

Data Path : Z:\HPCHEM1\BNA_E\Data\BE022615\
 Data File : BE089694.D
 Acq On : 26 Feb 2015 16:16
 Operator : TP/JJ
 Sample : PB81860BSD
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81860BSD

Quant Time: Feb 27 15:32:59 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 14:06:35 2015
 Response via : Initial Calibration

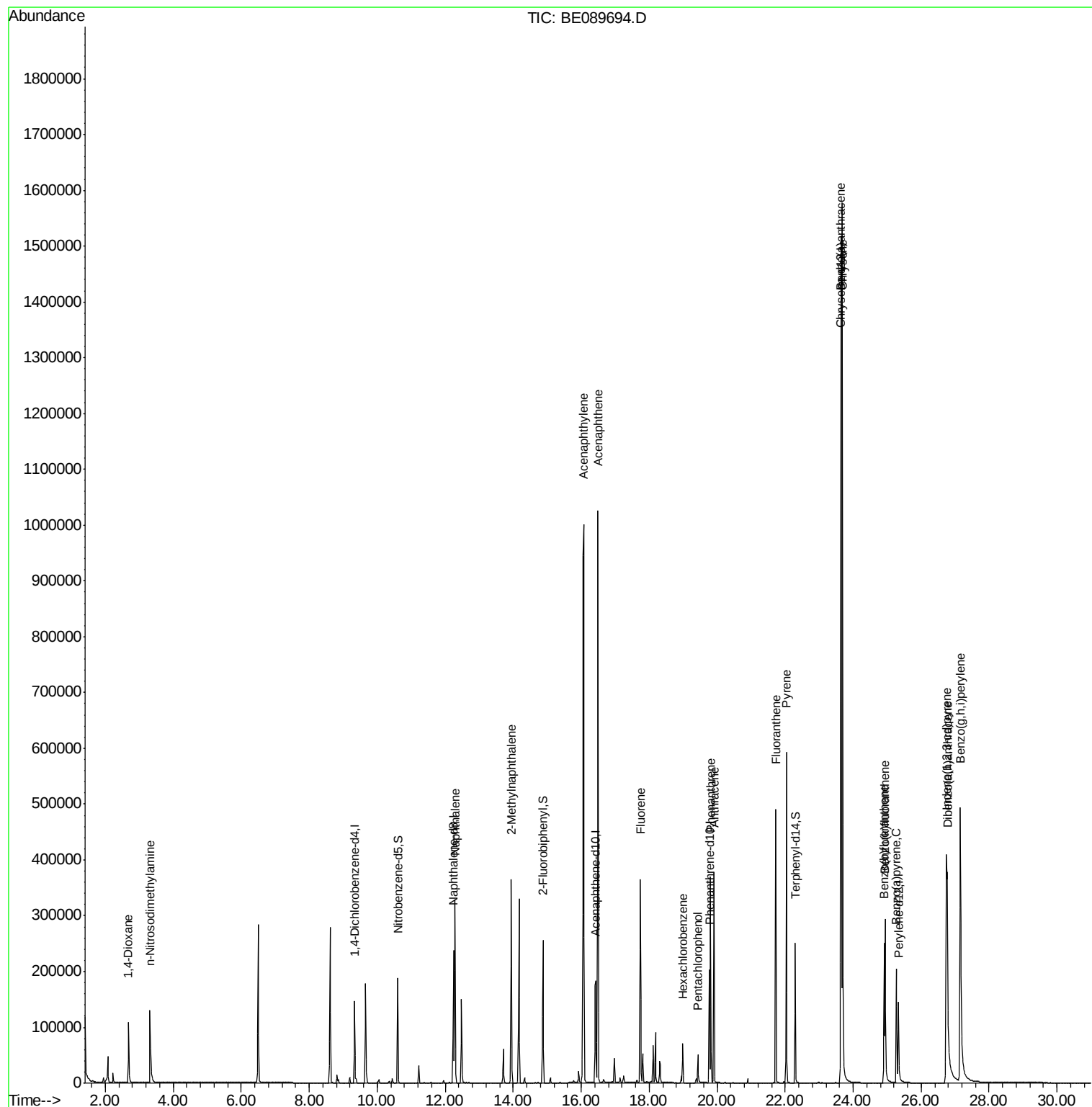
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.33	152	63033	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	272755	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	123754	5.00	ng	0.01
13) Phenanthrene-d10	19.77	188	214275	5.00	ng	0.00
19) Chrysene-d12	23.65	240	182766	5.00	ng	0.00
25) Perylene-d12	25.34	264	137146	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	139387	8.61	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	238119	8.65	ng	0.00
21) Terphenyl-d14	22.30	244	210728	9.83	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.68	88	59006	7.47	ng	98
3) n-Nitrosodimethylamine	3.31	42	82525	7.83	ng	96
6) Naphthalene	12.29	128	394878	7.48	ng	99
7) 2-Methylnaphthalene	13.94	142	240843	8.03	ng	96
10) Acenaphthylene	16.07	152	1442534	8.12	ng	100
11) Acenaphthene	16.49	154	211856	7.53	ng	97
12) Fluorene	17.74	166	246989	7.91	ng	100
14) Hexachlorobenzene	18.99	284	44837	8.08	ng	97
15) Pentachlorophenol	19.43	266	34798	13.53	ng	92
16) Phenanthrene	19.81	178	348260	7.62	ng	100
17) Anthracene	19.91	178	352721	9.07	ng	100
18) Fluoranthene	21.72	202	343188	8.99	ng	99
20) Pyrene	22.03	202	374252	8.47	ng	99
22) Benzo(a)anthracene	23.64	228	1161666	9.66	ng	96
23) Chrysene	23.68	228	1237390	7.47	ng	98
24) Indeno(1,2,3-cd)pyrene	26.74	276	871903	7.22	ng	# 46
26) Benzo(b)fluoranthene	24.91	252	192341	7.92	ng	96
27) Benzo(k)fluoranthene	24.94	252	301975	8.77	ng	98
28) Benzo(a)pyrene	25.27	252	202641	7.32	ng	95
29) Dibenzo(a,h)anthracene	26.77	278	178703	7.34	ng	# 88
30) Benzo(g,h,i)perylene	27.16	276	774540	11.81	ng	93

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.33 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

Instrument :

BNA_E

ClientSampleId :

PB81860BSD

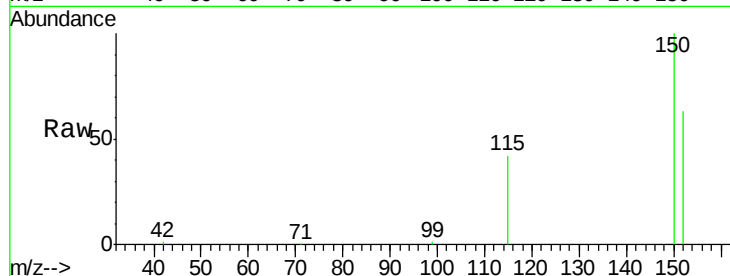
Tgt Ion:152 Resp: 63033

Ion Ratio Lower Upper

152 100

150 158.4 123.4 185.0

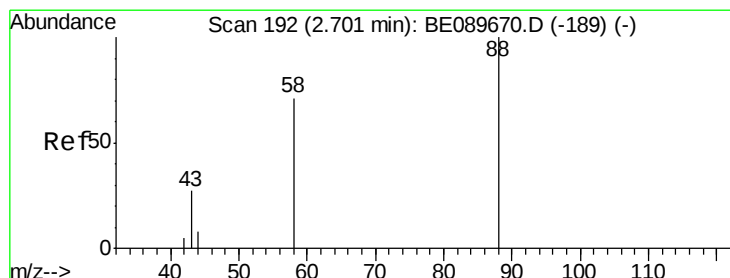
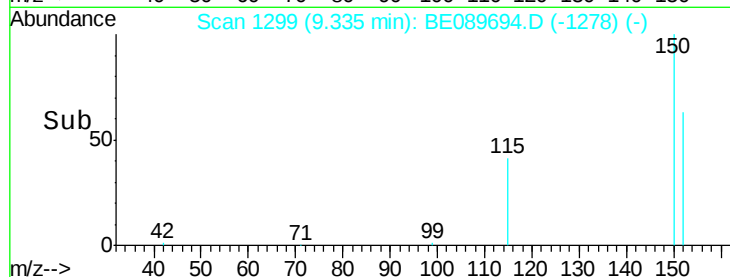
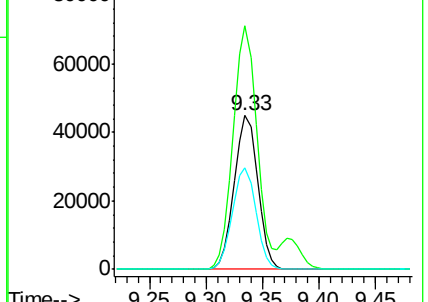
115 65.8 50.8 76.2



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: 7.47 ng

RT: 2.68 min Scan# 189

Delta R.T. -0.02 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

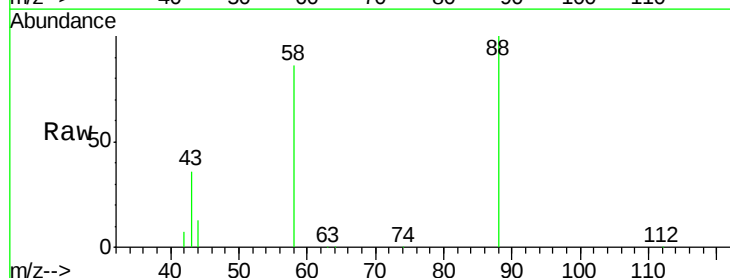
Tgt Ion: 88 Resp: 59006

Ion Ratio Lower Upper

88 100

58 80.2 62.4 93.6

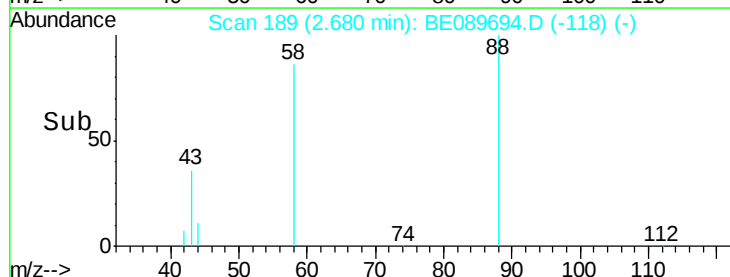
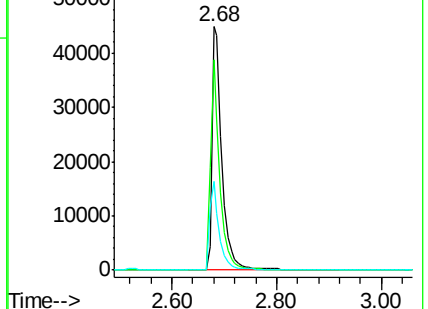
43 34.1 26.6 40.0

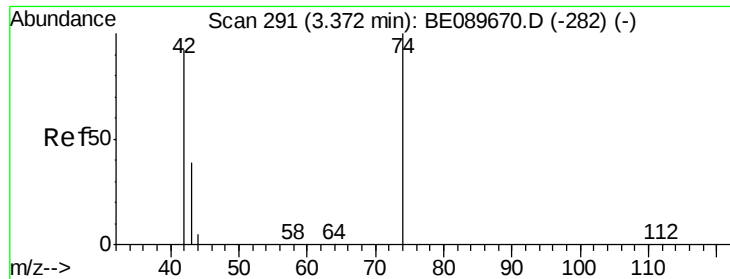


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



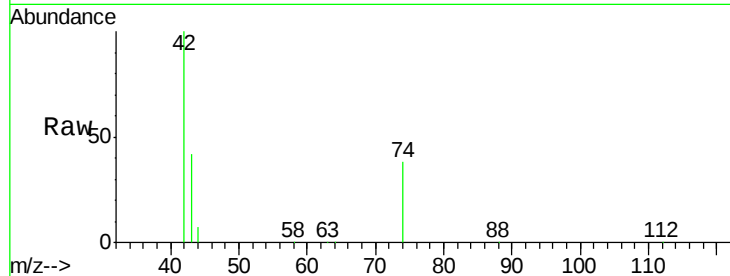


#3

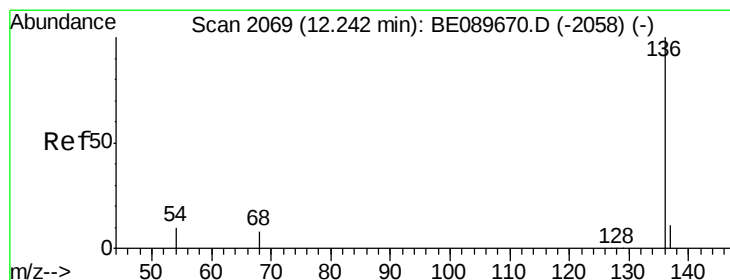
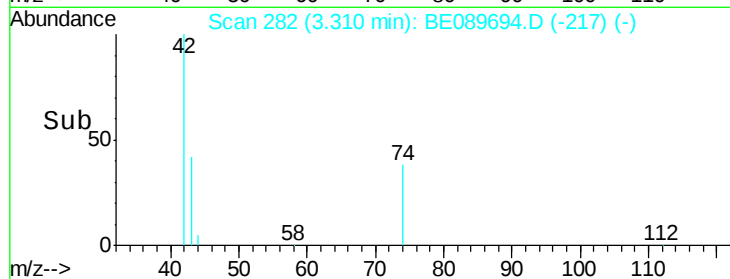
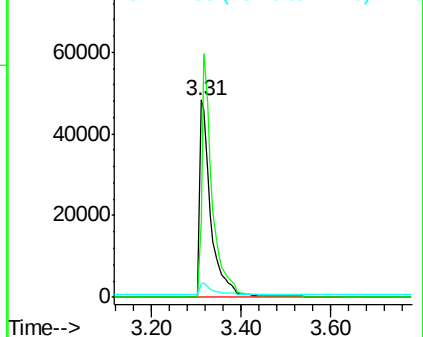
n-Nitrosodimethylamine
Concen: 7.83 ng
RT: 3.31 min Scan# 282
Delta R.T. -0.06 min
Lab File: BE089694.D
Acq: 26 Feb 2015 16:16

Instrument :
BNA_E
ClientSampleId :
PB81860BSD

Tgt Ion: 42 Resp: 82525
Ion Ratio Lower Upper
42 100
74 117.9 91.1 136.7
44 6.3 4.7 7.1



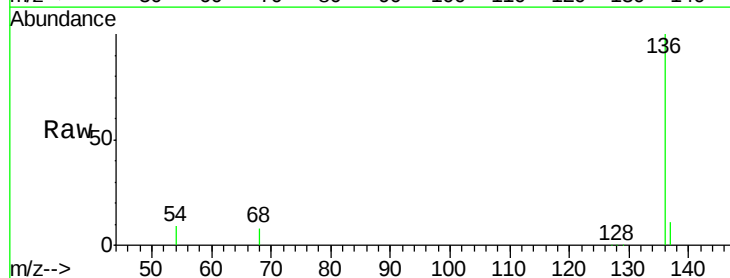
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



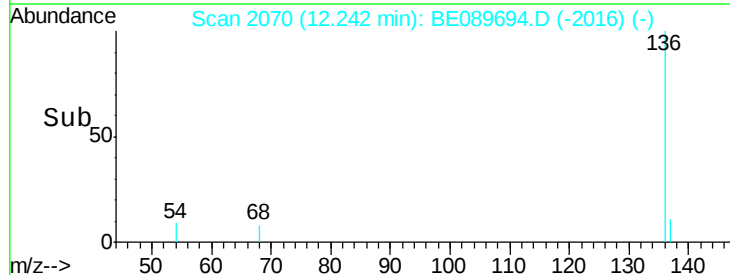
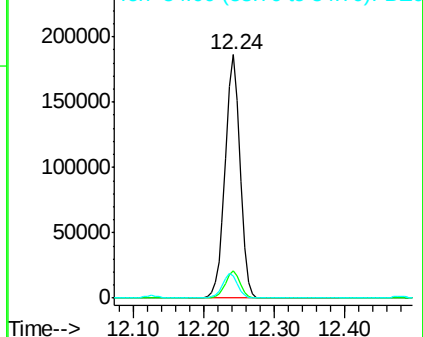
#4

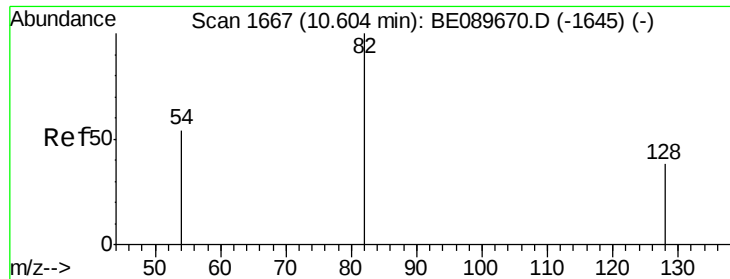
Naphthalene-d8
Concen: 5.00 ng
RT: 12.24 min Scan# 2070
Delta R.T. -0.00 min
Lab File: BE089694.D
Acq: 26 Feb 2015 16:16

Tgt Ion: 136 Resp: 272755
Ion Ratio Lower Upper
136 100
137 11.0 8.7 13.1
54 9.3 7.8 11.8



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





#5

Nitrobenzene-d5

Concen: 8.61 ng

RT: 10.60 min Scan# 1667

Delta R.T. -0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

Instrument :

BNA_E

ClientSampleId :

PB81860BSD

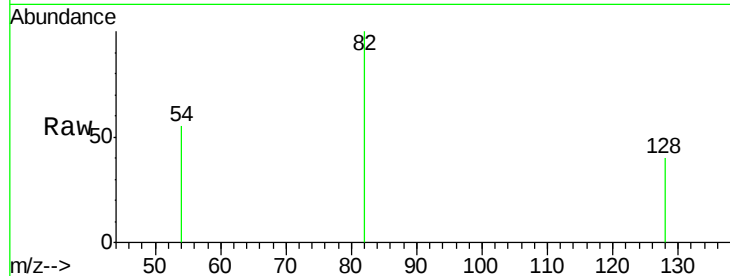
Tgt Ion: 82 Resp: 139387

Ion Ratio Lower Upper

82 100

128 40.0 30.6 46.0

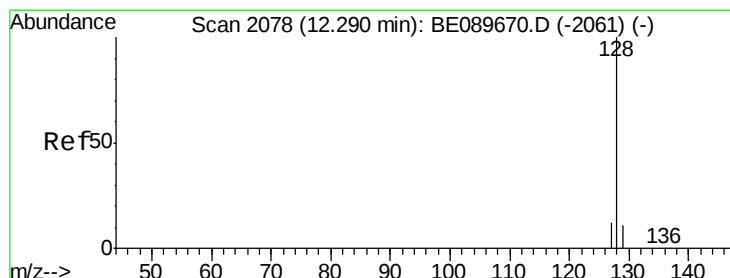
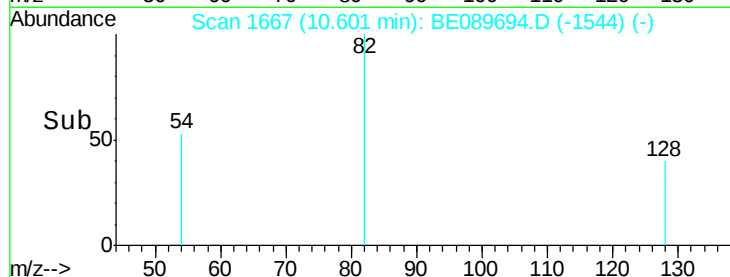
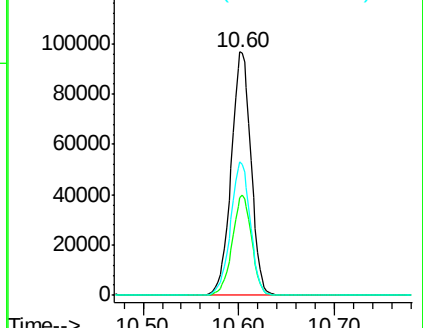
54 54.7 43.6 65.4



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 7.48 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

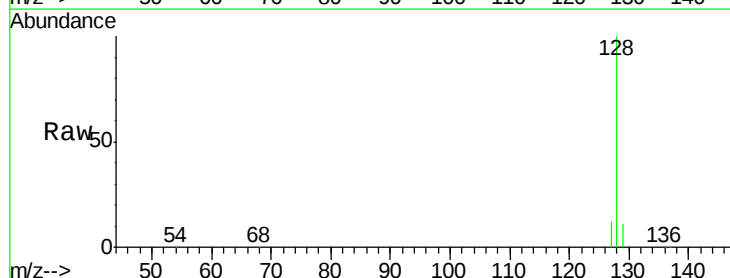
Tgt Ion: 128 Resp: 394878

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

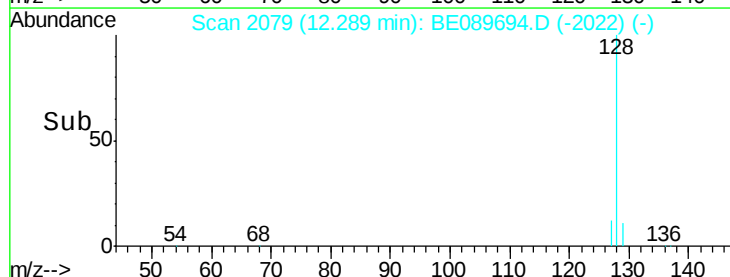
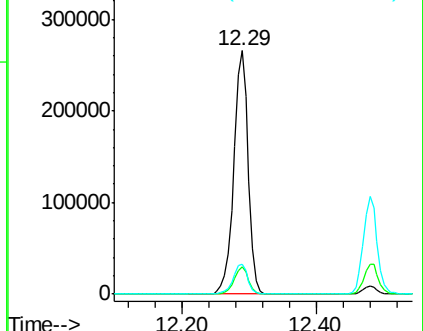
127 12.4 9.7 14.5



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 8.03 ng

RT: 13.94 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

Instrument :

BNA_E

ClientSampleId :

PB81860BSD

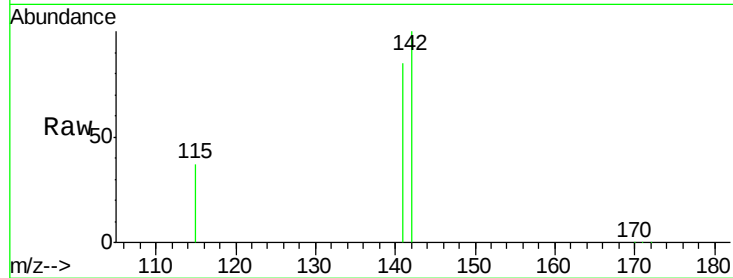
Tgt Ion:142 Resp: 240843

Ion Ratio Lower Upper

142 100

141 85.3 66.0 99.0

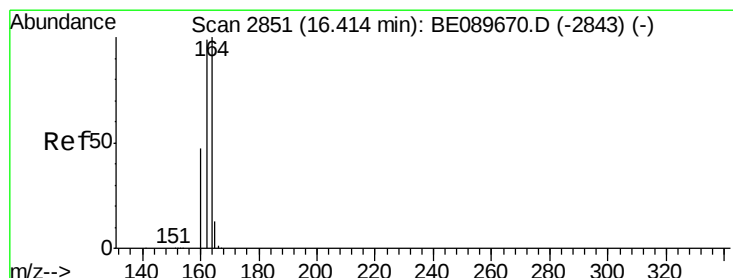
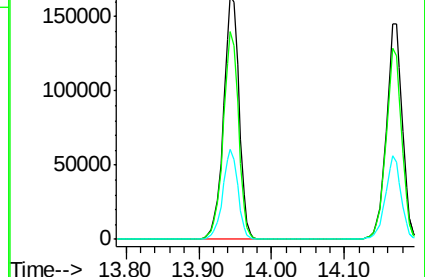
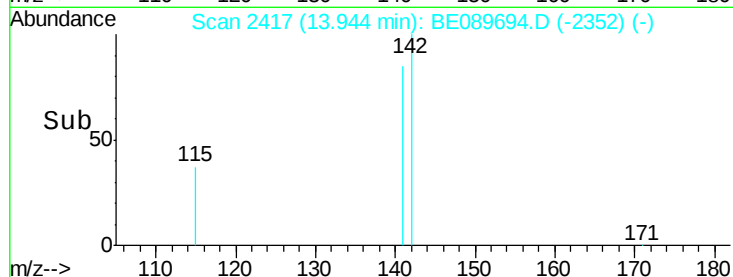
115 37.2 27.4 41.0



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. 0.01 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

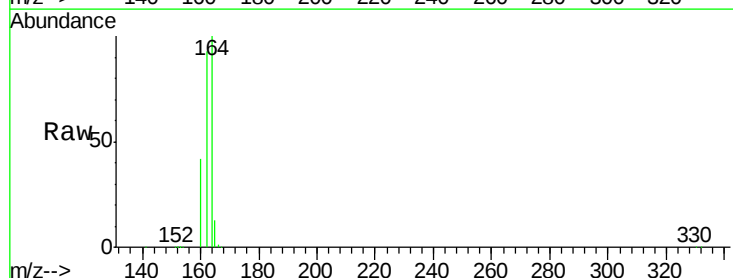
Tgt Ion:164 Resp: 123754

Ion Ratio Lower Upper

164 100

162 92.7 79.4 119.2

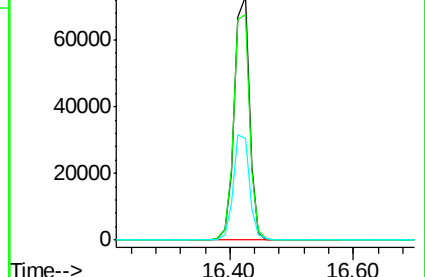
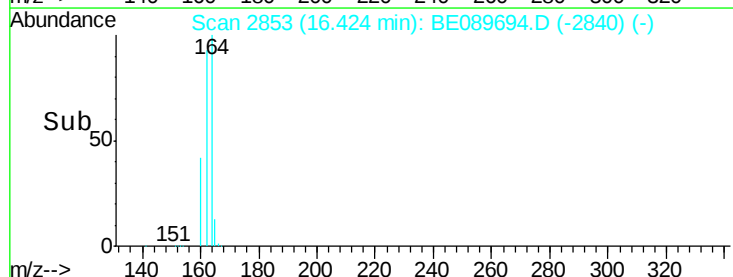
160 41.9 37.6 56.4



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: 8.65 ng

RT: 14.88 min Scan# 2622

Delta R.T. 0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

Instrument :

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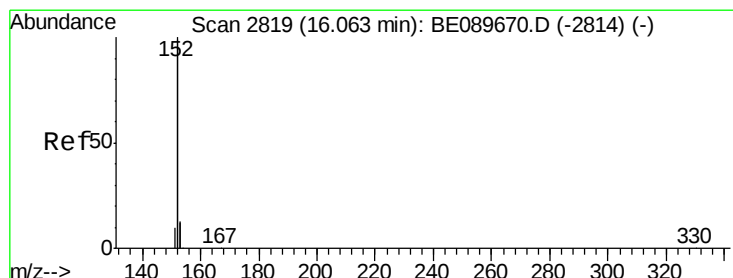
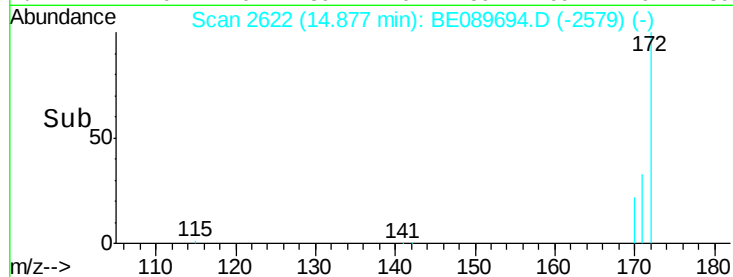
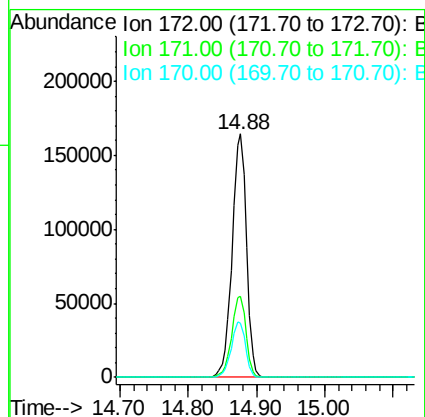
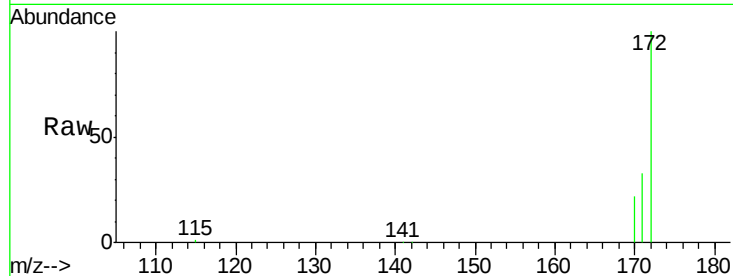
Tgt Ion:172 Resp: 238119

Ion Ratio Lower Upper

172 100

171 33.1 27.3 40.9

170 22.1 18.5 27.7



#10

Acenaphthylene

Concen: 8.12 ng

RT: 16.07 min Scan# 2821

Delta R.T. 0.01 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

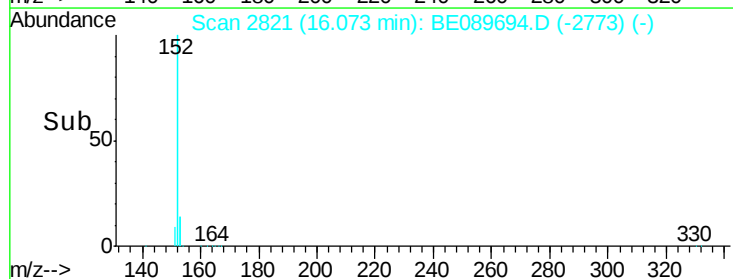
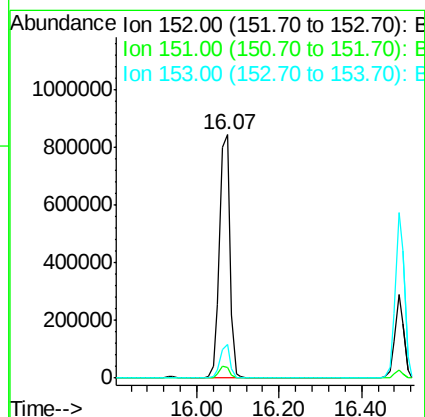
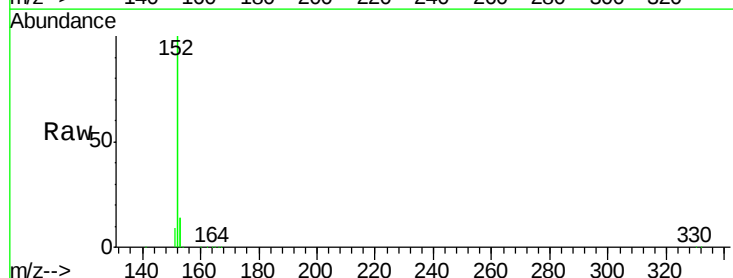
Tgt Ion:152 Resp: 1442534

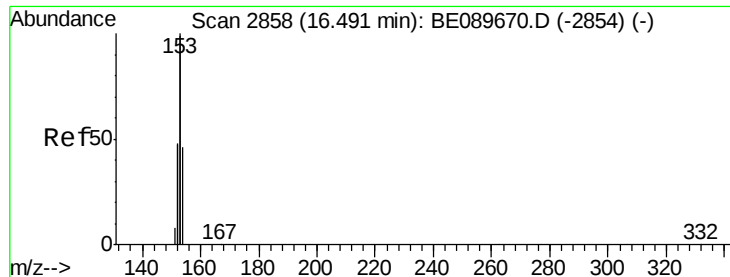
Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.6

153 13.1 10.4 15.6





#11

Acenaphthene

Concen: 7.53 ng

RT: 16.49 min Scan# 2859

Delta R.T. -0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

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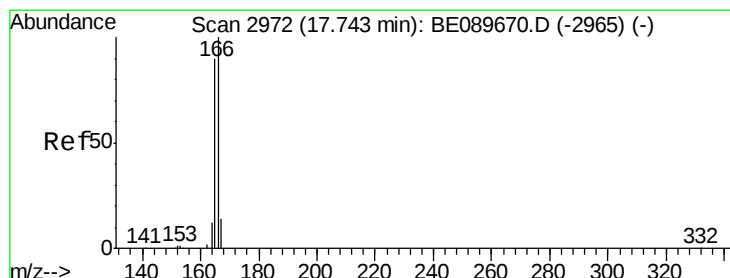
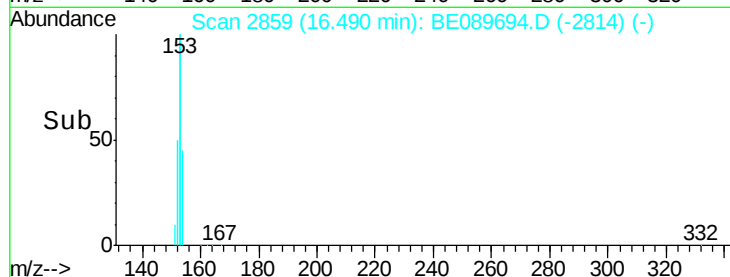
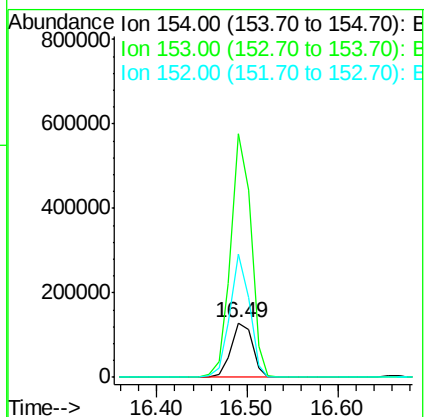
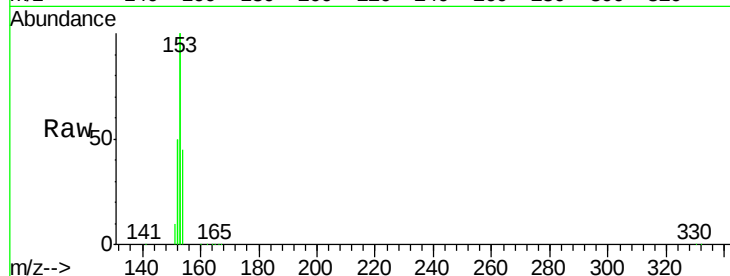
Tgt Ion:154 Resp: 211856

Ion Ratio Lower Upper

154 100

153 425.7 345.8 518.8

152 206.6 168.6 252.8



#12

Fluorene

Concen: 7.91 ng

RT: 17.74 min Scan# 2973

Delta R.T. -0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

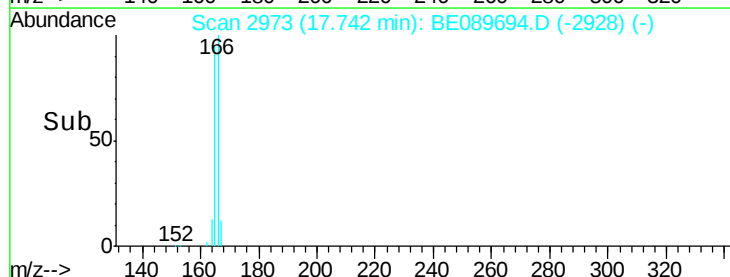
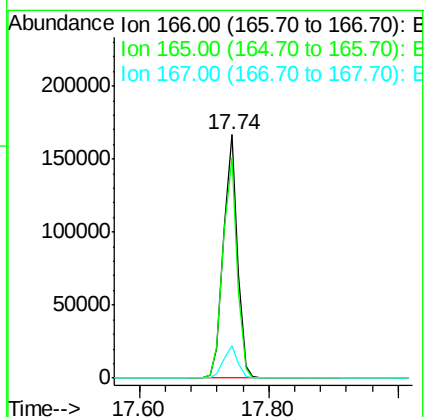
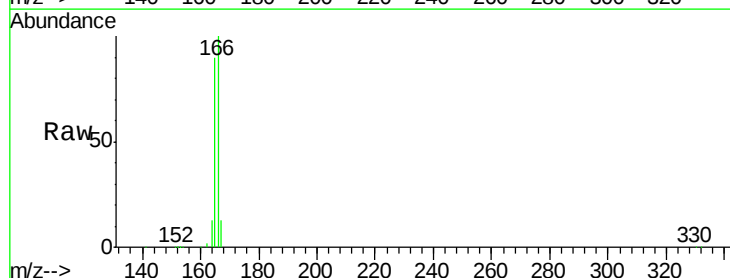
Tgt Ion:166 Resp: 246989

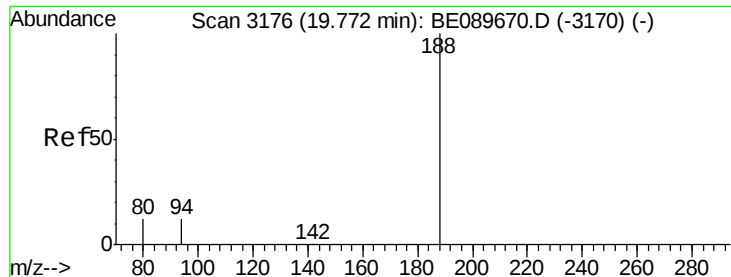
Ion Ratio Lower Upper

166 100

165 91.9 73.6 110.4

167 13.3 10.6 16.0





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3177

Delta R.T. -0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

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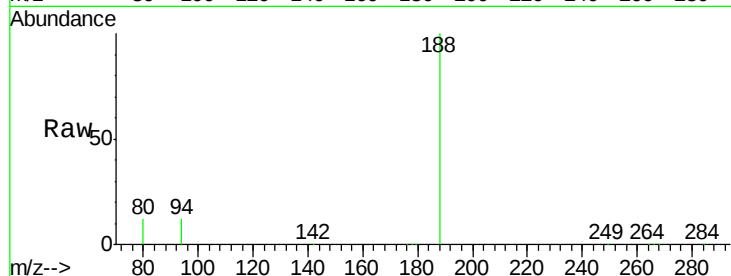
Tgt Ion:188 Resp: 214275

Ion Ratio Lower Upper

188 100

94 11.6 9.4 14.2

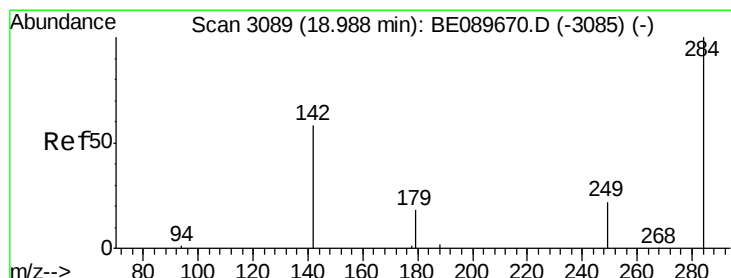
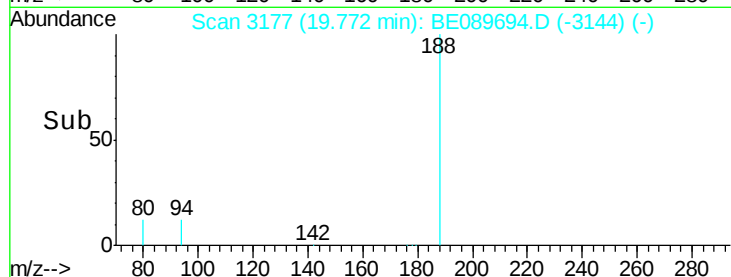
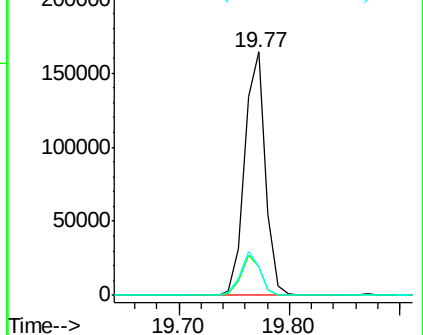
80 11.6 9.5 14.3



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: 8.08 ng

RT: 18.99 min Scan# 3090

Delta R.T. -0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

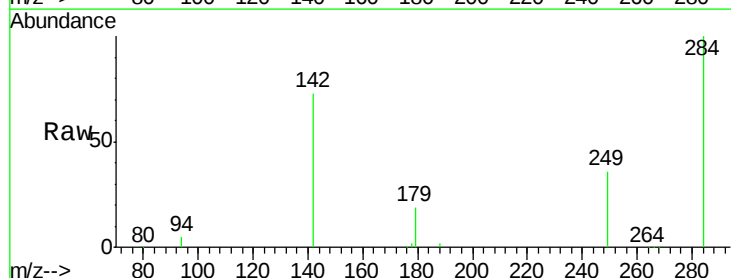
Tgt Ion:284 Resp: 44837

Ion Ratio Lower Upper

284 100

142 67.0 55.4 83.2

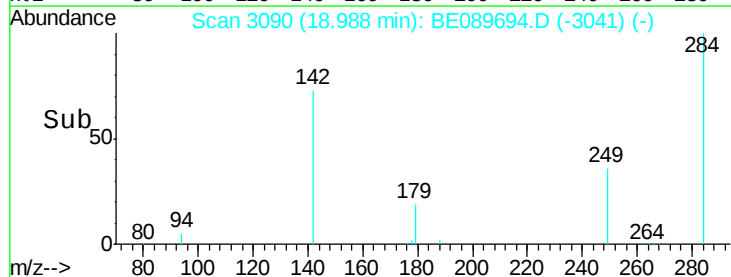
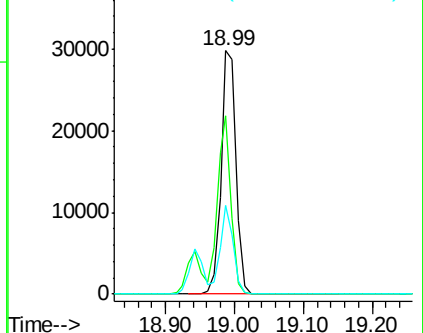
249 32.2 27.2 40.8



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

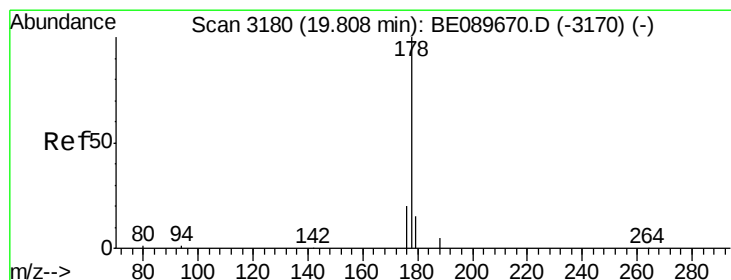
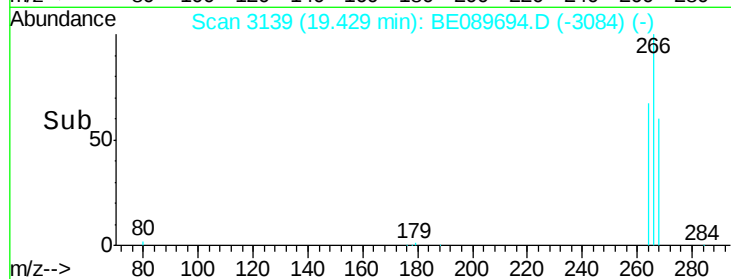
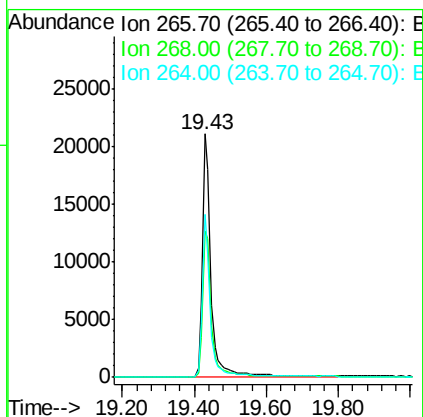
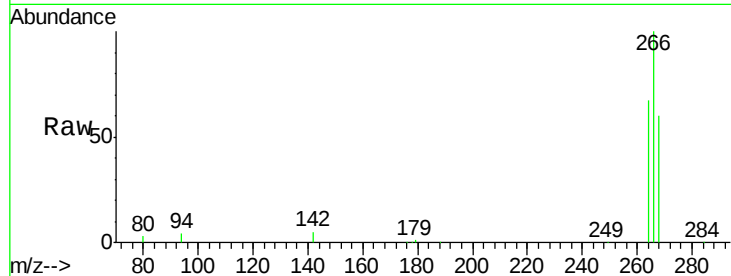




#15
 Pentachlorophenol
 Concen: 13.53 ng
 RT: 19.43 min Scan# 3139
 Delta R.T. -0.01 min
 Lab File: BE089694.D
 Acq: 26 Feb 2015 16:16

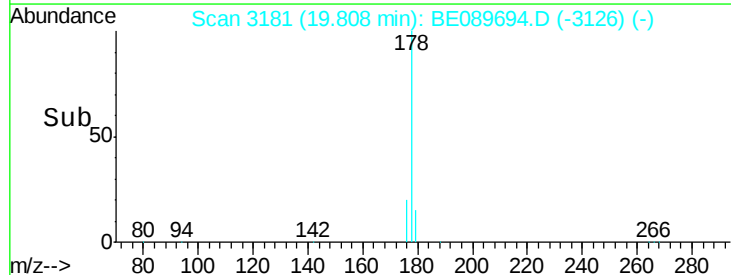
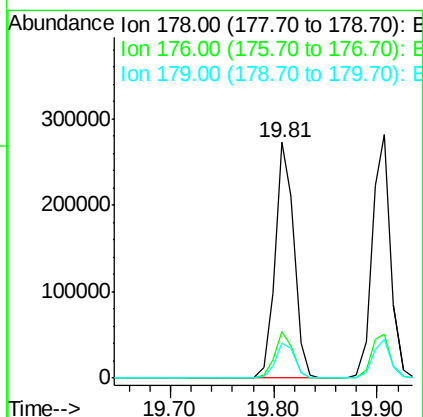
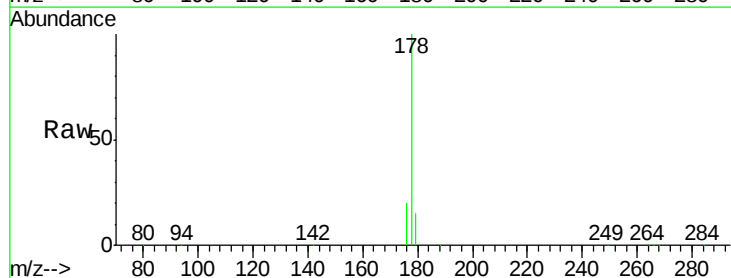
Instrument :
 BNA_E
 ClientSampleId :
 PB81860BSD

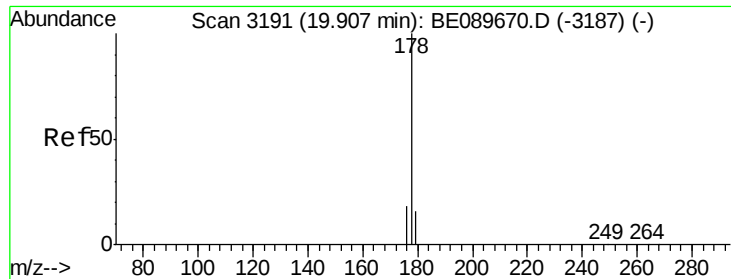
Tgt Ion: 266 Resp: 34798
 Ion Ratio Lower Upper
 266 100
 268 60.3 56.3 84.5
 264 66.8 51.8 77.8



#16
 Phenanthrene
 Concen: 7.62 ng
 RT: 19.81 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: BE089694.D
 Acq: 26 Feb 2015 16:16

Tgt Ion: 178 Resp: 348260
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.3 22.9
 179 15.4 12.5 18.7





#17

Anthracene

Concen: 9.07 ng

RT: 19.91 min Scan# 3192

Delta R.T. -0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

Instrument :

BNA_E

ClientSampleId :

PB81860BSD

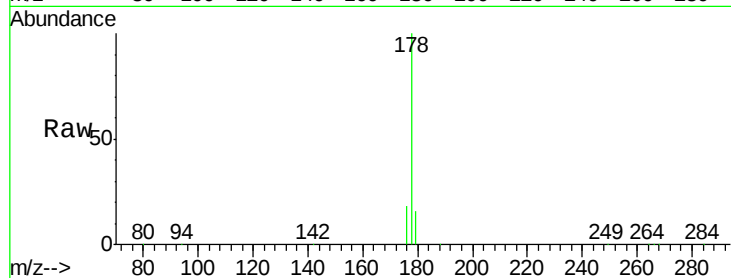
Tgt Ion:178 Resp: 352721

Ion Ratio Lower Upper

178 100

176 18.7 14.8 22.2

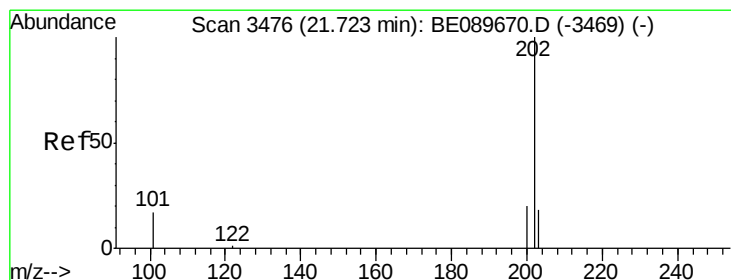
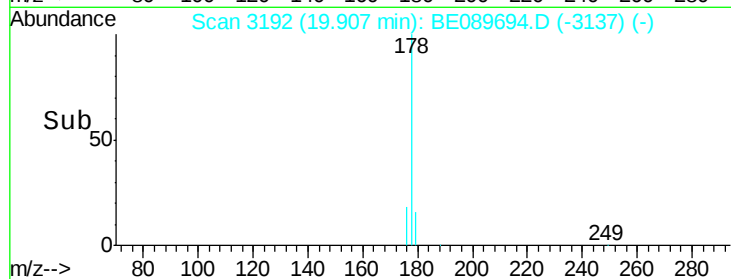
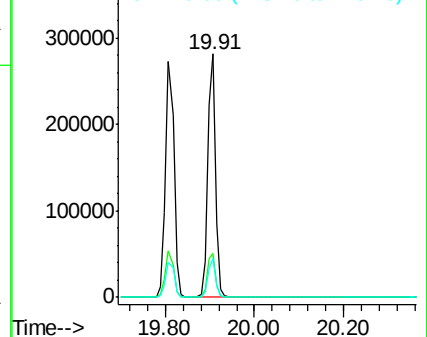
179 15.2 12.2 18.2



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: 8.99 ng

RT: 21.72 min Scan# 3476

Delta R.T. -0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

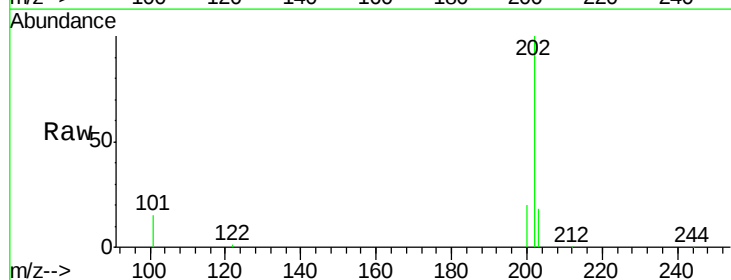
Tgt Ion:202 Resp: 343188

Ion Ratio Lower Upper

202 100

101 18.3 14.9 22.3

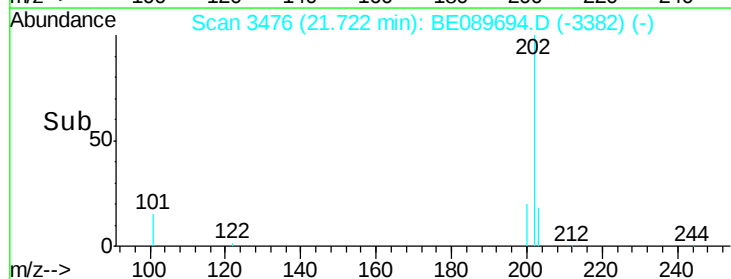
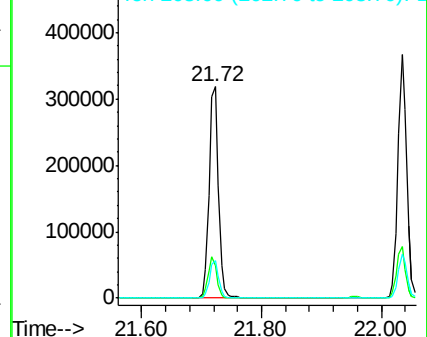
203 17.5 13.8 20.6

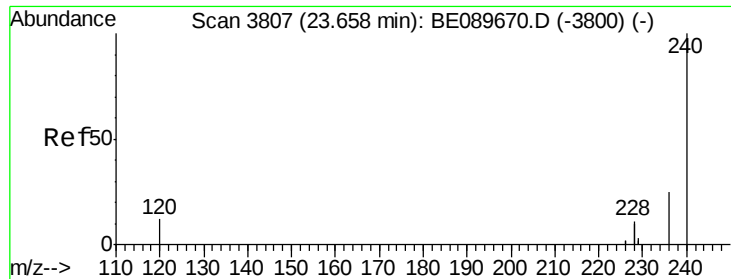


Abundance Ion 202.00 (201.70 to 202.70): E

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: 23.65 min Scan# 3806

Delta R.T. -0.01 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

Instrument :

BNA_E

ClientSampleId :

PB81860BSD

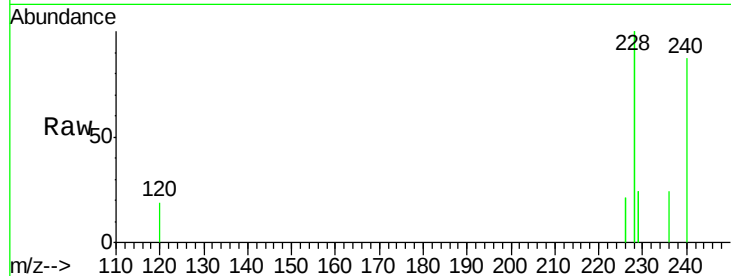
Tgt Ion:240 Resp: 182766

Ion Ratio Lower Upper

240 100

120 21.3 9.4 14.0#

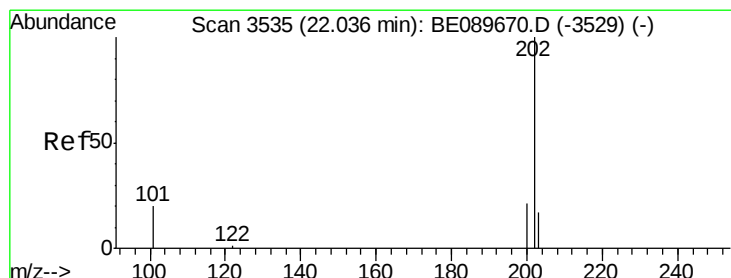
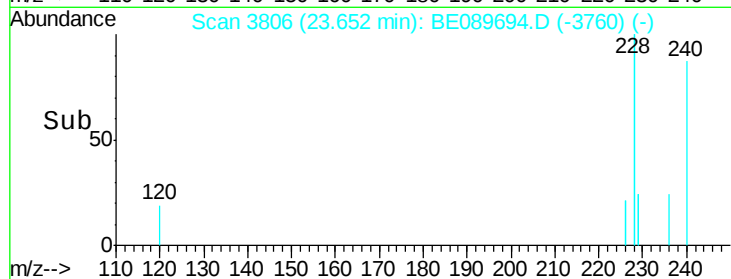
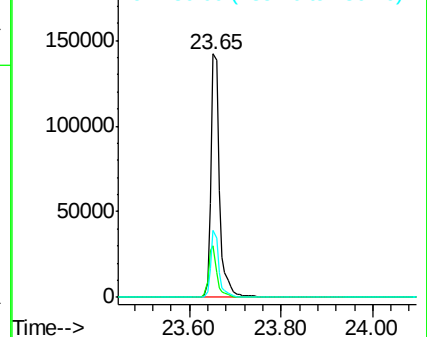
236 27.4 19.9 29.9



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: 8.47 ng

RT: 22.03 min Scan# 3535

Delta R.T. -0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

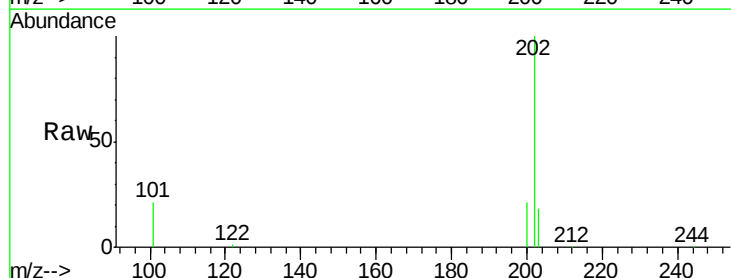
Tgt Ion:202 Resp: 374252

Ion Ratio Lower Upper

202 100

200 21.0 16.4 24.6

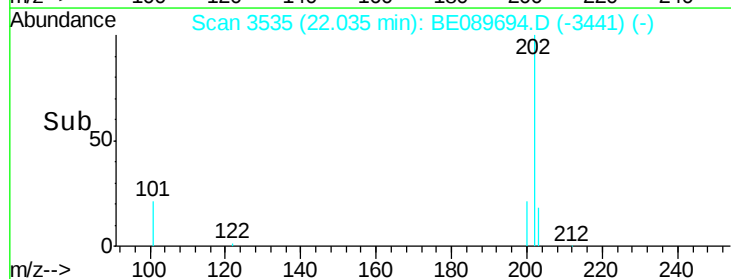
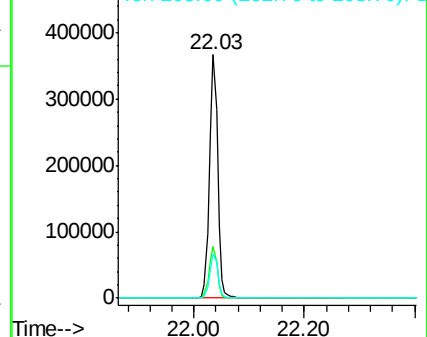
203 18.1 13.9 20.9



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: 9.83 ng

RT: 22.30 min Scan# 3585

Delta R.T. -0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

Instrument :

BNA_E

ClientSampleId :

PB81860BSD

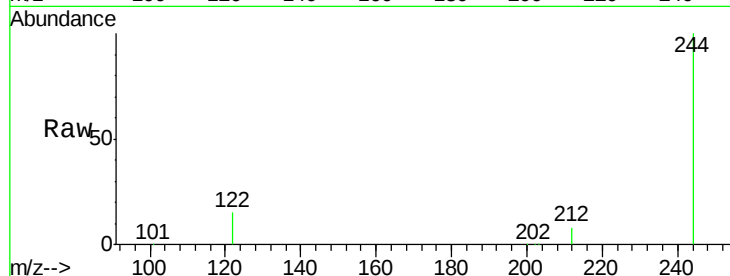
Tgt Ion:244 Resp: 210728

Ion Ratio Lower Upper

244 100

212 7.8 7.0 10.6

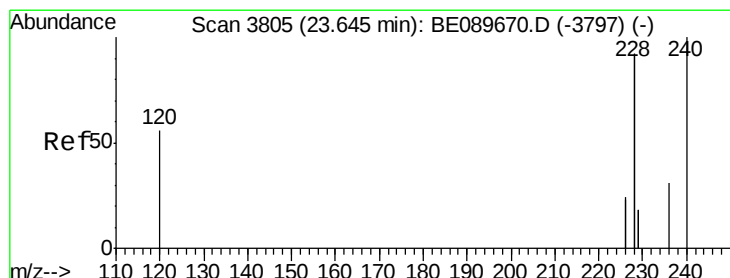
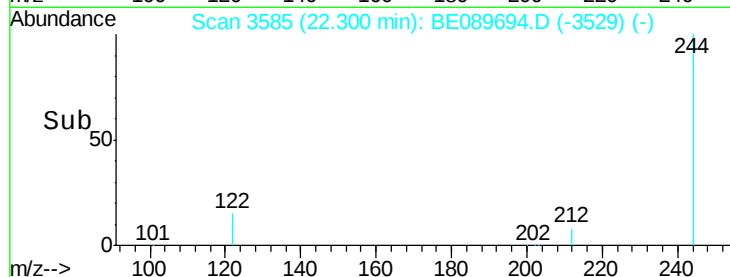
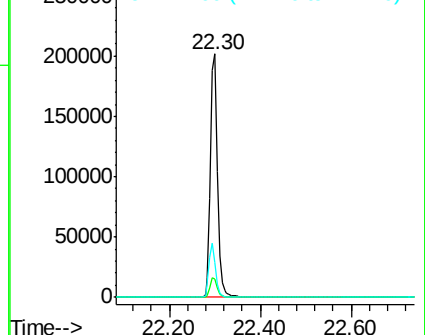
122 14.5 15.4 23.0#



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: 9.66 ng

RT: 23.64 min Scan# 3804

Delta R.T. -0.01 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

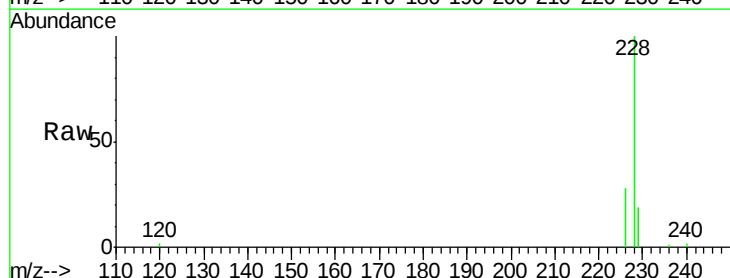
Tgt Ion:228 Resp: 1161666

Ion Ratio Lower Upper

228 100

226 28.1 20.6 31.0

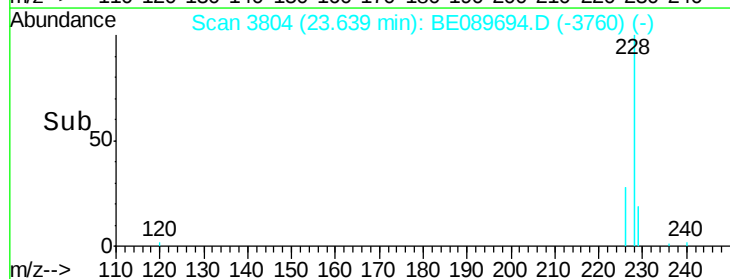
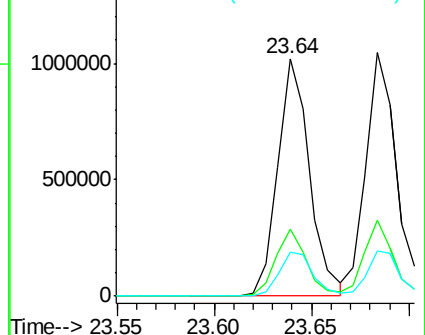
229 18.6 15.8 23.6

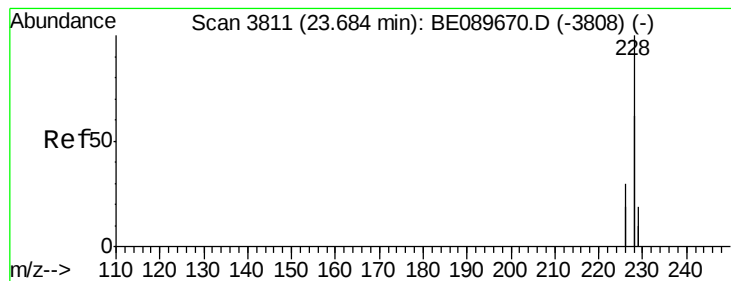


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 7.47 ng

RT: 23.68 min Scan# 3811

Delta R.T. 0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

Instrument :

BNA_E

ClientSampleId :

PB81860BSD

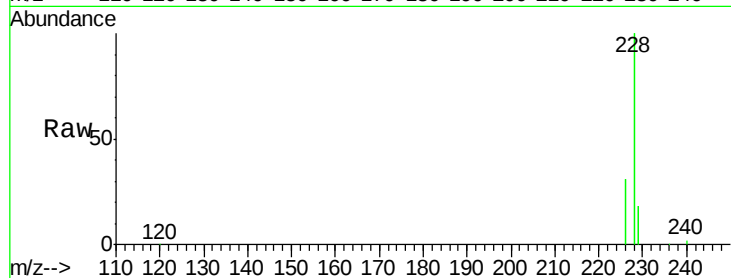
Tgt Ion:228 Resp: 1237390

Ion Ratio Lower Upper

228 100

226 31.1 23.6 35.4

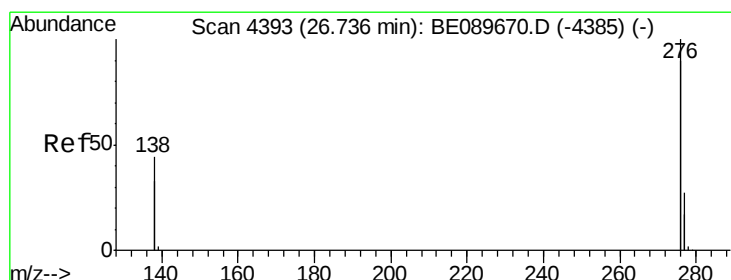
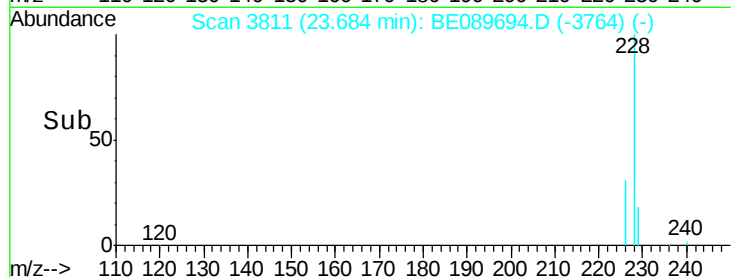
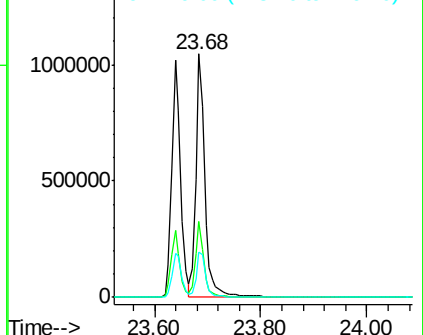
229 18.3 15.3 22.9



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: 7.22 ng

RT: 26.74 min Scan# 4394

Delta R.T. 0.01 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

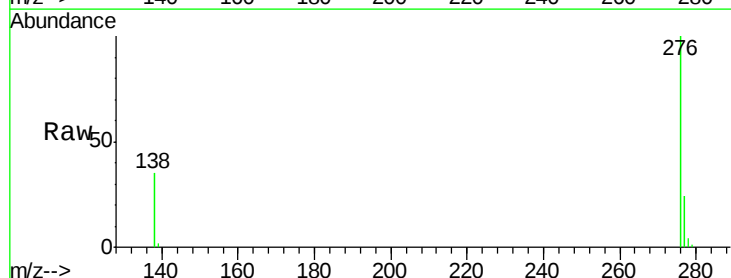
Tgt Ion:276 Resp: 871903

Ion Ratio Lower Upper

276 100

138 42.0 0.0 0.0#

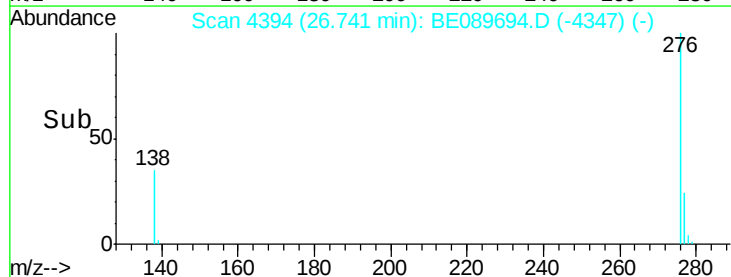
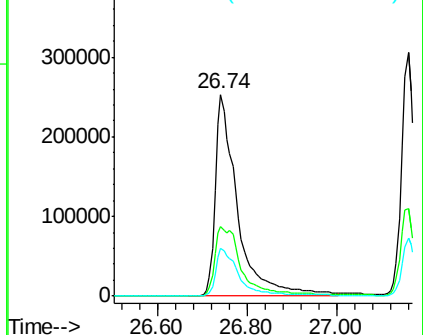
277 25.0 5.2 7.8#

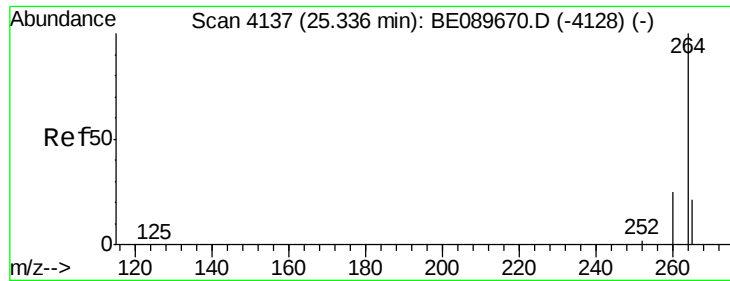


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

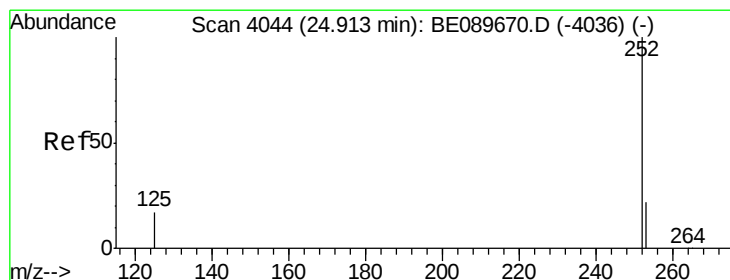
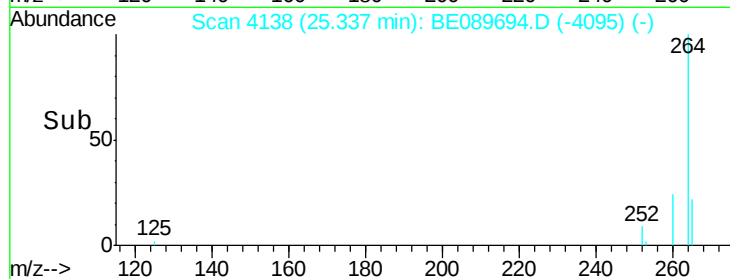
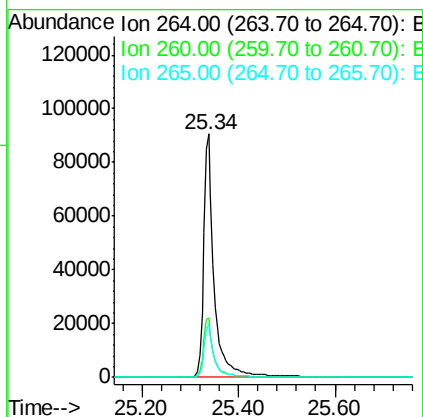
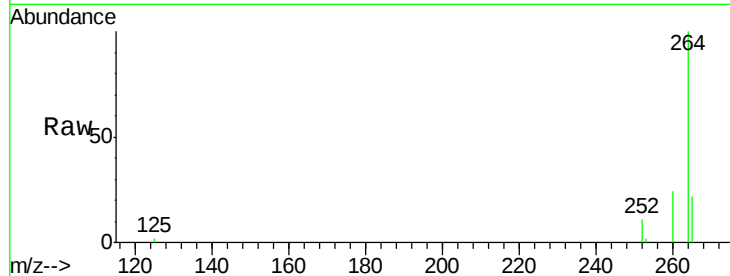




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4138
 Delta R.T. 0.00 min
 Lab File: BE089694.D
 Acq: 26 Feb 2015 16:16

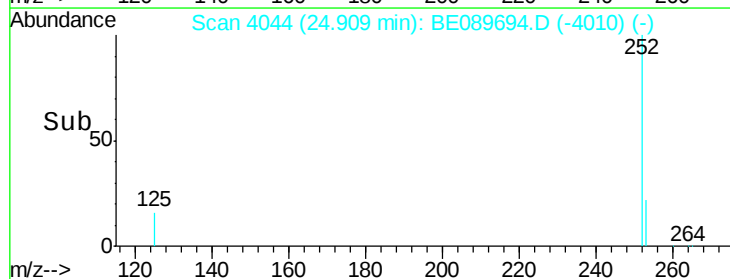
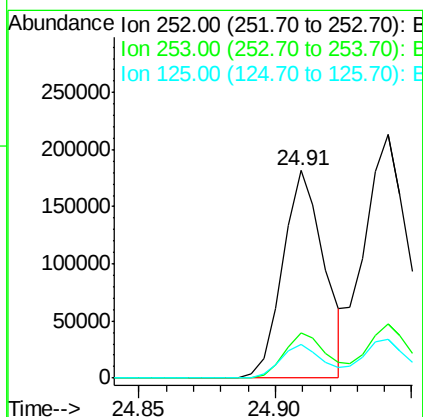
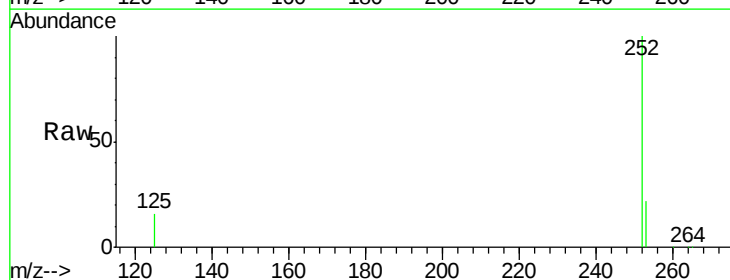
Instrument :
 BNA_E
 ClientSampleId :
 PB81860BSD

Tgt Ion: 264 Resp: 137146
 Ion Ratio Lower Upper
 264 100
 260 24.1 20.2 30.4
 265 21.9 17.0 25.4



#26
 Benzo(b)fluoranthene
 Concen: 7.92 ng
 RT: 24.91 min Scan# 4044
 Delta R.T. -0.00 min
 Lab File: BE089694.D
 Acq: 26 Feb 2015 16:16

Tgt Ion: 252 Resp: 192341
 Ion Ratio Lower Upper
 252 100
 253 21.7 18.6 27.8
 125 16.4 15.0 22.6

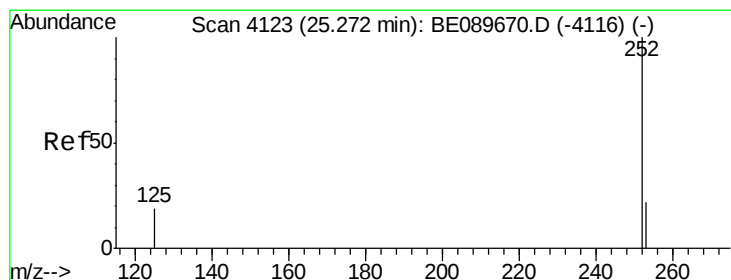
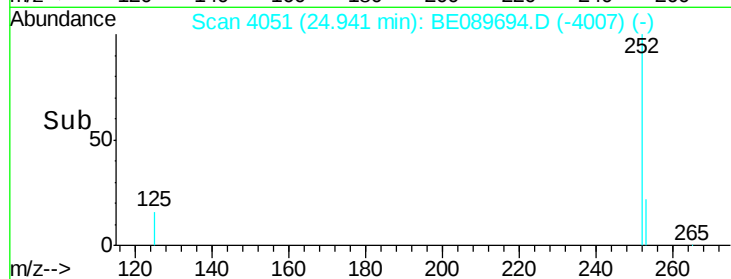
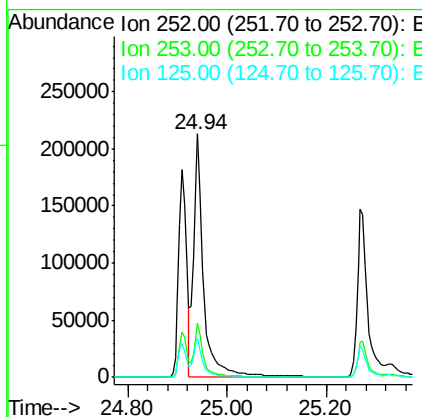
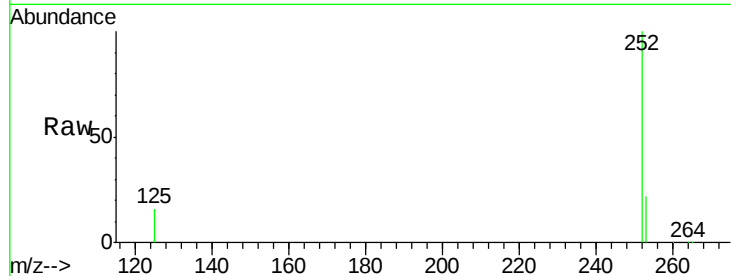




#27
Benzo(k)fluoranthene
Concen: 8.77 ng
RT: 24.94 min Scan# 4051
Delta R.T. 0.00 min
Lab File: BE089694.D
Acq: 26 Feb 2015 16:16

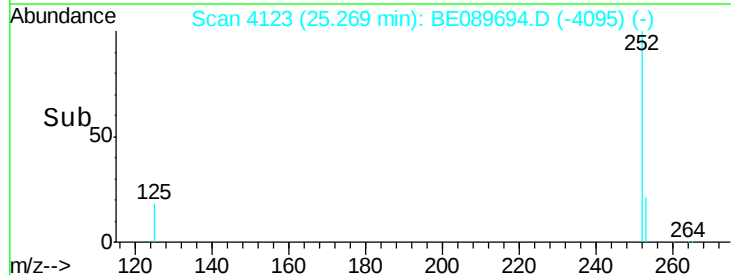
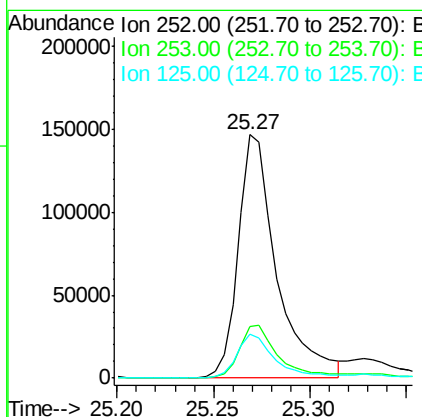
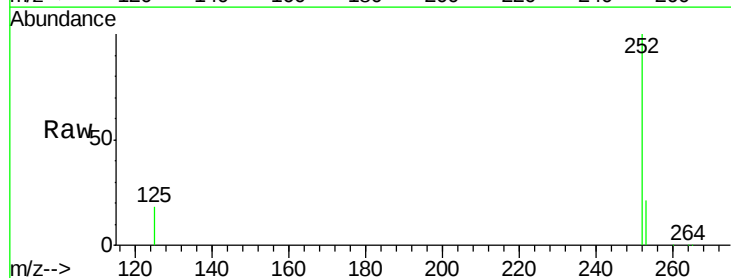
Instrument :
BNA_E
ClientSampleId :
PB81860BSD

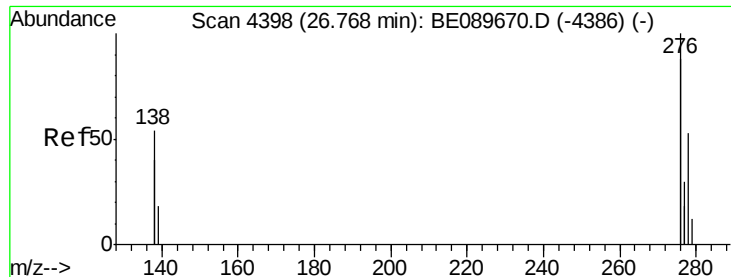
Tgt Ion:252 Resp: 301975
Ion Ratio Lower Upper
252 100
253 22.1 18.0 27.0
125 16.0 14.3 21.5



#28
Benzo(a)pyrene
Concen: 7.32 ng
RT: 25.27 min Scan# 4123
Delta R.T. -0.00 min
Lab File: BE089694.D
Acq: 26 Feb 2015 16:16

Tgt Ion:252 Resp: 202641
Ion Ratio Lower Upper
252 100
253 21.2 18.8 28.2
125 18.2 16.6 24.8





#29

Dibenzo(a,h)anthracene

Concen: 7.34 ng

RT: 26.77 min Scan# 4398

Delta R.T. -0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

Instrument :

BNA_E

ClientSampleId :

PB81860BSD

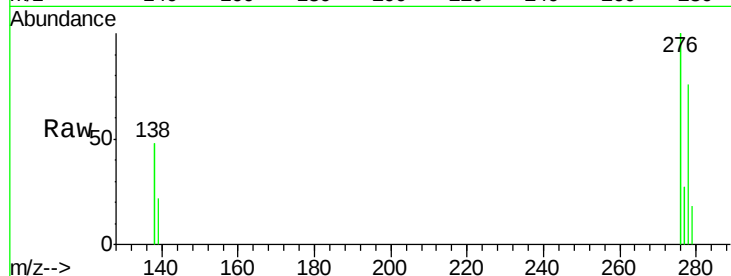
Tgt Ion:278 Resp: 178703

Ion Ratio Lower Upper

278 100

139 29.1 30.4 45.6#

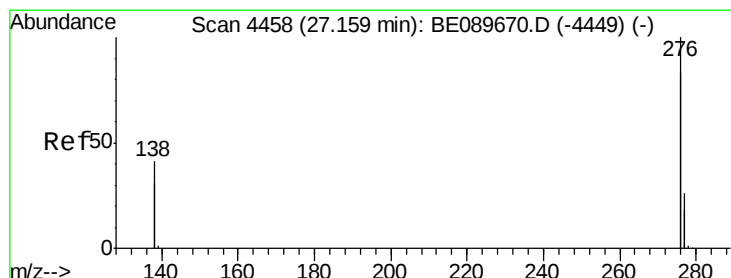
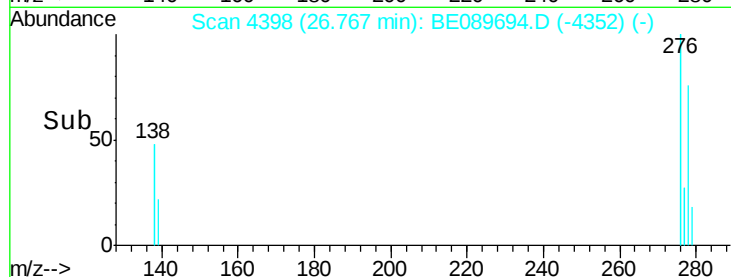
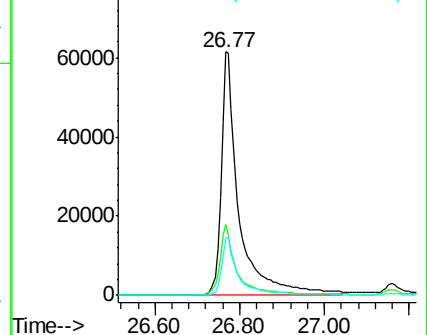
279 23.4 22.0 33.0



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#30

Benzo(g,h,i)perylene

Concen: 11.81 ng

RT: 27.16 min Scan# 4458

Delta R.T. -0.00 min

Lab File: BE089694.D

Acq: 26 Feb 2015 16:16

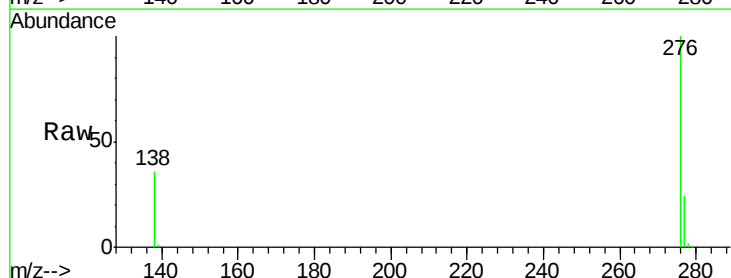
Tgt Ion:276 Resp: 774540

Ion Ratio Lower Upper

276 100

277 23.8 21.0 31.6

138 36.0 33.0 49.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

