

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021715\
 Data File : BE089592.D
 Acq On : 17 Feb 2015 9:54
 Operator : TP/IZ
 Sample : SSTDICV001
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 17 10:55:57 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE021715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 17 10:44:47 2015
 Response via : Initial Calibration

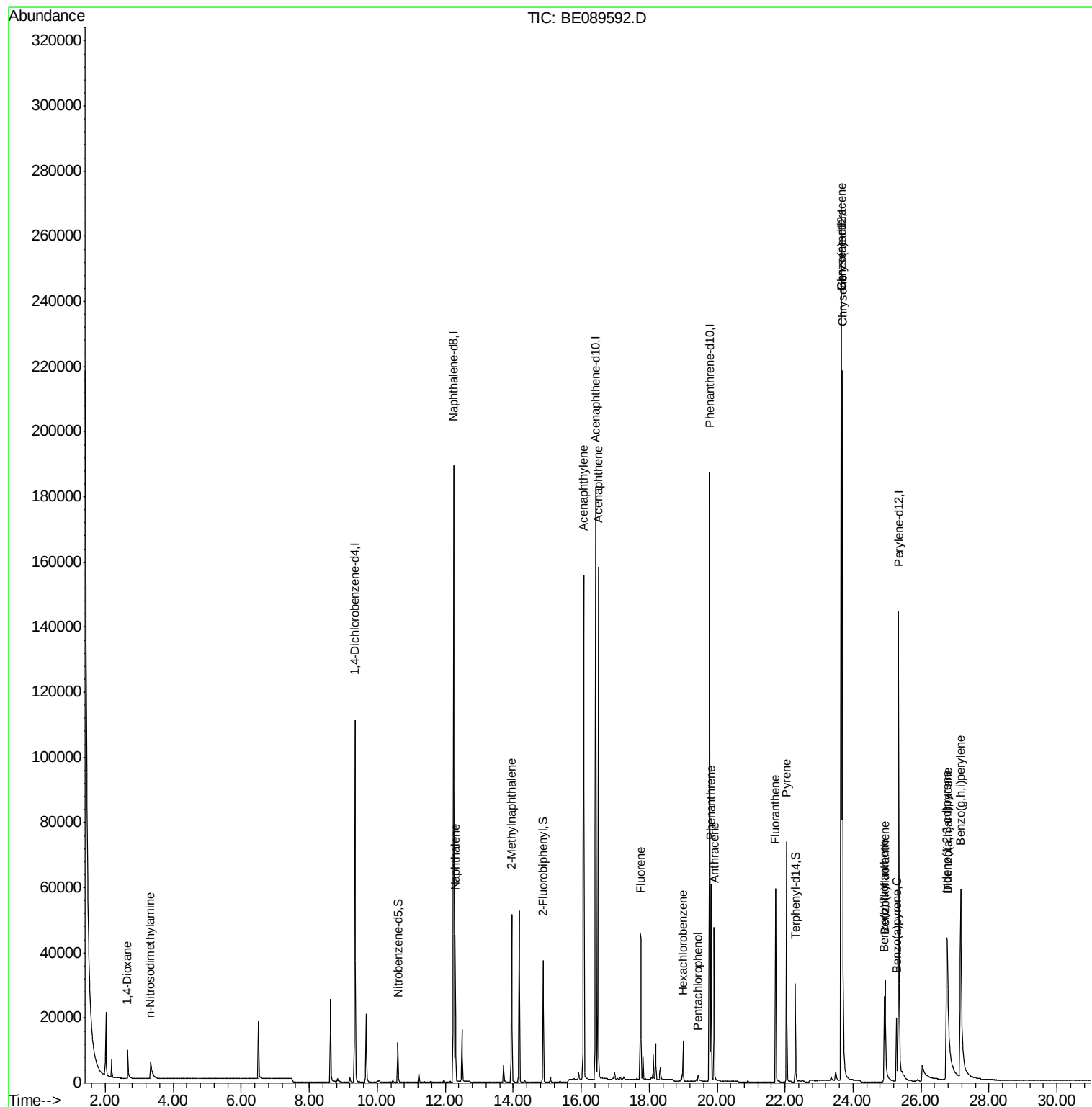
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	46965	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	207097	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	104362	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	188024	5.00	ng	0.00
19) Chrysene-d12	23.66	240	165778	5.00	ng	0.00
25) Perylene-d12	25.34	264	136263	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	8817	0.94	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	32661	0.98	ng	0.00
21) Terphenyl-d14	22.31	244	28189	0.91	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	2.65	88	5930	0.93	ng	89
3) n-Nitrosodimethylamine	3.33	42	6235	0.98	ng	# 98
6) Naphthalene	12.30	128	50951	0.98	ng	100
7) 2-Methylnaphthalene	13.95	142	32539	0.97	ng	100
10) Acenaphthylene	16.07	152	188800	0.95	ng	100
11) Acenaphthene	16.50	154	30752	0.94	ng	99
12) Fluorene	17.75	166	34600	0.95	ng	99
14) Hexachlorobenzene	19.00	284	9251	0.88	ng	100
15) Pentachlorophenol	19.44	266	1619	0.52	ng	97
16) Phenanthrene	19.82	178	52153	0.92	ng	100
17) Anthracene	19.91	178	43707	0.94	ng	100
18) Fluoranthene	21.73	202	44720	0.95	ng	100
20) Pyrene	22.04	202	48322	0.92	ng	100
22) Benzo(a)anthracene	23.64	228	170387	0.99	ng	99
23) Chrysene	23.69	228	185634	0.92	ng	99
24) Indeno(1,2,3-cd)pyrene	26.75	276	137171	0.93	ng	99
26) Benzo(b)fluoranthene	24.91	252	22799	0.83	ng	99
27) Benzo(k)fluoranthene	24.95	252	46462	1.03	ng	100
28) Benzo(a)pyrene	25.28	252	24870	0.93	ng	100
29) Dibenzo(a,h)anthracene	26.78	278	26836	0.98	ng	100
30) Benzo(g,h,i)perylene	27.17	276	124724	0.93	ng	99

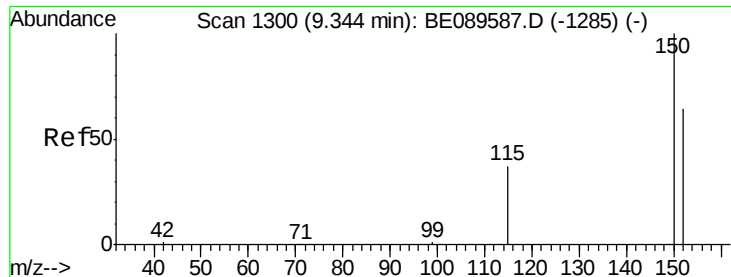
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

Instrument :

BNA_E

ClientSampleId :

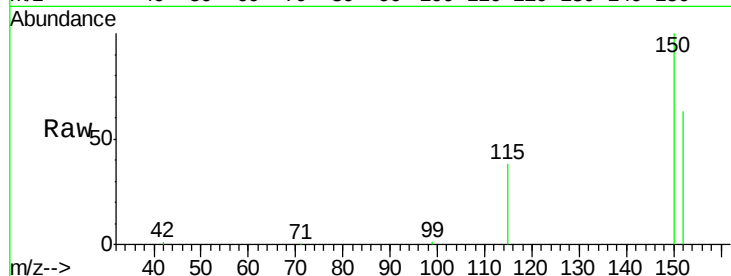
Tot Ion:152 Resp: 46965

Ion Ratio Lower Upper

152 100

150 158.2 125.3 187.9

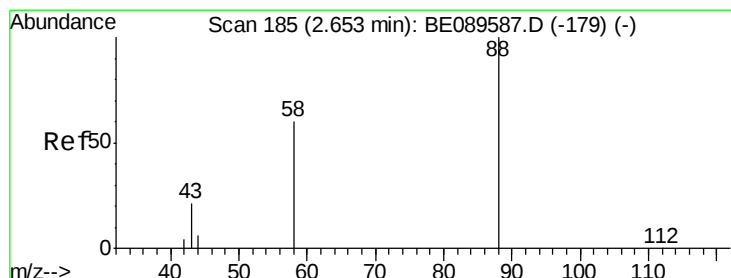
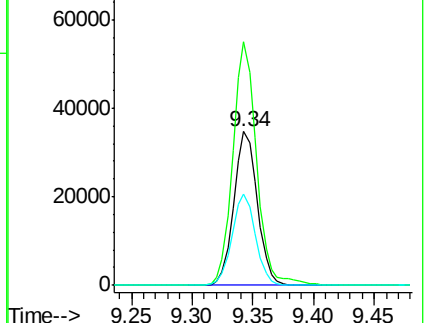
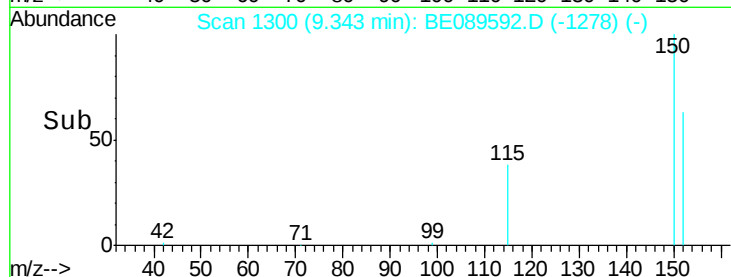
115 59.6 47.0 70.4



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: 0.93 ng

RT: 2.65 min Scan# 185

Delta R.T. 0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

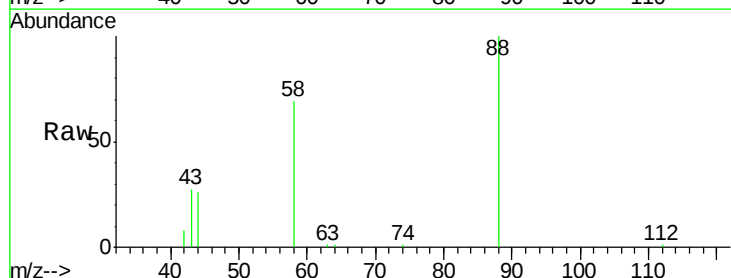
Tgt Ion: 88 Resp: 5930

Ion Ratio Lower Upper

88 100

58 76.1 53.0 79.4

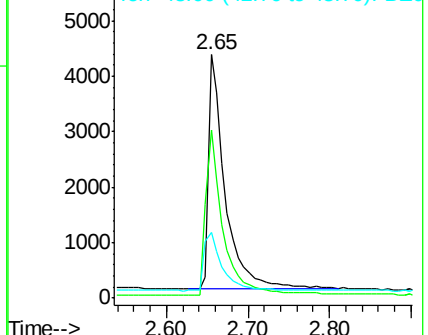
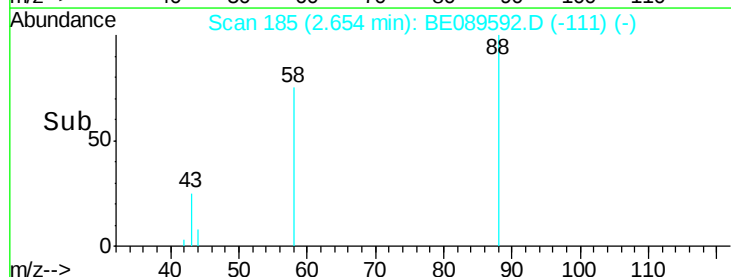
43 28.2 19.9 29.9

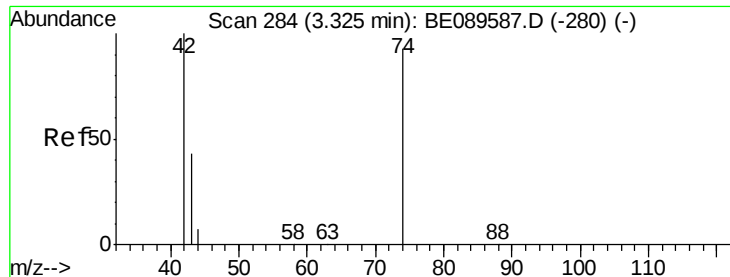


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



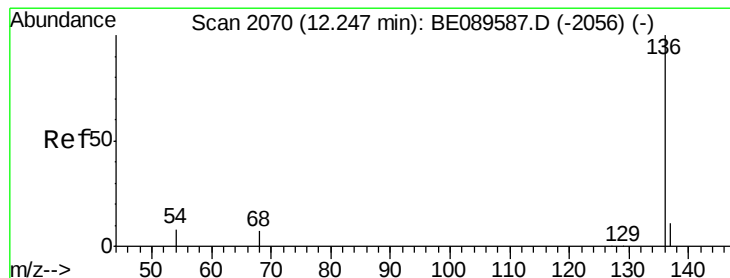
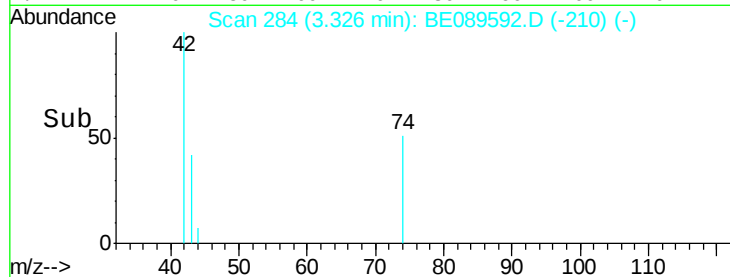
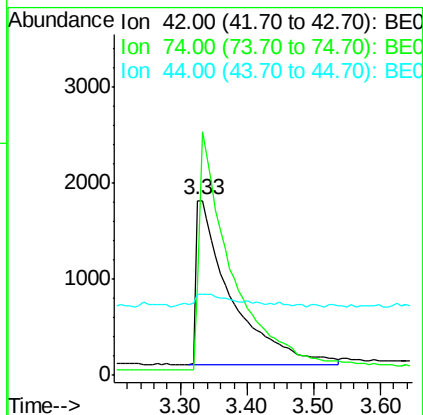
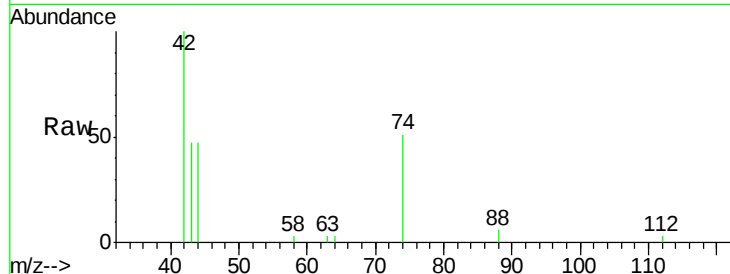


#3

n-Nitrosodimethylamine
 Concen: 0.98 ng
 RT: 3.33 min Scan# 284
 Delta R.T. 0.00 min
 Lab File: BE089592.D
 Acq: 17 Feb 2015 9:54

Instrument :
 BNA_E
 ClientSampleId :

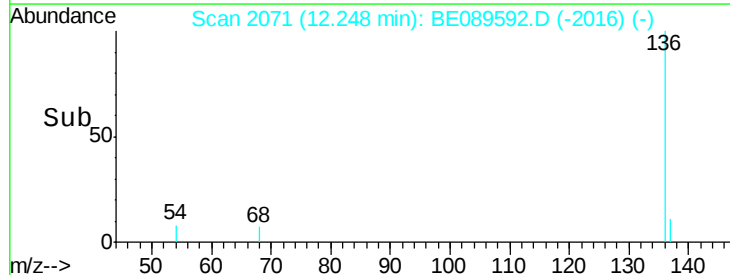
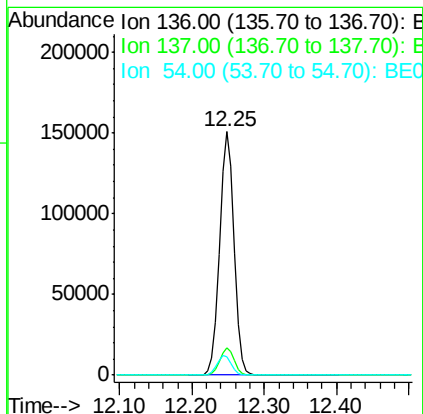
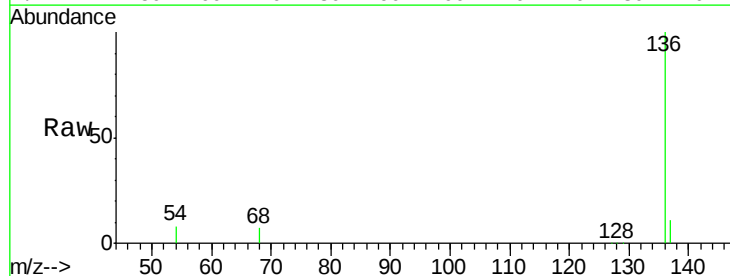
Tot Ion: 42 Resp: 6235
 Ion Ratio Lower Upper
 42 100
 74 145.1 114.2 171.4
 44 8.2 3.6 5.4#

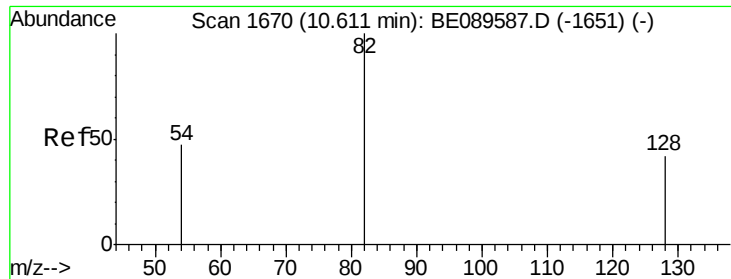


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.25 min Scan# 2071
 Delta R.T. 0.00 min
 Lab File: BE089592.D
 Acq: 17 Feb 2015 9:54

Tgt Ion: 136 Resp: 207097
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.7 13.1
 54 7.6 6.2 9.2





#5

Nitrobenzene-d5

Concen: 0.94 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

Instrument :

BNA_E

ClientSampled :

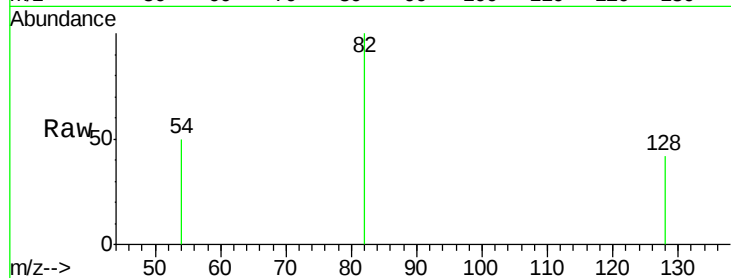
Tot Ion: 82 Resp: 8817

Ion Ratio Lower Upper

82 100

128 41.8 34.2 51.2

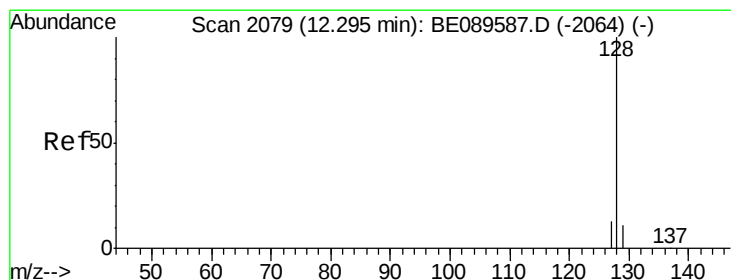
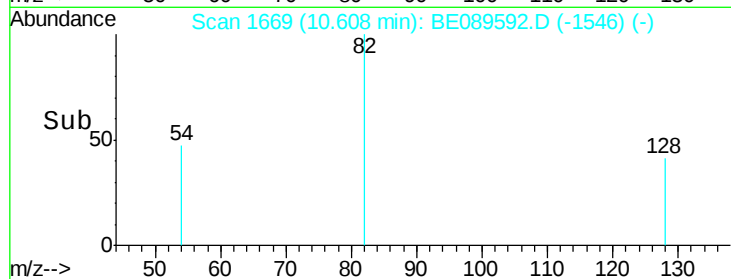
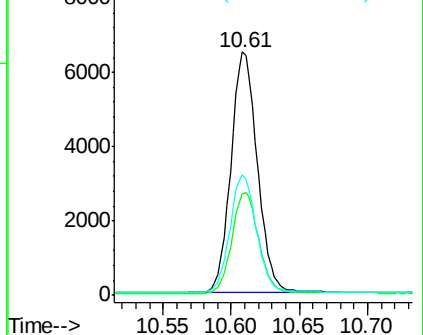
54 49.6 38.4 57.6



Abundance Ion 82.00 (81.70 to 82.70): BE089587.D (-1651) (-)

Ion 128.00 (127.70 to 128.70): BE089587.D (-1651) (-)

Ion 54.00 (53.70 to 54.70): BE089587.D (-1651) (-)



#6

Naphthalene

Concen: 0.98 ng

RT: 12.30 min Scan# 2080

Delta R.T. 0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

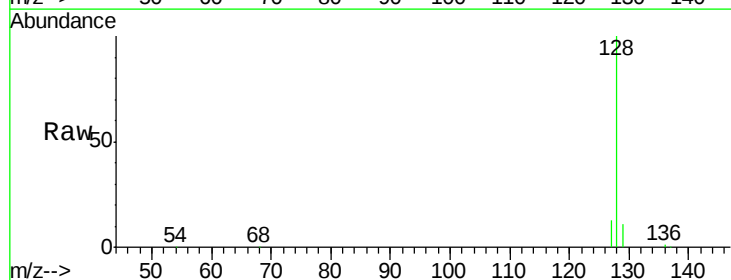
Tgt Ion: 128 Resp: 50951

Ion Ratio Lower Upper

128 100

129 11.2 8.7 13.1

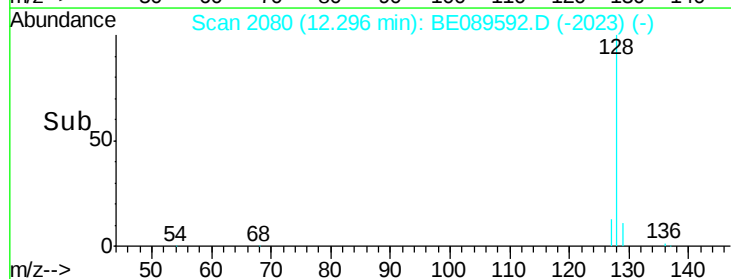
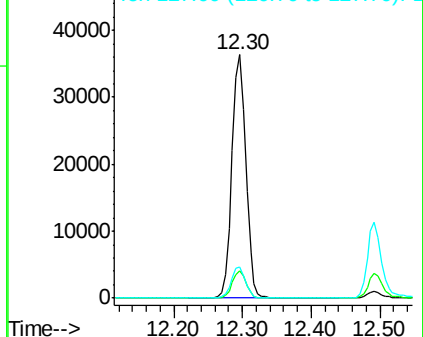
127 12.8 10.2 15.4

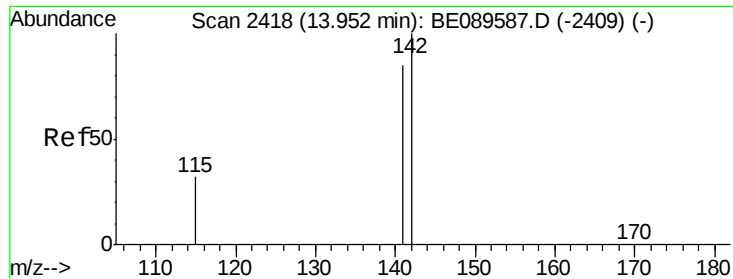


Abundance Ion 128.00 (127.70 to 128.70): BE089587.D (-2064) (-)

Ion 129.00 (128.70 to 129.70): BE089587.D (-2064) (-)

Ion 127.00 (126.70 to 127.70): BE089587.D (-2064) (-)





#7

2-Methylnaphthalene

Concen: 0.97 ng

RT: 13.95 min Scan# 2419

Delta R.T. 0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

Instrument :

BNA_E

ClientSampleId :

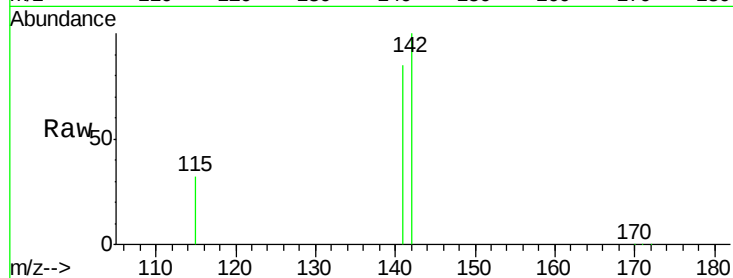
Tot Ion:142 Resp: 32539

Ion Ratio Lower Upper

142 100

141 84.8 68.1 102.1

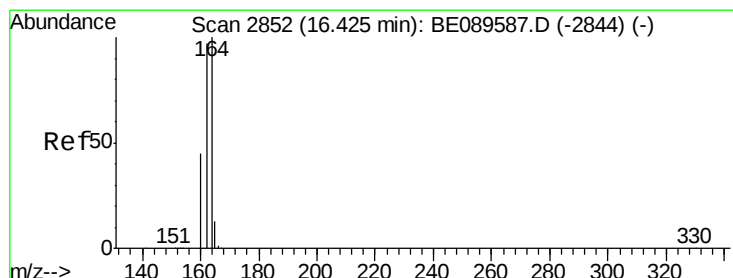
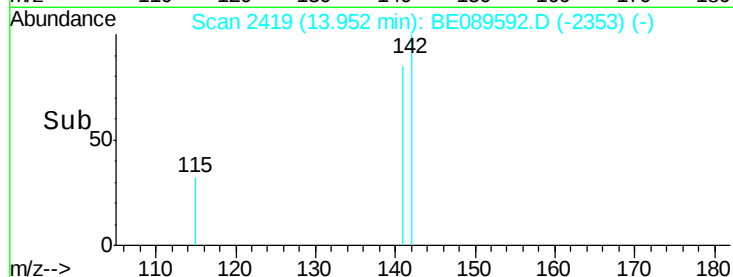
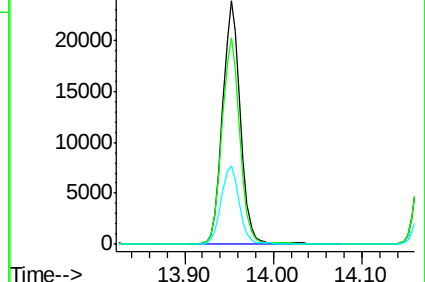
115 32.1 25.8 38.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2853

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

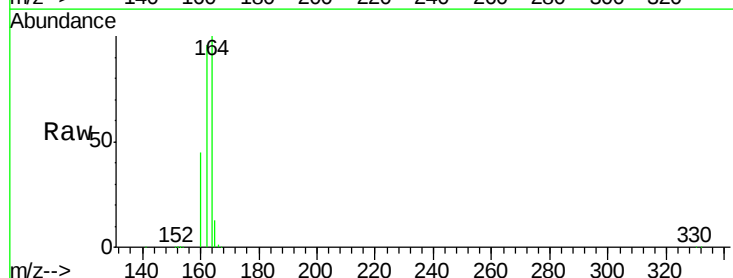
Tgt Ion:164 Resp: 104362

Ion Ratio Lower Upper

164 100

162 96.5 77.8 116.8

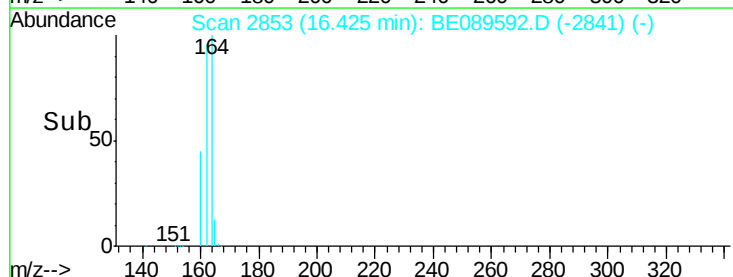
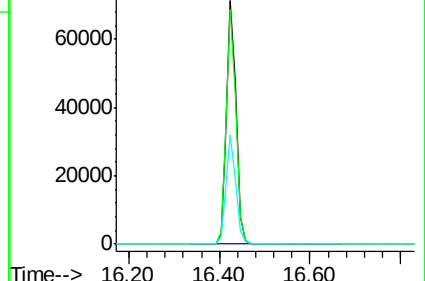
160 44.8 35.8 53.6

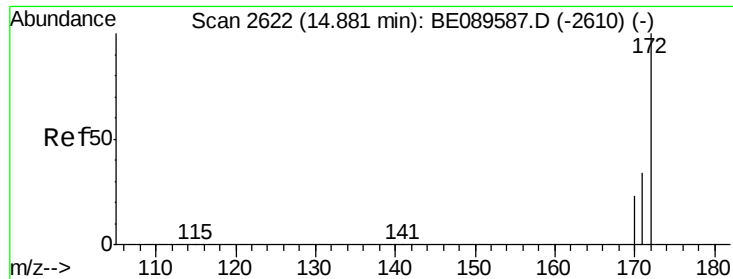


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.98 ng

RT: 14.88 min Scan# 2623

Delta R.T. 0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

Instrument :

BNA_E

ClientSampleId :

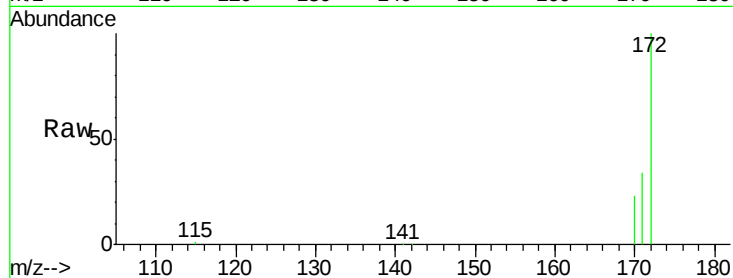
Tot Ion:172 Resp: 32661

Ion Ratio Lower Upper

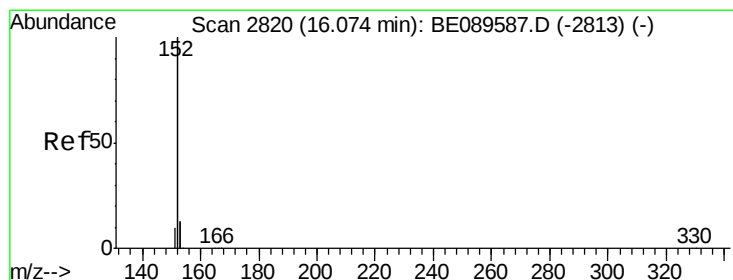
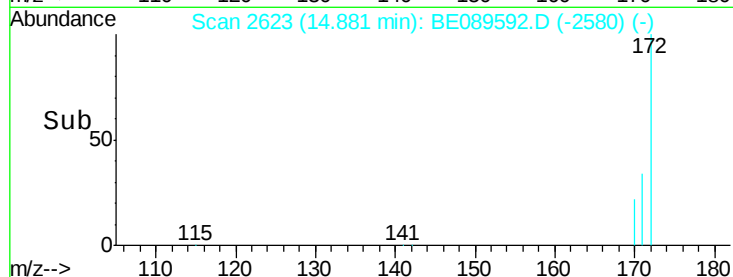
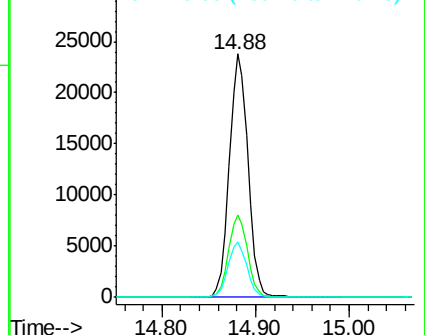
172 100

171 34.1 27.4 41.0

170 22.6 18.6 27.8



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



#10

Acenaphthylene

Concen: 0.95 ng

RT: 16.07 min Scan# 2821

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

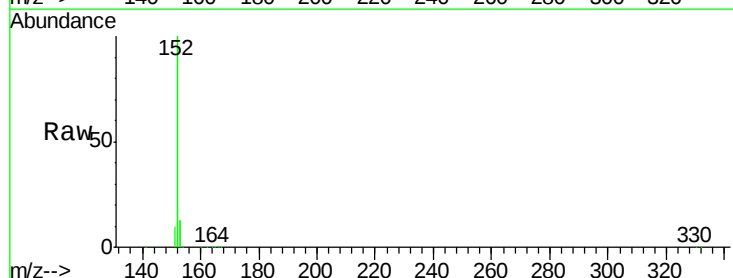
Tgt Ion:152 Resp: 188800

Ion Ratio Lower Upper

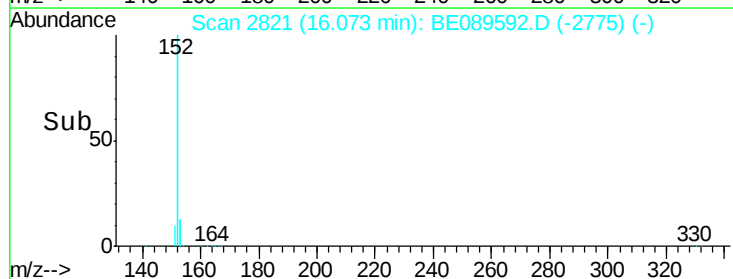
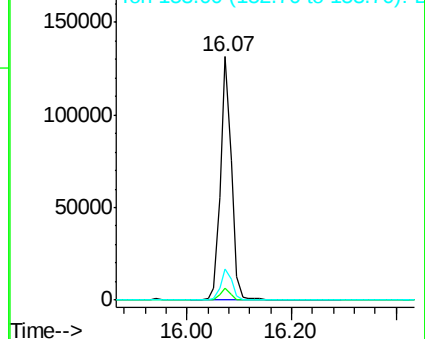
152 100

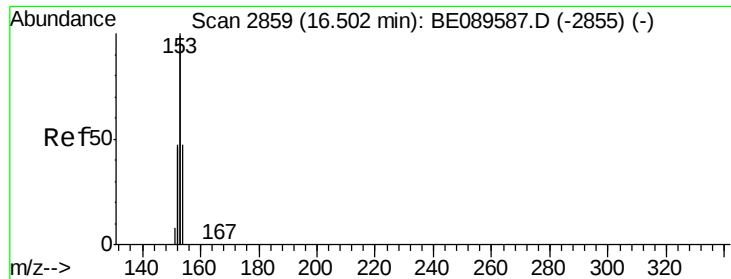
151 4.9 3.8 5.8

153 13.0 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





#11

Acenaphthene

Concen: 0.94 ng

RT: 16.50 min Scan# 2860

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

Instrument :

BNA_E

ClientSampleId :

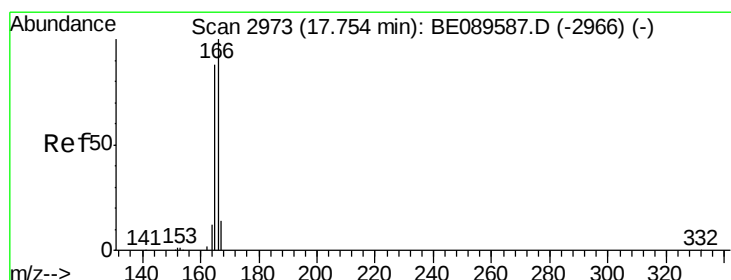
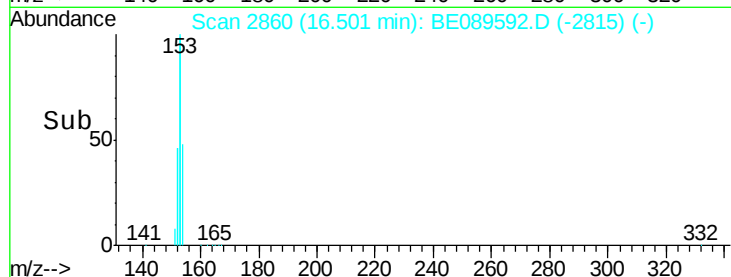
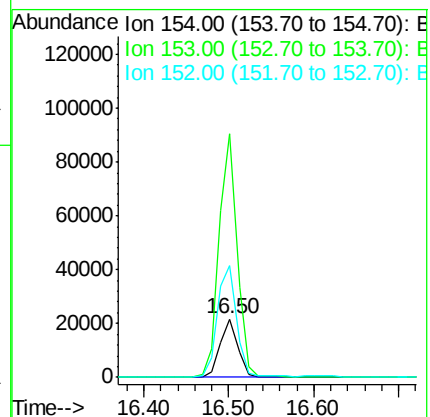
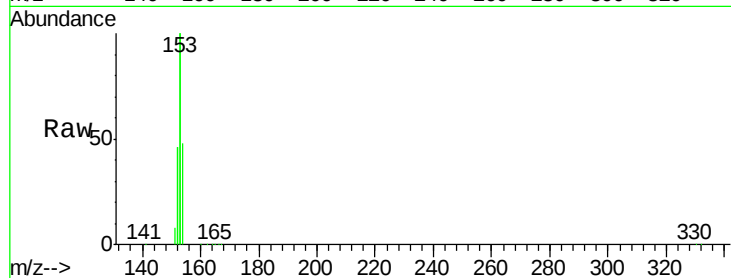
Tot Ion:154 Resp: 30752

Ion Ratio Lower Upper

154 100

153 432.0 346.6 519.8

152 210.1 169.0 253.6



#12

Fluorene

Concen: 0.95 ng

RT: 17.75 min Scan# 2974

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

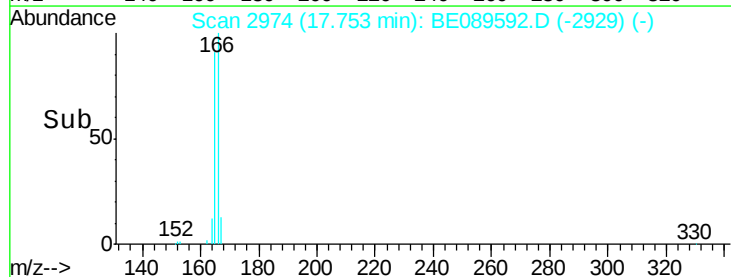
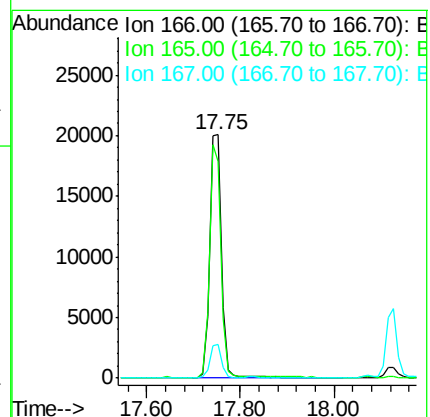
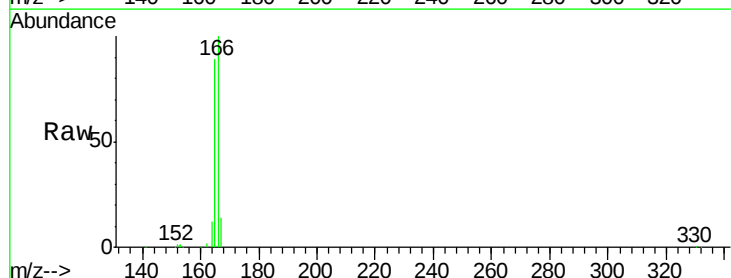
Tgt Ion:166 Resp: 34600

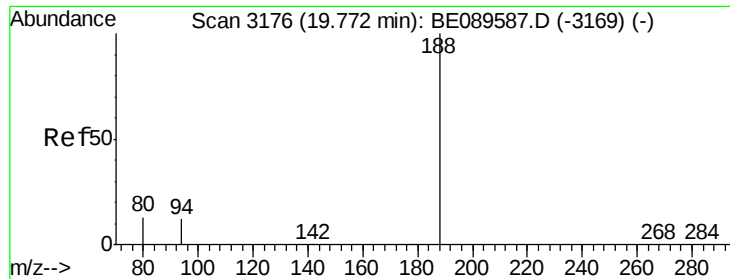
Ion Ratio Lower Upper

166 100

165 92.9 73.8 110.6

167 13.1 10.6 15.8





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3177

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

Instrument :

BNA_E

ClientSampleId :

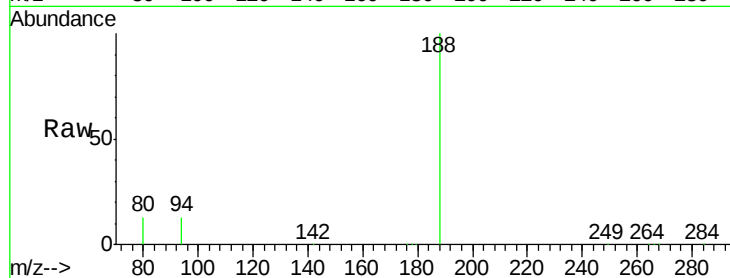
Tot Ion:188 Resp: 188024

Ion Ratio Lower Upper

188 100

94 12.6 9.8 14.8

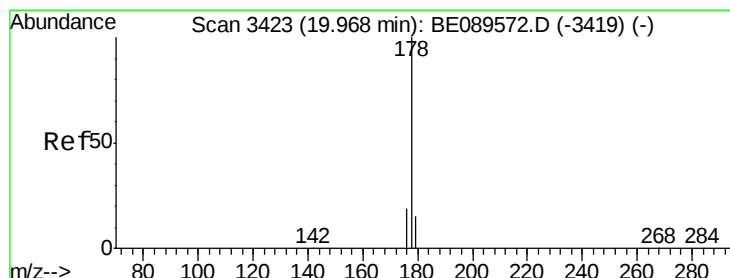
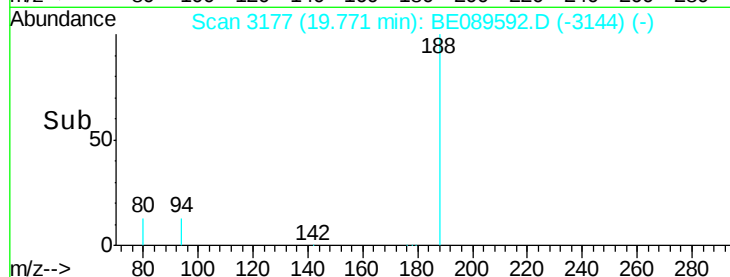
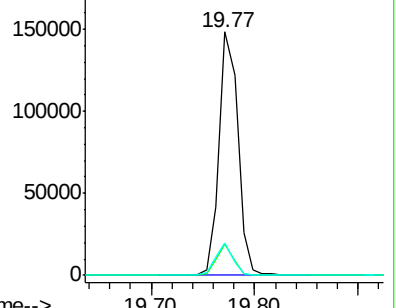
80 13.1 10.2 15.4



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



#14

Hexachlorobenzene

Concen: 0.88 ng

RT: 19.00 min Scan# 3091

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

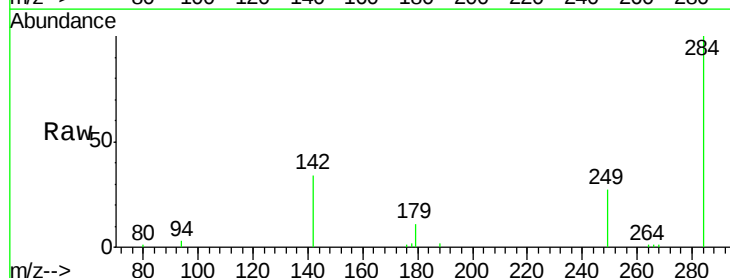
Tgt Ion:284 Resp: 9251

Ion Ratio Lower Upper

284 100

142 41.5 33.1 49.7

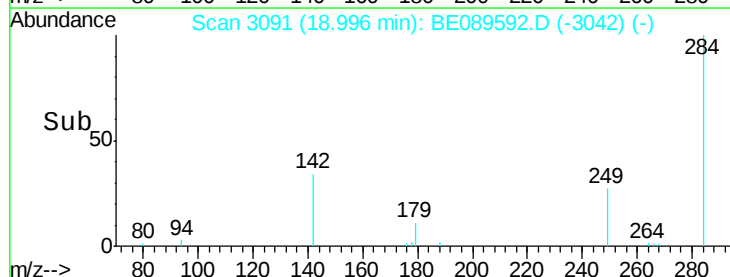
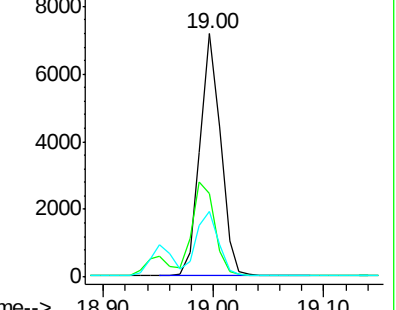
249 28.4 22.8 34.2

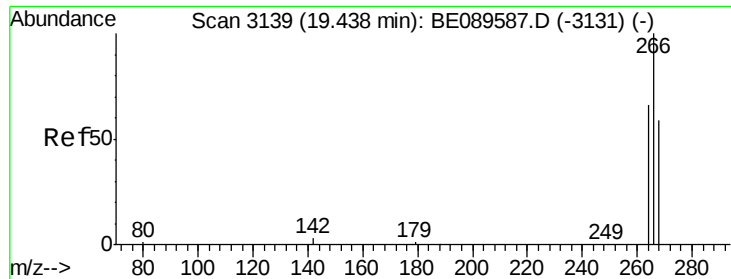


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

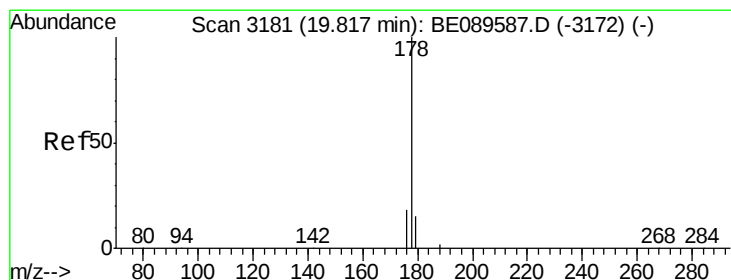
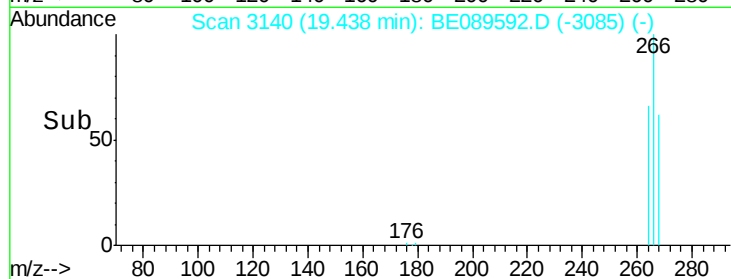
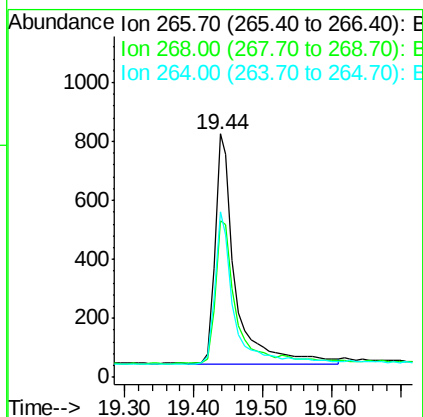
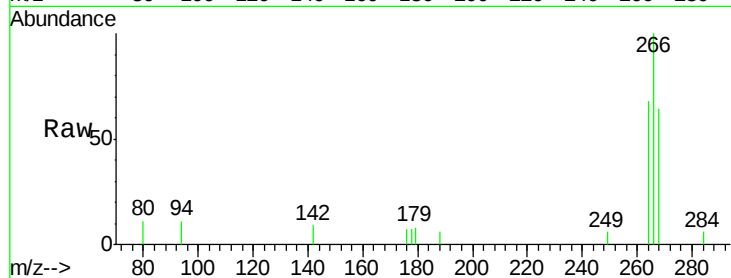




#15
 Pentachlorophenol
 Concen: 0.52 ng
 RT: 19.44 min Scan# 3140
 Delta R.T. -0.00 min
 Lab File: BE089592.D
 Acq: 17 Feb 2015 9:54

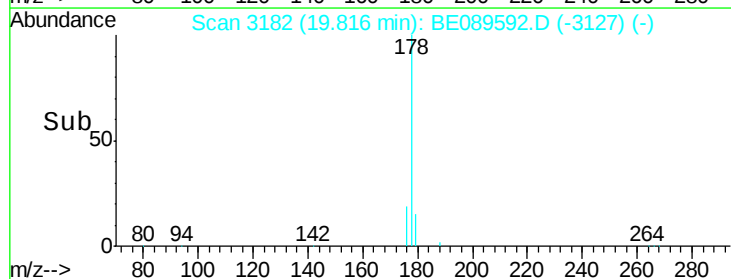
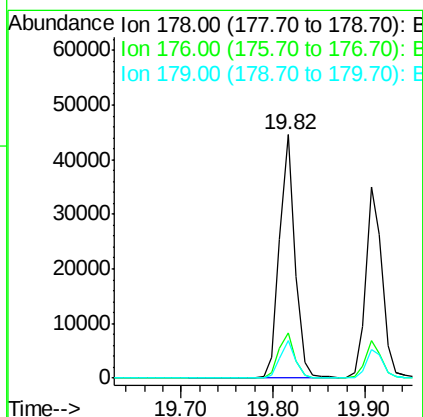
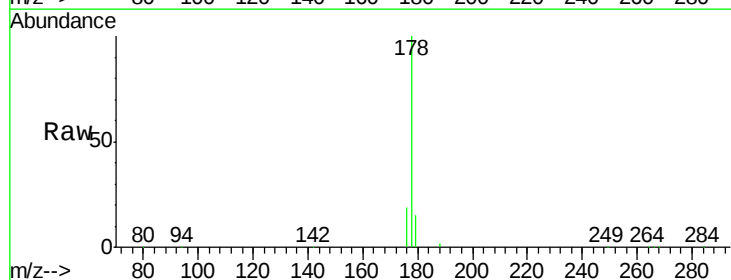
Instrument :
 BNA_E
 ClientSampleId :

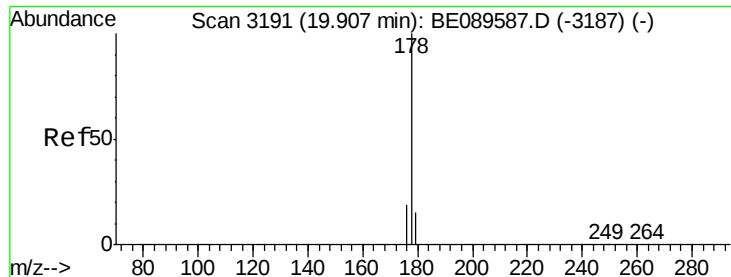
Tot Ion:266 Resp: 1619
 Ion Ratio Lower Upper
 266 100
 268 64.3 48.8 73.2
 264 68.2 53.9 80.9



#16
 Phenanthrene
 Concen: 0.92 ng
 RT: 19.82 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: BE089592.D
 Acq: 17 Feb 2015 9:54

Tgt Ion:178 Resp: 52153
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.2 22.8
 179 15.5 12.4 18.6





#17

Anthracene

Concen: 0.94 ng

RT: 19.91 min Scan# 3192

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

Instrument :

BNA_E

ClientSampleId :

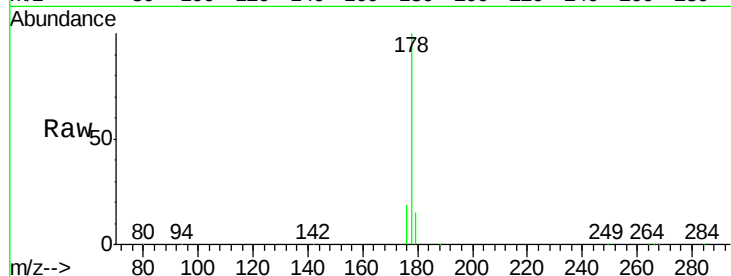
Tot Ion:178 Resp: 43707

Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

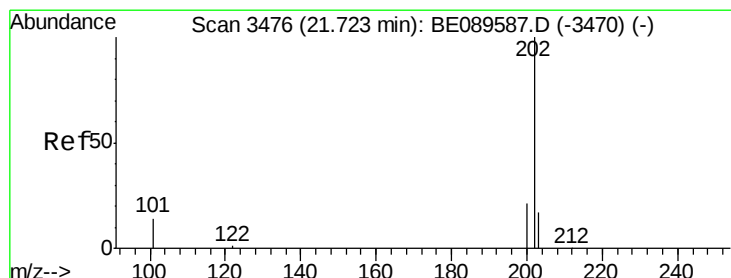
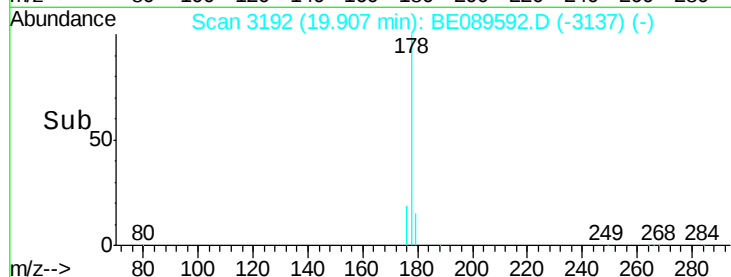
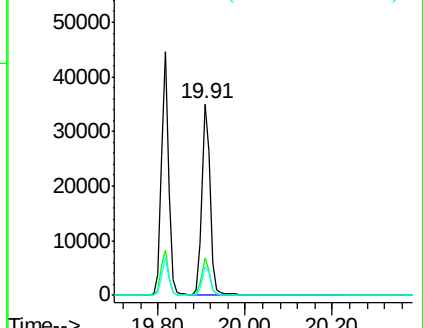
179 15.2 12.2 18.2



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



#18

Fluoranthene

Concen: 0.95 ng

RT: 21.73 min Scan# 3478

Delta R.T. 0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

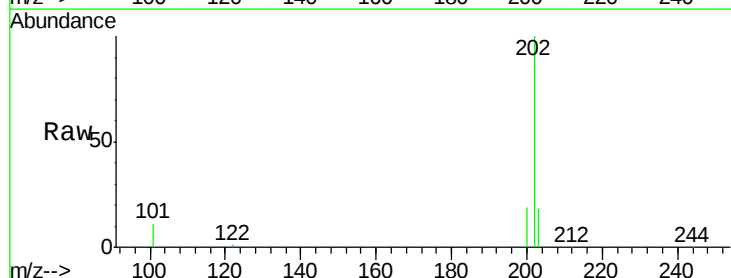
Tgt Ion:202 Resp: 44720

Ion Ratio Lower Upper

202 100

101 13.3 10.3 15.5

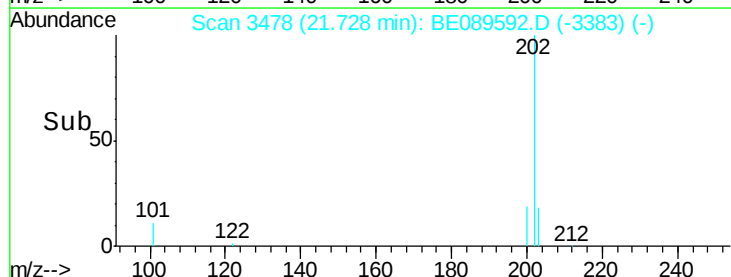
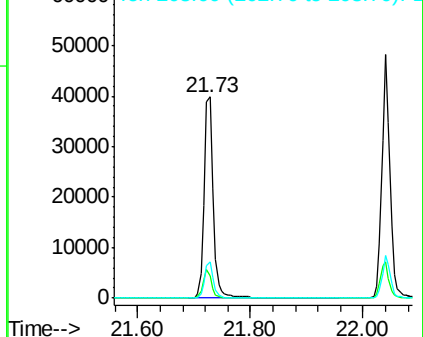
203 17.2 13.8 20.6

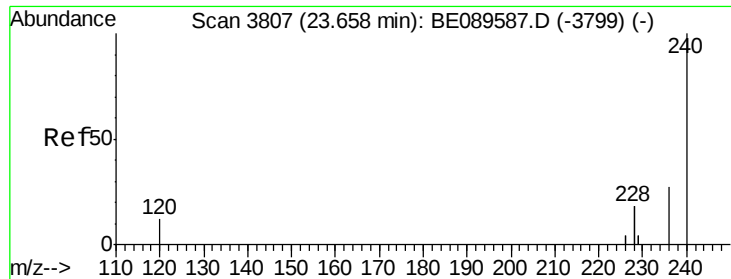


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3808

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

Instrument :

BNA_E

ClientSampleId :

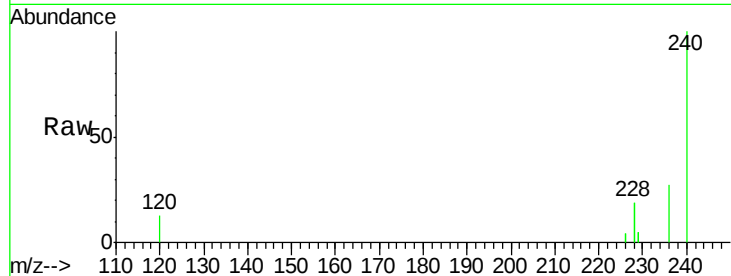
Tot Ion:240 Resp: 165778

Ion Ratio Lower Upper

240 100

120 12.8 9.9 14.9

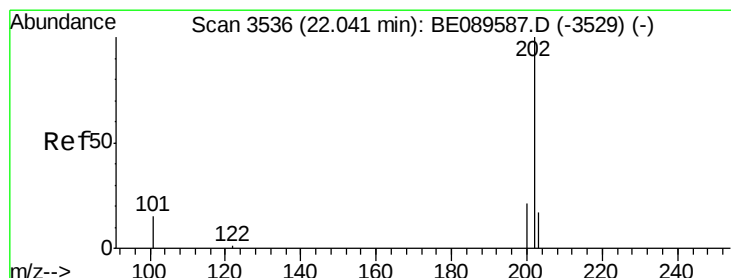
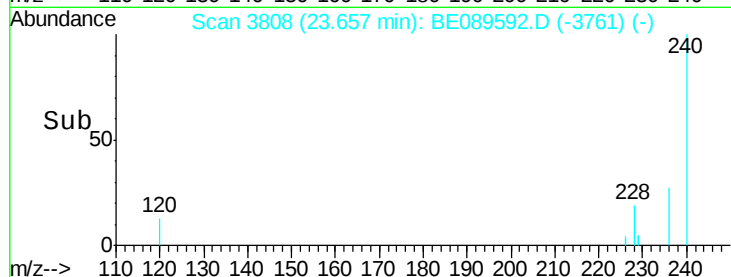
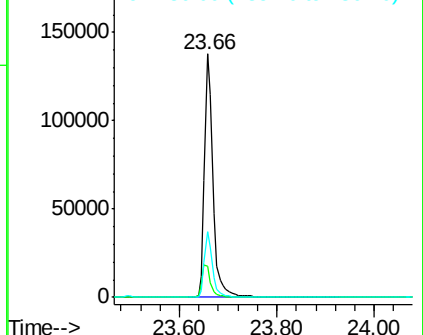
236 26.8 21.5 32.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 0.92 ng

RT: 22.04 min Scan# 3537

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

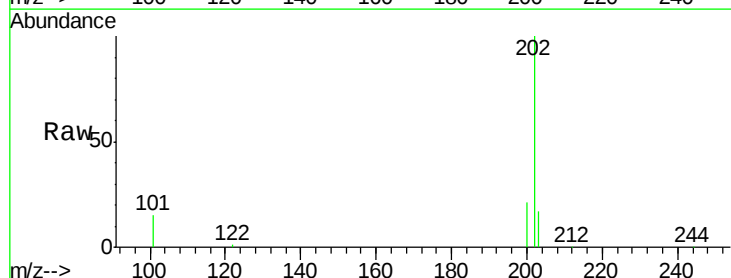
Tgt Ion:202 Resp: 48322

Ion Ratio Lower Upper

202 100

200 20.8 16.5 24.7

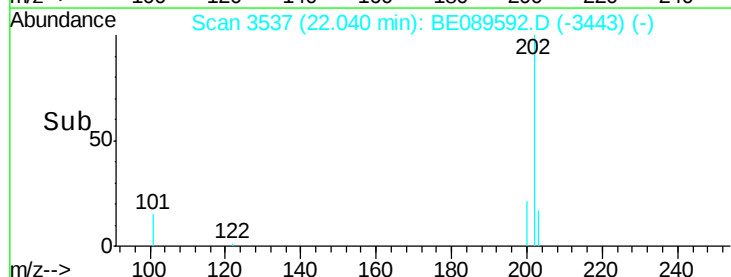
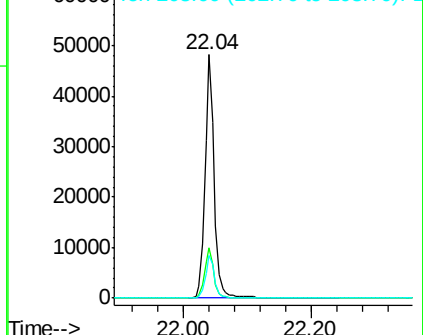
203 17.4 13.8 20.8

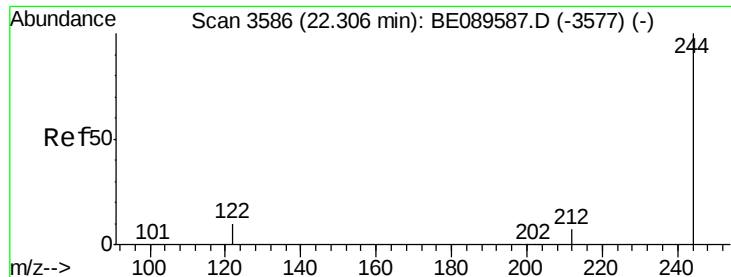


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 0.91 ng

RT: 22.31 min Scan# 3587

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

Instrument :

BNA_E

ClientSampleId :

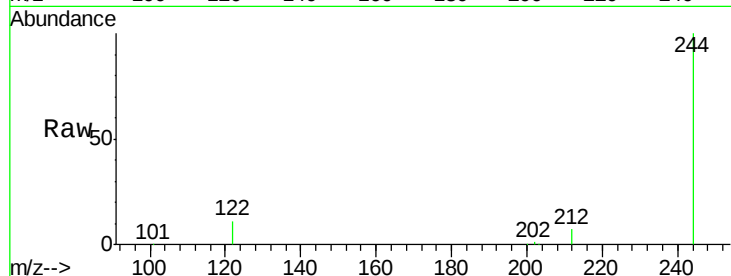
Tot Ion:244 Resp: 28189

Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

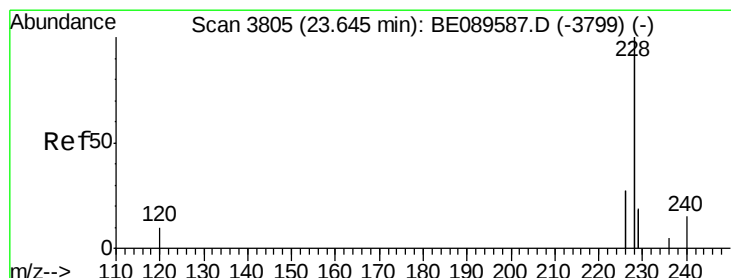
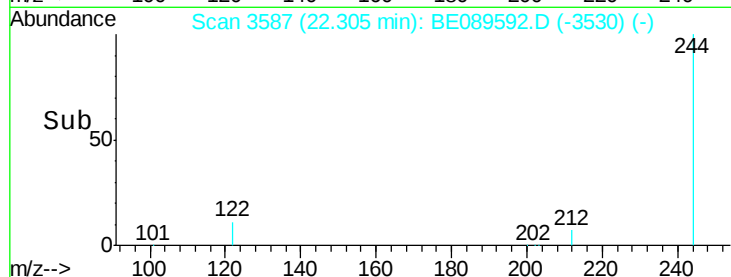
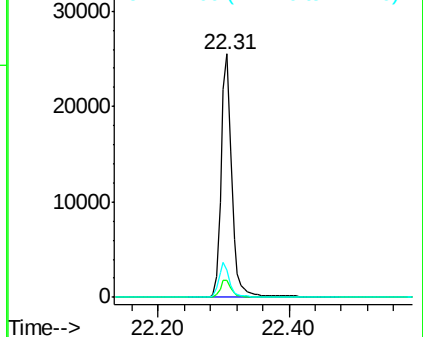
122 11.0 8.6 12.8



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 0.99 ng

RT: 23.64 min Scan# 3806

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

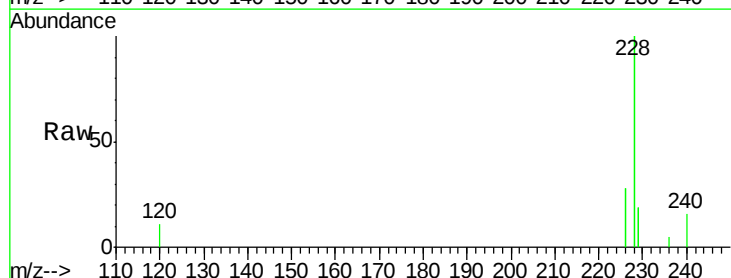
Tgt Ion:228 Resp: 170387

Ion Ratio Lower Upper

228 100

226 27.5 21.5 32.3

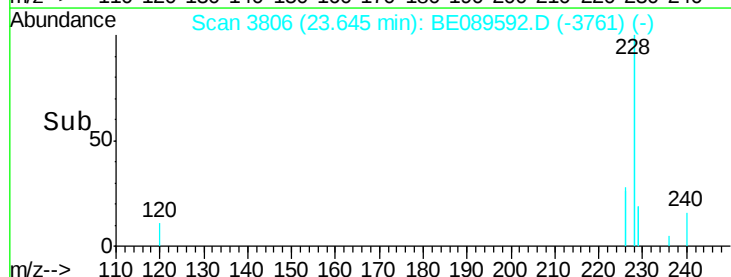
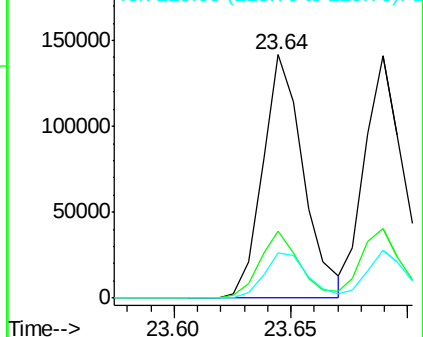
229 18.8 15.0 22.4

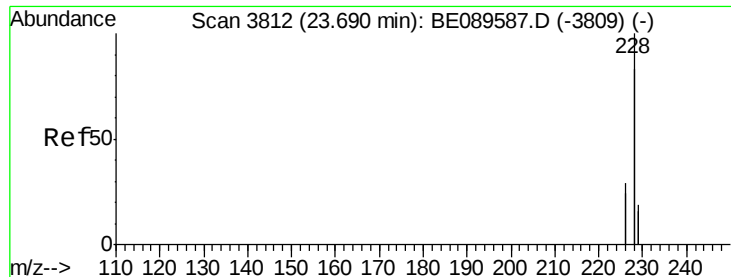


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.92 ng

RT: 23.69 min Scan# 3813

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

Instrument :

BNA_E

ClientSampleId :

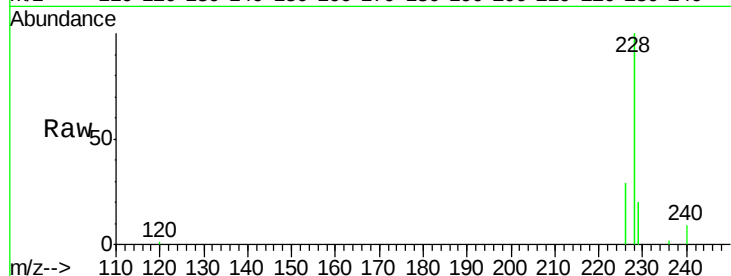
Tot Ion:228 Resp: 185634

Ion Ratio Lower Upper

228 100

226 28.8 23.3 34.9

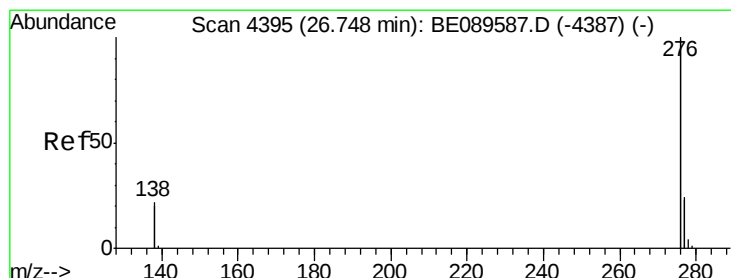
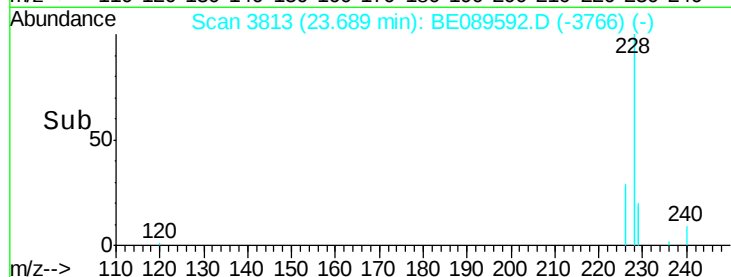
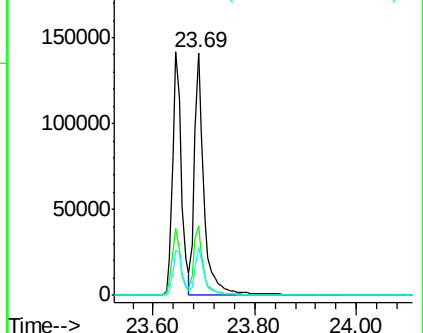
229 19.6 15.4 23.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.93 ng

RT: 26.75 min Scan# 4396

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

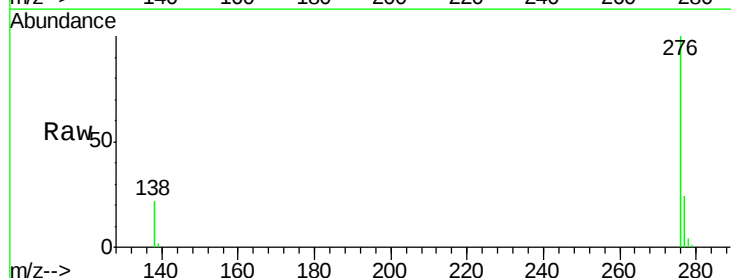
Tgt Ion:276 Resp: 137171

Ion Ratio Lower Upper

276 100

138 26.7 21.0 31.6

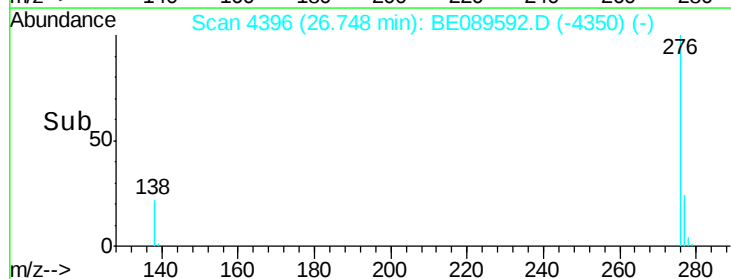
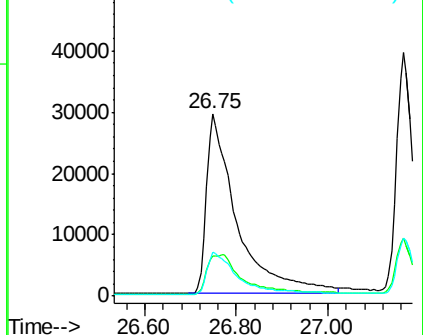
277 24.9 20.0 30.0

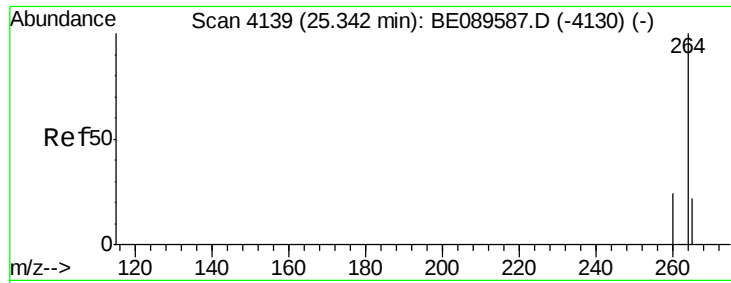


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

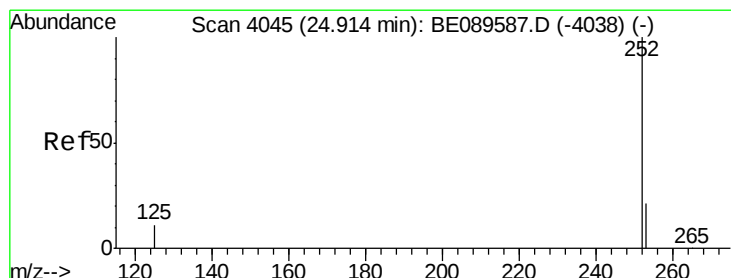
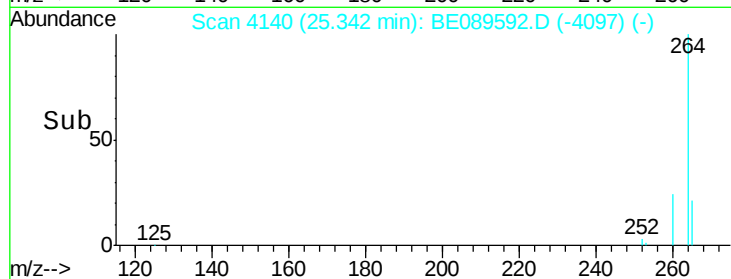
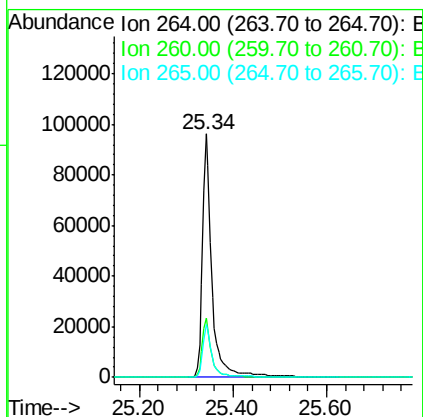
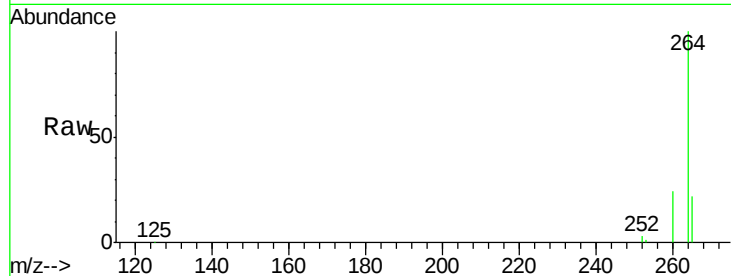




#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4140
Delta R.T. -0.00 min
Lab File: BE089592.D
Acq: 17 Feb 2015 9:54

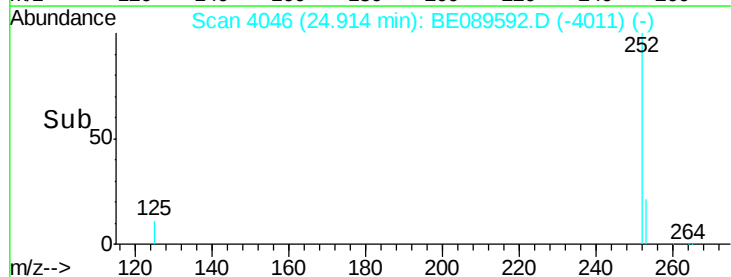
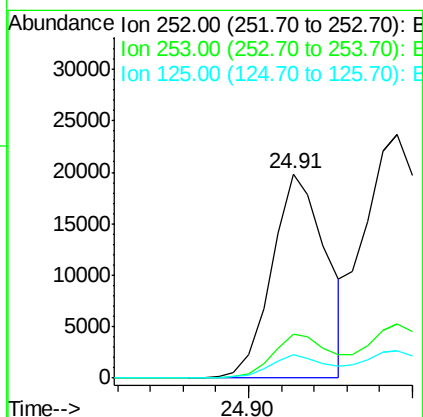
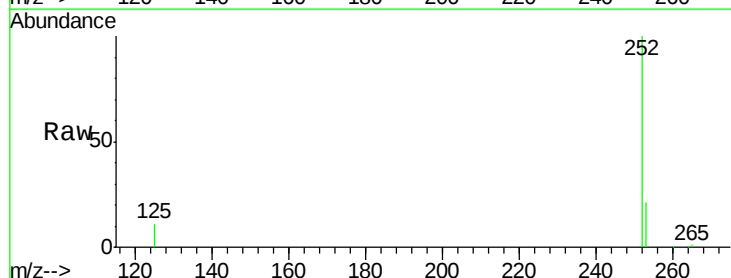
Instrument :
BNA_E
ClientSampleId :

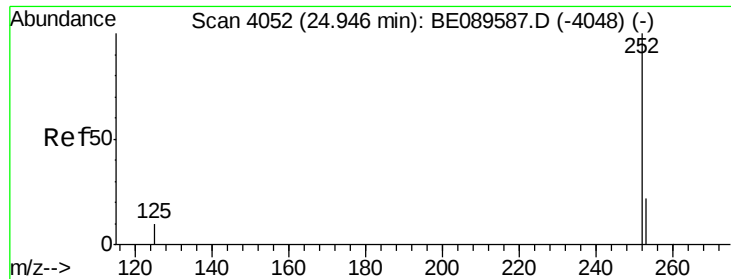
Tot Ion:264 Resp: 136263
Ion Ratio Lower Upper
264 100
260 24.4 19.4 29.0
265 21.6 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 0.83 ng
RT: 24.91 min Scan# 4046
Delta R.T. -0.00 min
Lab File: BE089592.D
Acq: 17 Feb 2015 9:54

Tgt Ion:252 Resp: 22799
Ion Ratio Lower Upper
252 100
253 21.3 17.3 25.9
125 11.2 8.9 13.3





#27

Benzo(k)fluoranthene

Concen: 1.03 ng

RT: 24.95 min Scan# 4053

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

Instrument :

BNA_E

ClientSampleId :

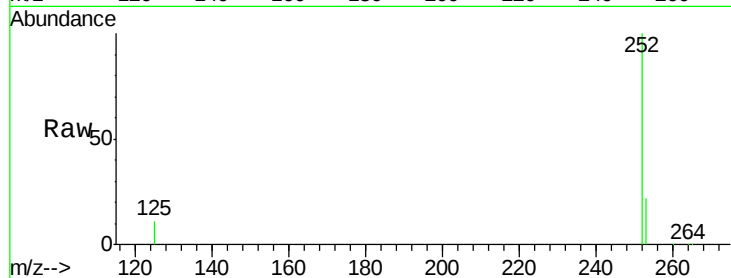
Tot Ion:252 Resp: 46462

Ion Ratio Lower Upper

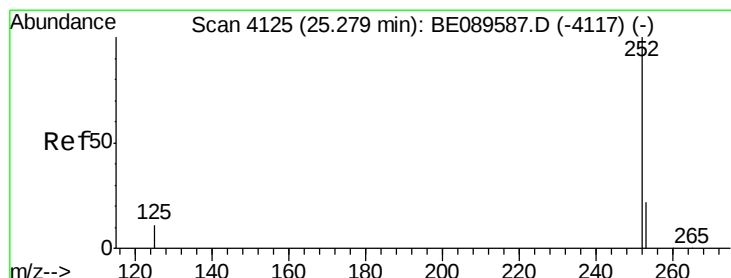
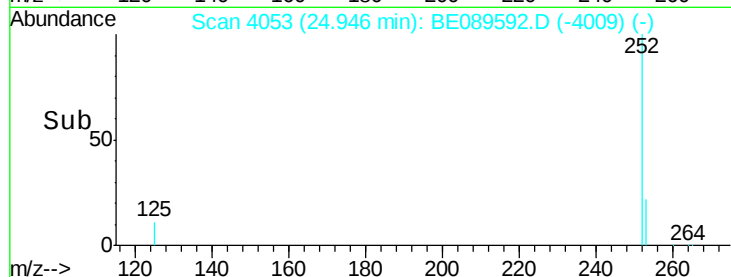
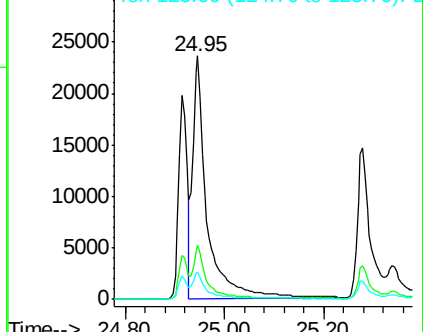
252 100

253 22.4 17.9 26.9

125 11.2 8.6 13.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#28

Benzo(a)pyrene

Concen: 0.93 ng

RT: 25.28 min Scan# 4126

Delta R.T. -0.00 min

Lab File: BE089592.D

Acq: 17 Feb 2015 9:54

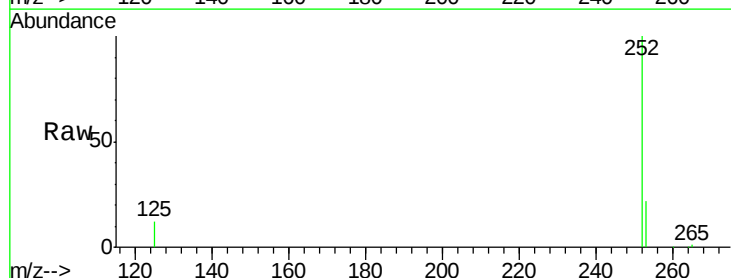
Tgt Ion:252 Resp: 24870

Ion Ratio Lower Upper

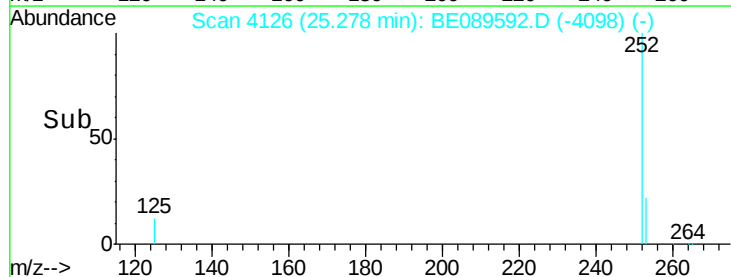
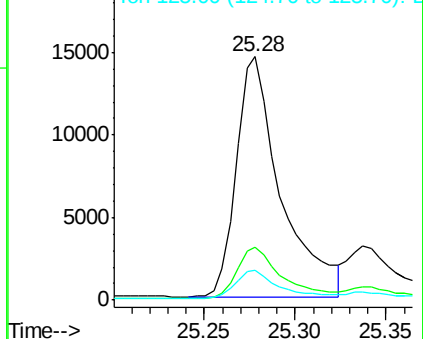
252 100

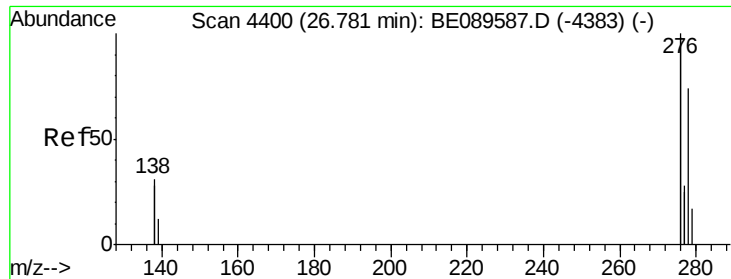
253 21.9 17.7 26.5

125 12.1 9.6 14.4



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



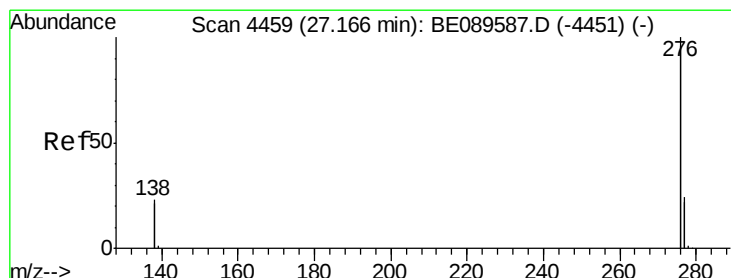
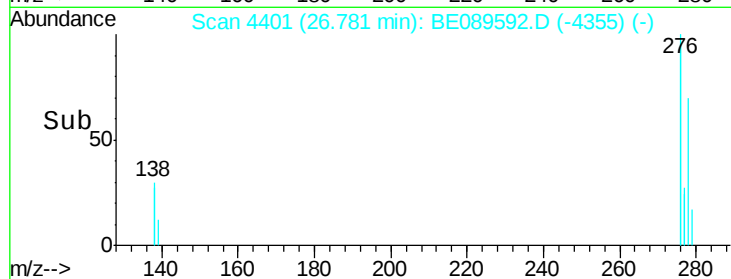
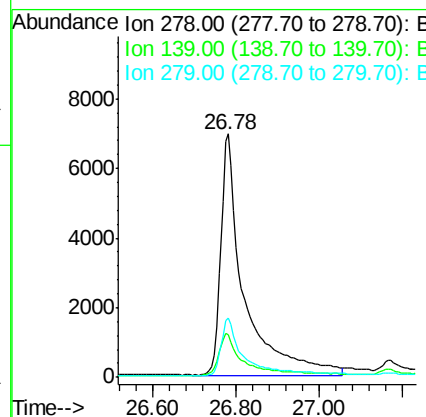
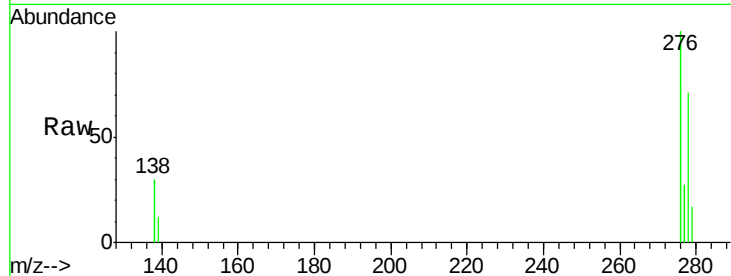


#29
Dibenzo(a,h)anthracene
Concen: 0.98 ng
RT: 26.78 min Scan# 4401
Delta R.T. -0.00 min
Lab File: BE089592.D
Acq: 17 Feb 2015 9:54

Instrument :
BNA_E
ClientSampleId :

Tot Ion:278 Resp: 26836

Ion	Ratio	Lower	Upper
278	100		
139	17.3	13.9	20.9
279	24.3	19.5	29.3



#30
Benzo(g,h,i)perylene
Concen: 0.93 ng
RT: 27.17 min Scan# 4460
Delta R.T. -0.00 min
Lab File: BE089592.D
Acq: 17 Feb 2015 9:54

Tgt Ion:276 Resp: 124724

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.1	28.7
138	23.6	18.5	27.7

