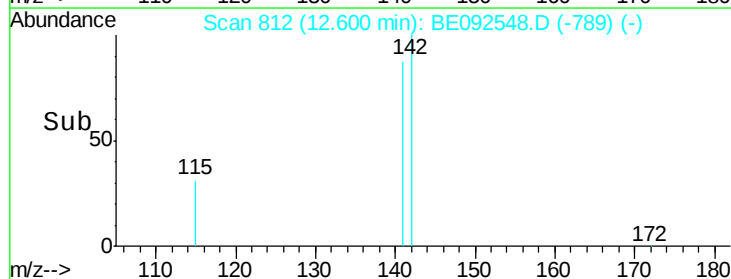
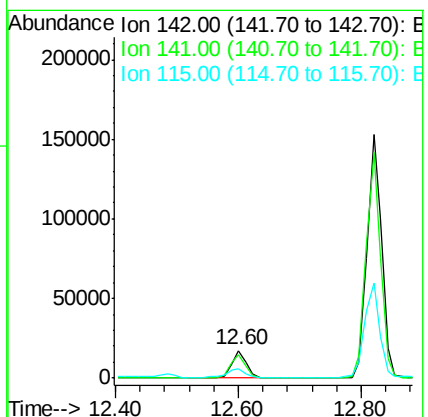
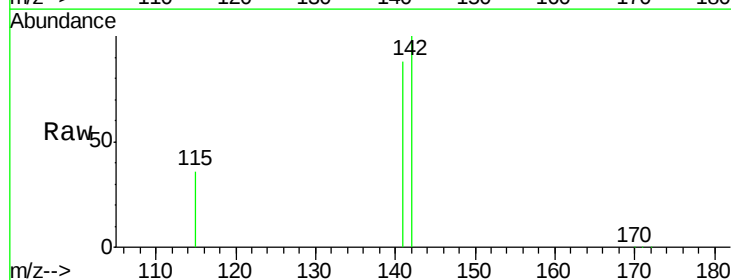
Tgt Ion:142 Resp: 28628

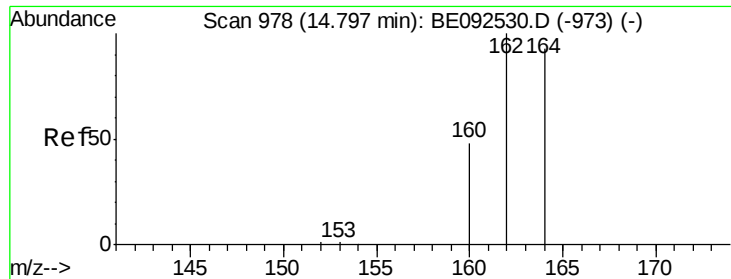
Ion Ratio Lower Upper

142 100

141 87.7 73.7 110.5

115 36.1 34.0 51.0





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.80 min Scan# 979

Delta R.T. 0.00 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

Instrument :

BNA_E

ClientSampleId :

C19023041

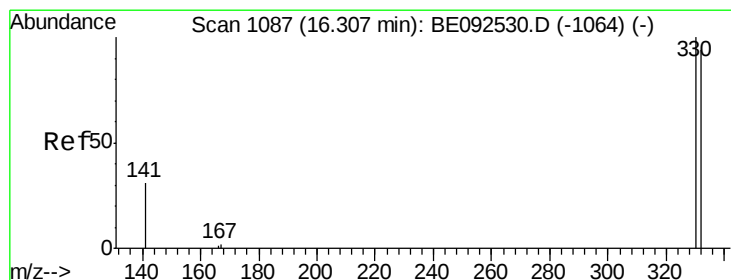
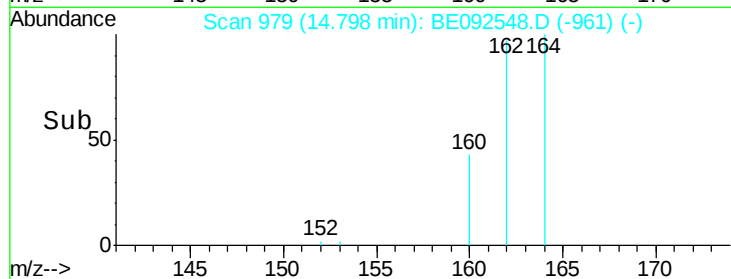
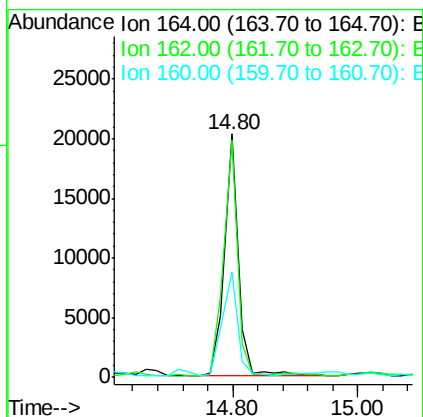
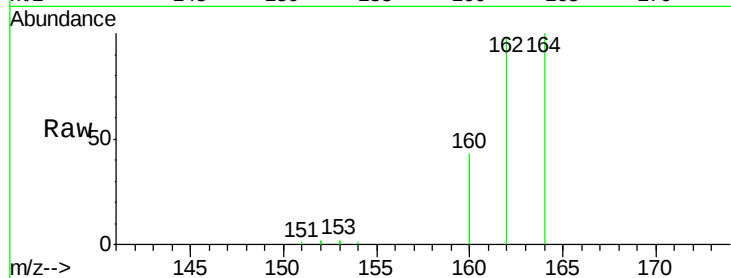
Tgt Ion:164 Resp: 31631

Ion Ratio Lower Upper

164 100

162 97.6 71.4 107.0

160 43.0 27.4 41.2#



#13

2,4,6-Tribromophenol

Concen: 16.72 ng

RT: 16.28 min Scan# 1086

Delta R.T. -0.02 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

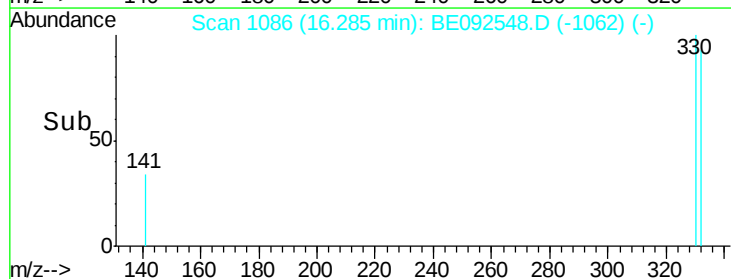
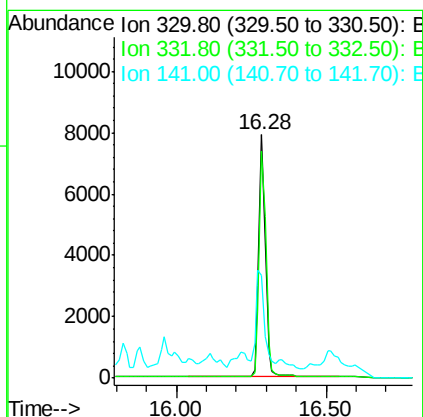
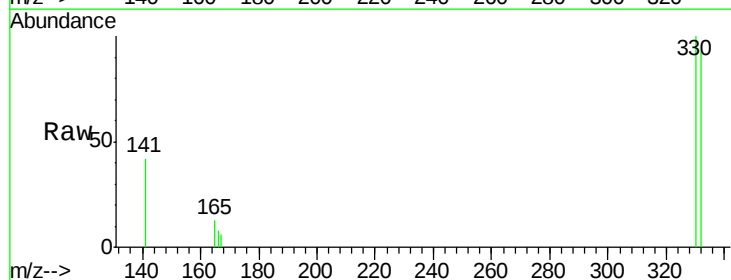
Tgt Ion:330 Resp: 11863

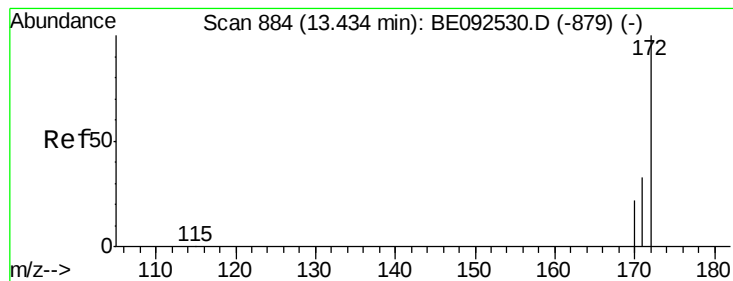
Ion Ratio Lower Upper

330 100

332 97.6 75.4 113.0

141 45.0 31.0 46.6





#14

2-Fluorobiphenyl

Concen: 5.10 ng

RT: 13.41 min Scan# 882

Delta R.T. -0.02 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

Instrument :

BNA_E

ClientSampleId :

C19023041

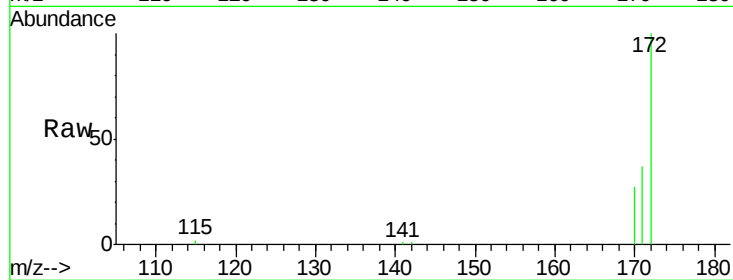
Tgt Ion:172 Resp: 39336

Ion Ratio Lower Upper

172 100

171 37.1 30.1 45.1

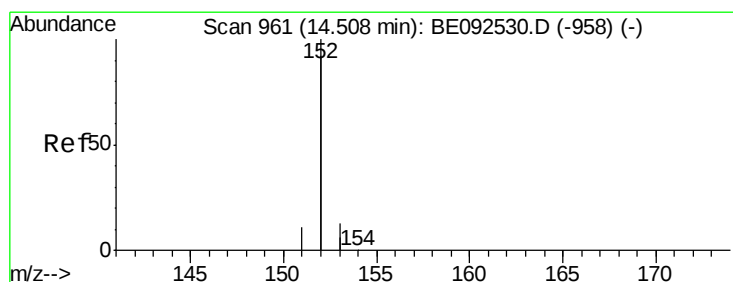
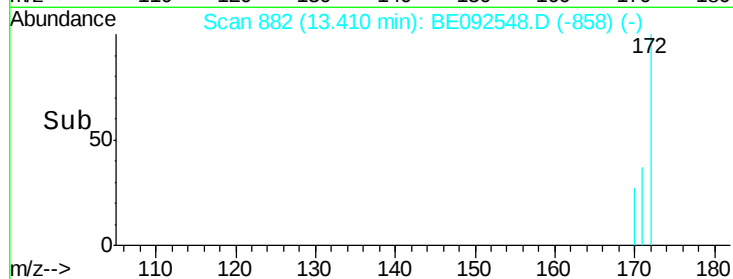
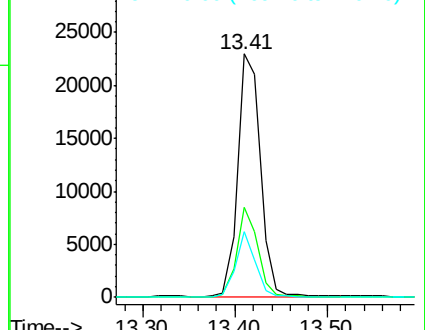
170 27.0 21.8 32.6



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#15

Acenaphthylene

Concen: 0.81 ng

RT: 14.51 min Scan# 962

Delta R.T. 0.00 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

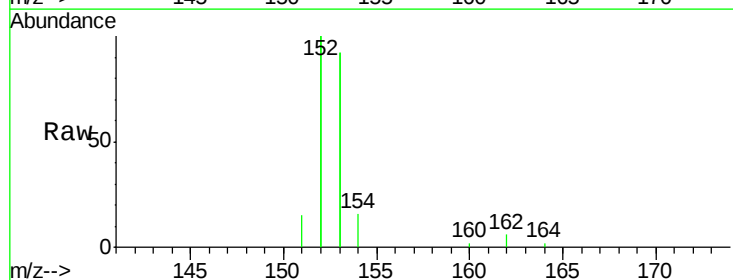
Tgt Ion:152 Resp: 35866

Ion Ratio Lower Upper

152 100

151 7.7 3.9 5.9#

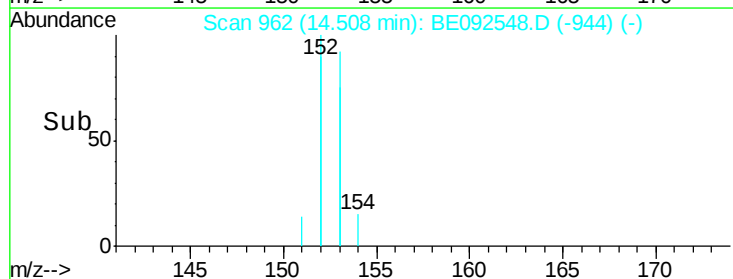
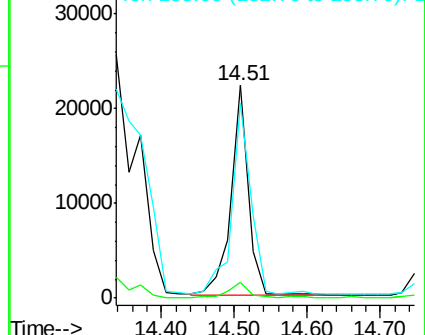
153 98.8 10.4 15.6#

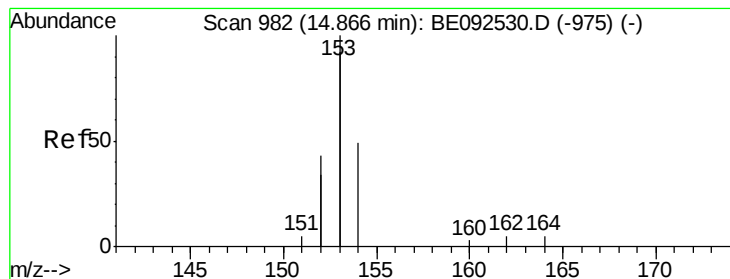


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#16

Acenaphthene

Concen: 3.04 ng

RT: 14.85 min Scan# 982

Delta R.T. -0.02 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

Instrument :

BNA_E

ClientSampleId :

C19023041

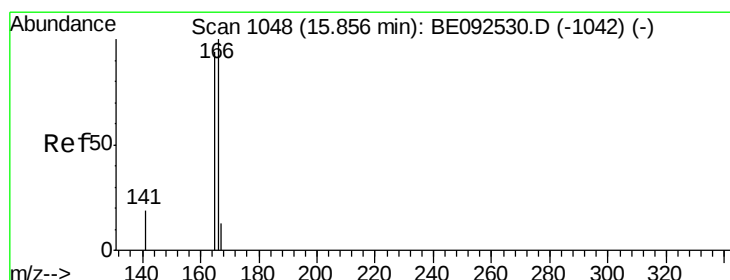
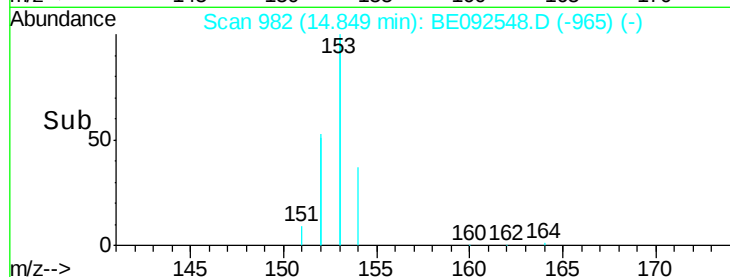
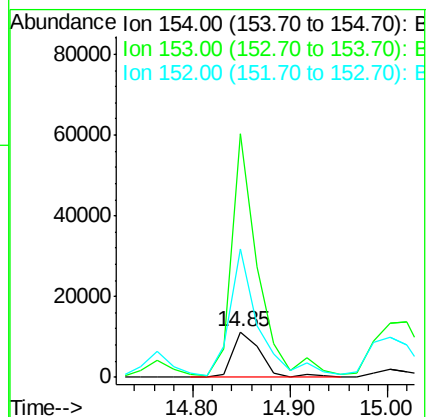
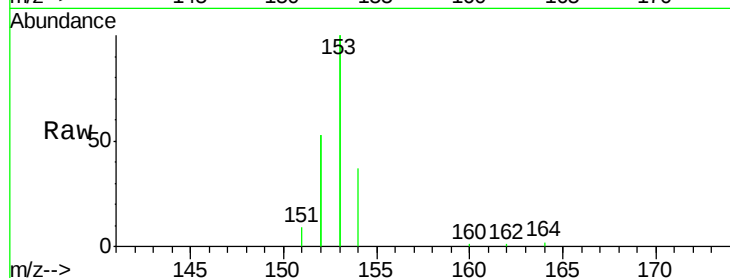
Tgt Ion:154 Resp: 21877

Ion Ratio Lower Upper

154 100

153 503.5 350.8 526.2

152 284.8 171.1 256.7#



#17

Fluorene

Concen: 5.50 ng

RT: 15.84 min Scan# 1048

Delta R.T. -0.01 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

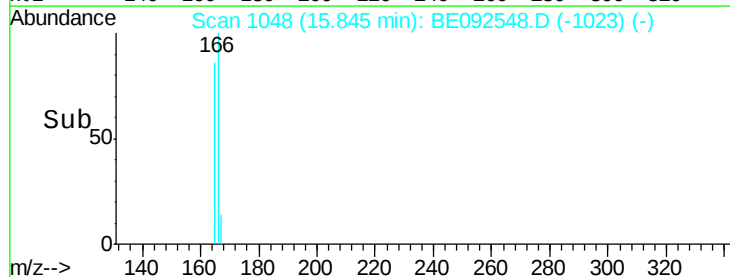
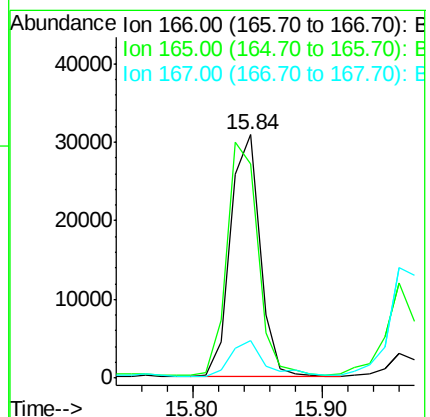
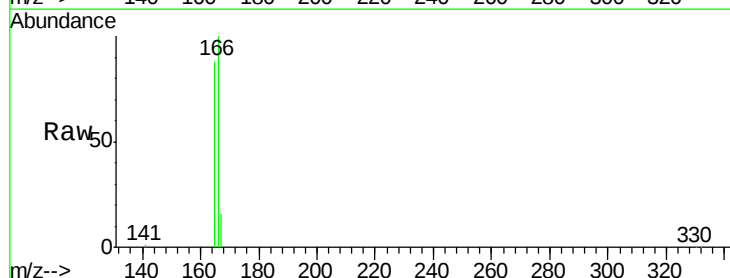
Tgt Ion:166 Resp: 49008

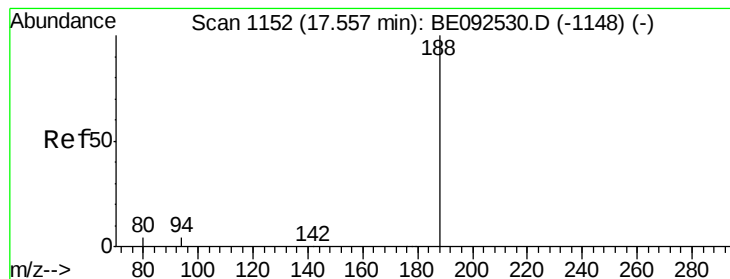
Ion Ratio Lower Upper

166 100

165 101.0 78.2 117.4

167 18.5 11.0 16.4#





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1153

Delta R.T. 0.00 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

Instrument :

BNA_E

ClientSampleId :

C19023041

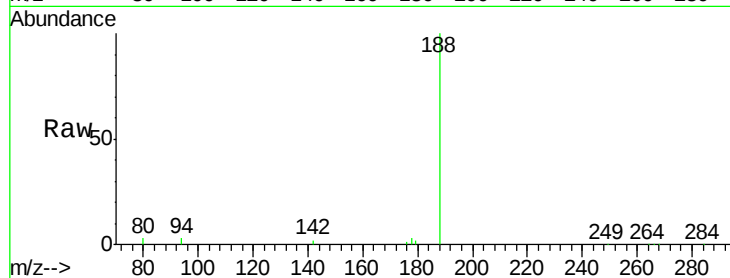
Tgt Ion:188 Resp: 58756

Ion Ratio Lower Upper

188 100

94 3.4 3.2 4.8

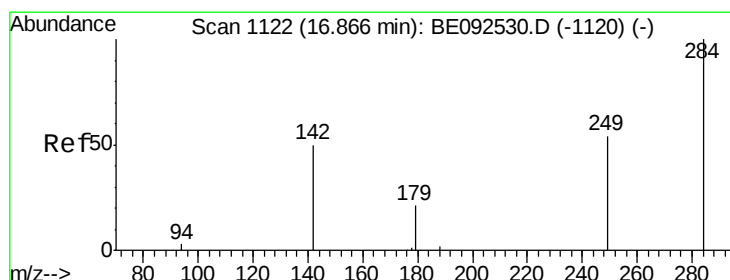
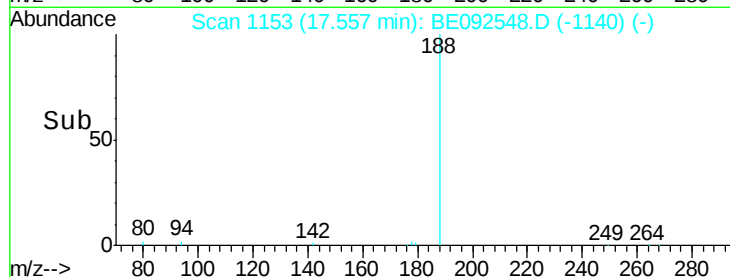
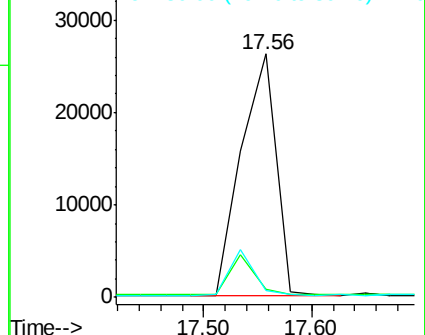
80 2.8 2.6 3.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#19

Hexachlorobenzene

Concen: 0.26 ng

RT: 16.66 min Scan# 1114

Delta R.T. -0.21 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

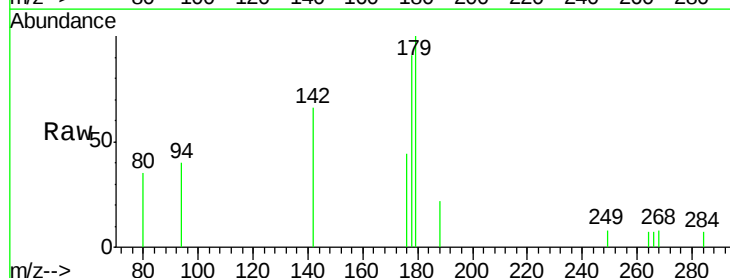
Tgt Ion:284 Resp: 608

Ion Ratio Lower Upper

284 100

142 428.6 29.1 43.7#

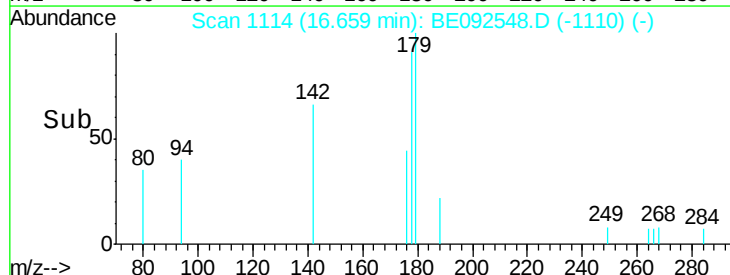
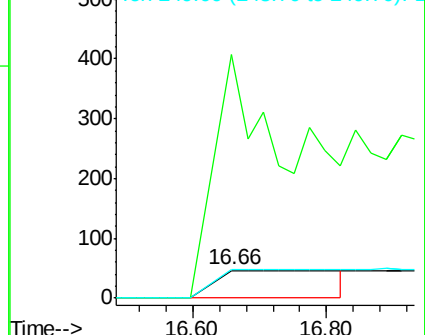
249 0.0 27.9 41.9#

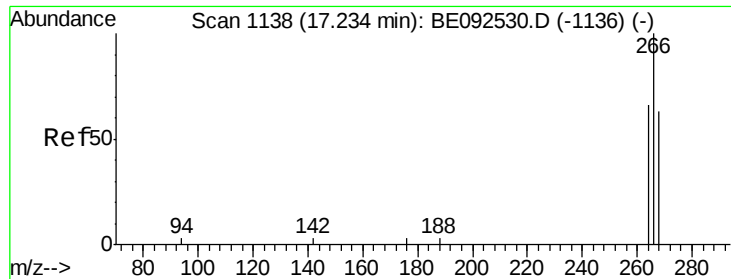


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

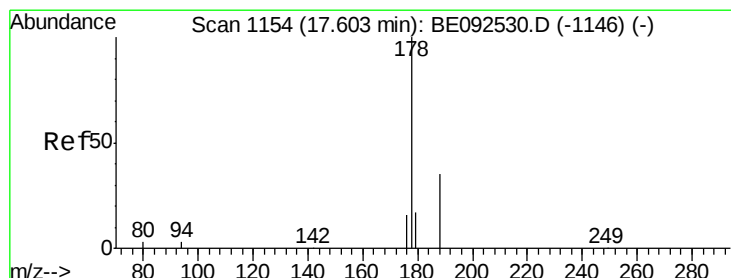
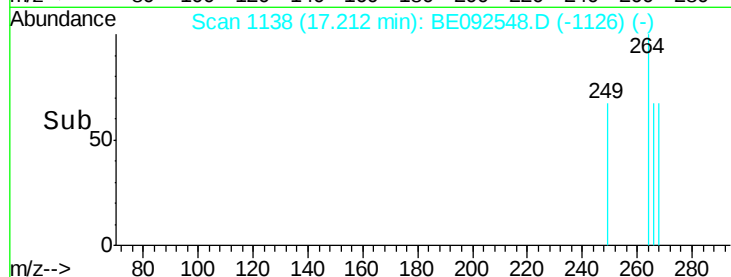
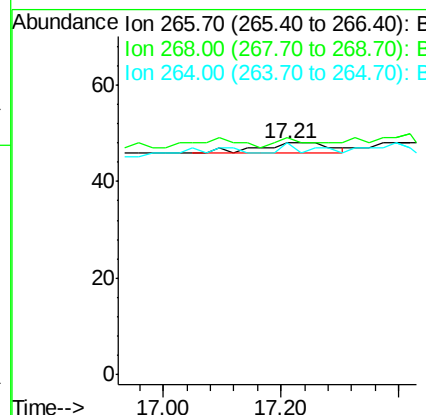
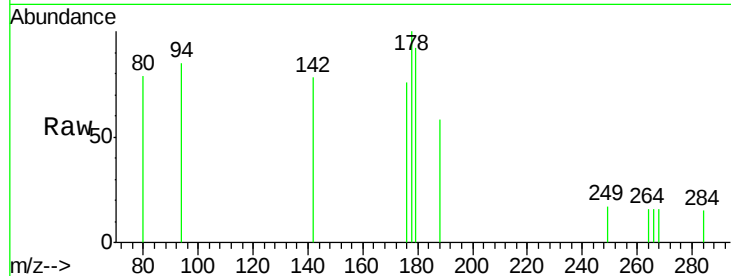




#20
 Pentachlorophenol
 Concen: 0.06 ng
 RT: 17.21 min Scan# 1138
 Delta R.T. -0.02 min
 Lab File: BE092548.D
 Acq: 17 Nov 2016 00:04

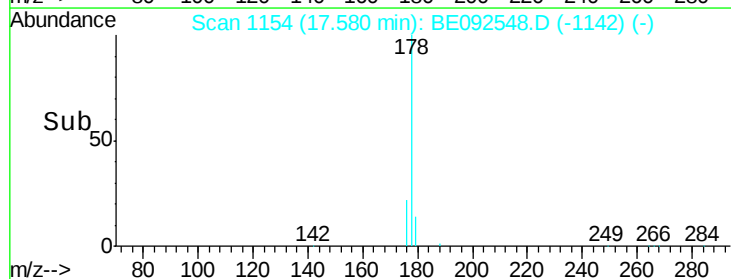
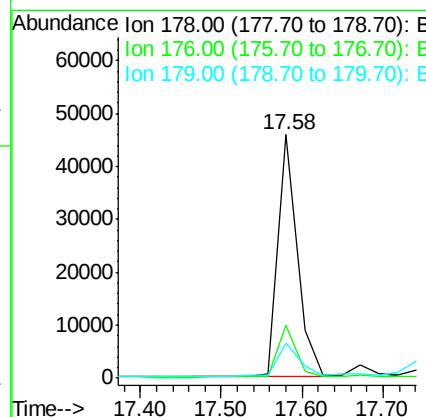
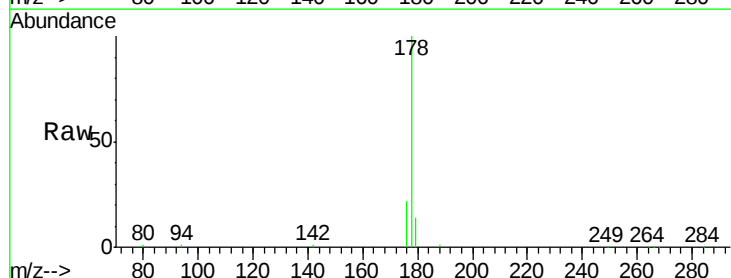
Instrument :
 BNA_E
 ClientSampleId :
 C19023041

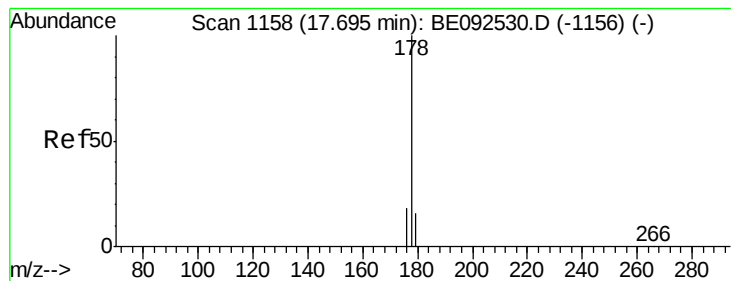
Tgt Ion: 266 Resp: 17
 Ion Ratio Lower Upper
 266 100
 268 102.1 62.5 93.7#
 264 100.0 57.2 85.8#



#21
 Phenanthrene
 Concen: 5.91 ng
 RT: 17.58 min Scan# 1154
 Delta R.T. -0.02 min
 Lab File: BE092548.D
 Acq: 17 Nov 2016 00:04

Tgt Ion: 178 Resp: 77642
 Ion Ratio Lower Upper
 178 100
 176 20.6 15.8 23.8
 179 18.9 16.0 24.0





#22

Anthracene

Concen: 0.30 ng

RT: 17.67 min Scan# 1158

Delta R.T. -0.02 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

Instrument :

BNA_E

ClientSampleId :

C19023041

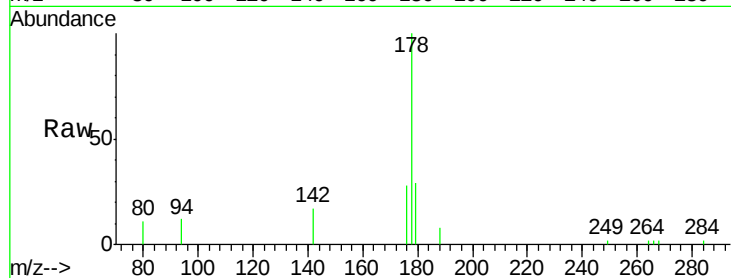
Tgt Ion:178 Resp: 3691

Ion Ratio Lower Upper

178 100

176 24.5 15.0 22.4#

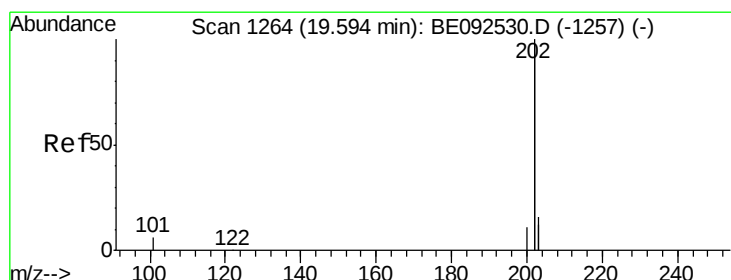
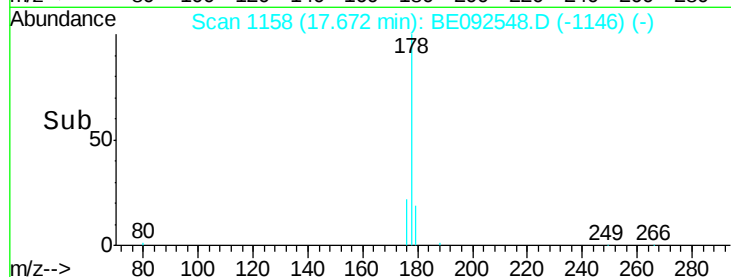
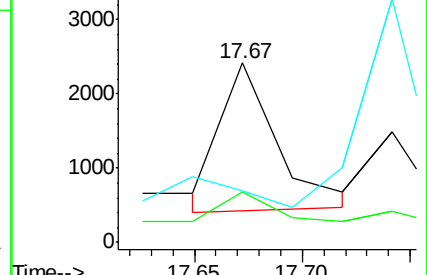
179 0.0 12.2 18.2#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#23

Fluoranthene

Concen: 0.02 ng

RT: 19.58 min Scan# 1264

Delta R.T. -0.02 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

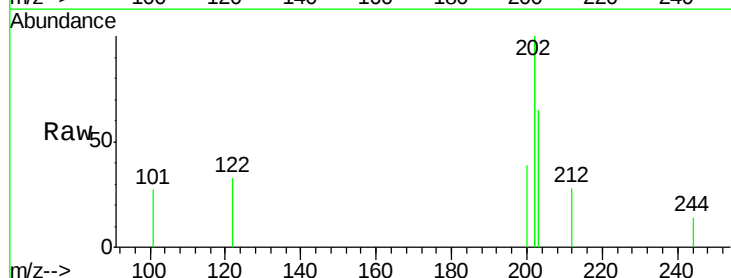
Tgt Ion:202 Resp: 1382

Ion Ratio Lower Upper

202 100

101 6.3 2.2 3.4#

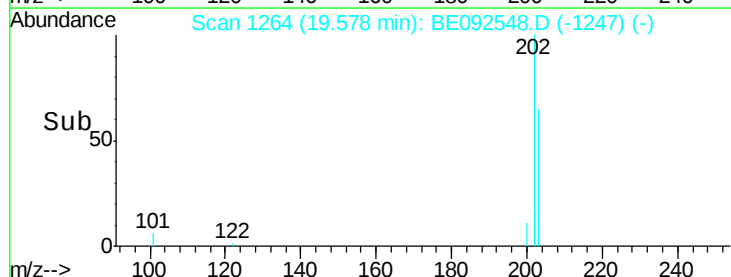
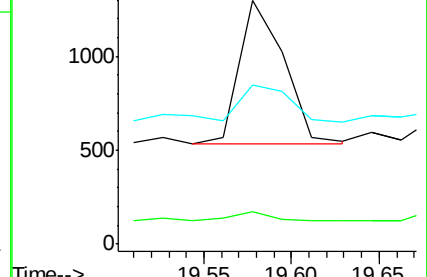
203 28.4 13.7 20.5#

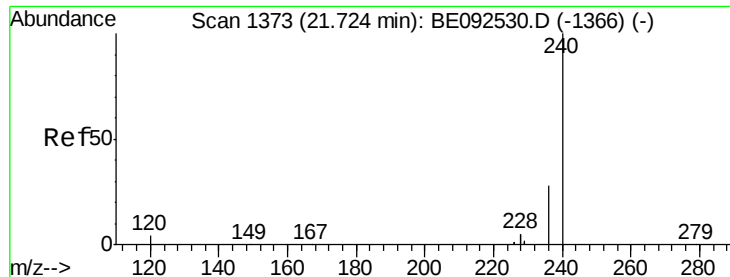


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

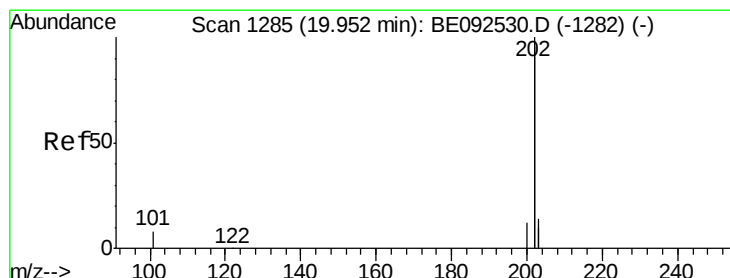
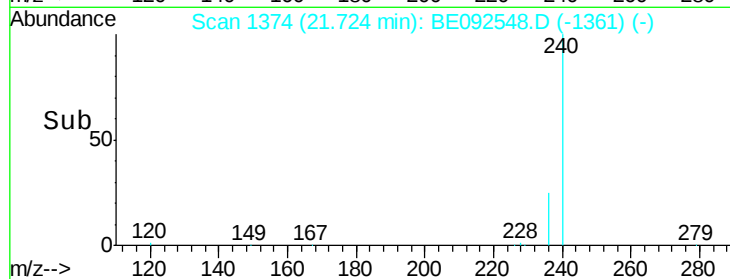
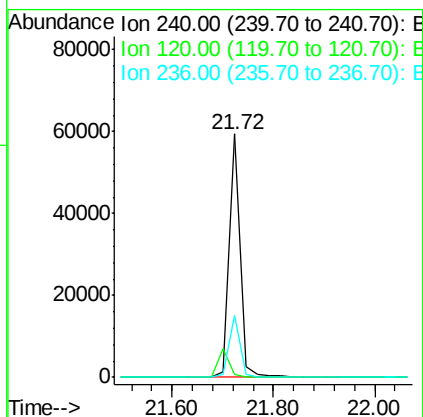
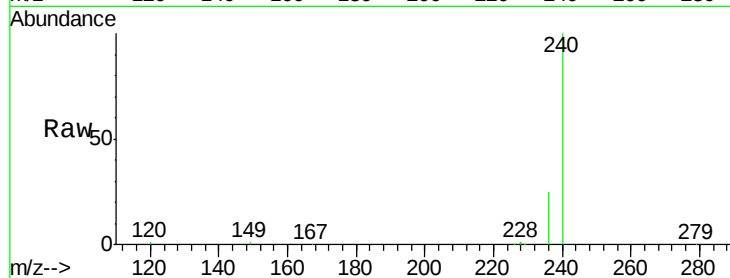




#24
Chrysene-d12
Concen: 5.00 ng
RT: 21.72 min Scan# 1374
Delta R.T. -0.00 min
Lab File: BE092548.D
Acq: 17 Nov 2016 00:04

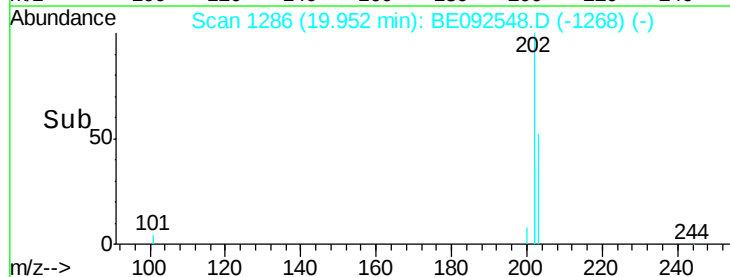
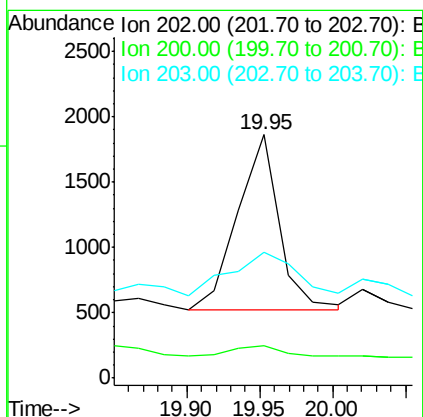
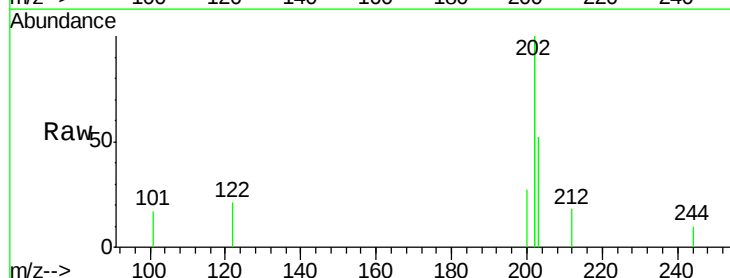
Instrument :
BNA_E
ClientSampleId :
C19023041

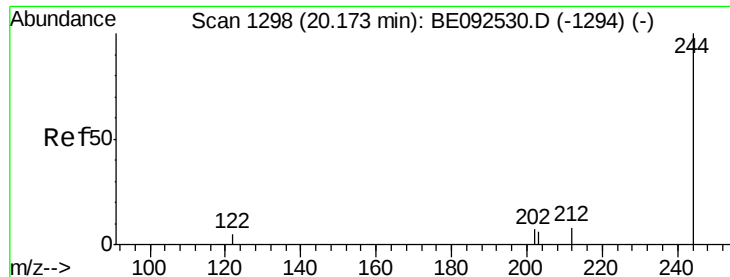
Tgt Ion:240 Resp: 88105
Ion Ratio Lower Upper
240 100
120 1.4 2.6 4.0#
236 25.4 24.6 37.0



#25
Pyrene
Concen: 0.04 ng
RT: 19.95 min Scan# 1286
Delta R.T. 0.00 min
Lab File: BE092548.D
Acq: 17 Nov 2016 00:04

Tgt Ion:202 Resp: 2664
Ion Ratio Lower Upper
202 100
200 9.6 4.2 6.4#
203 38.2 13.9 20.9#

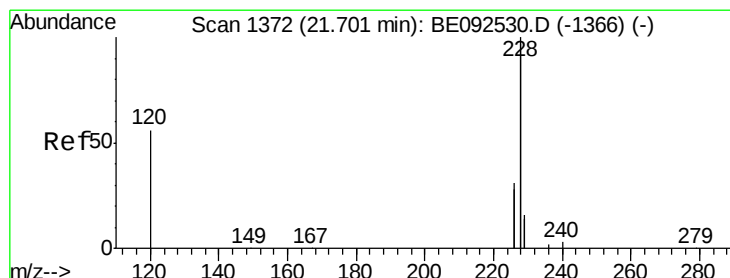
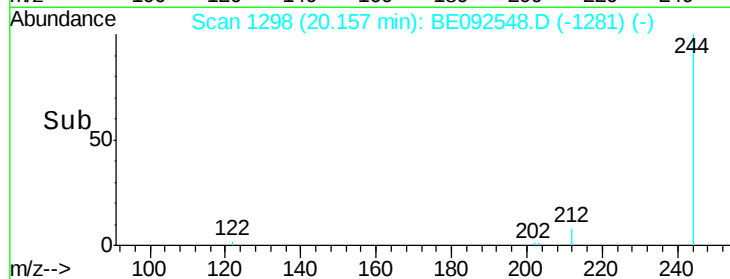
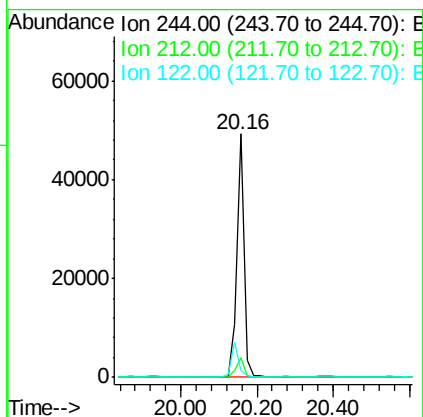
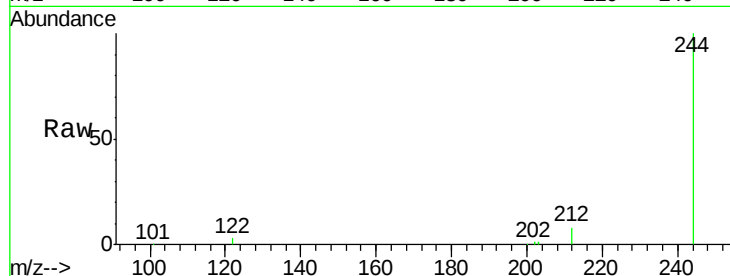




#26
 Terphenyl-d14
 Concen: 6.50 ng
 RT: 20.16 min Scan# 1298
 Delta R.T. -0.02 min
 Lab File: BE092548.D
 Acq: 17 Nov 2016 00:04

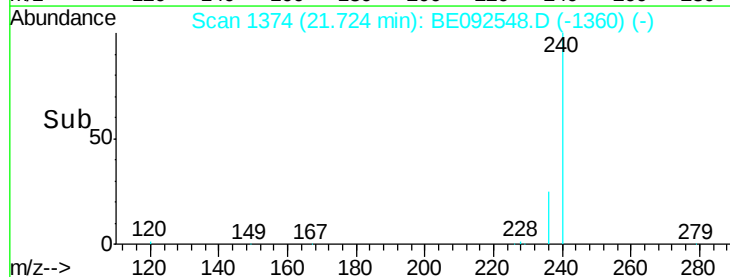
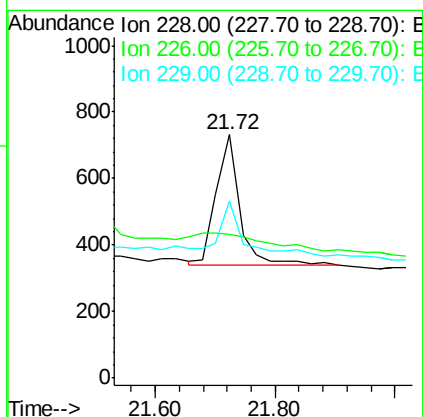
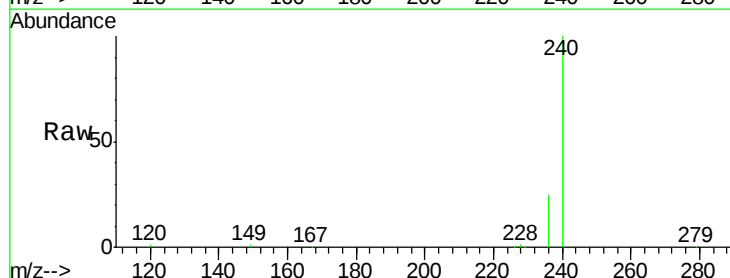
Instrument :
 BNA_E
 ClientSampleId :
 C19023041

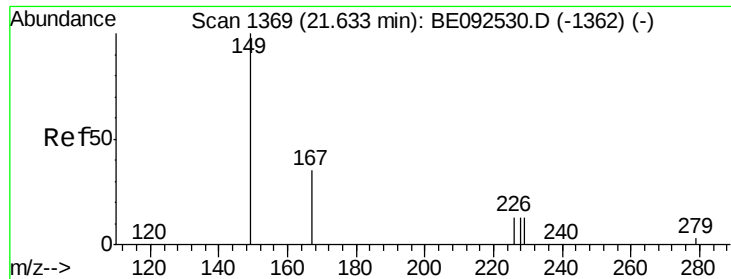
Tgt Ion: 244 Resp: 65468
 Ion Ratio Lower Upper
 244 100
 212 8.0 6.7 10.1
 122 2.7 3.6 5.4#



#27
 Benzo(a)anthracene
 Concen: 0.11 ng
 RT: 21.72 min Scan# 1374
 Delta R.T. 0.02 min
 Lab File: BE092548.D
 Acq: 17 Nov 2016 00:04

Tgt Ion: 228 Resp: 1062
 Ion Ratio Lower Upper
 228 100
 226 59.3 23.6 35.4#
 229 73.0 13.3 19.9#





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.35 ng

RT: 21.61 min Scan# 1369

Delta R.T. -0.02 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

Instrument :

BNA_E

ClientSampleId :

C19023041

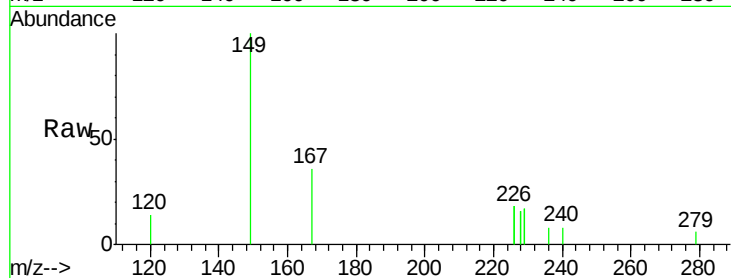
Tgt Ion:149 Resp: 1352

Ion Ratio Lower Upper

149 100

167 0.0 16.0 24.0#

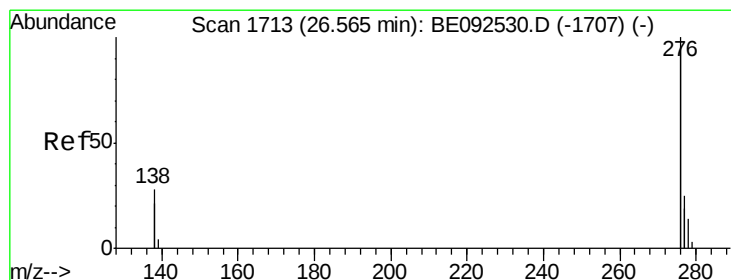
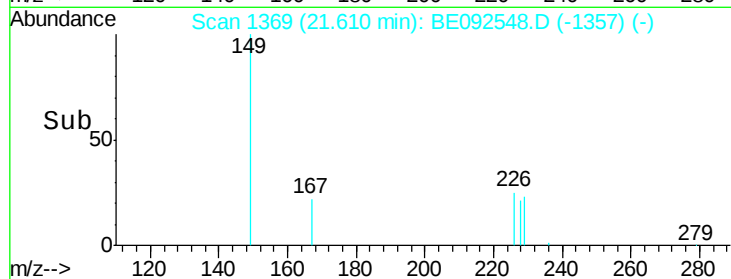
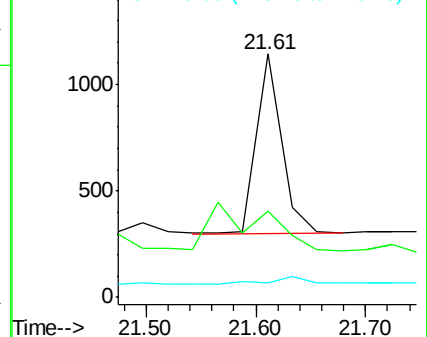
279 0.0 16.0 24.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#30

Indeno(1,2,3-cd)pyrene

Concen: 0.05 ng

RT: 26.58 min Scan# 1715

Delta R.T. 0.02 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

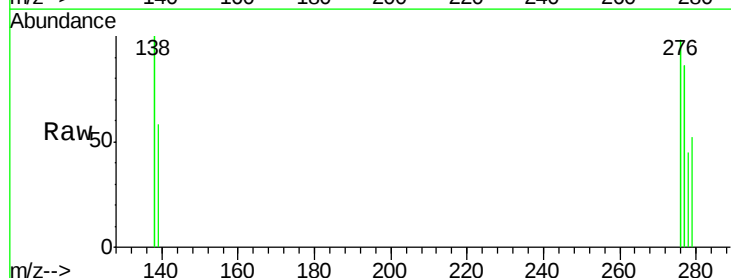
Tgt Ion:276 Resp: 331

Ion Ratio Lower Upper

276 100

138 36.0 20.3 30.5#

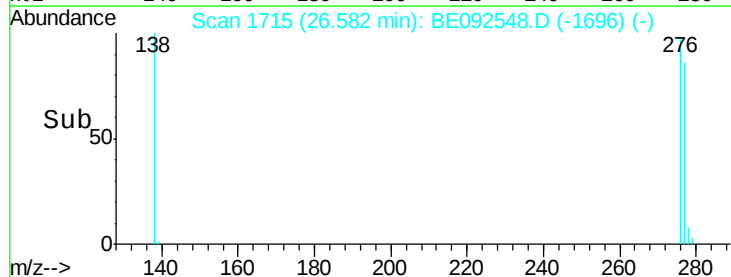
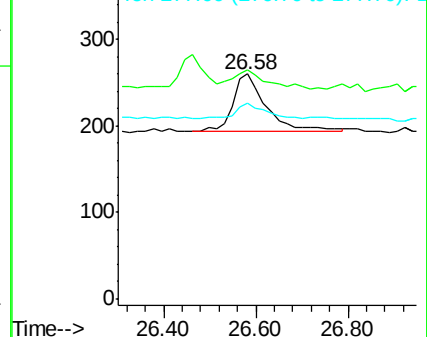
277 24.2 19.7 29.5

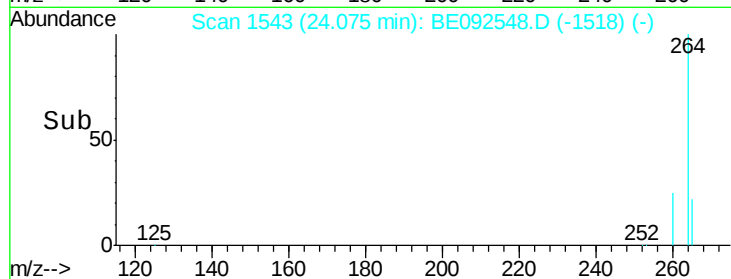
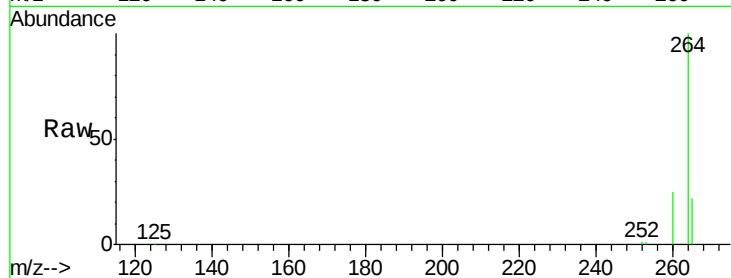
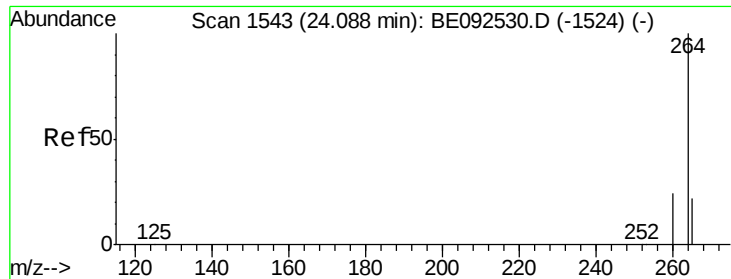


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#31

Perylene-d12

Concen: 5.00 ng

RT: 24.08 min Scan# 1543

Delta R.T. -0.01 min

Lab File: BE092548.D

Acq: 17 Nov 2016 00:04

Instrument :

BNA_E

ClientSampleId :

C19023041

Tgt Ion: 264 Resp: 72424

Ion Ratio Lower Upper

264 100

260 25.1 20.1 30.1

265 22.4 17.9 26.9

