

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022515\
 Data File : BE089685.D
 Acq On : 25 Feb 2015 18:15
 Operator : TP/JJ
 Sample : PB81861BS
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81861BS

Quant Time: Feb 26 00:12:37 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 26 00:03:50 2015
 Response via : Initial Calibration

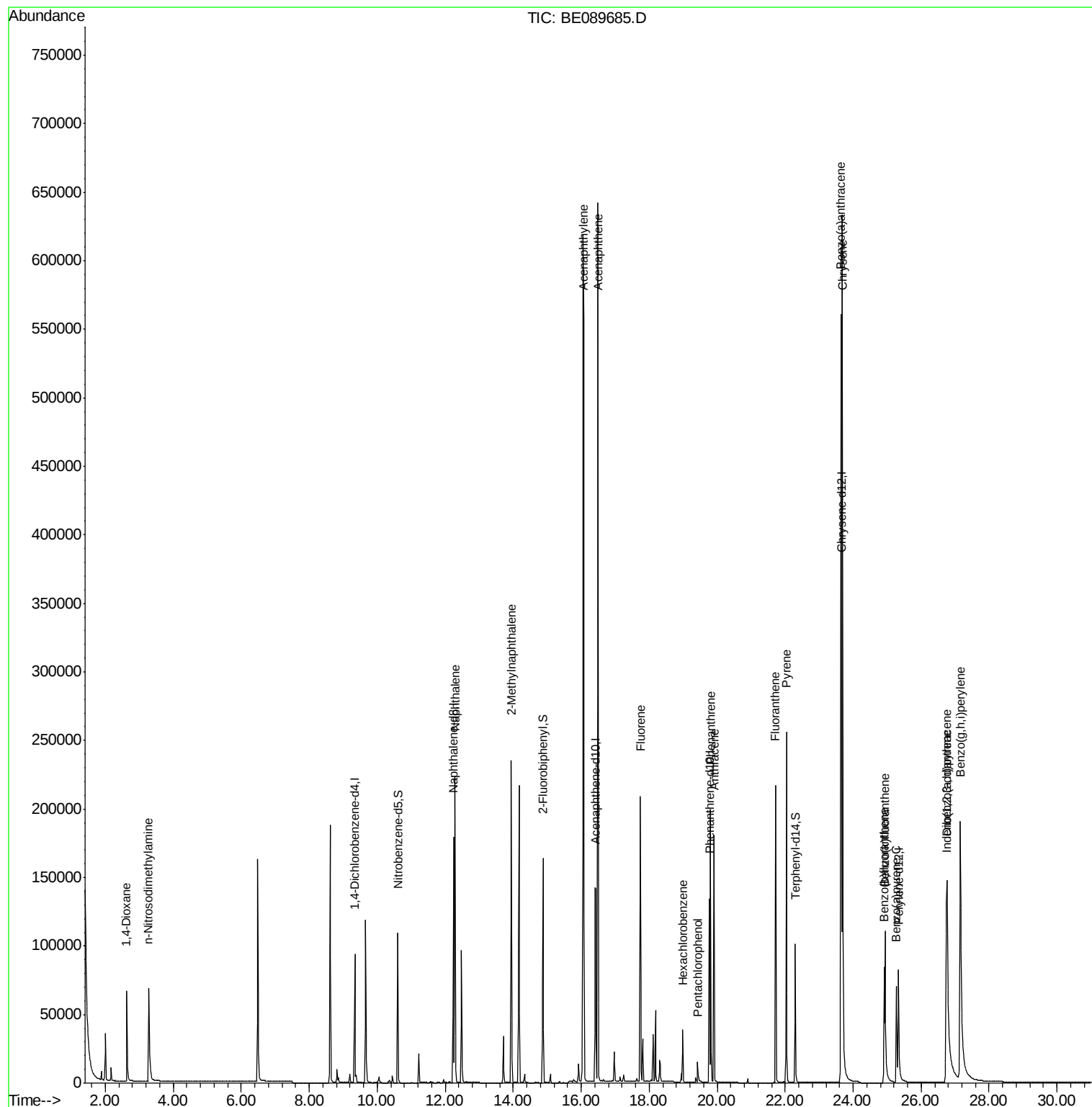
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	39023	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	192338	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	94052	5.00	ng	0.01
13) Phenanthrene-d10	19.77	188	141897	5.00	ng	0.00
19) Chrysene-d12	23.66	240	104619	5.00	ng	0.00
25) Perylene-d12	25.34	264	84055	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	72128	6.37	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	145265	6.94	ng	0.00
21) Terphenyl-d14	22.30	244	89358	7.28	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.63	88	40233	8.23	ng	98
3) n-Nitrosodimethylamine	3.27	42	51316	7.87	ng	# 95
6) Naphthalene	12.29	128	245760	6.60	ng	100
7) 2-Methylnaphthalene	13.94	142	149779	7.08	ng	97
10) Acenaphthylene	16.06	152	845492	6.26	ng	100
11) Acenaphthene	16.49	154	123578	5.78	ng	99
12) Fluorene	17.74	166	136756	5.77	ng	100
14) Hexachlorobenzene	18.99	284	23535	6.41	ng	98
15) Pentachlorophenol	19.43	266	12129	9.59	ng	93
16) Phenanthrene	19.81	178	177430	5.86	ng	100
17) Anthracene	19.91	178	174044	6.76	ng	100
18) Fluoranthene	21.72	202	150893	5.97	ng	100
20) Pyrene	22.03	202	167544	6.63	ng	99
22) Benzo(a)anthracene	23.64	228	469292	6.82	ng	96
23) Chrysene	23.68	228	563013	5.94	ng	99
24) Indeno(1,2,3-cd)pyrene	26.74	276	378221	6.11	ng	# 46
26) Benzo(b)fluoranthene	24.91	252	68443	5.76	ng	96
27) Benzo(k)fluoranthene	24.94	252	146752	6.97	ng	98
28) Benzo(a)pyrene	25.27	252	83117	5.77	ng	96
29) Dibenzo(a,h)anthracene	26.77	278	75067	5.90	ng	# 89
30) Benzo(g,h,i)perylene	27.16	276	364538	9.09	ng	94

(#) = 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: BE089685.D

Acq: 25 Feb 2015 18:15

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BNA_E

ClientSampleId :

PB81861BS

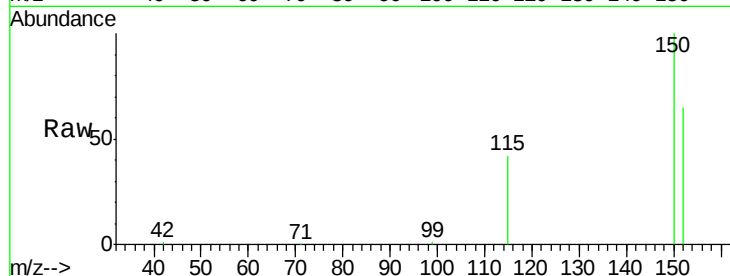
Tgt Ion:152 Resp: 39023

Ion Ratio Lower Upper

152 100

150 154.7 123.4 185.0

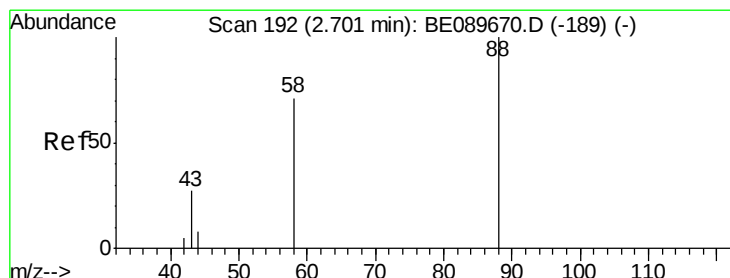
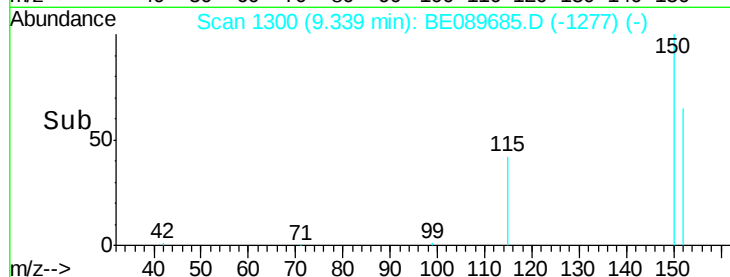
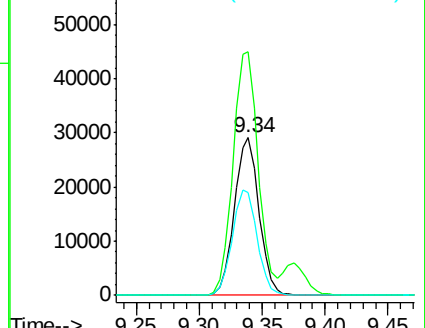
115 65.6 50.8 76.2



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: 8.23 ng

RT: 2.63 min Scan# 182

Delta R.T. 0.01 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

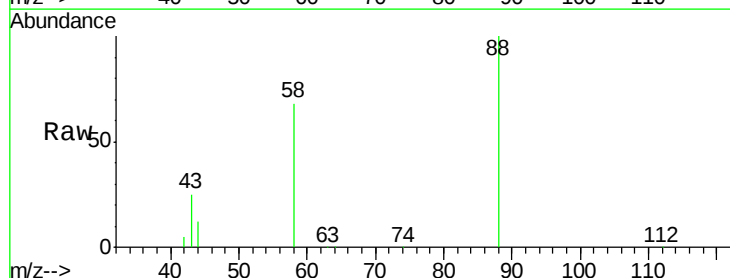
Tgt Ion: 88 Resp: 40233

Ion Ratio Lower Upper

88 100

58 80.0 62.4 93.6

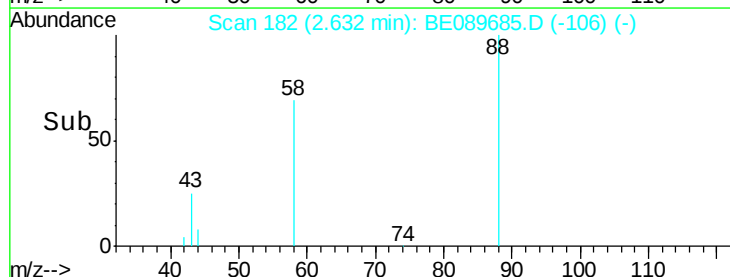
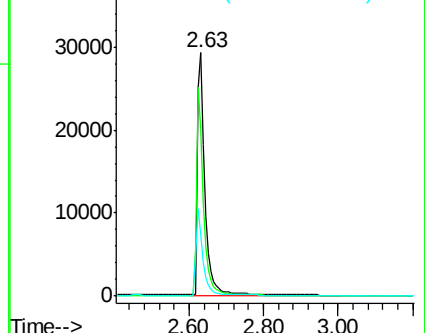
43 33.3 26.6 40.0

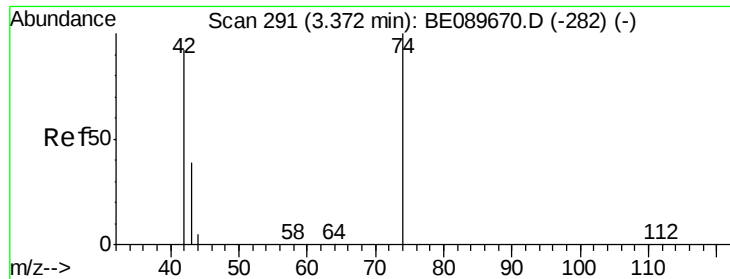


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



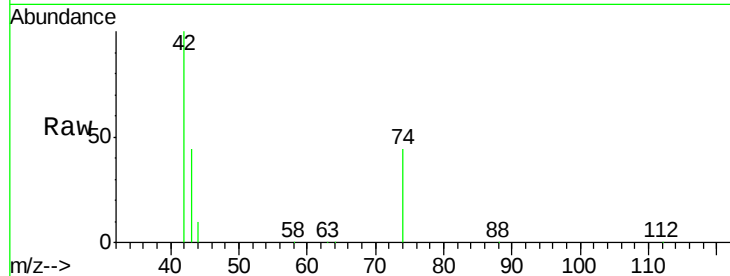


#3

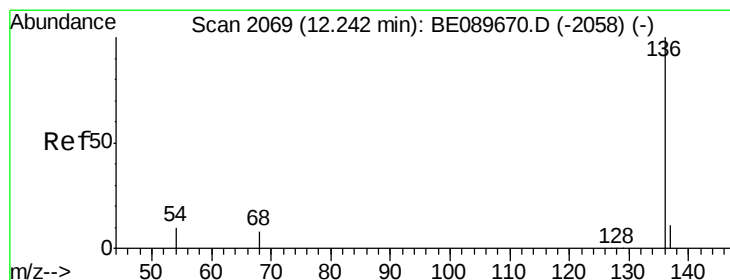
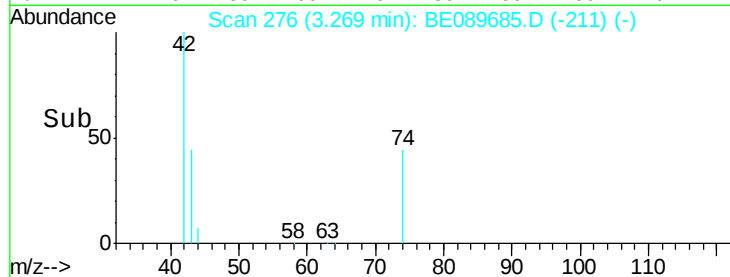
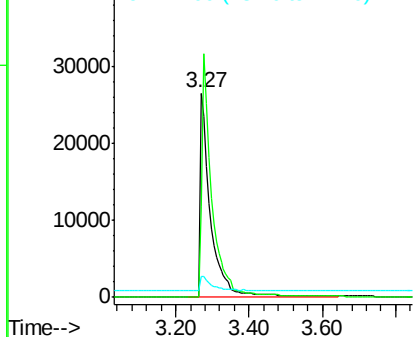
n-Nitrosodimethylamine
 Concen: 7.87 ng
 RT: 3.27 min Scan# 276
 Delta R.T. -0.06 min
 Lab File: BE089685.D
 Acq: 25 Feb 2015 18:15

Instrument :
 BNA_E
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Tgt Ion: 42 Resp: 51316
 Ion Ratio Lower Upper
 42 100
 74 119.9 91.1 136.7
 44 7.5 4.7 7.1#



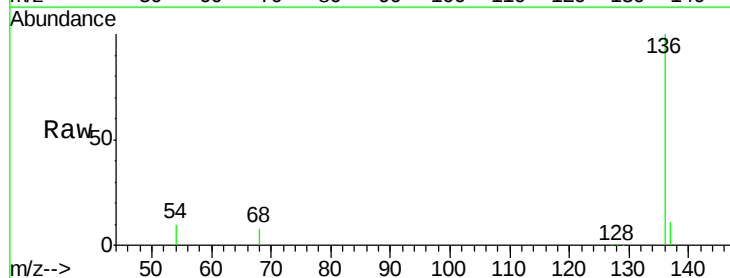
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



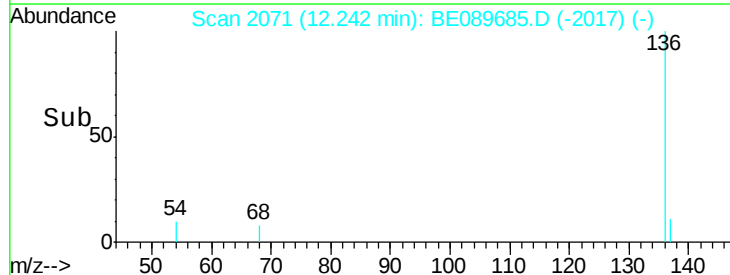
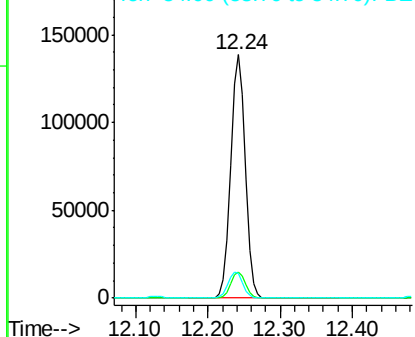
#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2071
 Delta R.T. 0.00 min
 Lab File: BE089685.D
 Acq: 25 Feb 2015 18:15

Tgt Ion: 136 Resp: 192338
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.7 13.1
 54 10.0 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: 6.37 ng

RT: 10.60 min Scan# 1668

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

Instrument :

BNA_E

ClientSampleId :

PB81861BS

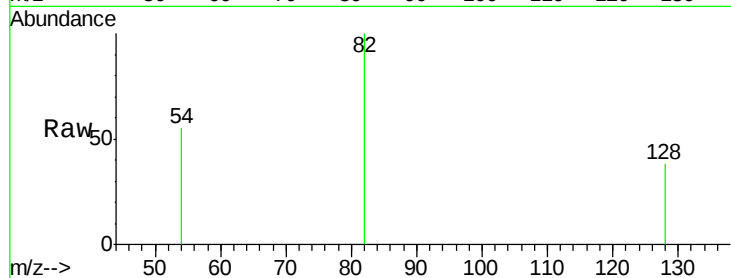
Tgt Ion: 82 Resp: 72128

Ion Ratio Lower Upper

82 100

128 38.4 30.6 46.0

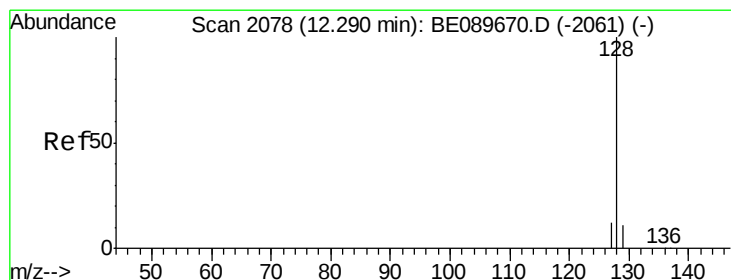
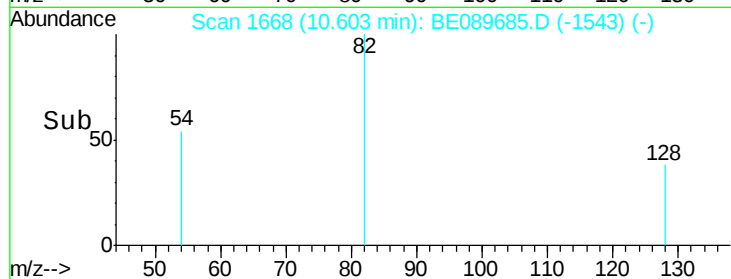
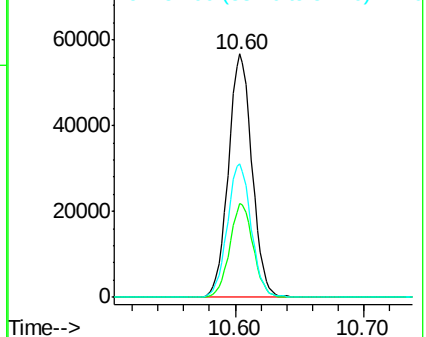
54 54.9 43.6 65.4



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: 6.60 ng

RT: 12.29 min Scan# 2080

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

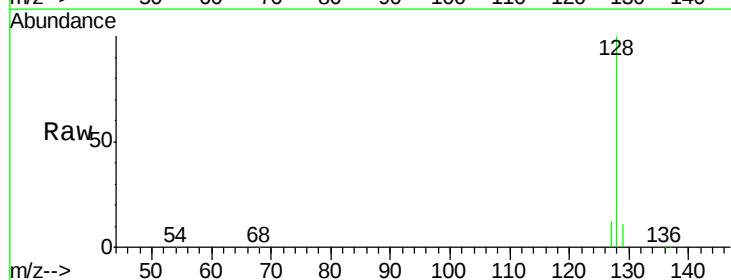
Tgt Ion: 128 Resp: 245760

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

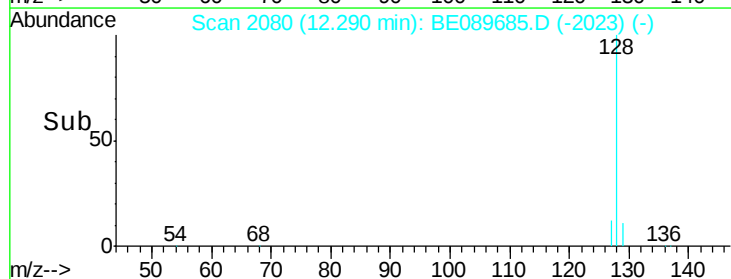
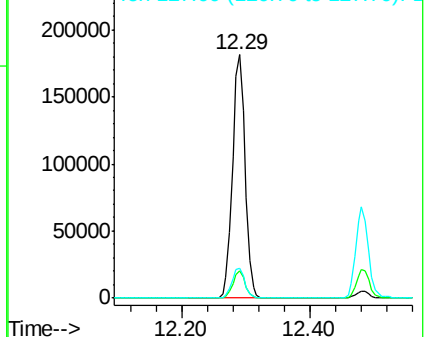
127 12.3 9.7 14.5



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: 7.08 ng

RT: 13.94 min Scan# 2418

Delta R.T. -0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

Instrument :

BNA_E

ClientSampleId :

PB81861BS

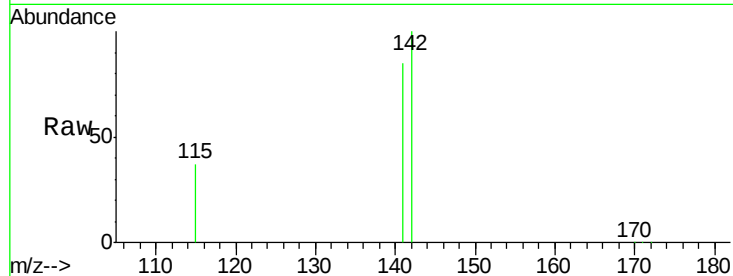
Tgt Ion:142 Resp: 149779

Ion Ratio Lower Upper

142 100

141 84.8 66.0 99.0

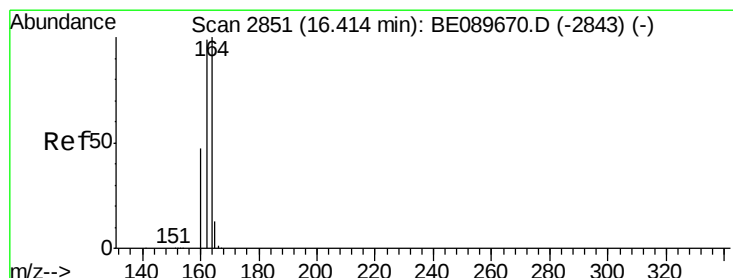
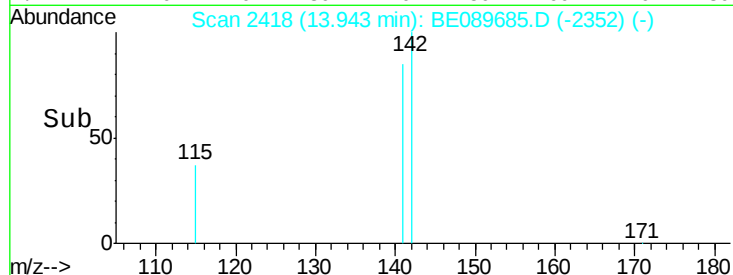
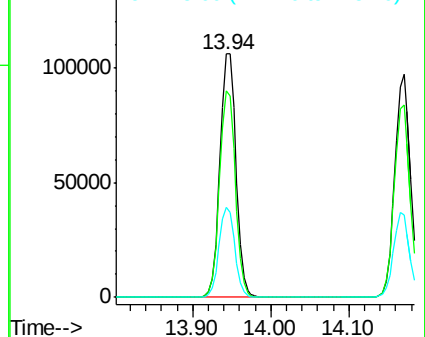
115 37.2 27.4 41.0



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# 2854

Delta R.T. 0.01 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

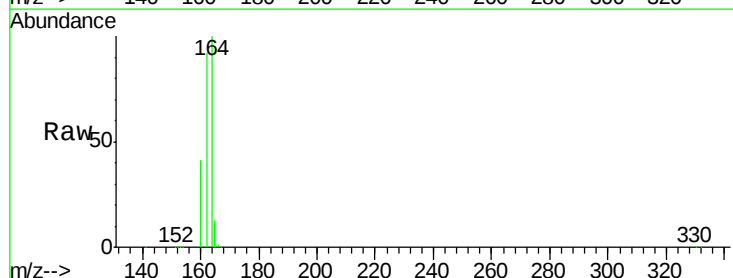
Tgt Ion:164 Resp: 94052

Ion Ratio Lower Upper

164 100

162 92.3 79.4 119.2

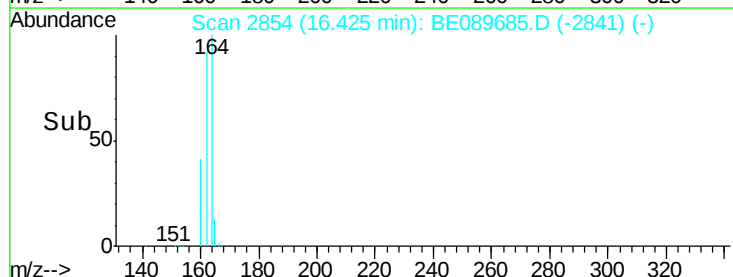
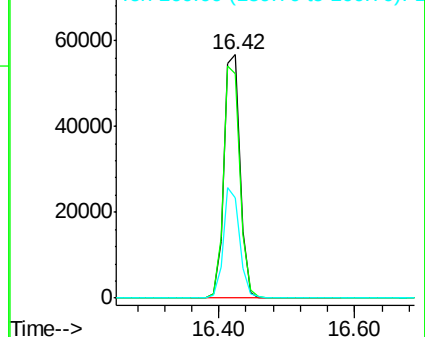
160 41.4 37.6 56.4



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: 6.94 ng

RT: 14.88 min Scan# 2623

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

Instrument :

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ClientSampleId :

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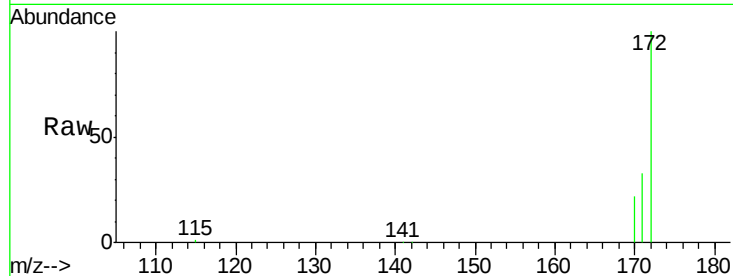
Tgt Ion:172 Resp: 145265

Ion Ratio Lower Upper

172 100

171 33.1 27.3 40.9

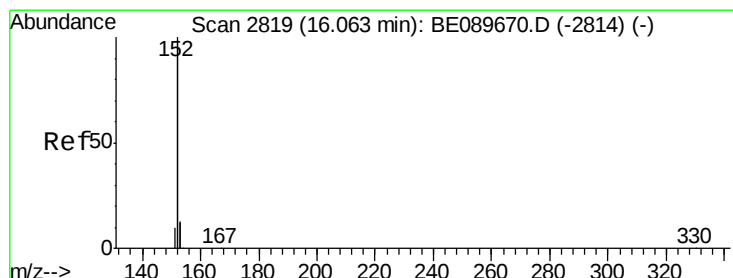
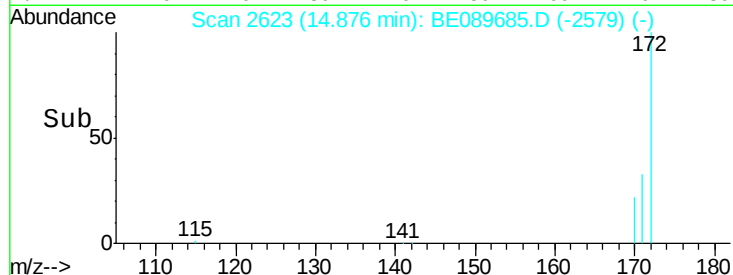
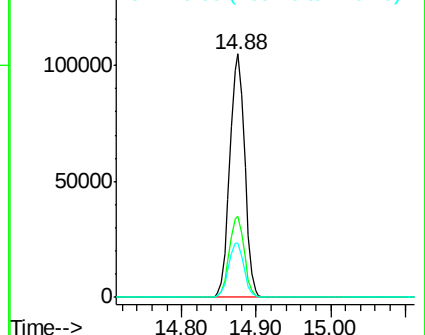
170 22.3 18.5 27.7



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: 6.26 ng

RT: 16.06 min Scan# 2821

Delta R.T. -0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

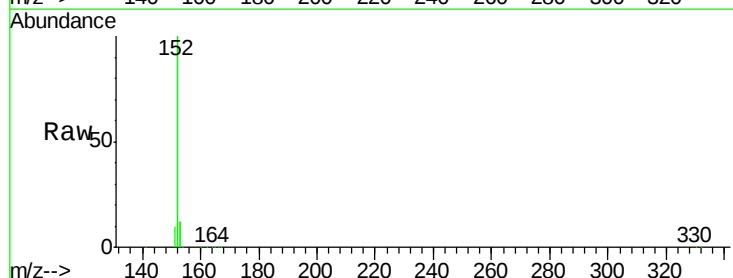
Tgt Ion:152 Resp: 845492

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.6

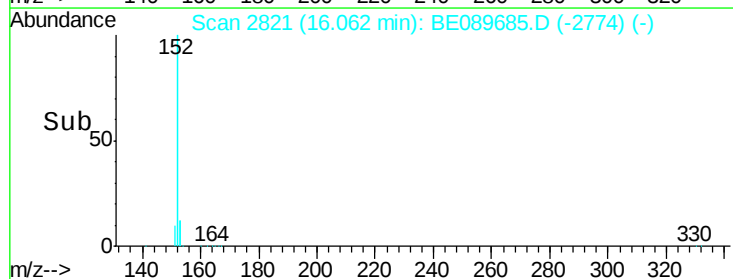
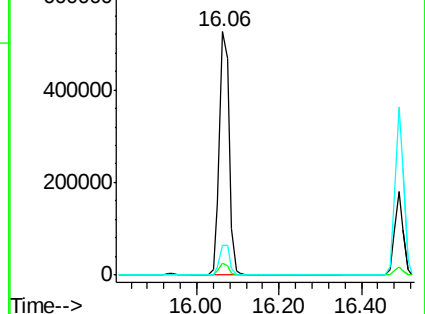
153 12.9 10.4 15.6

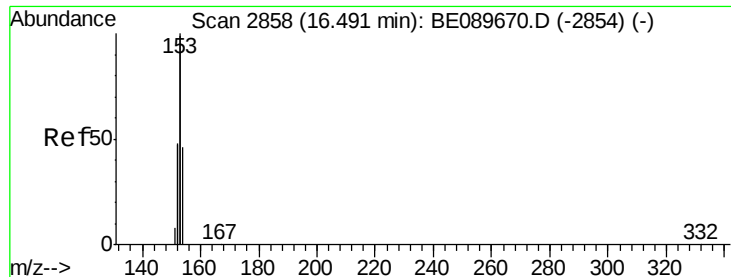


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 5.78 ng

RT: 16.49 min Scan# 2860

Delta R.T. -0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

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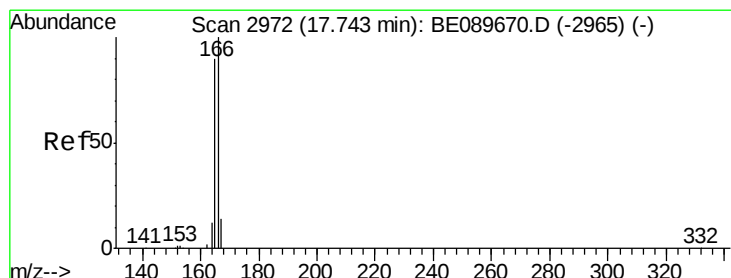
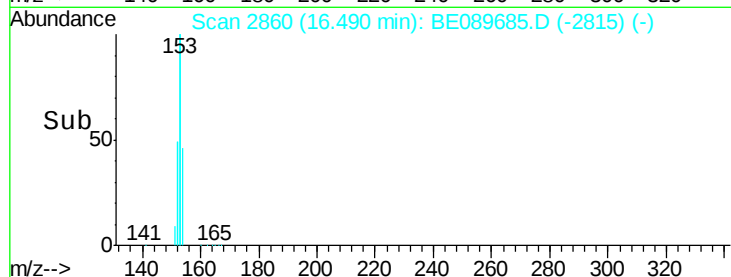
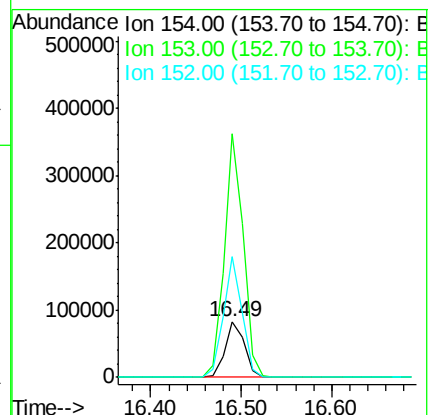
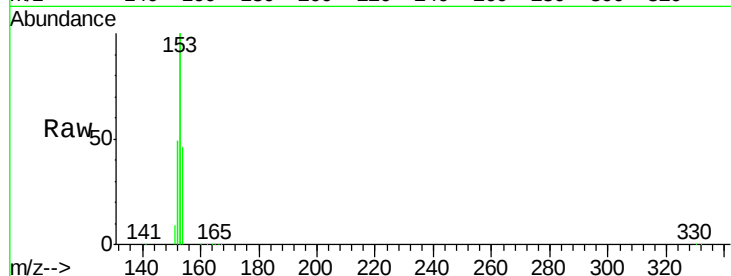
Tgt Ion:154 Resp: 123578

Ion Ratio Lower Upper

154 100

153 428.3 345.8 518.8

152 208.6 168.6 252.8



#12

Fluorene

Concen: 5.77 ng

RT: 17.74 min Scan# 2974

Delta R.T. -0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

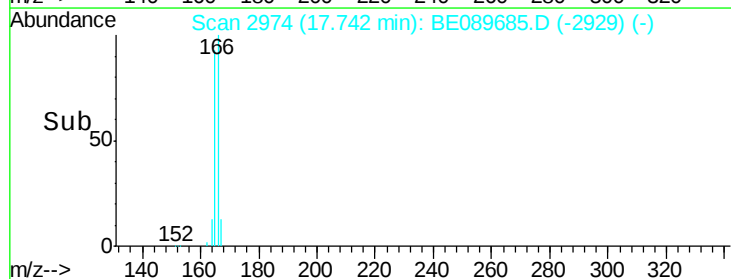
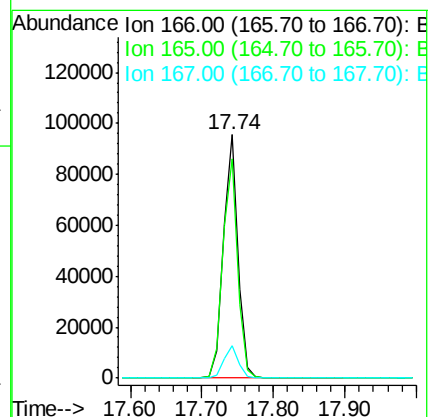
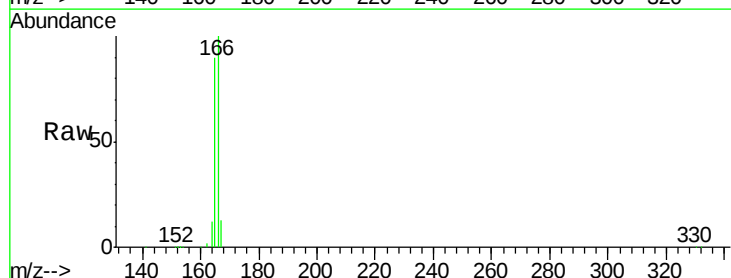
Tgt Ion:166 Resp: 136756

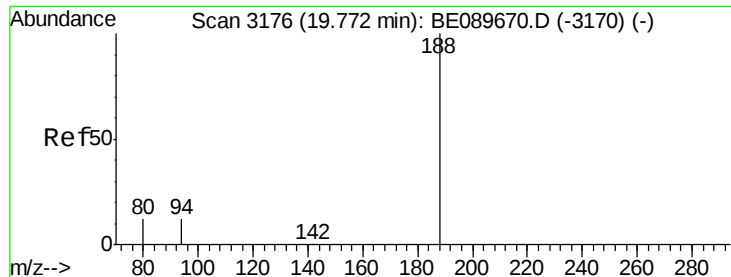
Ion Ratio Lower Upper

166 100

165 92.2 73.6 110.4

167 13.2 10.6 16.0

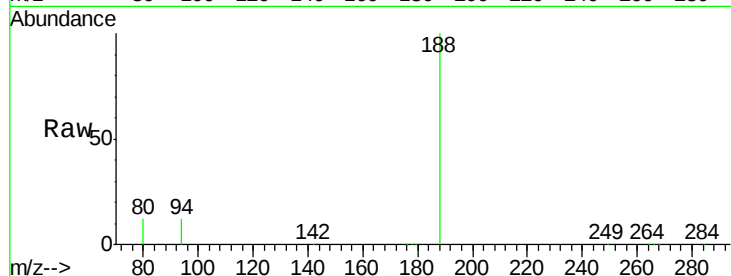




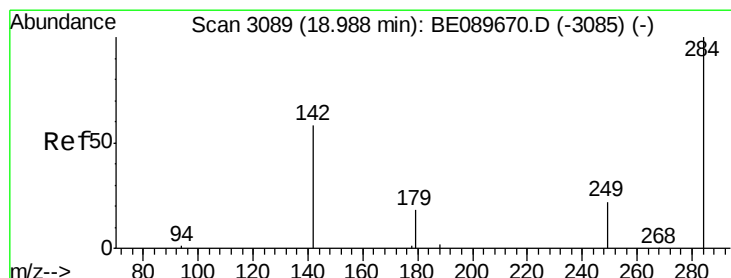
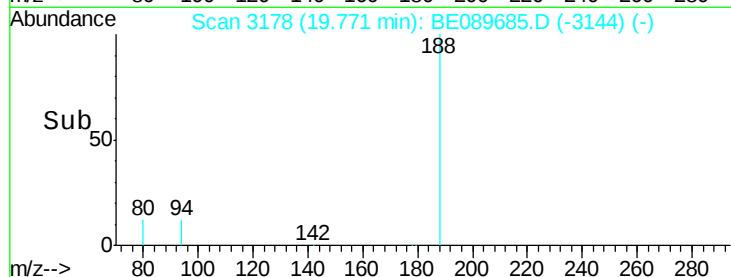
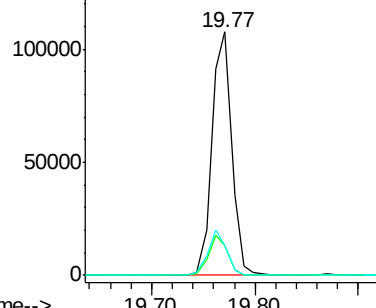
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3178
Delta R.T. 0.01 min
Lab File: BE089685.D
Acq: 25 Feb 2015 18:15

Instrument :
BNA_E
ClientSampleId :
PB81861BS

Tgt Ion:188 Resp: 141897
Ion Ratio Lower Upper
188 100
94 12.1 9.4 14.2
80 12.2 9.5 14.3

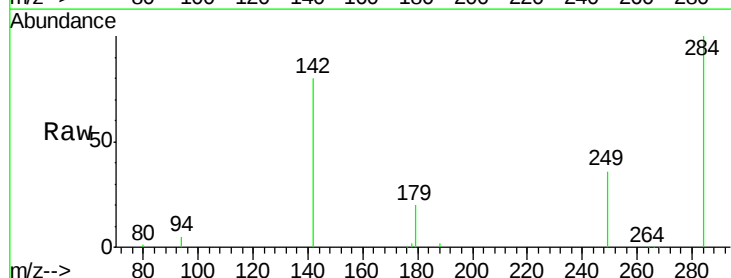


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

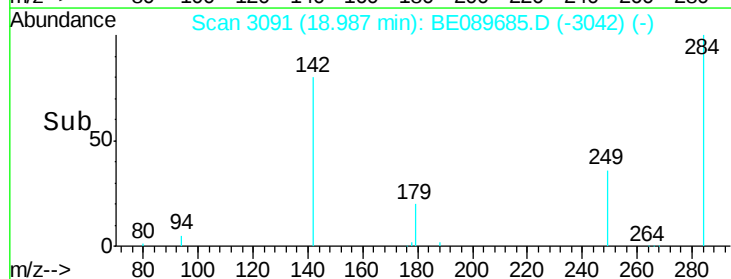
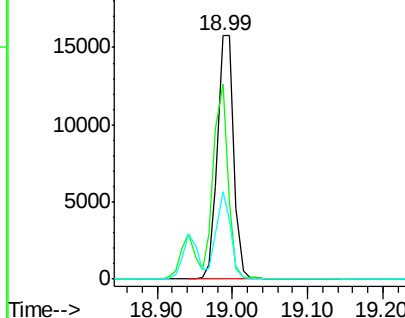


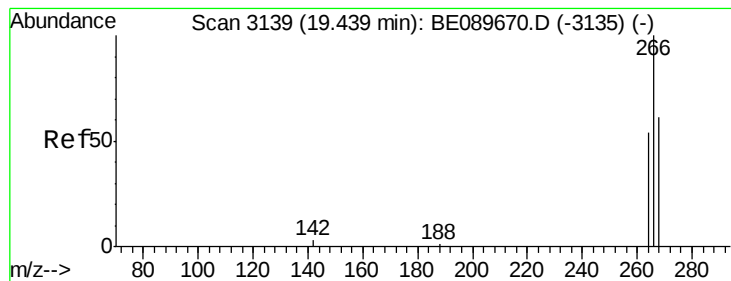
#14
Hexachlorobenzene
Concen: 6.41 ng
RT: 18.99 min Scan# 3091
Delta R.T. -0.00 min
Lab File: BE089685.D
Acq: 25 Feb 2015 18:15

Tgt Ion:284 Resp: 23535
Ion Ratio Lower Upper
284 100
142 70.7 55.4 83.2
249 31.8 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: 9.59 ng

RT: 19.43 min Scan# 3140

Delta R.T. -0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

Instrument :

BNA_E

ClientSampleId :

PB81861BS

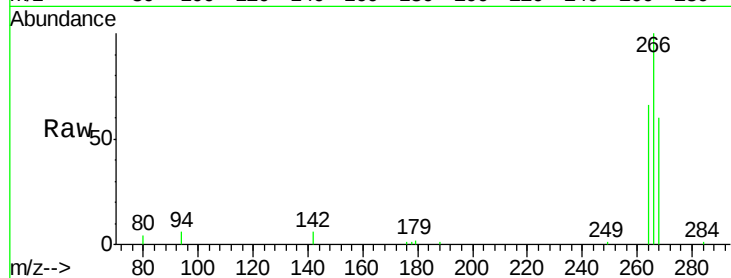
Tgt Ion:266 Resp: 12129

Ion Ratio Lower Upper

266 100

268 60.3 56.3 84.5

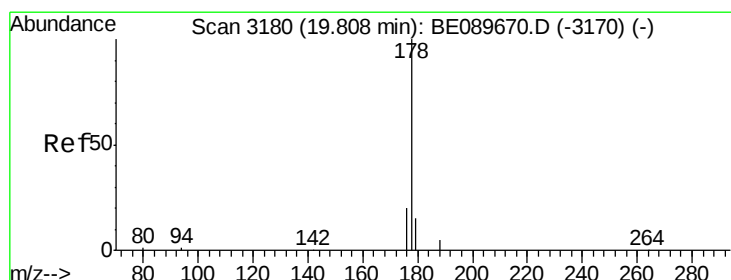
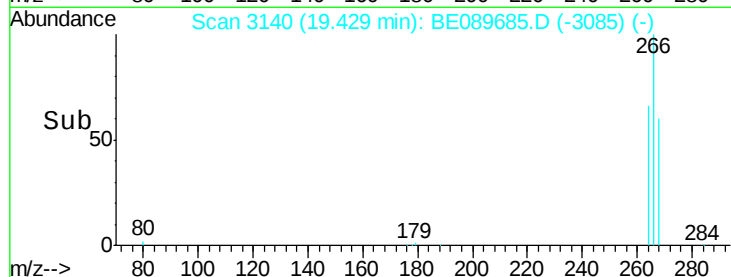
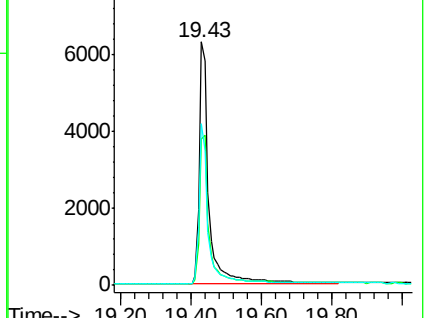
264 66.3 51.8 77.8



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#16

Phenanthrene

Concen: 5.86 ng

RT: 19.81 min Scan# 3182

Delta R.T. -0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

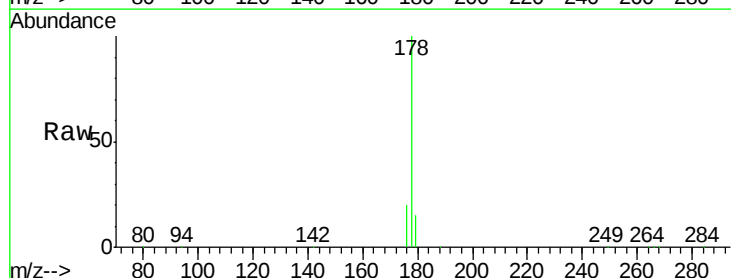
Tgt Ion:178 Resp: 177430

Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

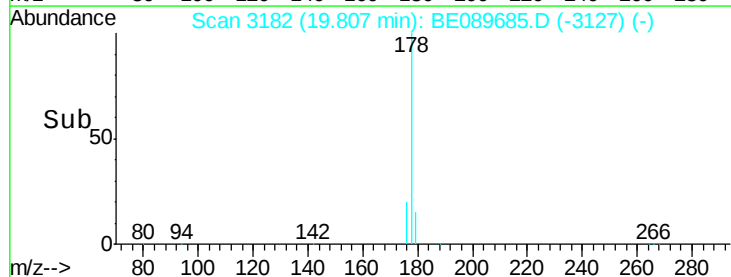
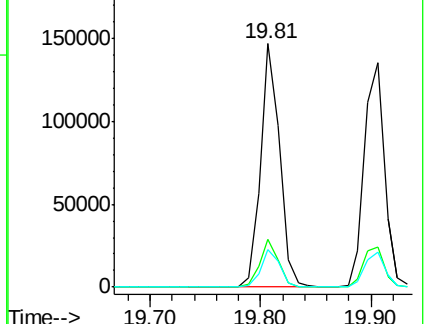
179 15.5 12.5 18.7

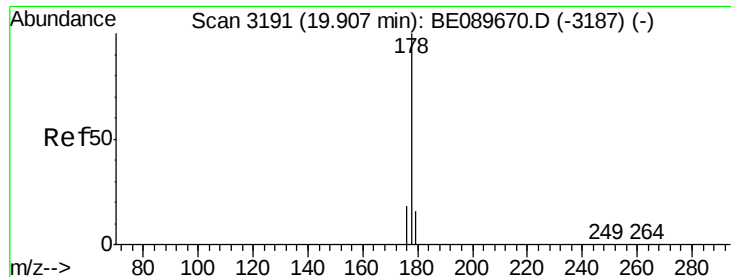


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

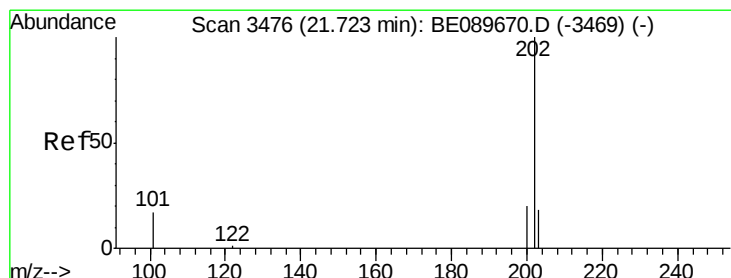
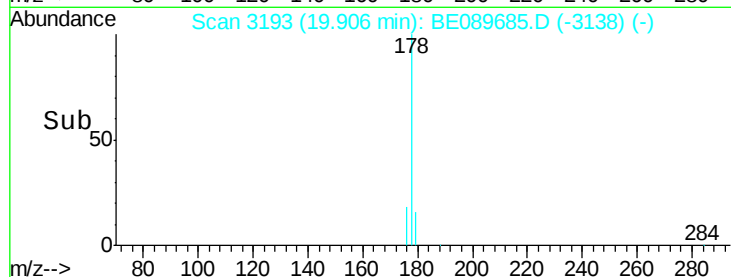
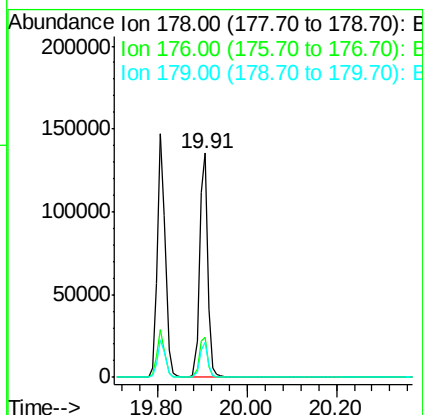
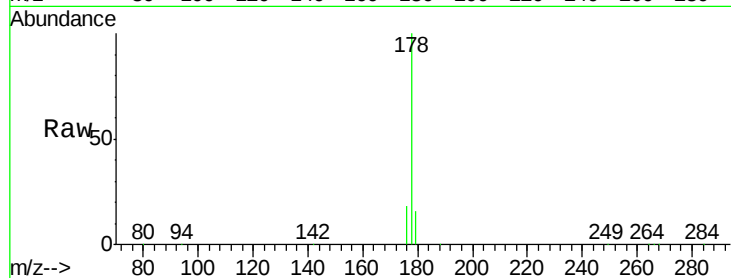




#17
 Anthracene
 Concen: 6.76 ng
 RT: 19.91 min Scan# 3193
 Delta R.T. -0.00 min
 Lab File: BE089685.D
 Acq: 25 Feb 2015 18:15

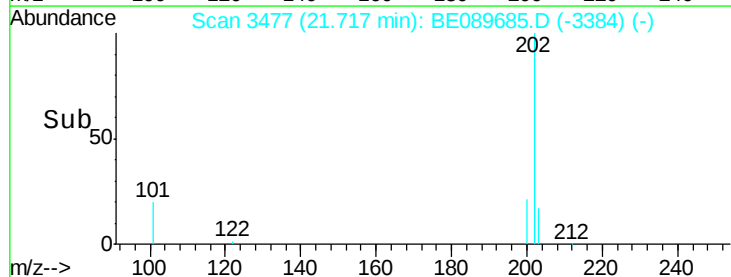
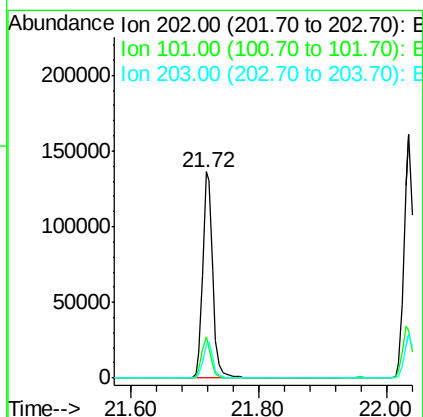
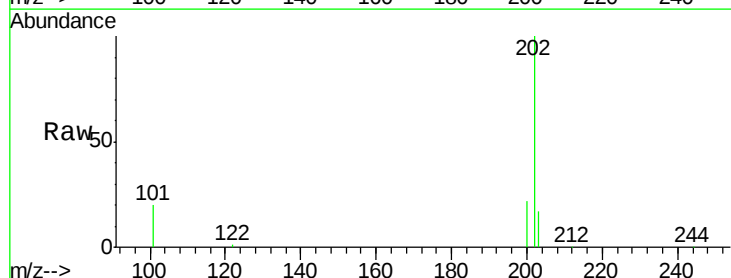
Instrument :
 BNA_E
 ClientSampleId :
 PB81861BS

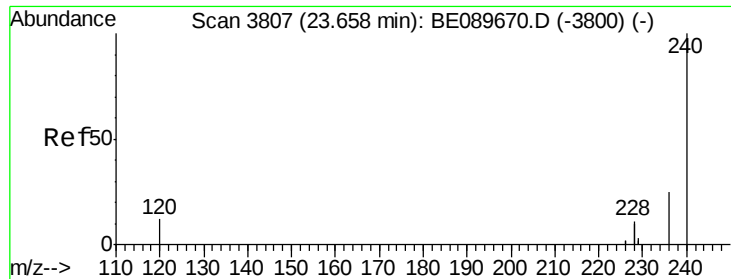
Tgt Ion:178 Resp: 174044
 Ion Ratio Lower Upper
 178 100
 176 18.4 14.8 22.2
 179 15.1 12.2 18.2



#18
 Fluoranthene
 Concen: 5.97 ng
 RT: 21.72 min Scan# 3477
 Delta R.T. -0.01 min
 Lab File: BE089685.D
 Acq: 25 Feb 2015 18:15

Tgt Ion:202 Resp: 150893
 Ion Ratio Lower Upper
 202 100
 101 18.6 14.9 22.3
 203 17.3 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3809

Delta R.T. 0.01 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

Instrument :

BNA_E

ClientSampleId :

PB81861BS

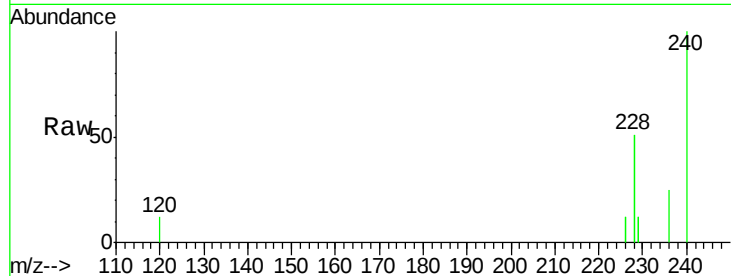
Tgt Ion:240 Resp: 104619

Ion Ratio Lower Upper

240 100

120 11.8 9.4 14.0

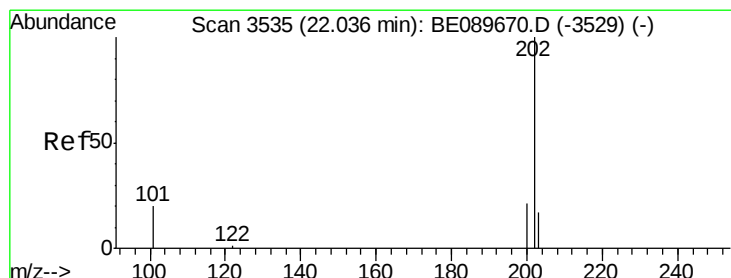
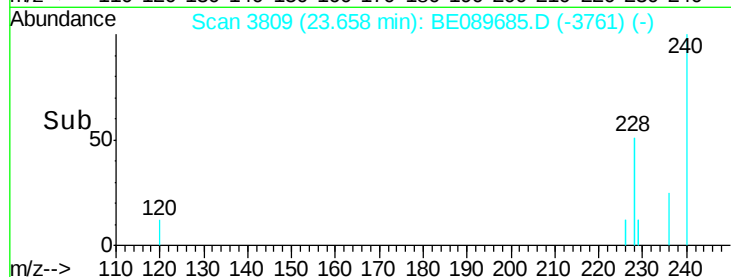
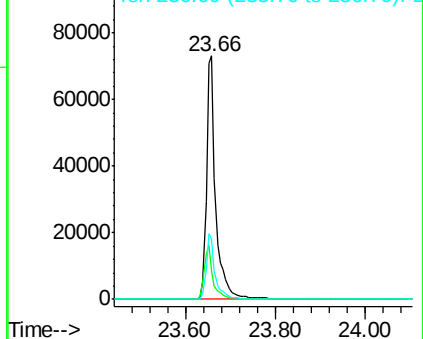
236 24.9 19.9 29.9



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: 6.63 ng

RT: 22.03 min Scan# 3537

Delta R.T. -0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

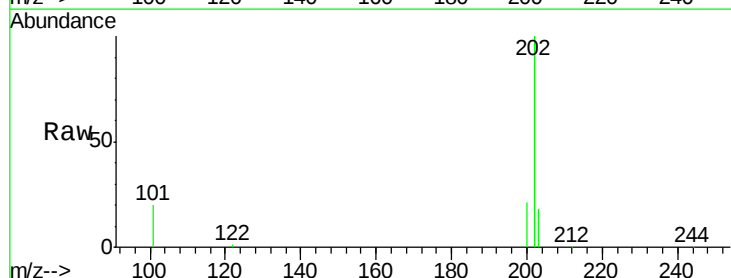
Tgt Ion:202 Resp: 167544

Ion Ratio Lower Upper

202 100

200 20.8 16.4 24.6

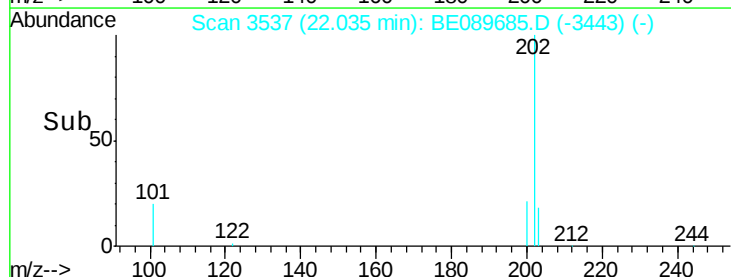
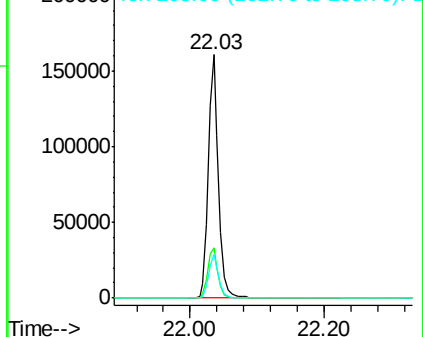
203 17.9 13.9 20.9



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: 7.28 ng

RT: 22.30 min Scan# 3587

Delta R.T. -0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

Instrument :

BNA_E

ClientSampleId :

PB81861BS

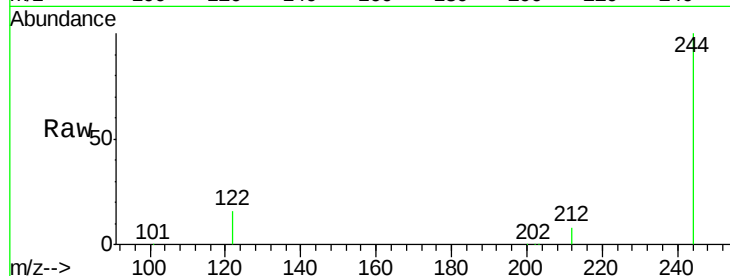
Tgt Ion:244 Resp: 89358

Ion Ratio Lower Upper

244 100

212 7.9 7.0 10.6

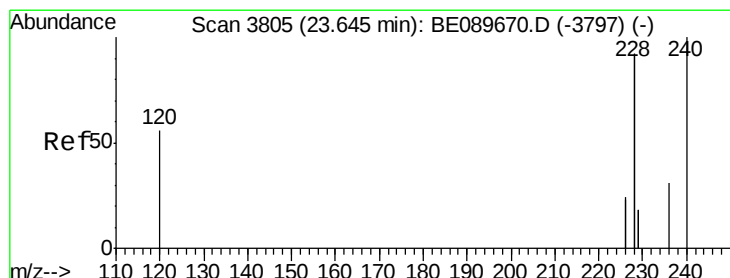
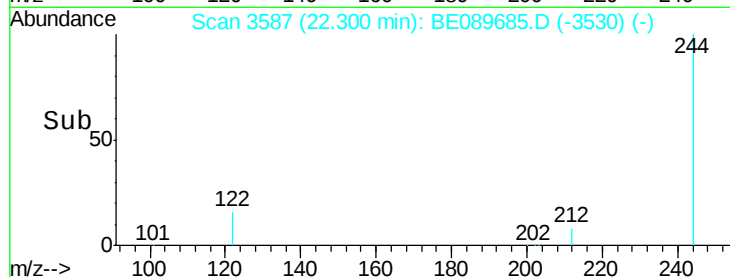
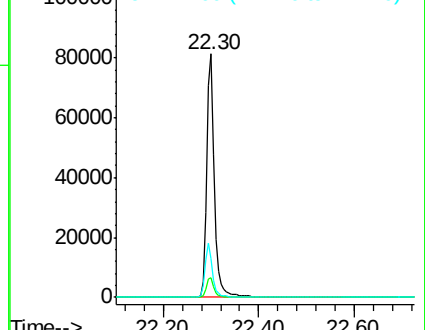
122 16.1 15.4 23.0



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: 6.82 ng

RT: 23.64 min Scan# 3806

Delta R.T. -0.01 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

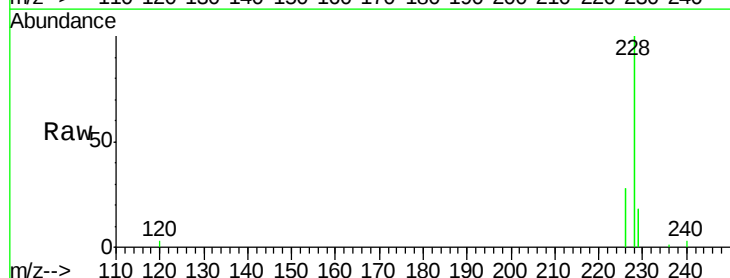
Tgt Ion:228 Resp: 469292

Ion Ratio Lower Upper

228 100

226 28.0 20.6 31.0

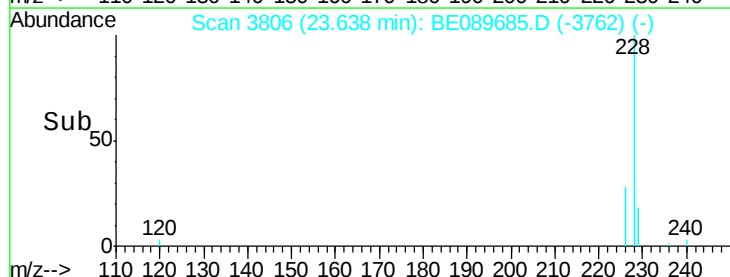
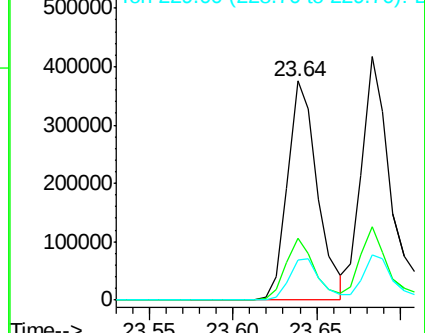
229 18.4 15.8 23.6

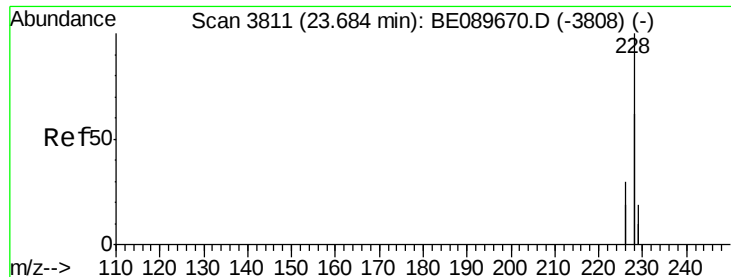


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 5.94 ng

RT: 23.68 min Scan# 3813

Delta R.T. -0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

Instrument :

BNA_E

ClientSampleId :

PB81861BS

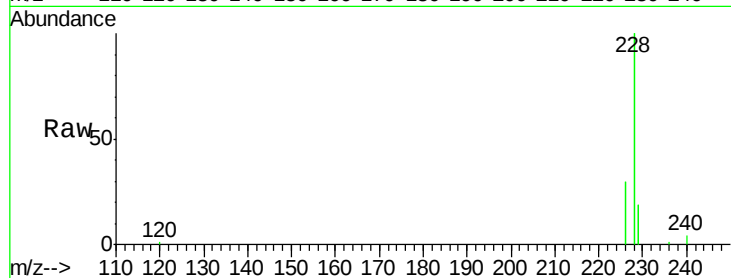
Tgt Ion:228 Resp: 563013

Ion Ratio Lower Upper

228 100

226 30.1 23.6 35.4

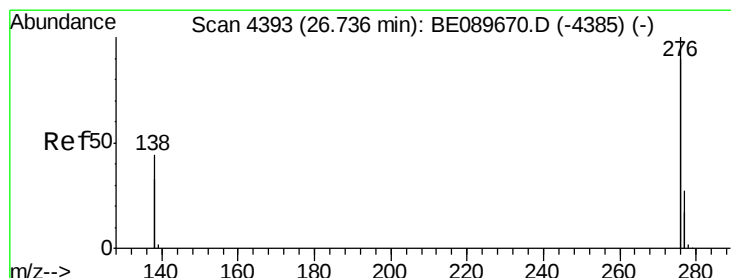
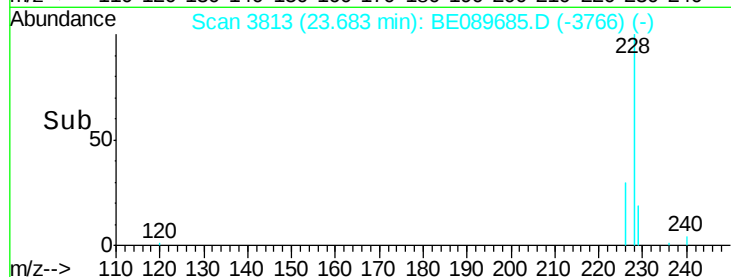
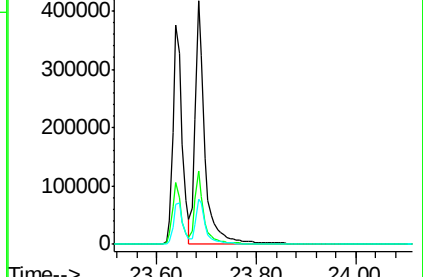
229 18.7 15.3 22.9



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: 6.11 ng

RT: 26.74 min Scan# 4396

Delta R.T. 0.01 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

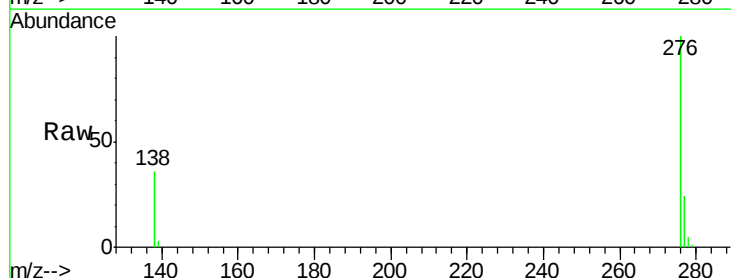
Tgt Ion:276 Resp: 378221

Ion Ratio Lower Upper

276 100

138 42.9 0.0 0.0#

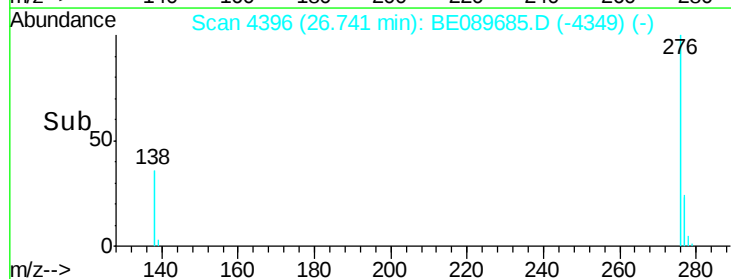
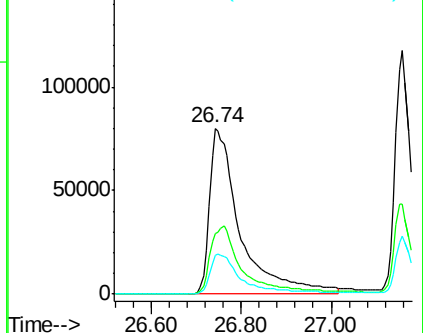
277 24.9 5.2 7.8#

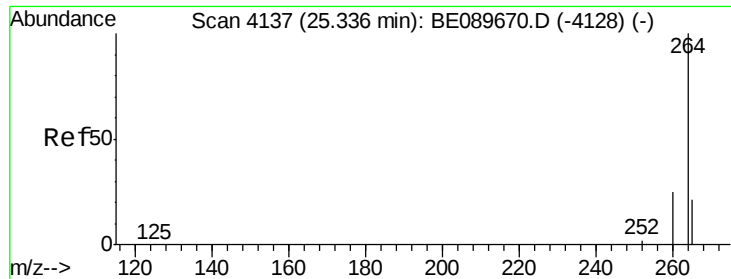


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

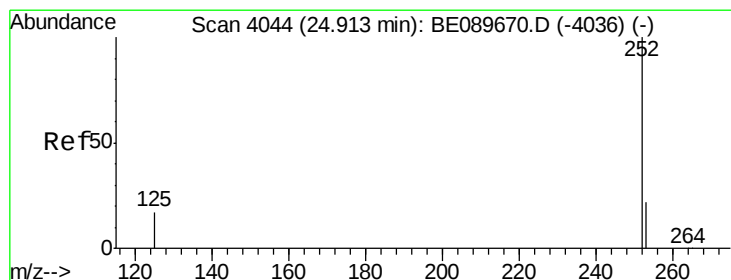
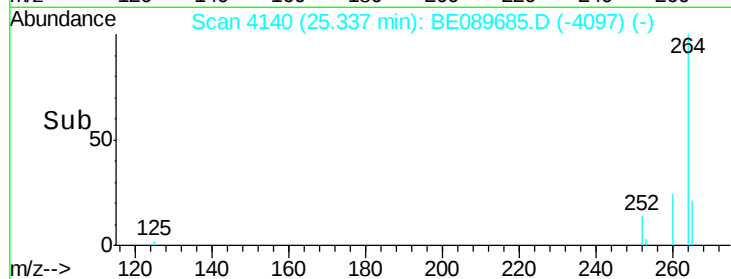
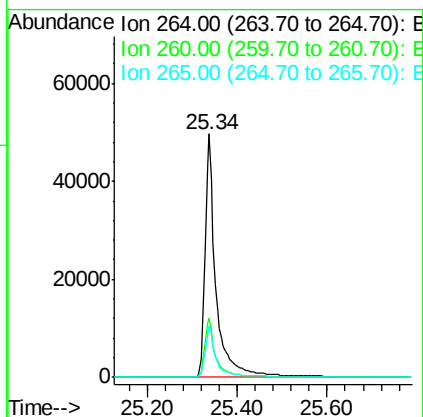
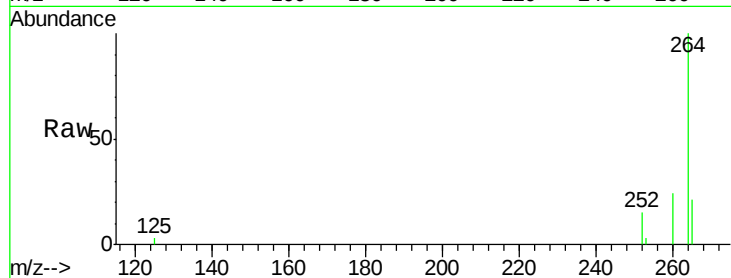




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4140
 Delta R.T. 0.00 min
 Lab File: BE089685.D
 Acq: 25 Feb 2015 18:15

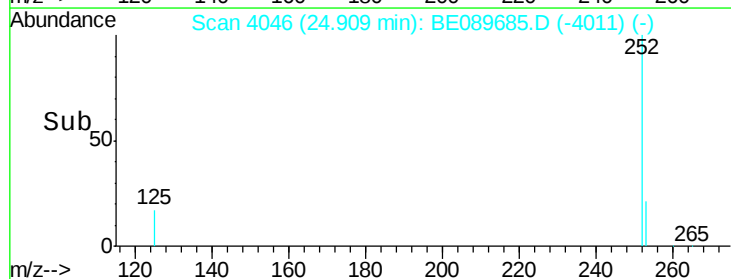
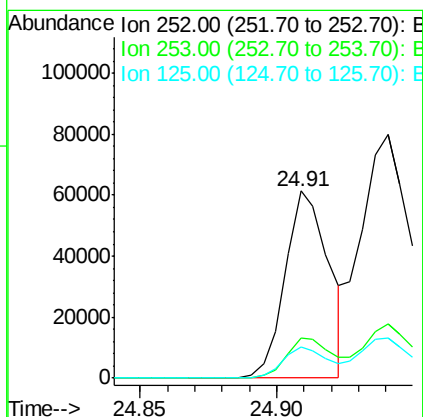
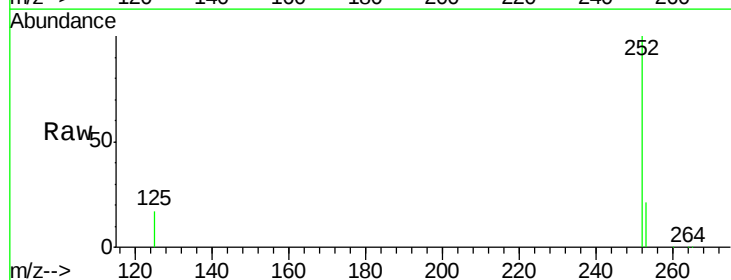
Instrument :
 BNA_E
 ClientSampleId :
 PB81861BS

Tgt Ion: 264 Resp: 84055
 Ion Ratio Lower Upper
 264 100
 260 24.2 20.2 30.4
 265 21.5 17.0 25.4



#26
 Benzo(b)fluoranthene
 Concen: 5.76 ng
 RT: 24.91 min Scan# 4046
 Delta R.T. 0.00 min
 Lab File: BE089685.D
 Acq: 25 Feb 2015 18:15

Tgt Ion: 252 Resp: 68443
 Ion Ratio Lower Upper
 252 100
 253 21.3 18.6 27.8
 125 16.9 15.0 22.6





#27

Benzo(k)fluoranthene

Concen: 6.97 ng

RT: 24.94 min Scan# 4053

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

Instrument :

BNA_E

ClientSampleId :

PB81861BS

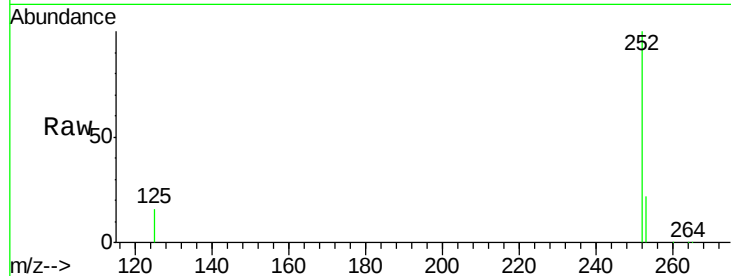
Tgt Ion:252 Resp: 146752

Ion Ratio Lower Upper

252 100

253 22.1 18.0 27.0

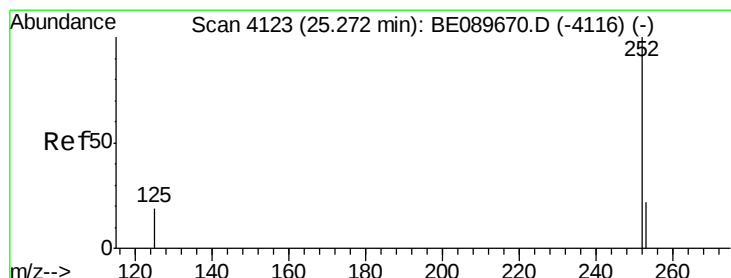
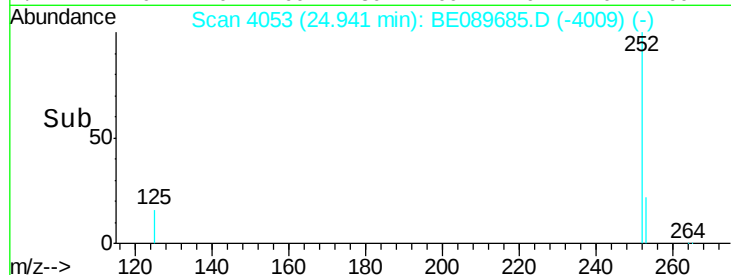
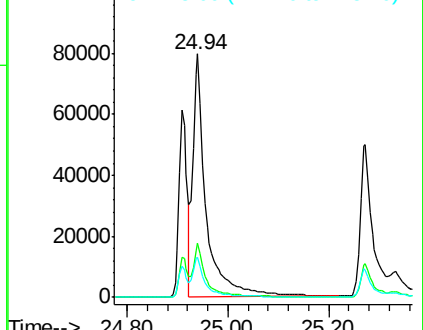
125 16.3 14.3 21.5



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: 5.77 ng

RT: 25.27 min Scan# 4126

Delta R.T. 0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

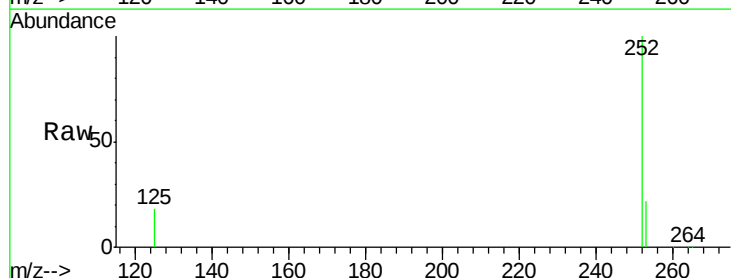
Tgt Ion:252 Resp: 83117

Ion Ratio Lower Upper

252 100

253 22.3 18.8 28.2

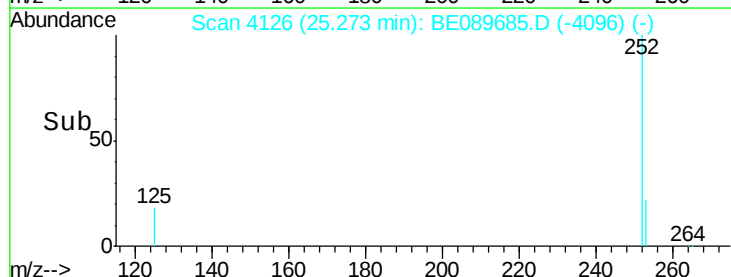
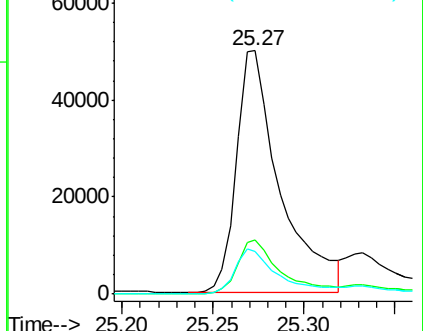
125 17.7 16.6 24.8



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: 5.90 ng

RT: 26.77 min Scan# 4400

Delta R.T. -0.00 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

Instrument :

BNA_E

ClientSampleId :

PB81861BS

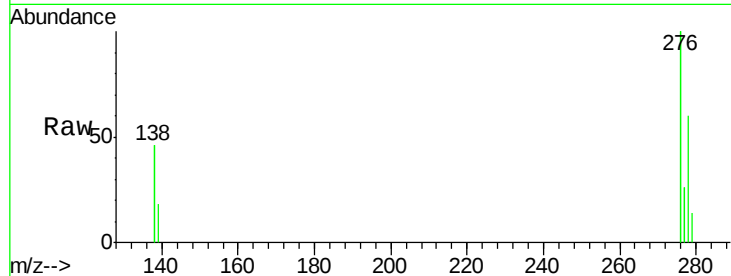
Tgt Ion:278 Resp: 75067

Ion Ratio Lower Upper

278 100

139 30.1 30.4 45.6#

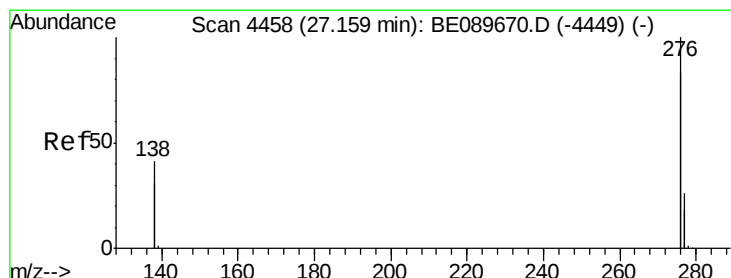
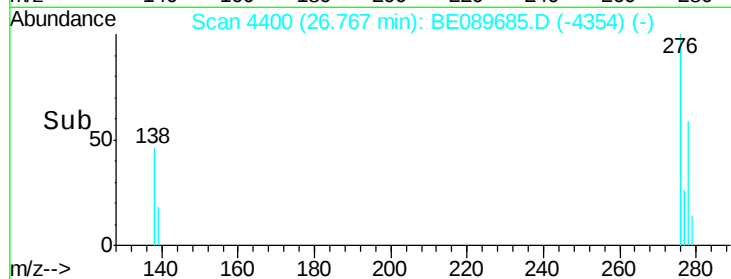
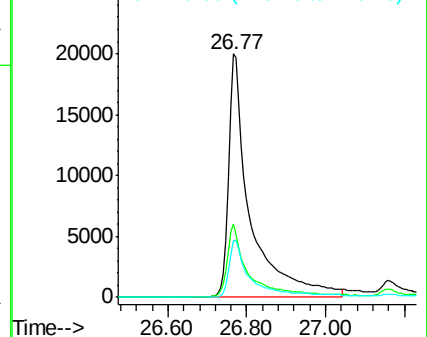
279 23.3 22.0 33.0



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: 9.09 ng

RT: 27.16 min Scan# 4460

Delta R.T. 0.01 min

Lab File: BE089685.D

Acq: 25 Feb 2015 18:15

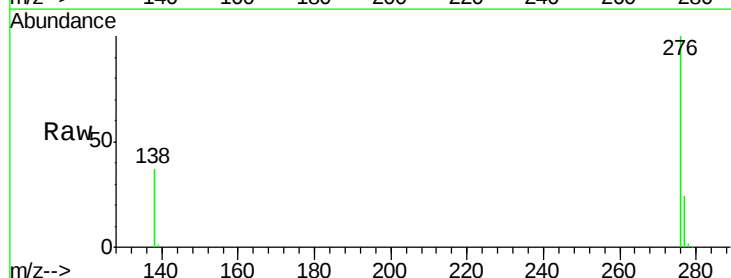
Tgt Ion:276 Resp: 364538

Ion Ratio Lower Upper

276 100

277 23.6 21.0 31.6

138 37.0 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

