

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089533.D
 Acq On : 6 Feb 2015 19:05
 Operator : TP/IZ
 Sample : PB81495BS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BS

Quant Time: Feb 07 04:36:09 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

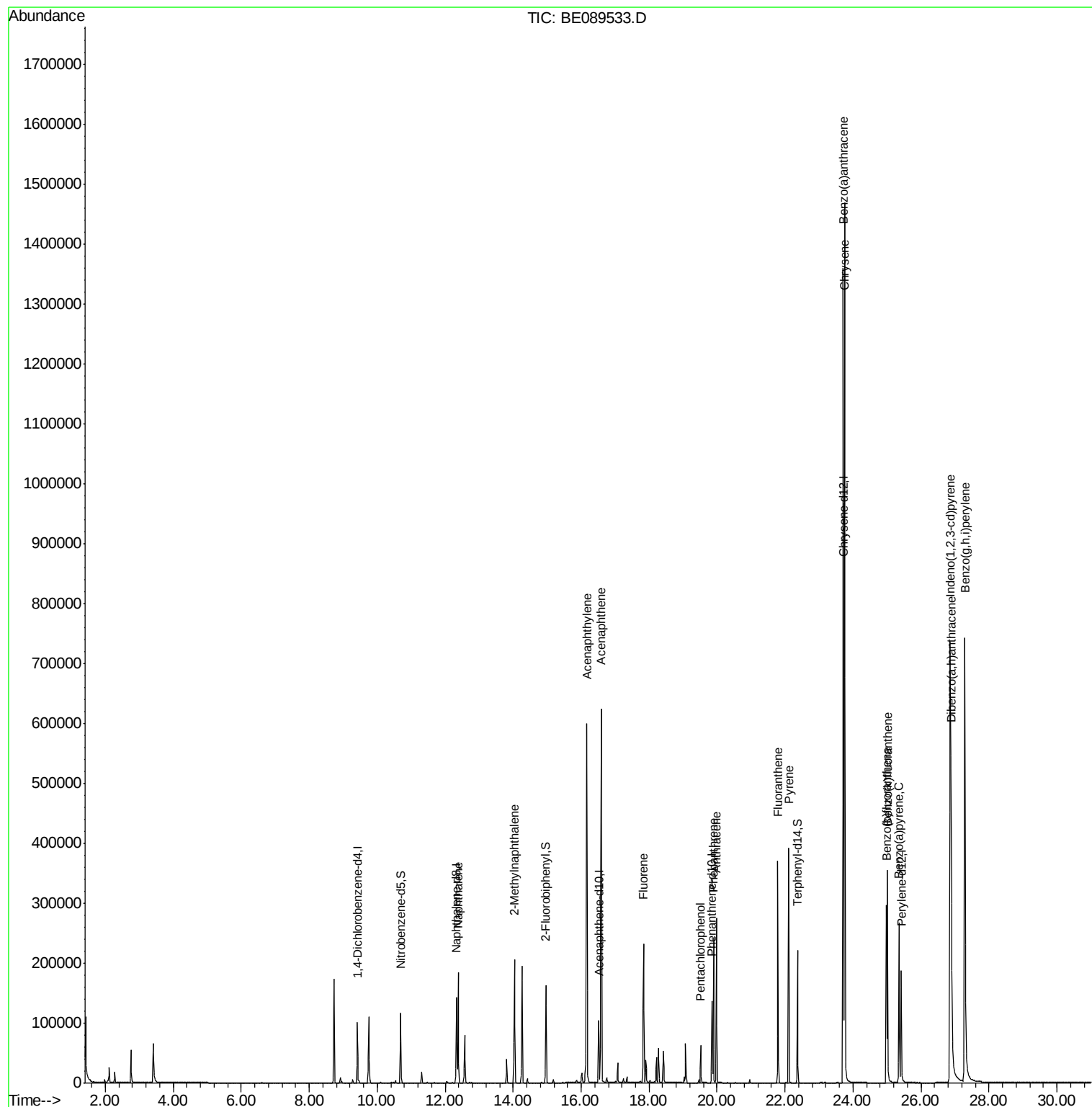
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.43	152	43913	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	171145	5.00	ng	0.00
6) Acenaphthene-d10	16.52	164	72486	5.00	ng	0.01
11) Phenanthrene-d10	19.85	188	136490	5.00	ng	0.00
16) Chrysene-d12	23.72	240	155125	5.00	ng	0.00
22) Perylene-d12	25.41	264	158265	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	88088	7.75	ng	0.00
7) 2-Fluorobiphenyl	14.97	172	152058	7.86	ng	0.00
18) Terphenyl-d14	22.37	244	194154	9.49	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	12.38	128	222571	5.77	ng	99
5) 2-Methylnaphthalene	14.04	142	139790	6.38	ng	99
8) Acenaphthylene	16.17	152	878697	7.21	ng	99
9) Acenaphthene	16.59	154	129121	6.67	ng	99
10) Fluorene	17.84	166	155048	7.55	ng	99
12) Pentachlorophenol	19.52	266	34275	15.46	ng	86
13) Phenanthrene	19.90	178	238896	7.06	ng	99
14) Anthracene	19.99	178	242706	8.50	ng	100
15) Fluoranthene	21.79	202	252769	8.02	ng	99
17) Pyrene	22.11	202	271707	8.22	ng	99
19) Benzo(a)anthracene	23.71	228	1037212	7.51	ng	99
20) Chrysene	23.76	228	1062436	7.58	ng	99
21) Indeno(1,2,3-cd)pyrene	26.86	276	1294752	6.64	ng	99
23) Benzo(b)fluoranthene	24.98	252	256684	8.35	ng	98
24) Benzo(k)fluoranthene	25.01	252	299405	7.84	ng	98
25) Benzo(a)pyrene	25.35	252	270016	8.83	ng	98
26) Dibenzo(a,h)anthracene	26.89	278	288886	7.70	ng	98
27) Benzo(g,h,i)perylene	27.29	276	1112302	7.26	ng	98

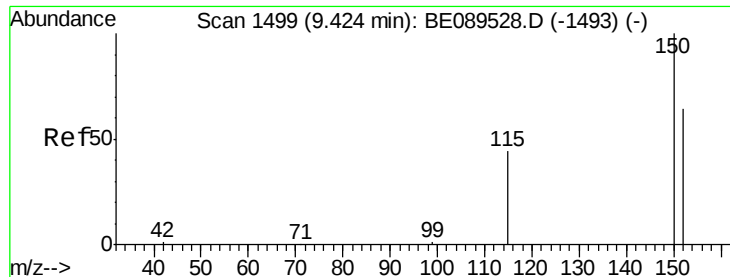
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.43 min Scan# 1499

Delta R.T. 0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

Instrument :

BNA_E

ClientSampleId :

PB81495BS

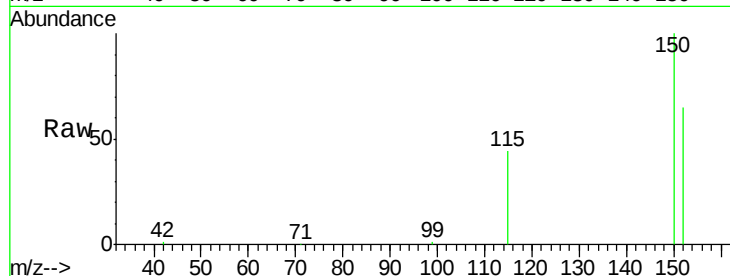
Tgt Ion:152 Resp: 43913

Ion Ratio Lower Upper

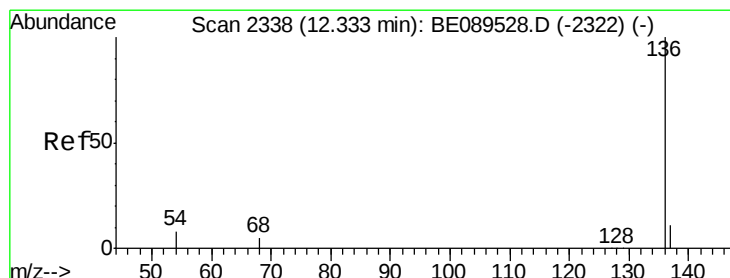
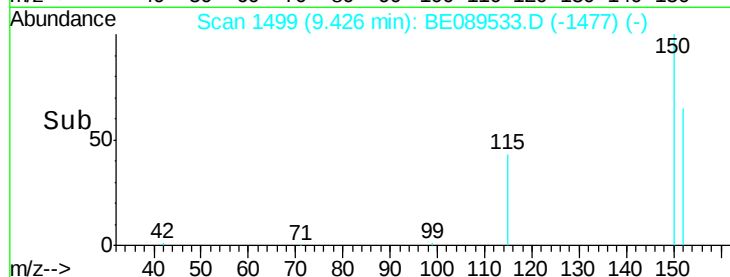
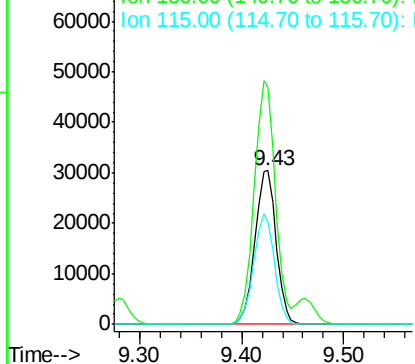
152 100

150 154.5 125.7 188.5

115 67.2 55.6 83.4



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

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2338

Delta R.T. -0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

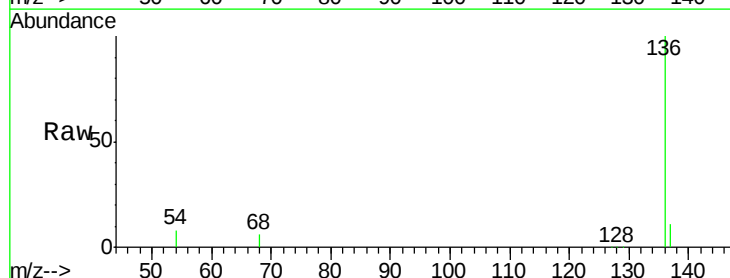
Tgt Ion:136 Resp: 171145

Ion Ratio Lower Upper

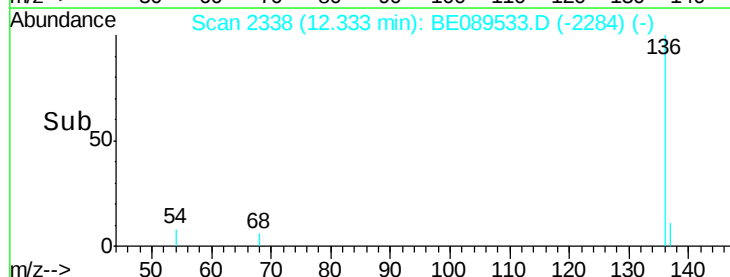
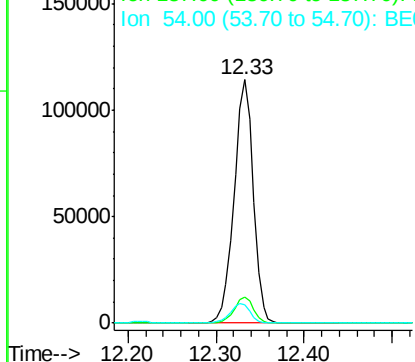
136 100

137 10.9 8.7 13.1

54 7.7 6.1 9.1



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 7.75 ng

RT: 10.69 min Scan# 1896

Delta R.T. -0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

Instrument :

BNA_E

ClientSampleId :

PB81495BS

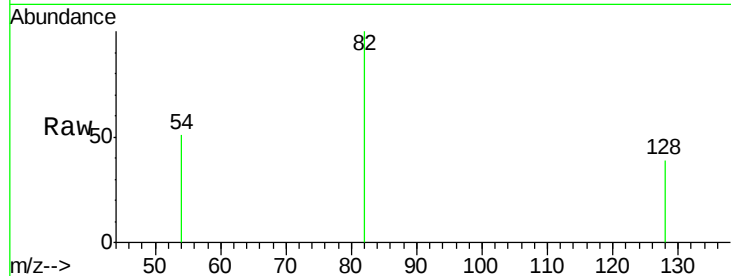
Tgt Ion: 82 Resp: 88088

Ion Ratio Lower Upper

82 100

128 39.3 30.2 45.4

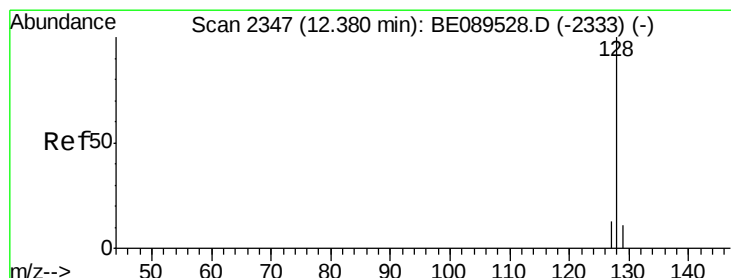
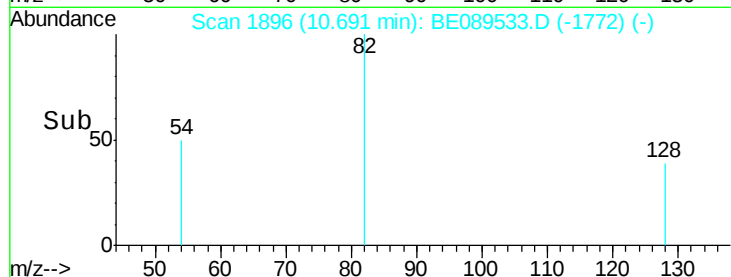
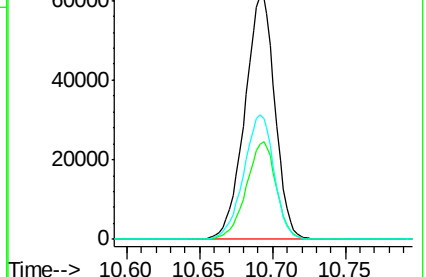
54 51.4 40.6 60.8



Abundance Ion 82.00 (81.70 to 82.70): BE089533.D (-2290) (-)

Ion 128.00 (127.70 to 128.70): BE089533.D (-2290) (-)

Ion 54.00 (53.70 to 54.70): BE089533.D (-2290) (-)



#4

Naphthalene

Concen: 5.77 ng

RT: 12.38 min Scan# 2347

Delta R.T. -0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

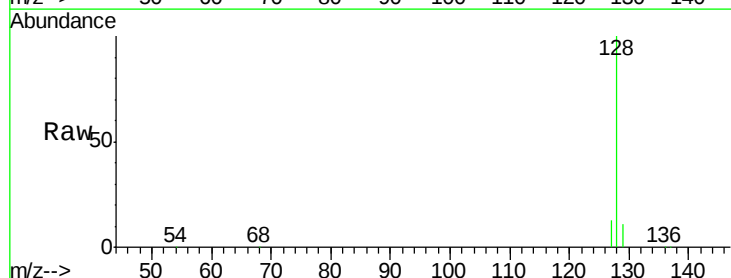
Tgt Ion: 128 Resp: 222571

Ion Ratio Lower Upper

128 100

129 10.9 9.1 13.7

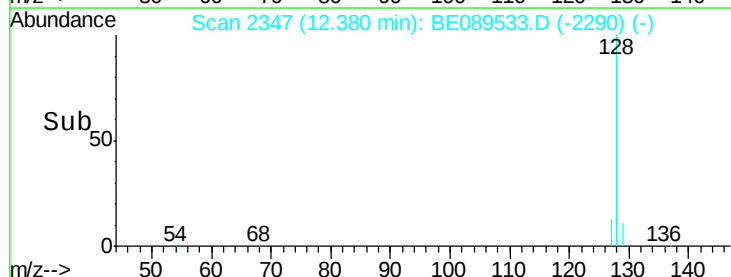
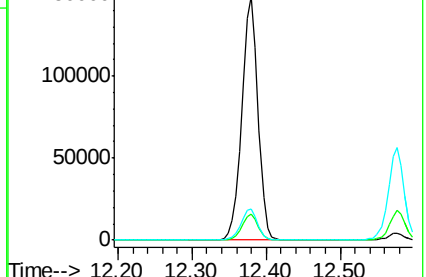
127 12.9 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): BE089533.D (-2290) (-)

Ion 129.00 (128.70 to 129.70): BE089533.D (-2290) (-)

Ion 127.00 (126.70 to 127.70): BE089533.D (-2290) (-)





#5

2-Methylnaphthalene

Concen: 6.38 ng

RT: 14.04 min Scan# 2679

Delta R.T. -0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

Instrument :

BNA_E

ClientSampleId :

PB81495BS

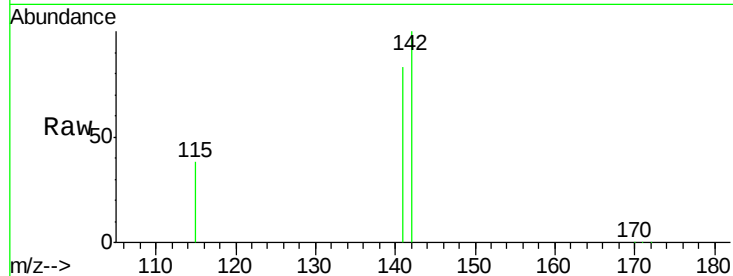
Tgt Ion:142 Resp: 139790

Ion Ratio Lower Upper

142 100

141 83.0 67.0 100.6

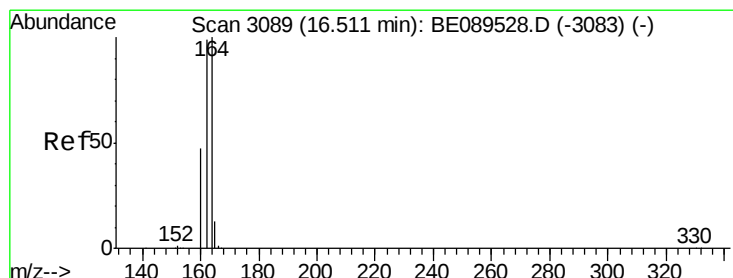
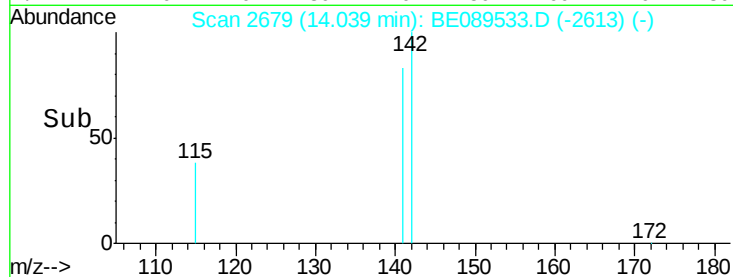
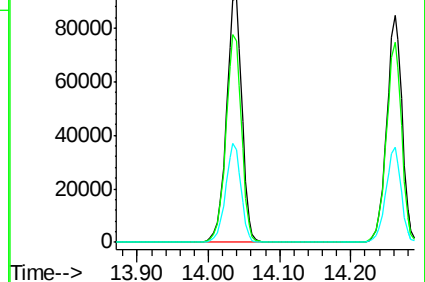
115 37.9 30.6 45.8



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



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.52 min Scan# 3090

Delta R.T. 0.01 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

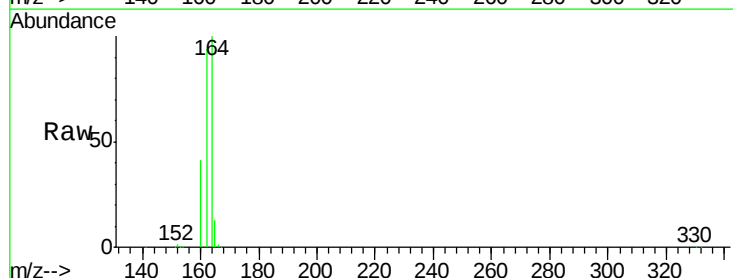
Tgt Ion:164 Resp: 72486

Ion Ratio Lower Upper

164 100

162 93.9 79.5 119.3

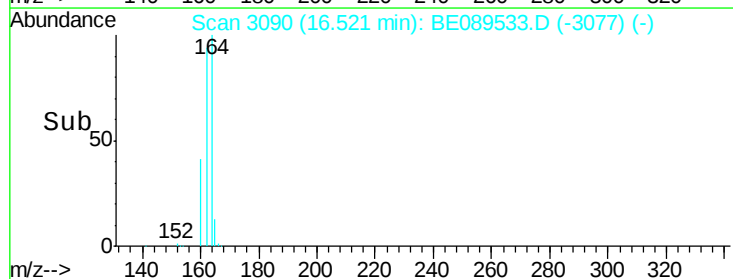
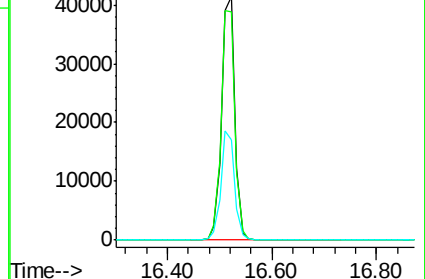
160 41.4 37.6 56.4



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





#7

2-Fluorobiphenyl

Concen: 7.86 ng

RT: 14.97 min Scan# 2883

Delta R.T. 0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

Instrument :

BNA_E

ClientSampleId :

PB81495BS

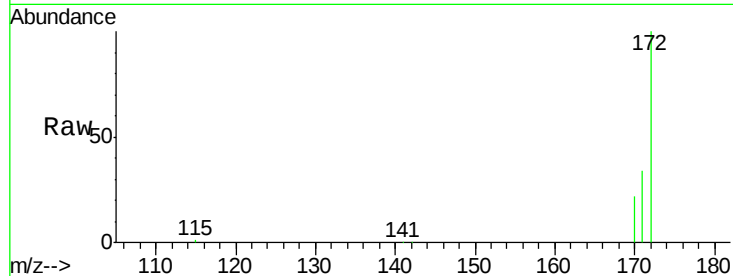
Tgt Ion:172 Resp: 152058

Ion Ratio Lower Upper

172 100

171 33.7 27.7 41.5

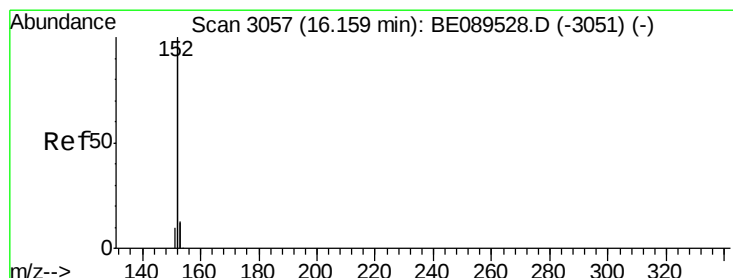
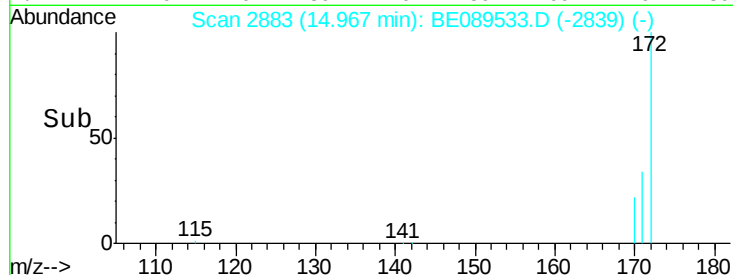
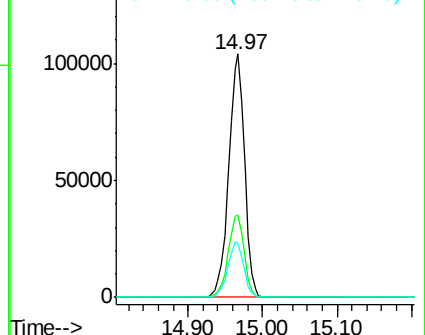
170 22.0 18.3 27.5



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



#8

Acenaphthylene

Concen: 7.21 ng

RT: 16.17 min Scan# 3058

Delta R.T. 0.01 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

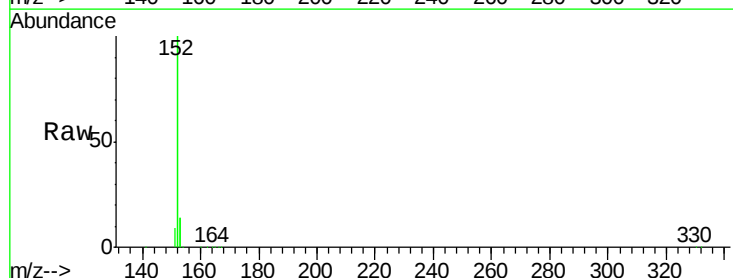
Tgt Ion:152 Resp: 878697

Ion Ratio Lower Upper

152 100

151 4.9 4.0 6.0

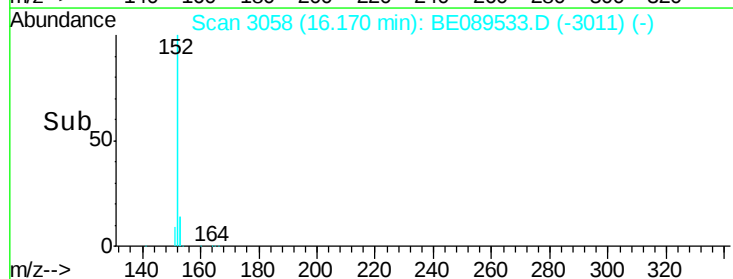
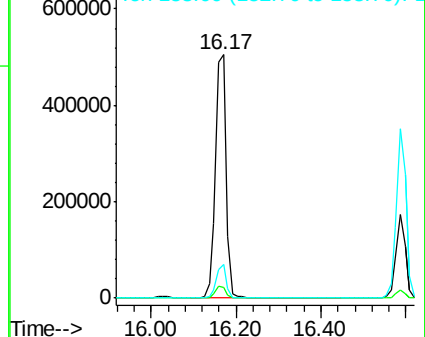
153 13.0 10.6 15.8

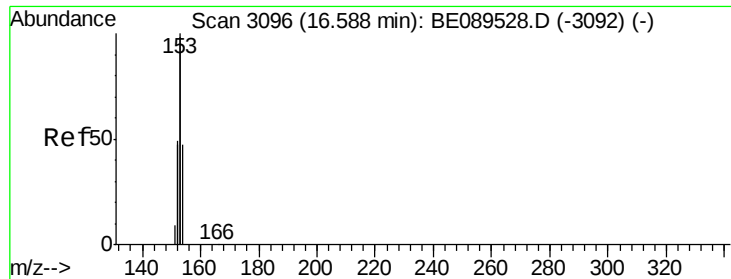


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 6.67 ng

RT: 16.59 min Scan# 3096

Delta R.T. -0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

Instrument :

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PB81495BS

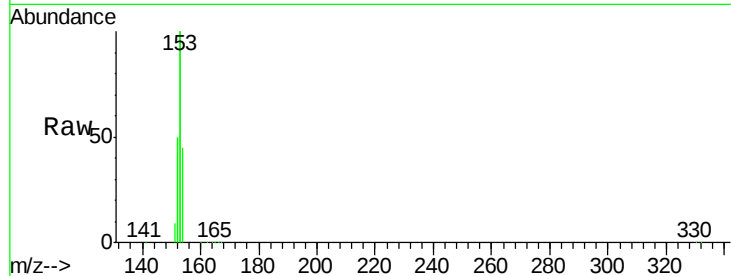
Tgt Ion:154 Resp: 129121

Ion Ratio Lower Upper

154 100

153 428.5 340.8 511.2

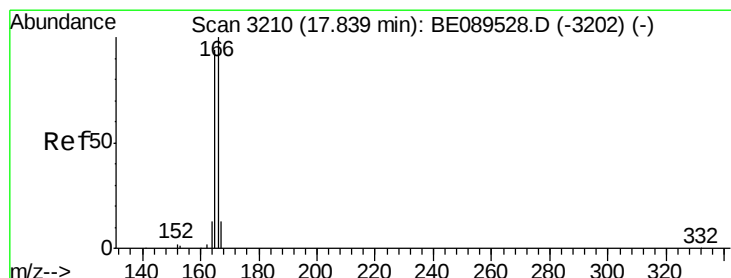
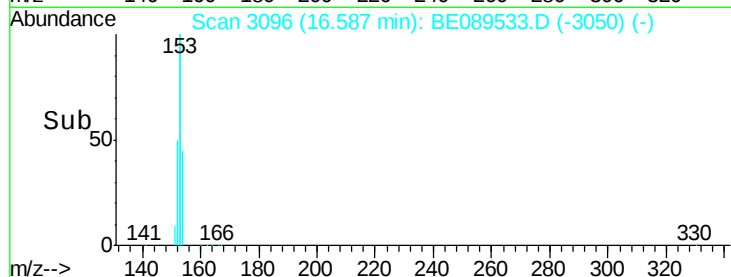
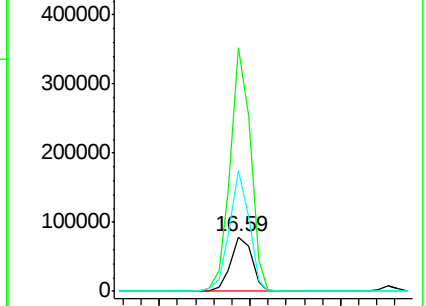
152 206.0 165.5 248.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 7.55 ng

RT: 17.84 min Scan# 3210

Delta R.T. -0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

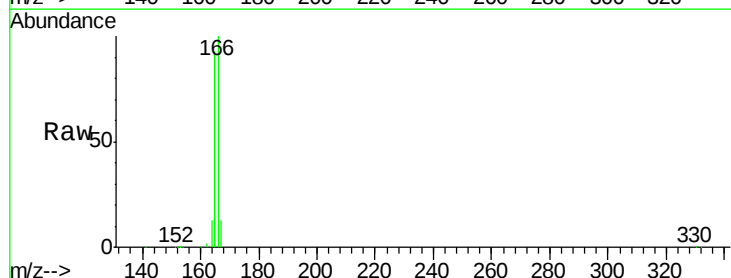
Tgt Ion:166 Resp: 155048

Ion Ratio Lower Upper

166 100

165 93.0 75.5 113.3

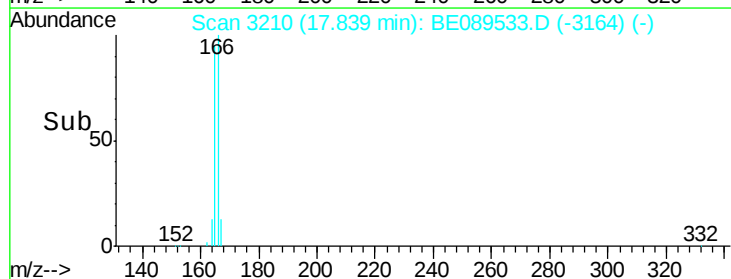
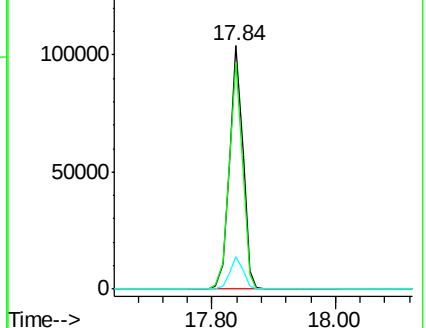
167 13.1 10.9 16.3

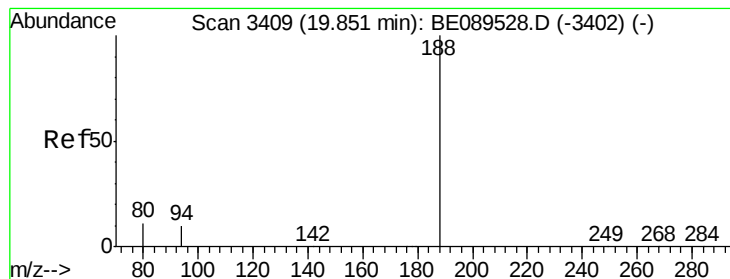


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.85 min Scan# 3409

Delta R.T. -0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

Instrument :

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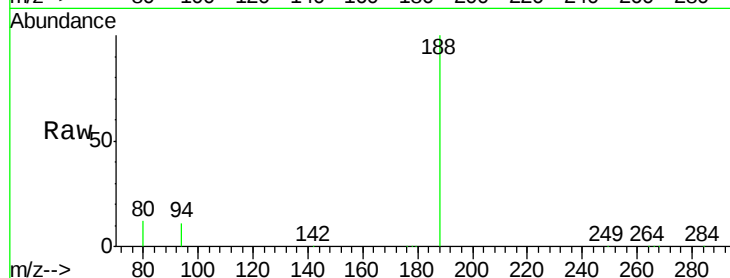
Tgt Ion:188 Resp: 136490

Ion Ratio Lower Upper

188 100

94 11.2 8.4 12.6

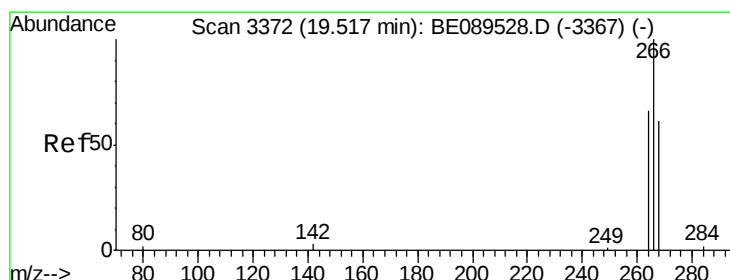
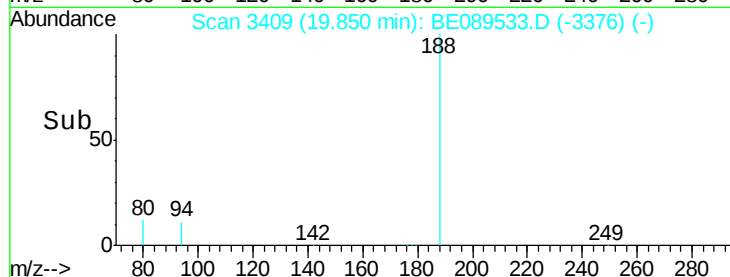
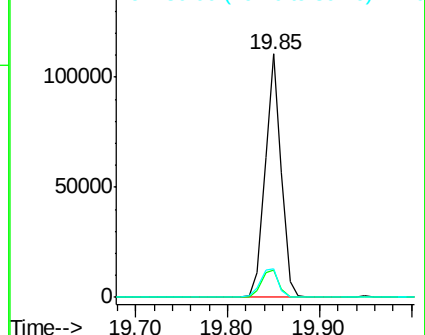
80 11.7 8.6 12.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#12

Pentachlorophenol

Concen: 15.46 ng

RT: 19.52 min Scan# 3372

Delta R.T. -0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

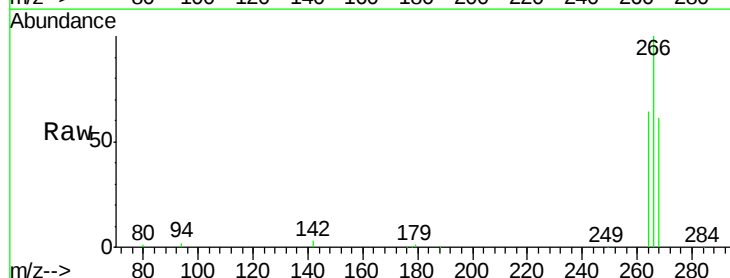
Tgt Ion:266 Resp: 34275

Ion Ratio Lower Upper

266 100

268 60.6 57.9 86.9

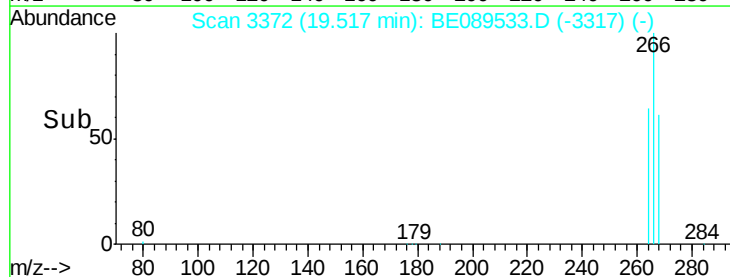
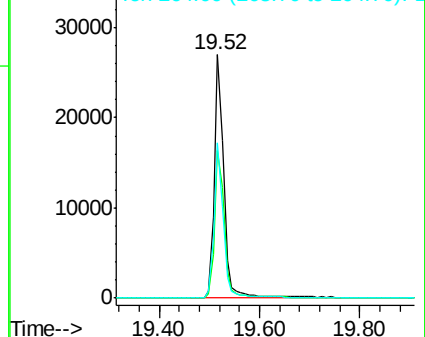
264 63.7 60.2 90.4

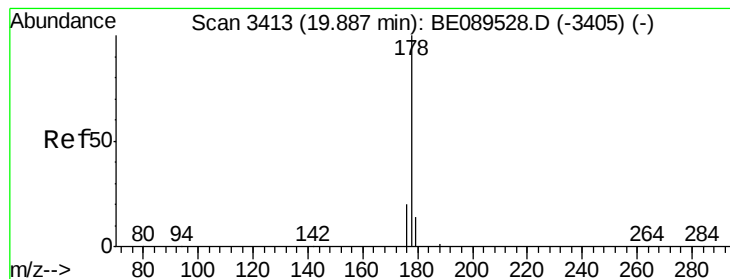


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 7.06 ng

RT: 19.90 min Scan# 3414

Delta R.T. 0.01 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

Instrument :

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ClientSampleId :

PB81495BS

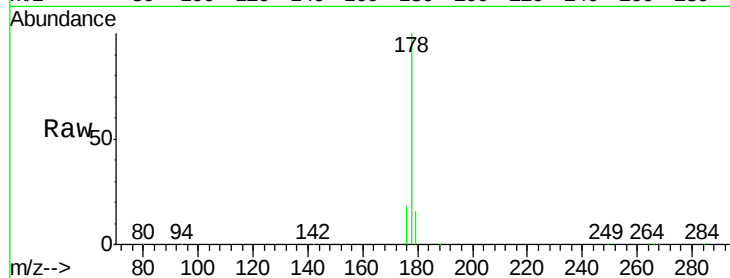
Tgt Ion:178 Resp: 238896

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.0

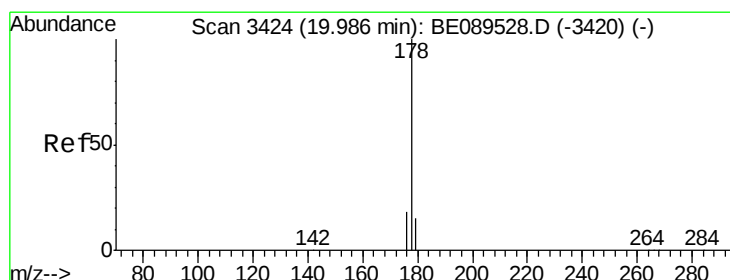
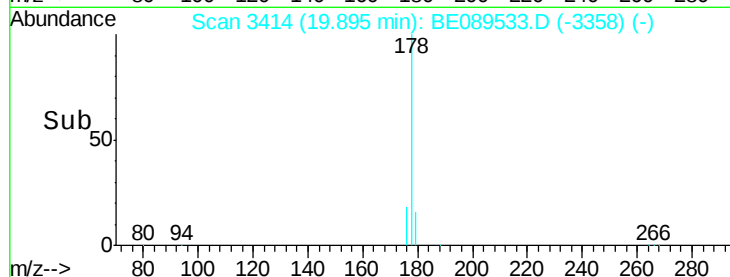
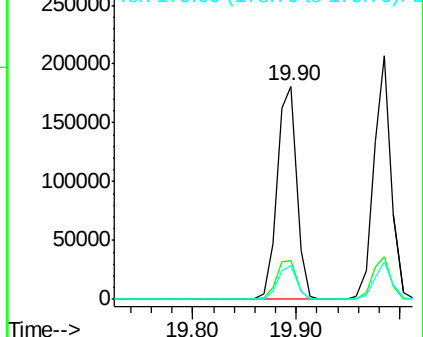
179 15.3 12.2 18.2



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



#14

Anthracene

Concen: 8.50 ng

RT: 19.99 min Scan# 3424

Delta R.T. -0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

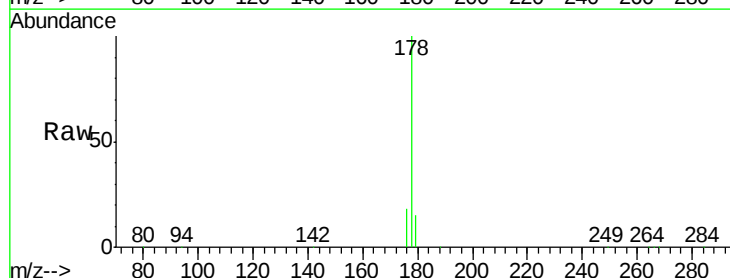
Tgt Ion:178 Resp: 242706

Ion Ratio Lower Upper

178 100

176 18.1 14.5 21.7

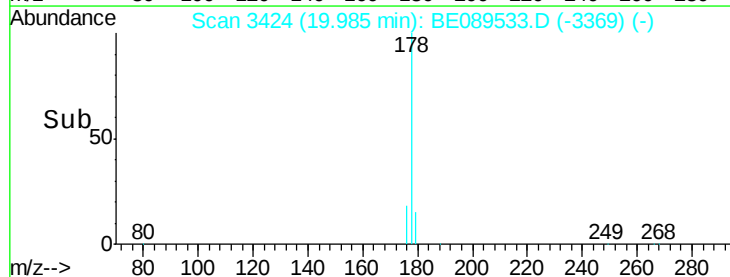
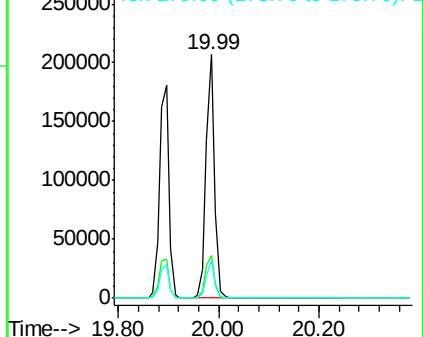
179 15.0 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

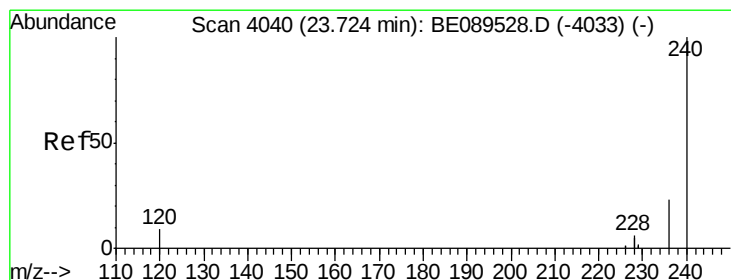
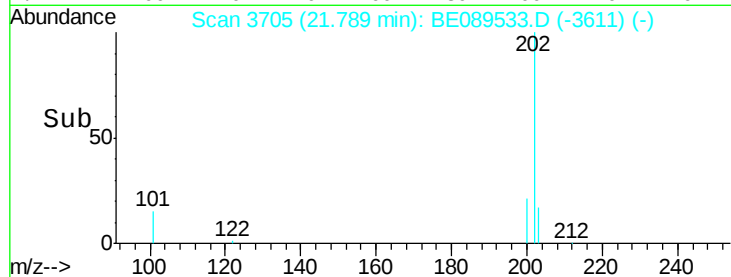
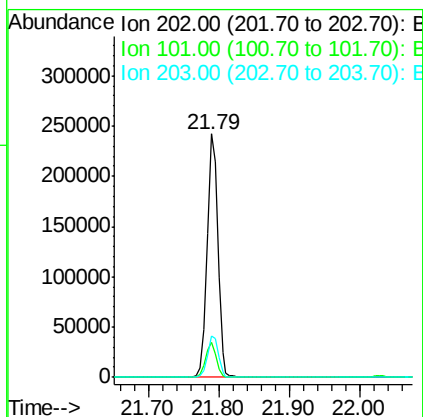
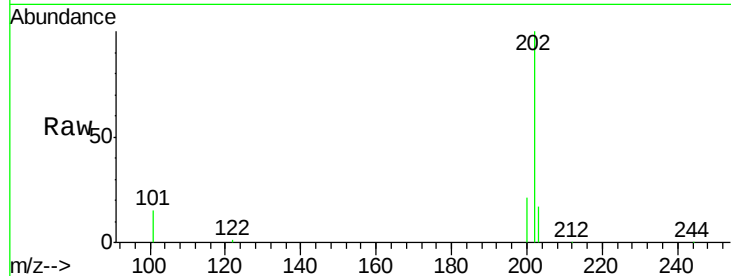




#15
 Fluoranthene
 Concen: 8.02 ng
 RT: 21.79 min Scan# 3705
 Delta R.T. -0.00 min
 Lab File: BE089533.D
 Acq: 6 Feb 2015 19:05

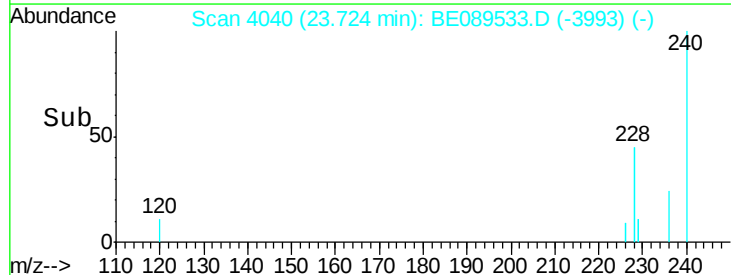
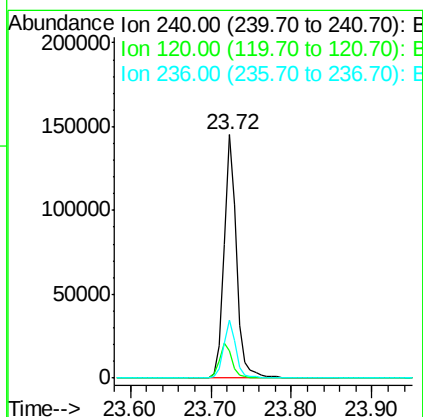
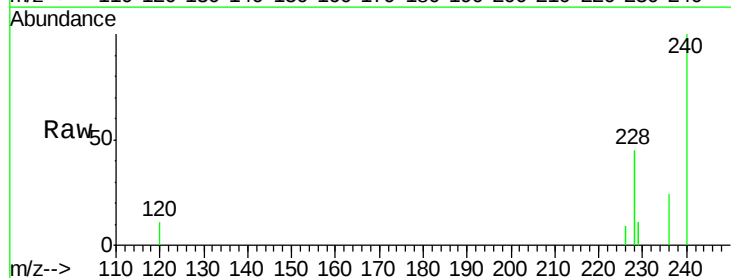
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BS

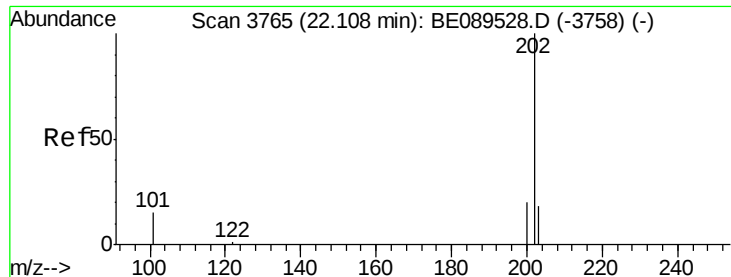
Tgt Ion: 202 Resp: 252769
 Ion Ratio Lower Upper
 202 100
 101 14.0 11.6 17.4
 203 17.2 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4040
 Delta R.T. -0.00 min
 Lab File: BE089533.D
 Acq: 6 Feb 2015 19:05

Tgt Ion: 240 Resp: 155125
 Ion Ratio Lower Upper
 240 100
 120 11.4 7.2 10.8#
 236 23.8 18.5 27.7

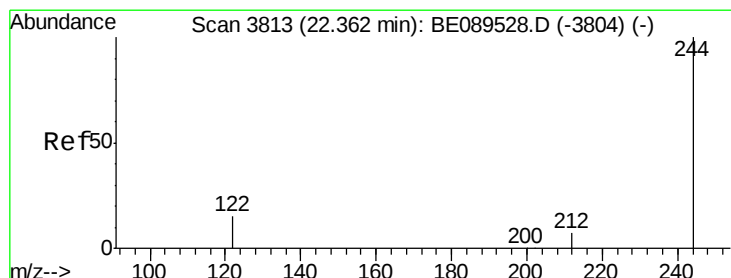
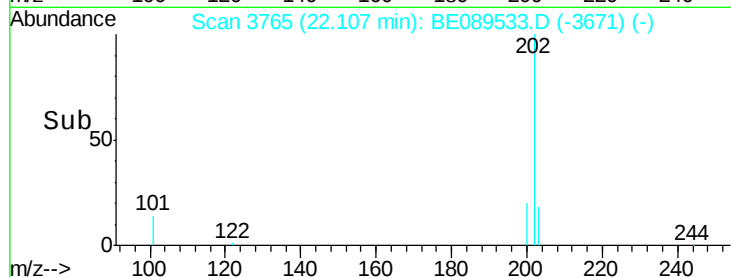
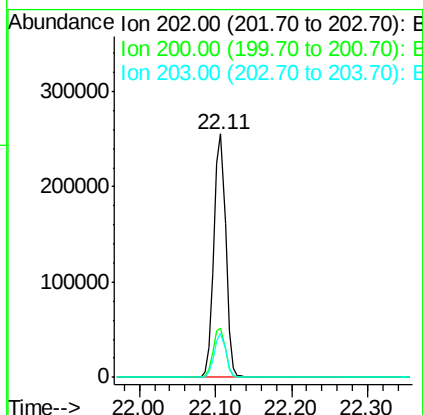
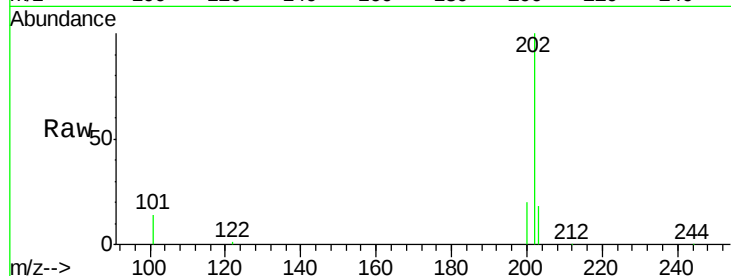




#17
Pyrene
Concen: 8.22 ng
RT: 22.11 min Scan# 3765
Delta R.T. -0.00 min
Lab File: BE089533.D
Acq: 6 Feb 2015 19:05

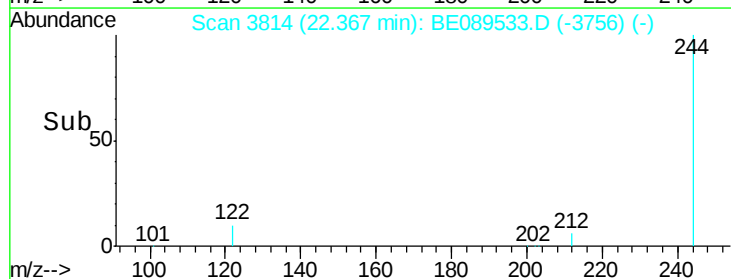
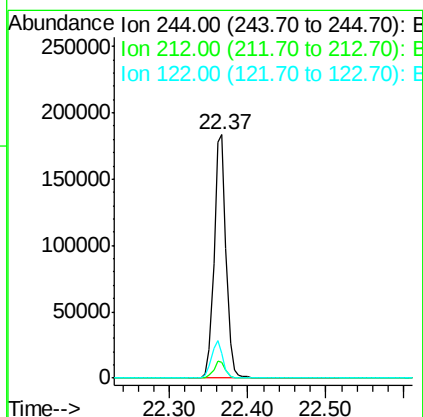
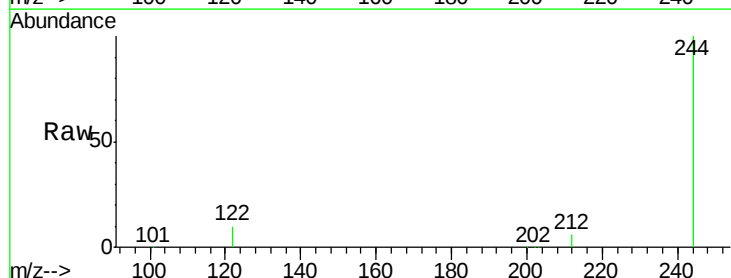
Instrument :
BNA_E
ClientSampleId :
PB81495BS

Tgt Ion:202 Resp: 271707
Ion Ratio Lower Upper
202 100
200 20.7 16.3 24.5
203 17.9 13.5 20.3



#18
Terphenyl-d14
Concen: 9.49 ng
RT: 22.37 min Scan# 3814
Delta R.T. 0.00 min
Lab File: BE089533.D
Acq: 6 Feb 2015 19:05

Tgt Ion:244 Resp: 194154
Ion Ratio Lower Upper
244 100
212 6.5 5.8 8.8
122 10.3 12.6 19.0#





#19

Benzo(a)anthracene

Concen: 7.51 ng

RT: 23.71 min Scan# 4038

Delta R.T. -0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

Instrument :

BNA_E

ClientSampleId :

PB81495BS

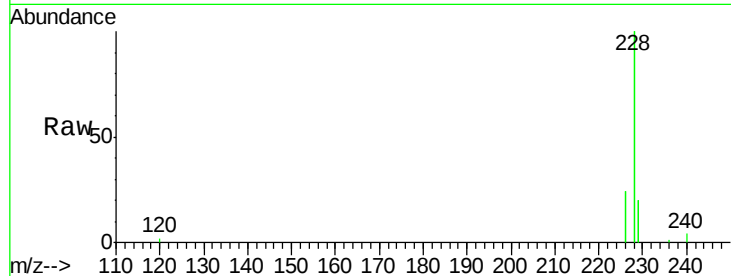
Tgt Ion:228 Resp: 1037212

Ion Ratio Lower Upper

228 100

226 24.3 19.0 28.4

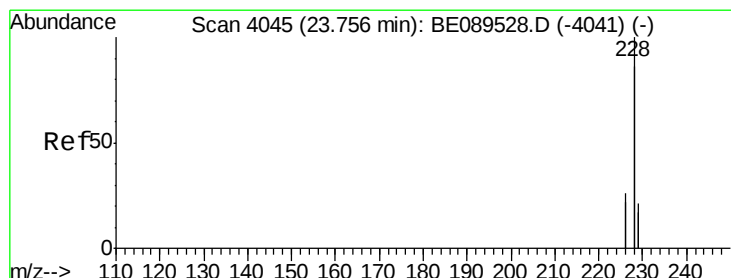
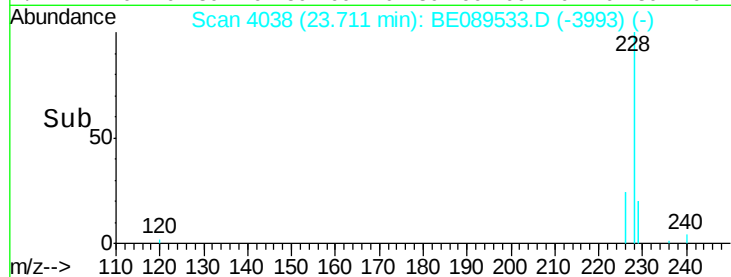
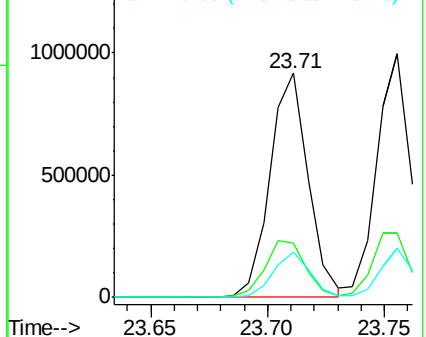
229 20.2 16.8 25.2



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



#20

Chrysene

Concen: 7.58 ng

RT: 23.76 min Scan# 4045

Delta R.T. -0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

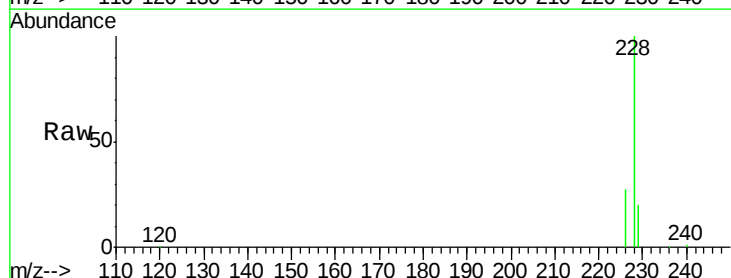
Tgt Ion:228 Resp: 1062436

Ion Ratio Lower Upper

228 100

226 26.6 21.0 31.4

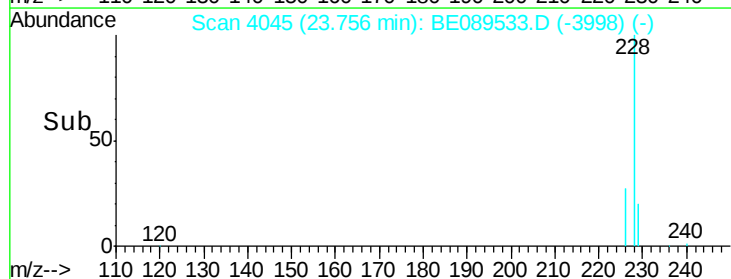
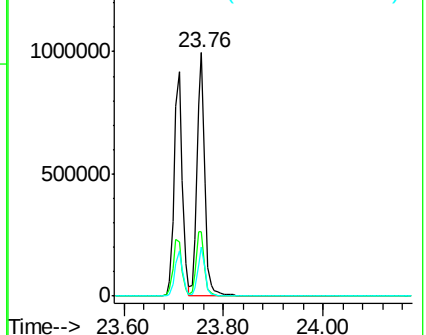
229 20.3 16.7 25.1

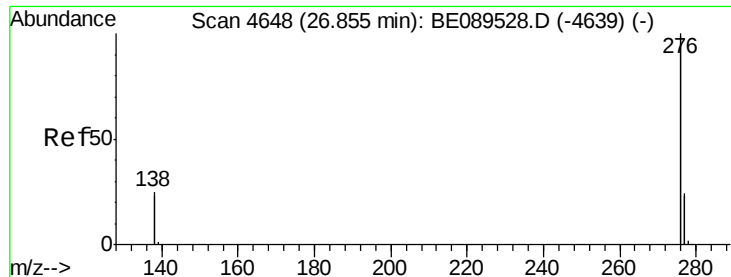


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 6.64 ng

RT: 26.86 min Scan# 4649

Delta R.T. 0.01 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

Instrument :

BNA_E

ClientSampleId :

PB81495BS

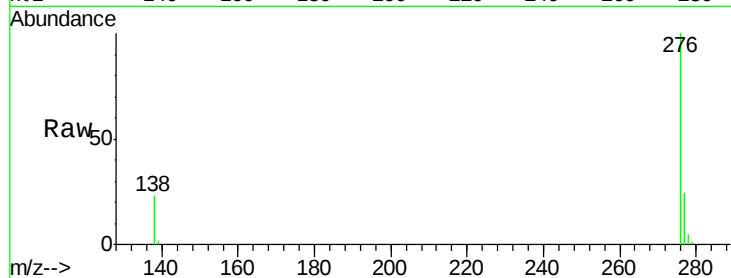
Tgt Ion:276 Resp: 1294752

Ion Ratio Lower Upper

276 100

138 29.0 23.0 34.4

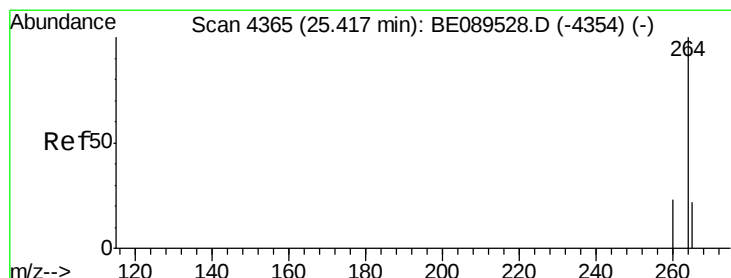
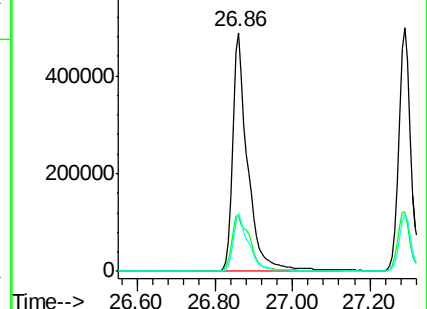
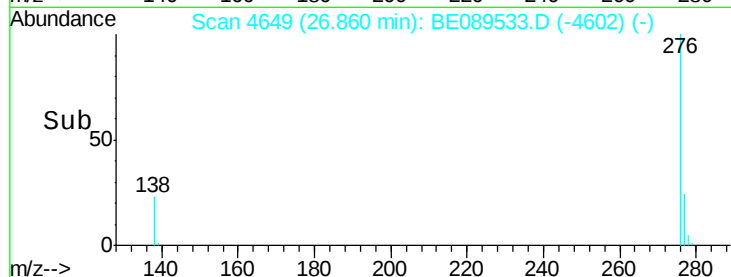
277 25.2 19.9 29.9



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.41 min Scan# 4365

Delta R.T. -0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

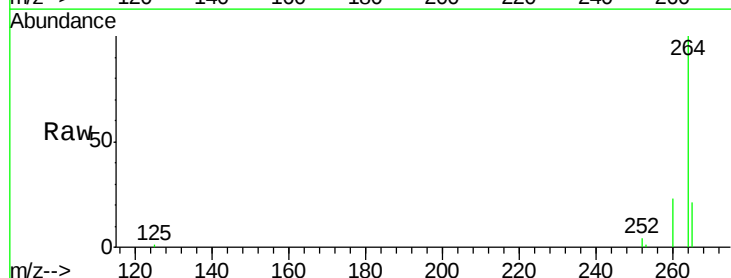
Tgt Ion:264 Resp: 158265

Ion Ratio Lower Upper

264 100

260 23.3 18.7 28.1

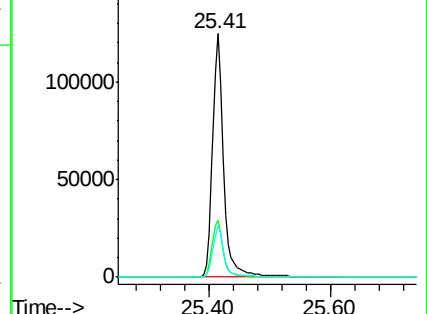
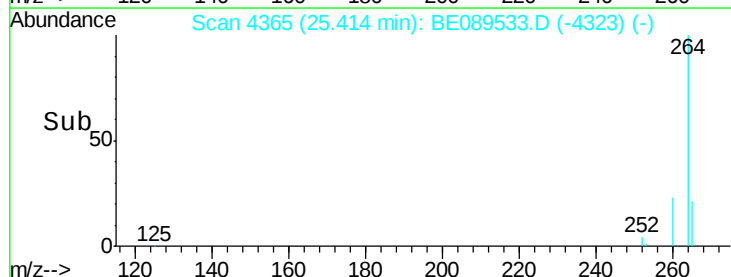
265 21.3 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 8.35 ng

RT: 24.98 min Scan# 4270

Delta R.T. 0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

Instrument :

BNA_E

ClientSampleId :

PB81495BS

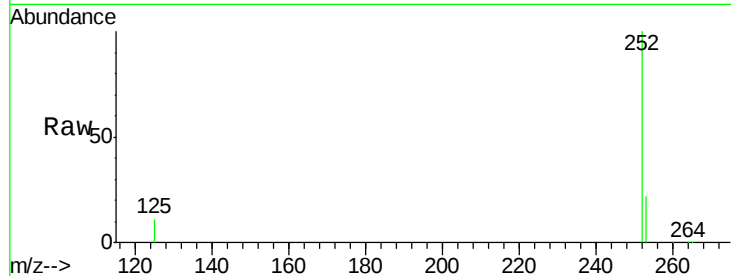
Tgt Ion:252 Resp: 256684

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.0

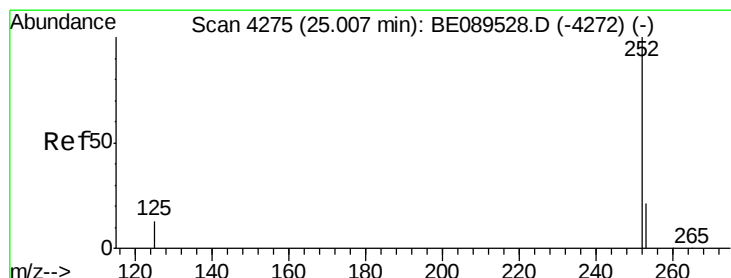
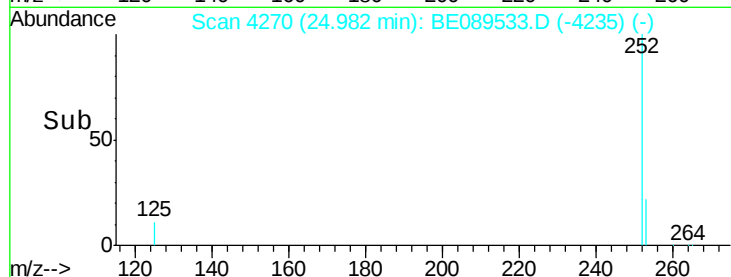
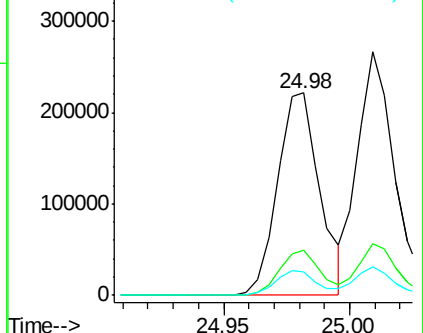
125 11.4 10.4 15.6



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



#24

Benzo(k)fluoranthene

Concen: 7.84 ng

RT: 25.01 min Scan# 4276

Delta R.T. 0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

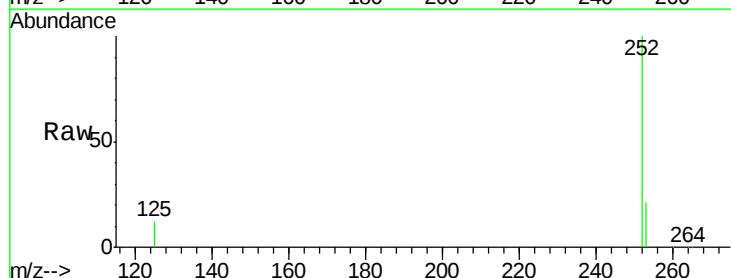
Tgt Ion:252 Resp: 299405

Ion Ratio Lower Upper

252 100

253 21.3 17.2 25.8

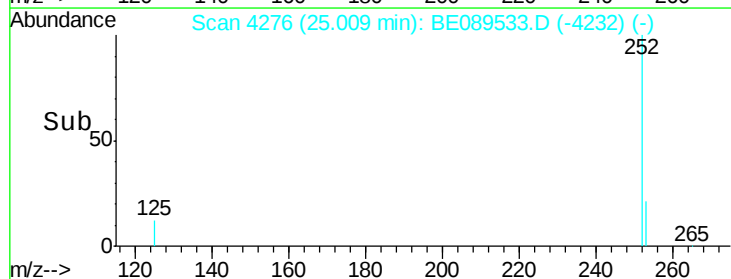
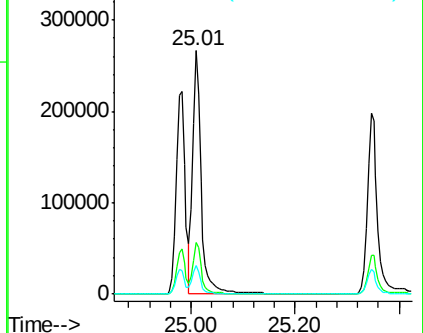
125 11.9 10.6 15.8



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





#25

Benzo(a)pyrene

Concen: 8.83 ng

RT: 25.35 min Scan# 4350

Delta R.T. -0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

Instrument :

BNA_E

ClientSampleId :

PB81495BS

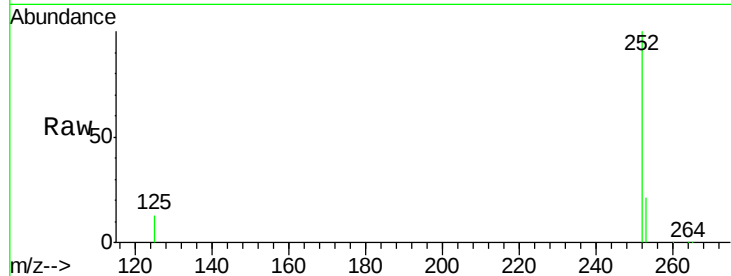
Tgt Ion:252 Resp: 270016

Ion Ratio Lower Upper

252 100

253 21.3 17.8 26.6

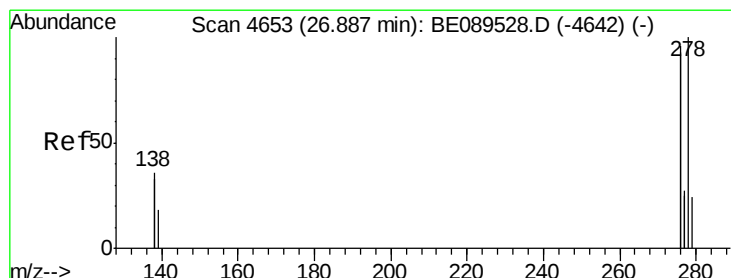
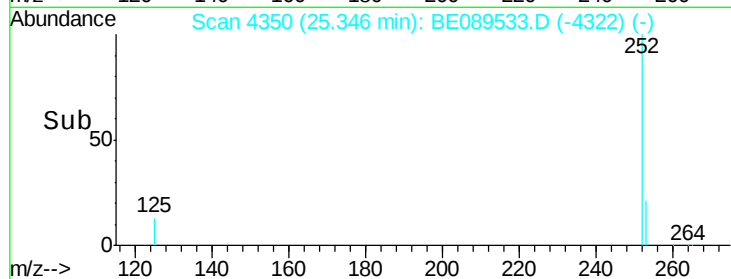
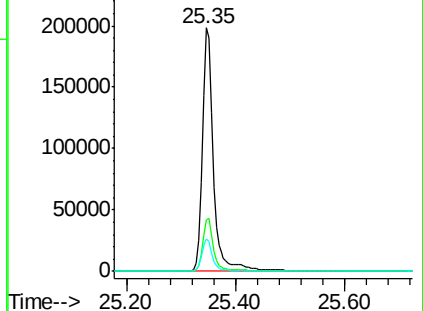
125 13.5 11.4 17.2



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



#26

Dibenzo(a,h)anthracene

Concen: 7.70 ng

RT: 26.89 min Scan# 4653

Delta R.T. -0.00 min

Lab File: BE089533.D

Acq: 6 Feb 2015 19:05

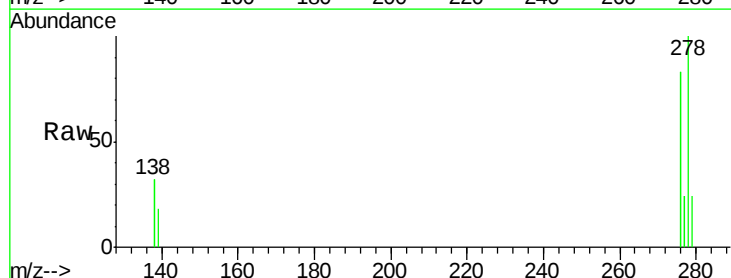
Tgt Ion:278 Resp: 288886

Ion Ratio Lower Upper

278 100

139 18.3 15.7 23.5

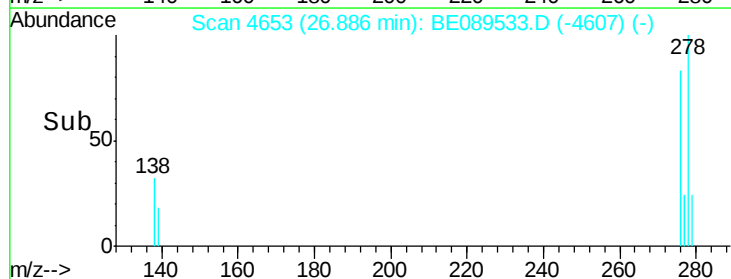
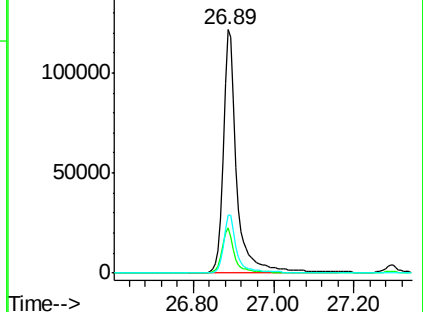
279 23.8 19.5 29.3



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





#27

Benzo(g,h,i)perylene

Concen: 7.26 ng

RT: 27.29 min Scan# 4715

Delta R.T. 0.01 min

Lab File: BE089533.D

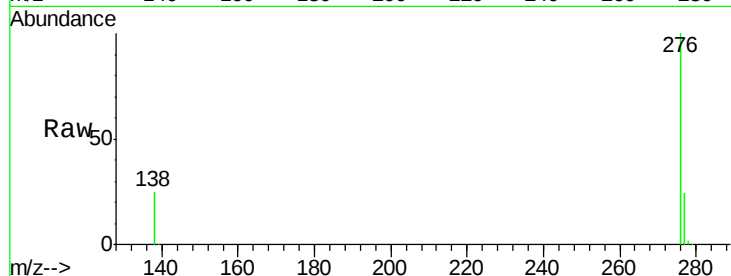
Acq: 6 Feb 2015 19:05

Instrument :

BNA_E

ClientSampleId :

PB81495BS



Tgt Ion: 276 Resp: 1112302

Ion Ratio Lower Upper

276 100

277 23.6 18.6 27.8

138 24.6 20.9 31.3

