

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089534.D
 Acq On : 6 Feb 2015 19:44
 Operator : TP/IZ
 Sample : PB81495BSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BSD

Quant Time: Feb 07 04:37:13 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	34826	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	132735	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	55042	5.00	ng	0.00
11) Phenanthrene-d10	19.85	188	101331	5.00	ng	0.00
16) Chrysene-d12	23.72	240	120220	5.00	ng	0.00
22) Perylene-d12	25.41	264	126153	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	72941	8.28	ng	0.00
7) 2-Fluorobiphenyl	14.97	172	124362	8.47	ng	0.00
18) Terphenyl-d14	22.36	244	151722	9.57	ng	0.00

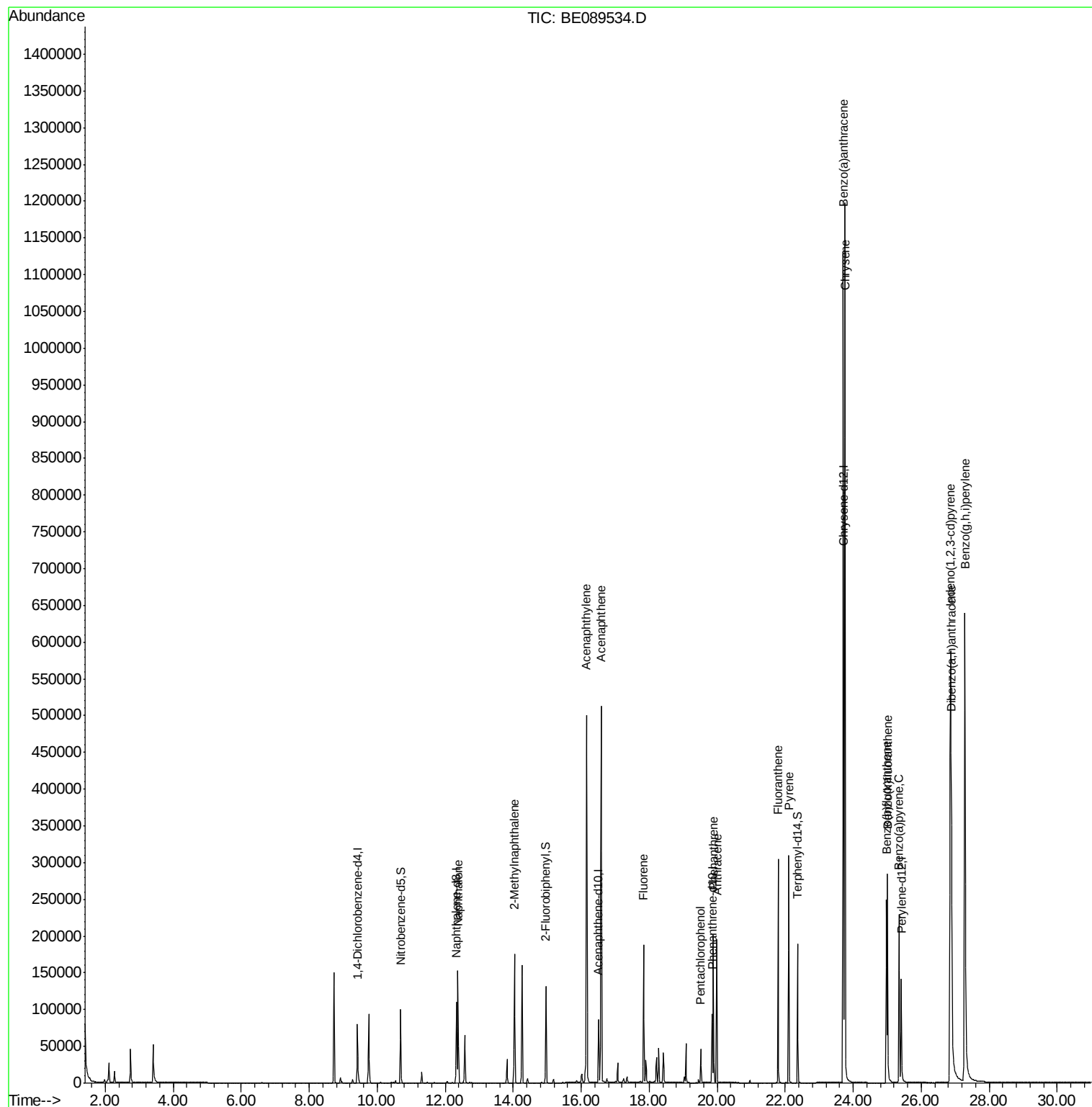
Target Compounds				Qvalue		
4) Naphthalene	12.38	128	184744	6.18	ng	99
5) 2-Methylnaphthalene	14.04	142	114776	6.76	ng	99
8) Acenaphthylene	16.16	152	704184	7.61	ng	99
9) Acenaphthene	16.59	154	103747	7.06	ng	98
10) Fluorene	17.84	166	122026	7.82	ng	99
12) Pentachlorophenol	19.52	266	24599	15.14	ng	88
13) Phenanthrene	19.89	178	189764	7.56	ng	99
14) Anthracene	19.99	178	189531	8.94	ng	100
15) Fluoranthene	21.79	202	197580	8.45	ng	99
17) Pyrene	22.10	202	214822	8.39	ng	99
19) Benzo(a)anthracene	23.71	228	843684	7.89	ng	97
20) Chrysene	23.75	228	869924	8.01	ng	97
21) Indeno(1,2,3-cd)pyrene	26.85	276	1114415	7.38	ng	99
23) Benzo(b)fluoranthene	24.98	252	214415	8.75	ng	98
24) Benzo(k)fluoranthene	25.01	252	251257	8.25	ng	99
25) Benzo(a)pyrene	25.35	252	226254	9.29	ng	98
26) Dibenzo(a,h)anthracene	26.89	278	248310	8.30	ng	97
27) Benzo(g,h,i)perylene	27.29	276	959168	7.86	ng	100

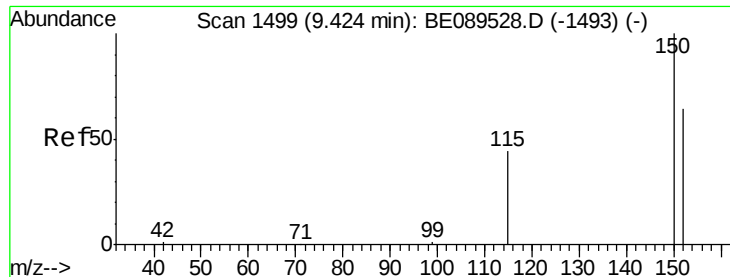
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.43 min Scan# 1498

Delta R.T. 0.00 min

Lab File: BE089534.D

Acq: 6 Feb 2015 19:44

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

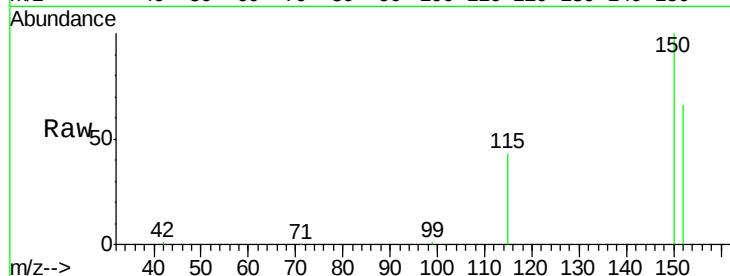
Tgt Ion:152 Resp: 34826

Ion Ratio Lower Upper

152 100

150 151.2 125.7 188.5

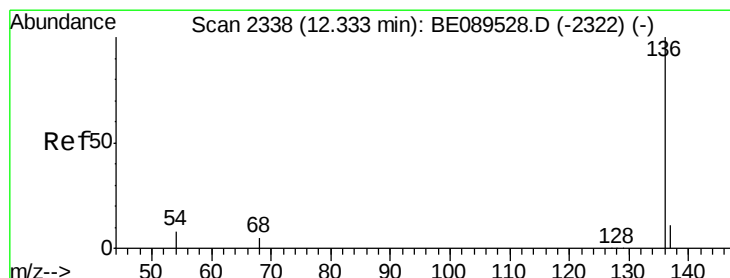
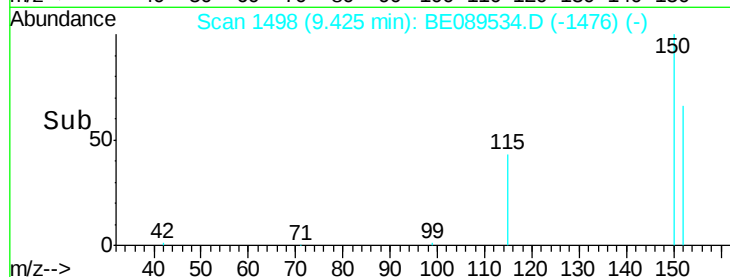
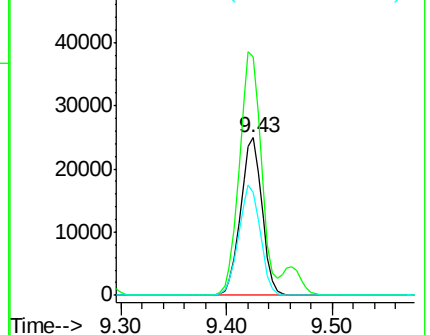
115 65.6 55.6 83.4



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# 2337

Delta R.T. -0.00 min

Lab File: BE089534.D

Acq: 6 Feb 2015 19:44

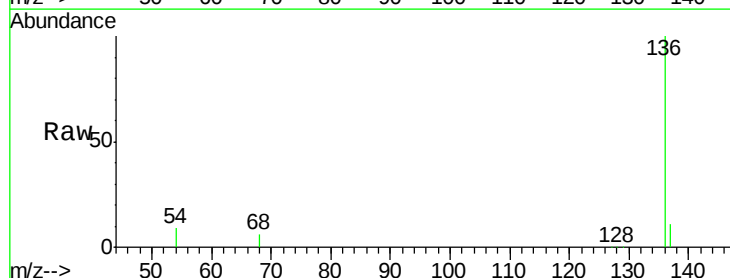
Tgt Ion:136 Resp: 132735

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

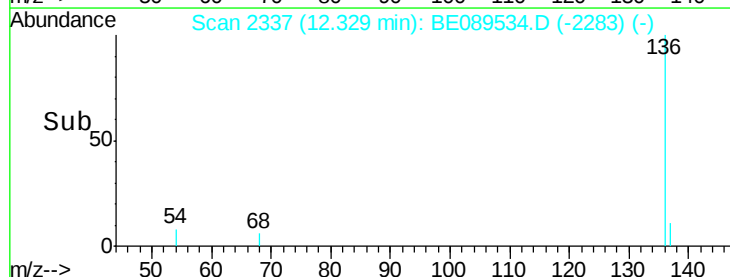
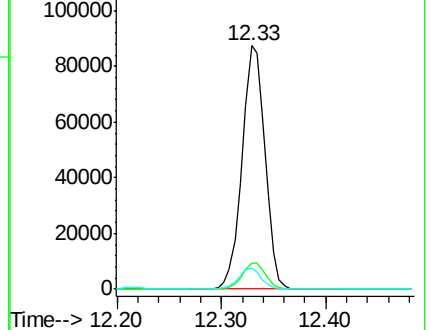
54 8.5 6.1 9.1



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: 8.28 ng

RT: 10.69 min Scan# 1895

Delta R.T. -0.00 min

Lab File: BE089534.D

Acq: 6 Feb 2015 19:44

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

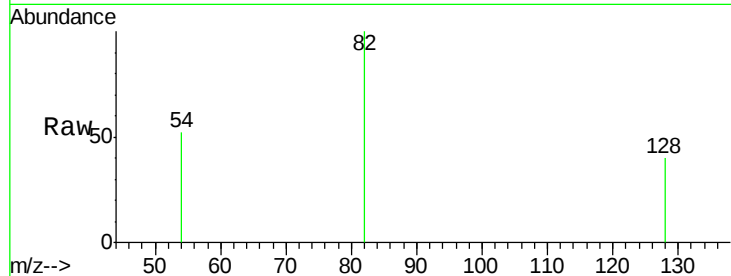
Tgt Ion: 82 Resp: 72941

Ion Ratio Lower Upper

82 100

128 39.9 30.2 45.4

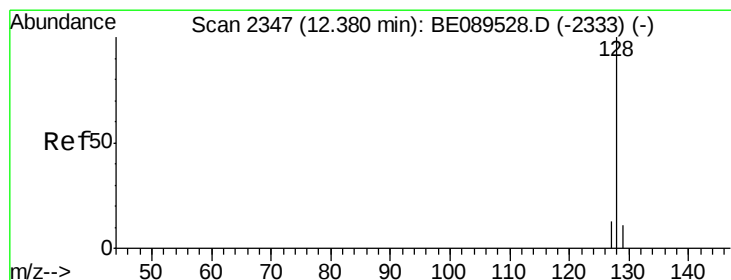
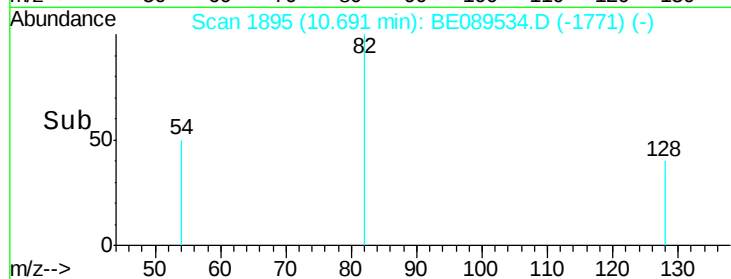
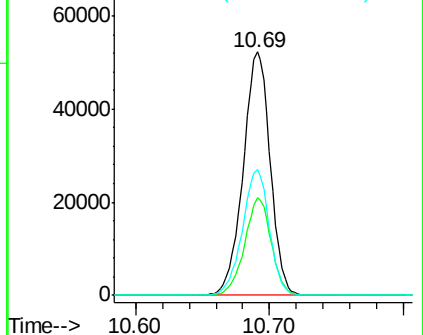
54 51.5 40.6 60.8



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



#4

Naphthalene

Concen: 6.18 ng

RT: 12.38 min Scan# 2346

Delta R.T. -0.00 min

Lab File: BE089534.D

Acq: 6 Feb 2015 19:44

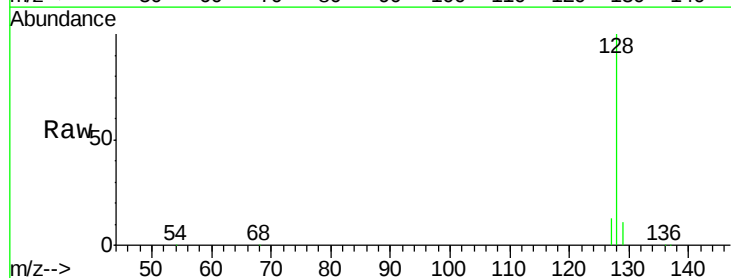
Tgt Ion: 128 Resp: 184744

Ion Ratio Lower Upper

128 100

129 10.7 9.1 13.7

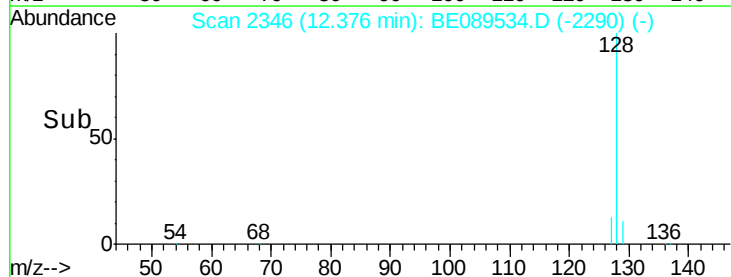
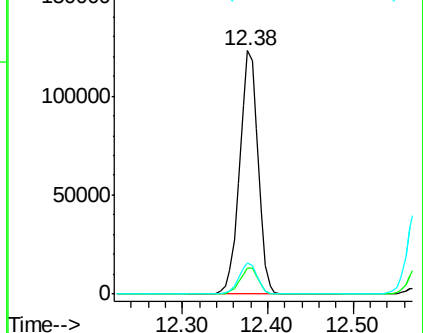
127 13.0 10.5 15.7



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





#5

2-Methylnaphthalene

Concen: 6.76 ng

RT: 14.04 min Scan# 2679

Delta R.T. -0.00 min

Lab File: BE089534.D

Acq: 6 Feb 2015 19:44

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

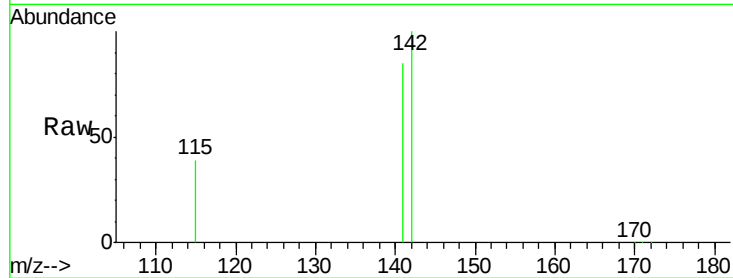
Tgt Ion:142 Resp: 114776

Ion Ratio Lower Upper

142 100

141 84.8 67.0 100.6

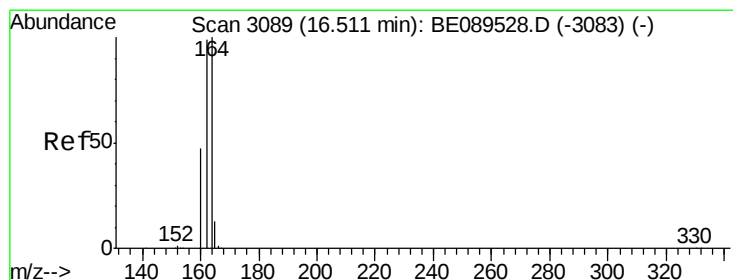
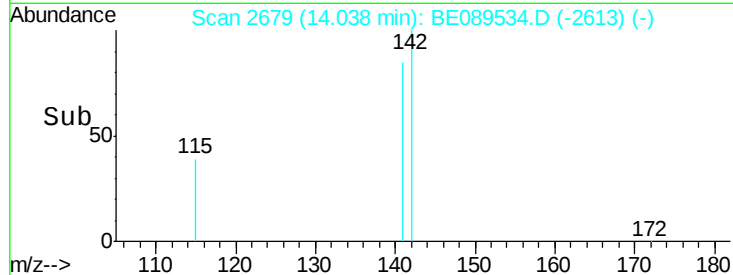
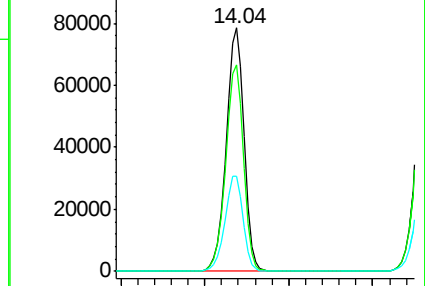
115 38.8 30.6 45.8



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: 16.51 min Scan# 3089

Delta R.T. 0.00 min

Lab File: BE089534.D

Acq: 6 Feb 2015 19:44

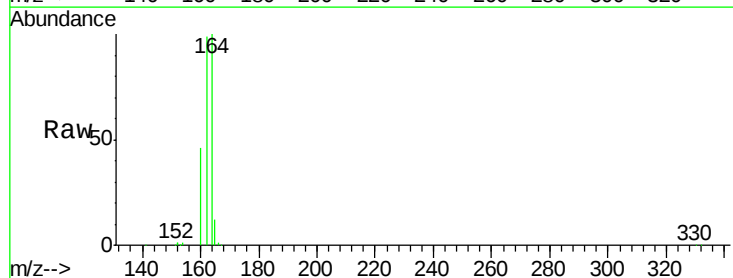
Tgt Ion:164 Resp: 55042

Ion Ratio Lower Upper

164 100

162 99.2 79.5 119.3

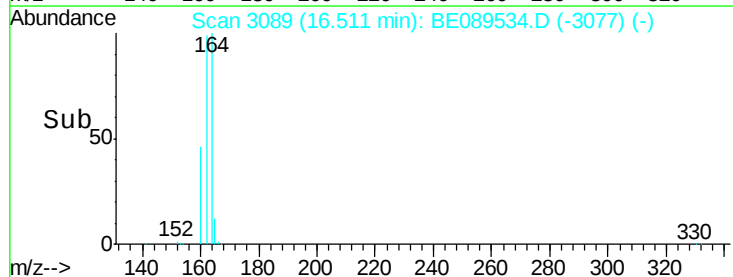
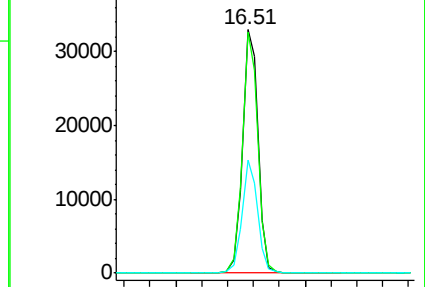
160 46.4 37.6 56.4



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: 8.47 ng

RT: 14.97 min Scan# 2883

Delta R.T. 0.00 min

Lab File: BE089534.D

Acq: 6 Feb 2015 19:44

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

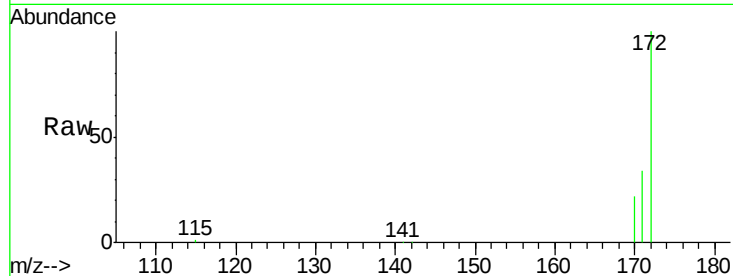
Tgt Ion:172 Resp: 124362

Ion Ratio Lower Upper

172 100

171 34.3 27.7 41.5

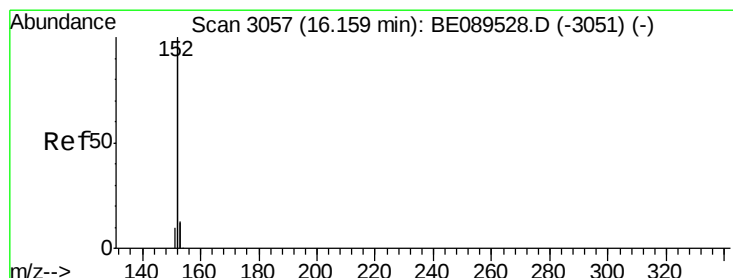
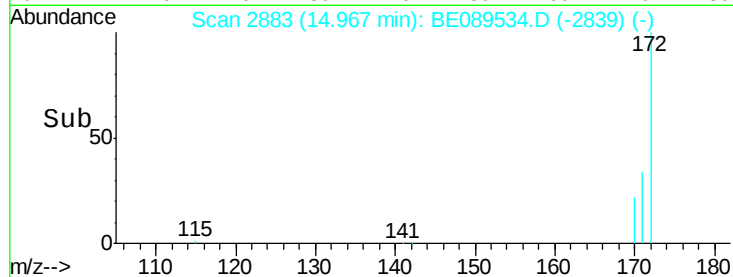
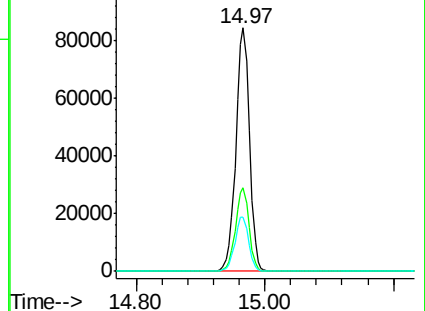
170 22.0 18.3 27.5



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: 7.61 ng

RT: 16.16 min Scan# 3057

Delta R.T. 0.00 min

Lab File: BE089534.D

Acq: 6 Feb 2015 19:44

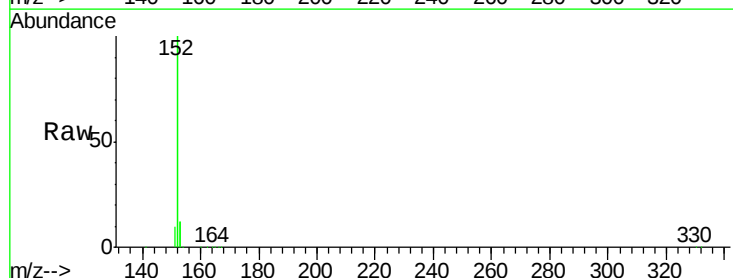
Tgt Ion:152 Resp: 704184

Ion Ratio Lower Upper

152 100

151 4.9 4.0 6.0

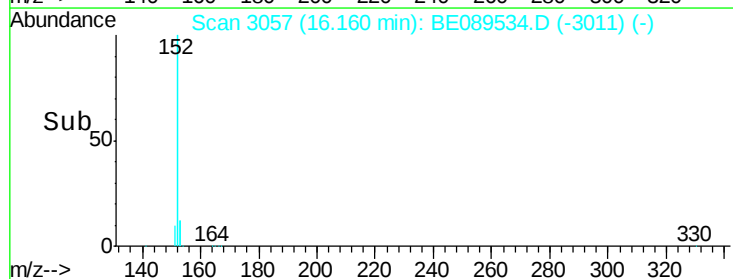
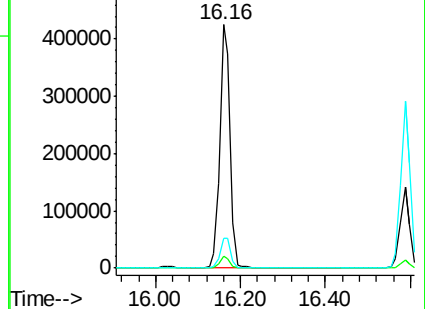
153 12.9 10.6 15.8

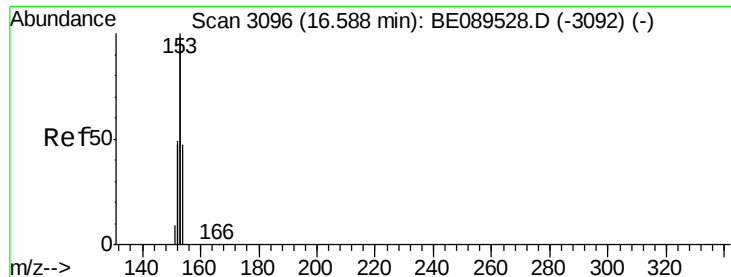


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 7.06 ng

RT: 16.59 min Scan# 3096

Delta R.T. 0.00 min

Lab File: BE089534.D

Acq: 6 Feb 2015 19:44

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

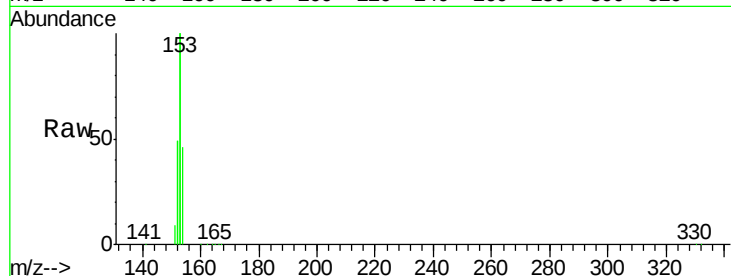
Tgt Ion:154 Resp: 103747

Ion Ratio Lower Upper

154 100

153 432.3 340.8 511.2

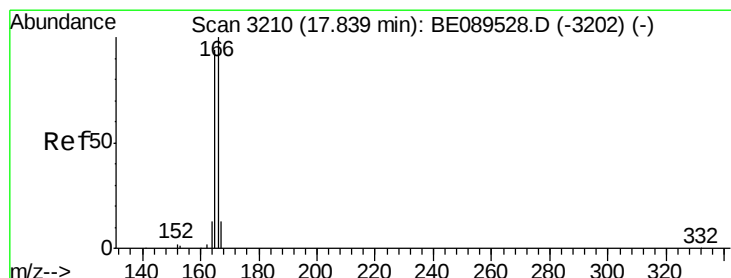
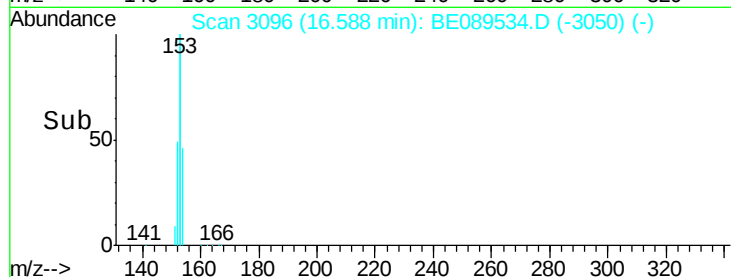
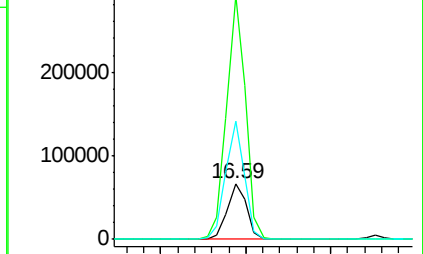
152 206.7 165.5 248.3



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: 7.82 ng

RT: 17.84 min Scan# 3210

Delta R.T. 0.00 min

Lab File: BE089534.D

Acq: 6 Feb 2015 19:44

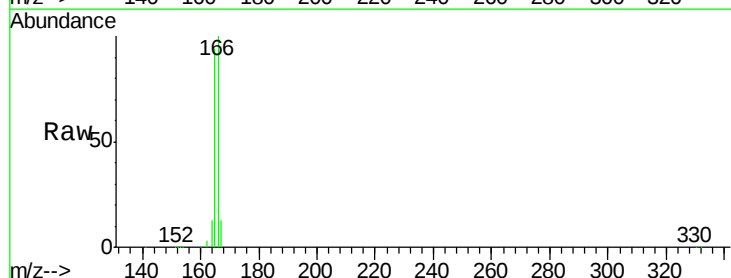
Tgt Ion:166 Resp: 122026

Ion Ratio Lower Upper

166 100

165 93.5 75.5 113.3

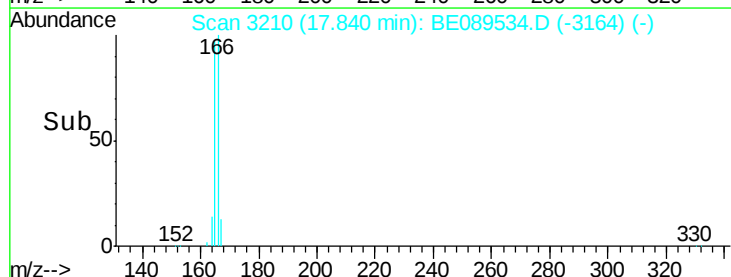
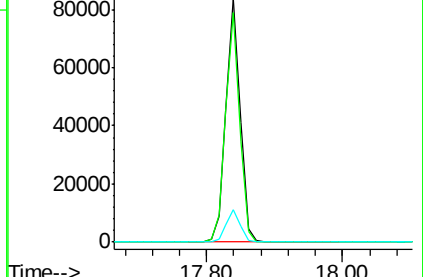
167 13.1 10.9 16.3

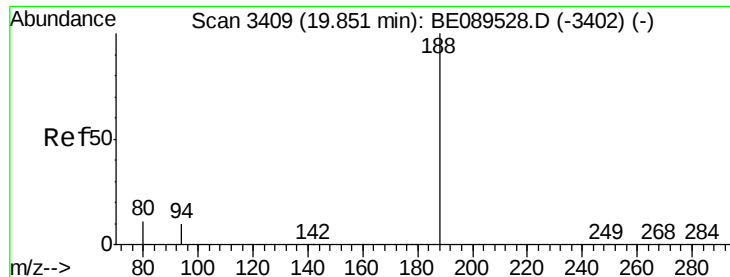


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

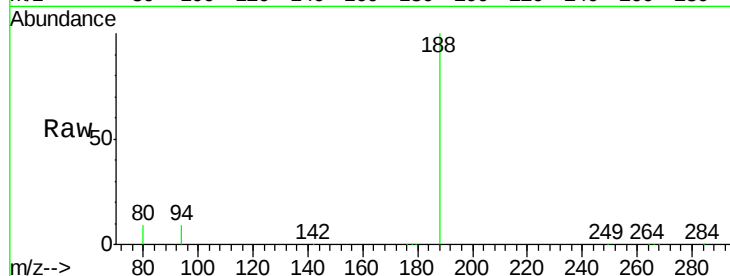




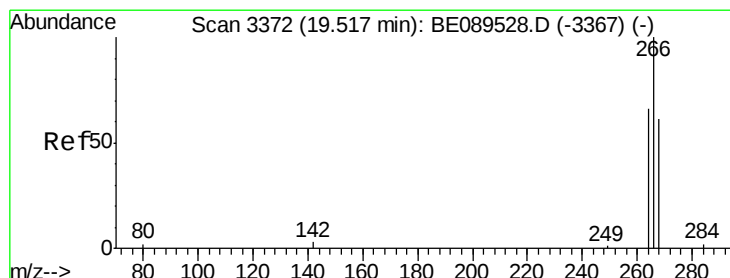
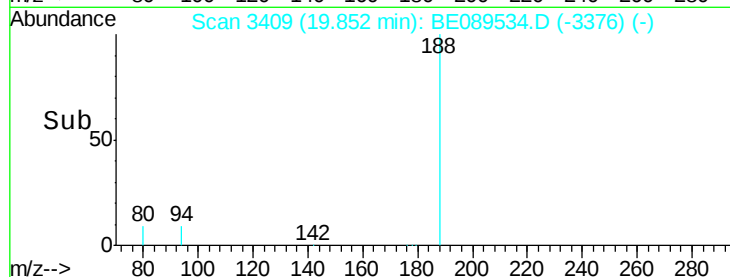
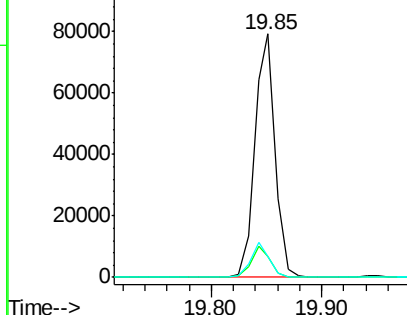
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.85 min Scan# 3409
Delta R.T. 0.00 min
Lab File: BE089534.D
Acq: 6 Feb 2015 19:44

Instrument :
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Tgt Ion:188 Resp: 101331
Ion Ratio Lower Upper
188 100
94 8.7 8.4 12.6
80 8.8 8.6 12.8

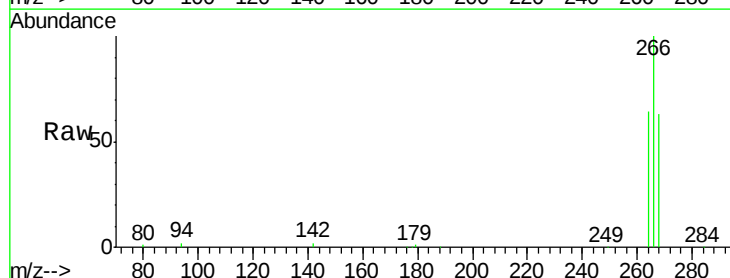


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

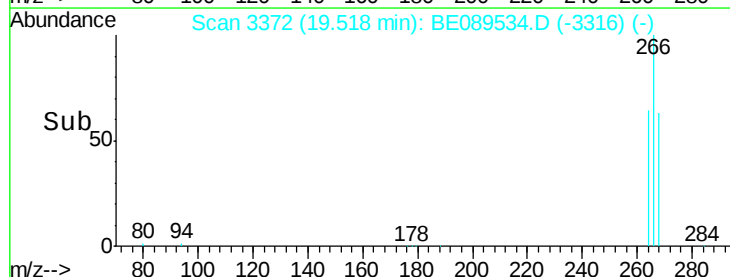
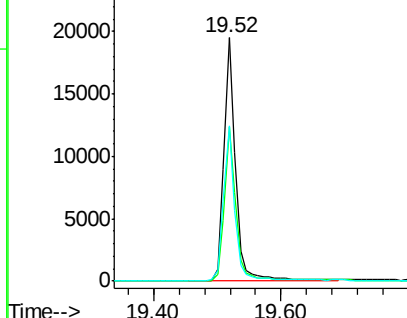


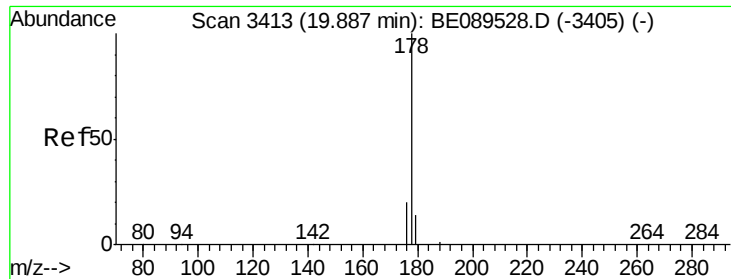
#12
Pentachlorophenol
Concen: 15.14 ng
RT: 19.52 min Scan# 3372
Delta R.T. 0.00 min
Lab File: BE089534.D
Acq: 6 Feb 2015 19:44

Tgt Ion:266 Resp: 24599
Ion Ratio Lower Upper
266 100
268 63.3 57.9 86.9
264 63.8 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

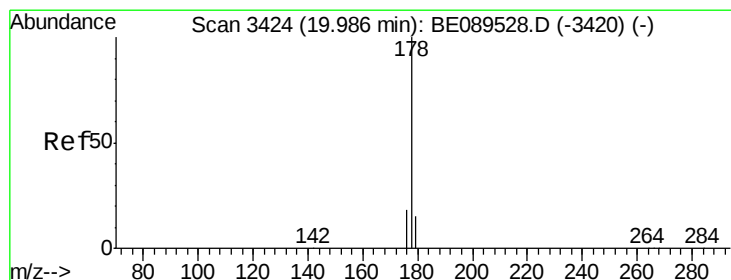
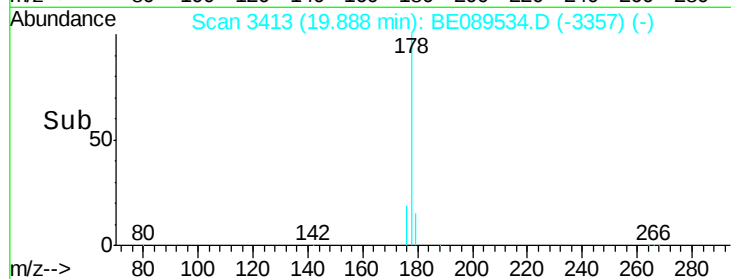
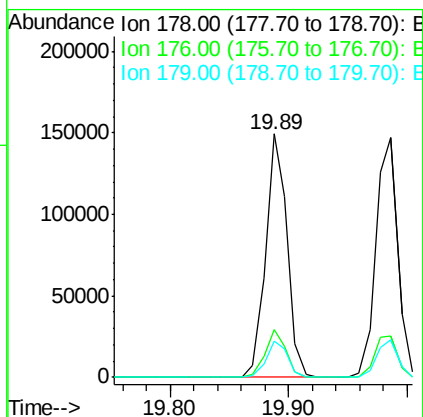
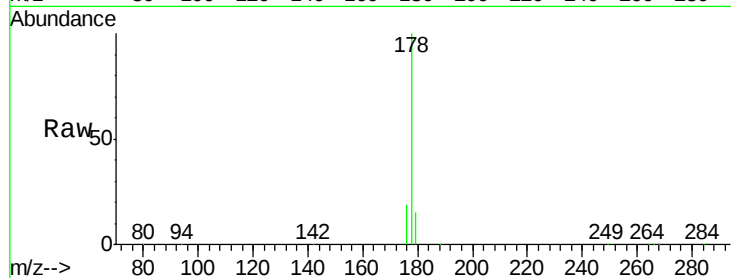




#13
Phenanthrene
Concen: 7.56 ng
RT: 19.89 min Scan# 3413
Delta R.T. 0.00 min
Lab File: BE089534.D
Acq: 6 Feb 2015 19:44

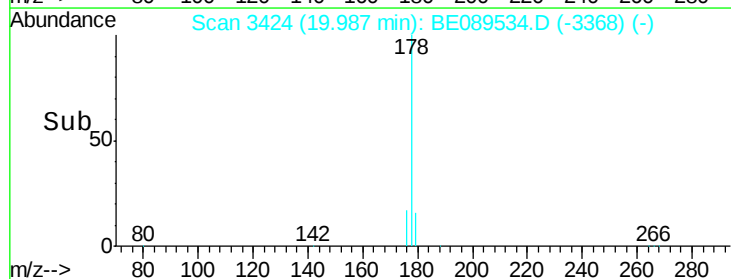
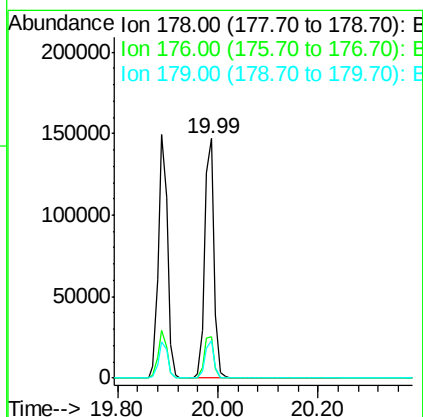
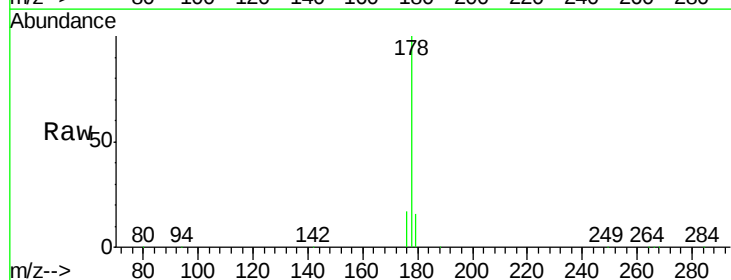
Instrument :
BNA_E
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PB81495BSD

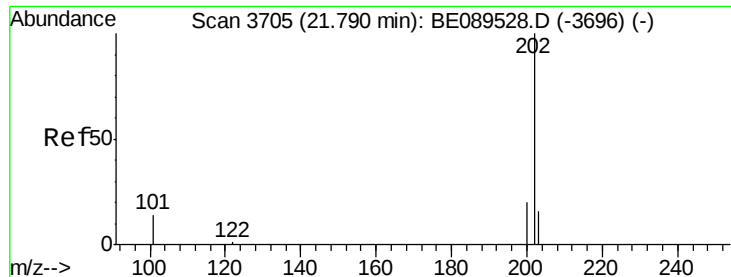
Tgt Ion:178 Resp: 189764
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.0
179 15.0 12.2 18.2



#14
Anthracene
Concen: 8.94 ng
RT: 19.99 min Scan# 3424
Delta R.T. 0.00 min
Lab File: BE089534.D
Acq: 6 Feb 2015 19:44

Tgt Ion:178 Resp: 189531
Ion Ratio Lower Upper
178 100
176 18.1 14.5 21.7
179 15.0 12.2 18.2

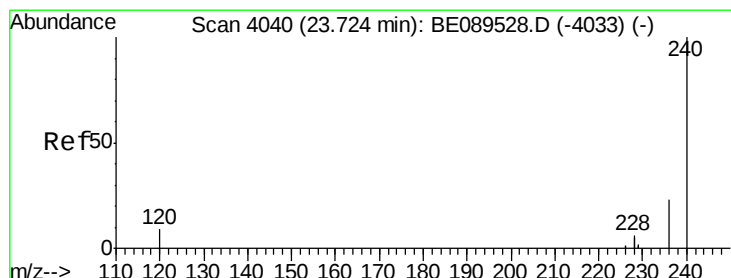
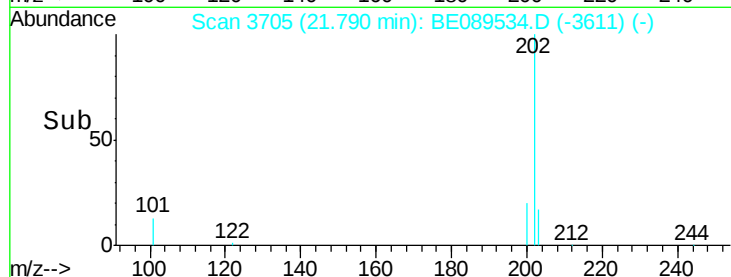
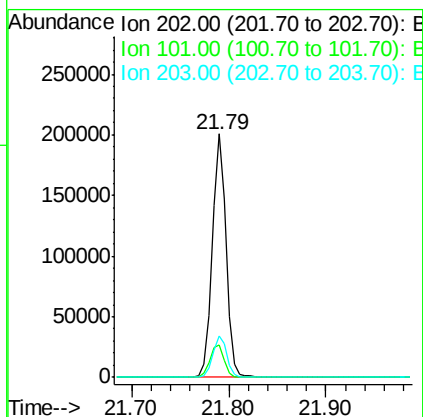
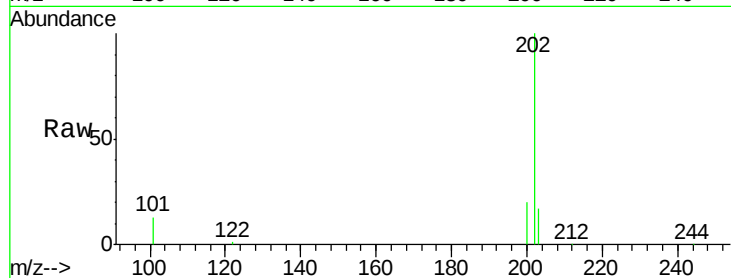




#15
 Fluoranthene
 Concen: 8.45 ng
 RT: 21.79 min Scan# 3705
 Delta R.T. 0.00 min
 Lab File: BE089534.D
 Acq: 6 Feb 2015 19:44

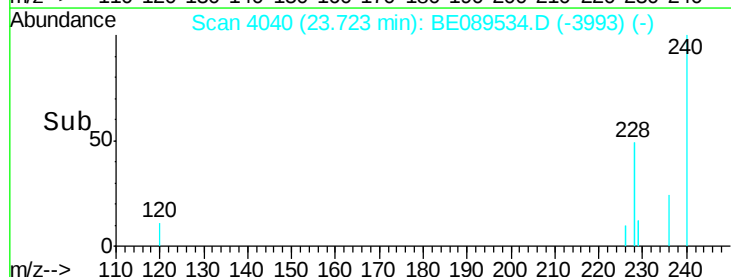
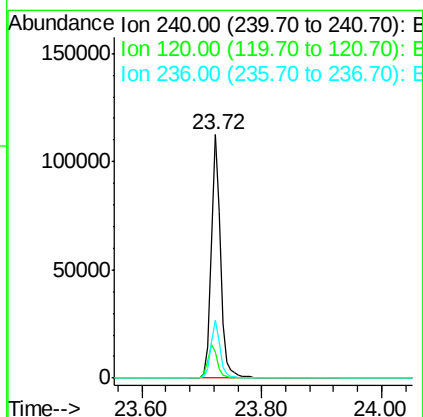
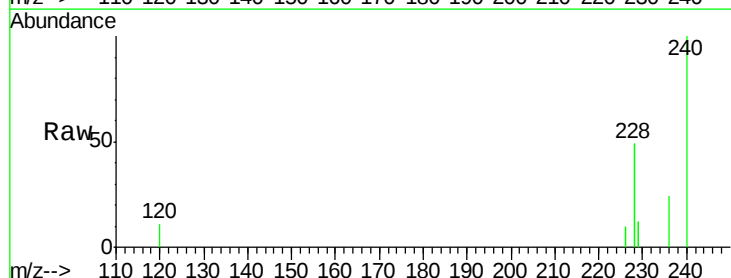
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BSD

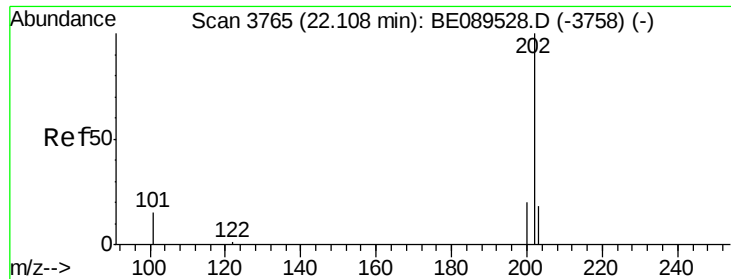
Tgt Ion:202 Resp: 197580
 Ion Ratio Lower Upper
 202 100
 101 13.9 11.6 17.4
 203 17.1 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4040
 Delta R.T. -0.00 min
 Lab File: BE089534.D
 Acq: 6 Feb 2015 19:44

Tgt Ion:240 Resp: 120220
 Ion Ratio Lower Upper
 240 100
 120 10.9 7.2 10.8#
 236 24.0 18.5 27.7

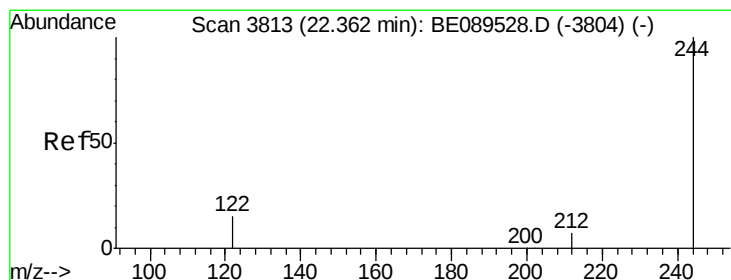
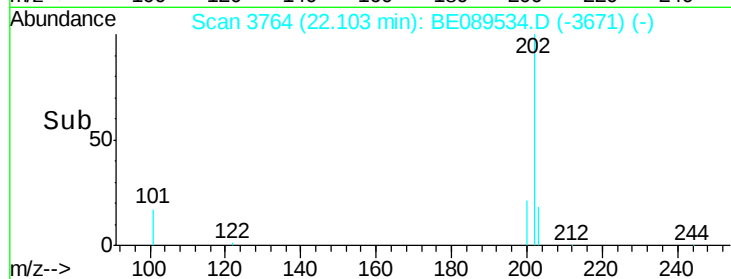
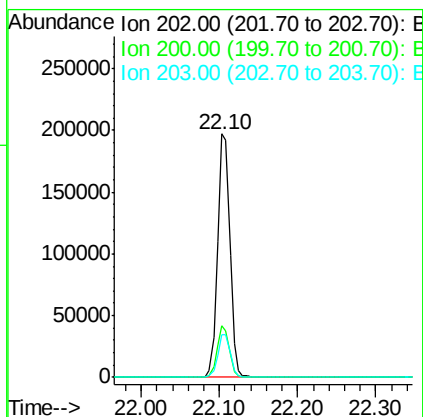
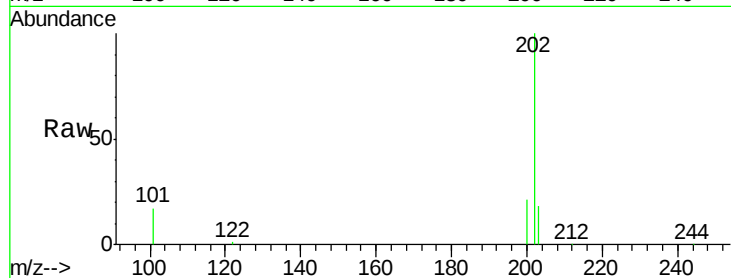




#17
 Pyrene
 Concen: 8.39 ng
 RT: 22.10 min Scan# 3764
 Delta R.T. -0.00 min
 Lab File: BE089534.D
 Acq: 6 Feb 2015 19:44

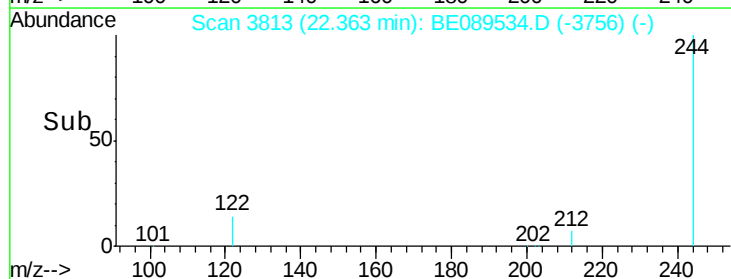
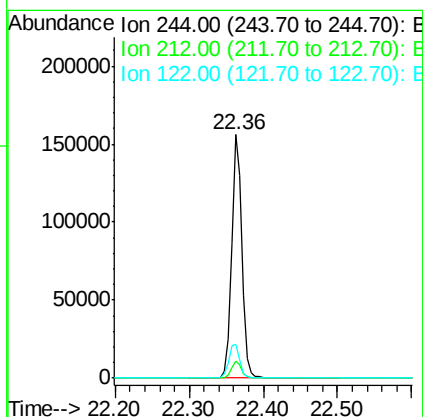
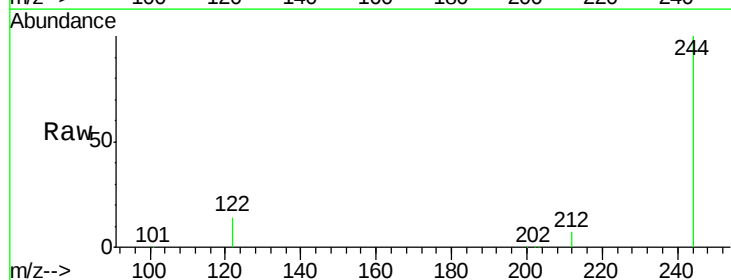
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BSD

Tgt Ion: 202 Resp: 214822
 Ion Ratio Lower Upper
 202 100
 200 20.6 16.3 24.5
 203 17.8 13.5 20.3



#18
 Terphenyl-d14
 Concen: 9.57 ng
 RT: 22.36 min Scan# 3813
 Delta R.T. 0.00 min
 Lab File: BE089534.D
 Acq: 6 Feb 2015 19:44

Tgt Ion: 244 Resp: 151722
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.8 8.8
 122 13.9 12.6 19.0





#19

Benzo(a)anthracene

Concen: 7.89 ng

RT: 23.71 min Scan# 4038

Delta R.T. -0.00 min

Lab File: BE089534.D

Acq: 6 Feb 2015 19:44

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

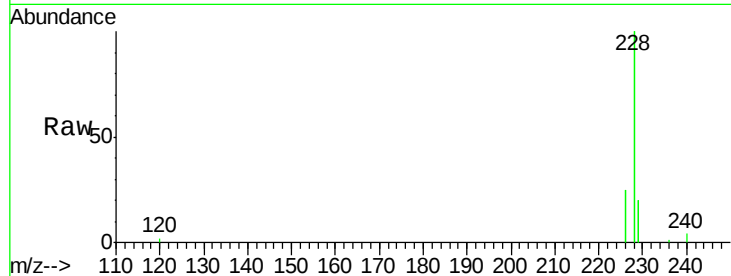
Tgt Ion:228 Resp: 843684

Ion Ratio Lower Upper

228 100

226 25.1 19.0 28.4

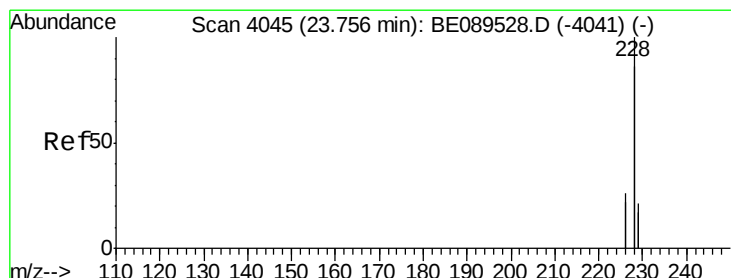
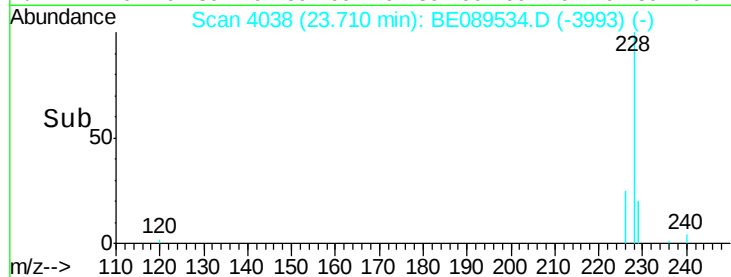
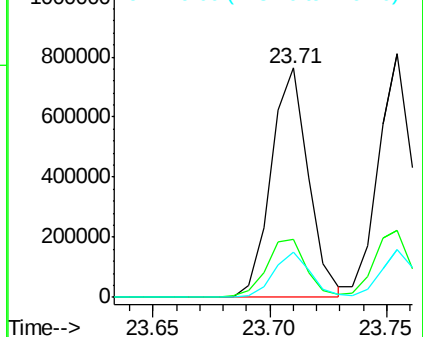
229 19.9 16.8 25.2



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: 8.01 ng

RT: 23.75 min Scan# 4045

Delta R.T. -0.00 min

Lab File: BE089534.D

Acq: 6 Feb 2015 19:44

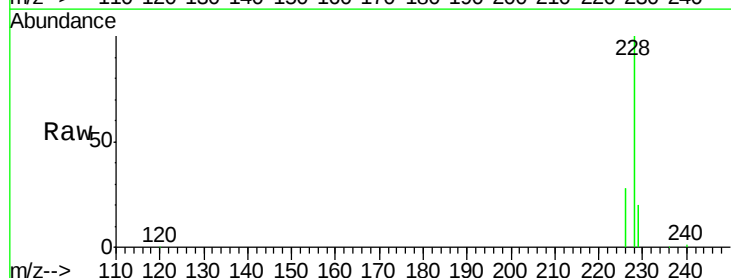
Tgt Ion:228 Resp: 869924

Ion Ratio Lower Upper

228 100

226 27.7 21.0 31.4

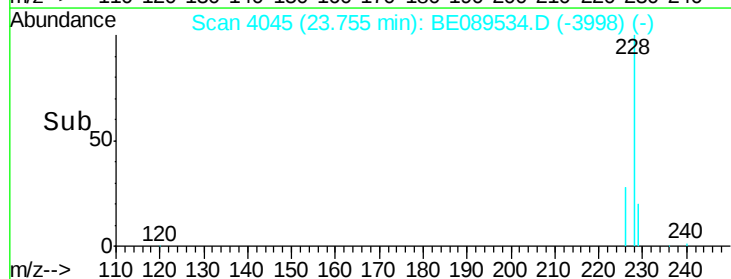
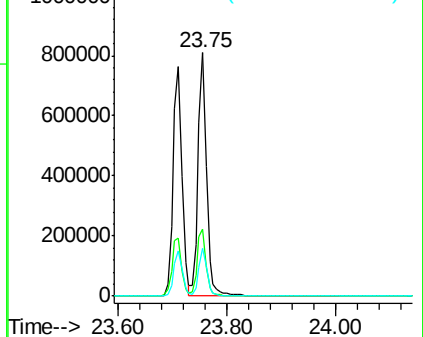
229 19.7 16.7 25.1

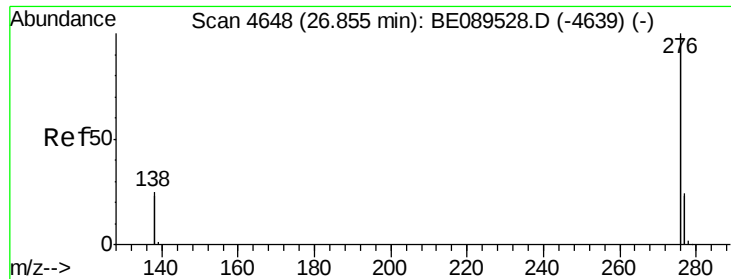


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

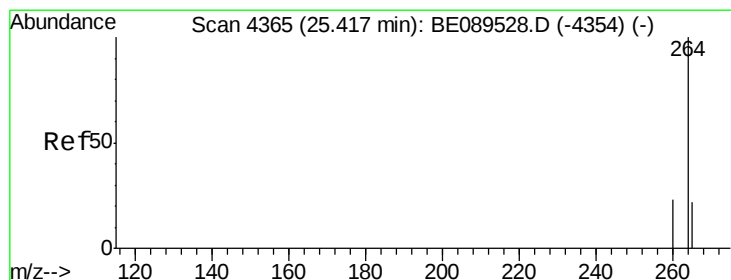
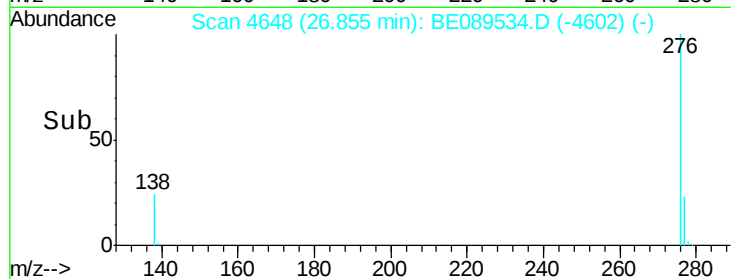
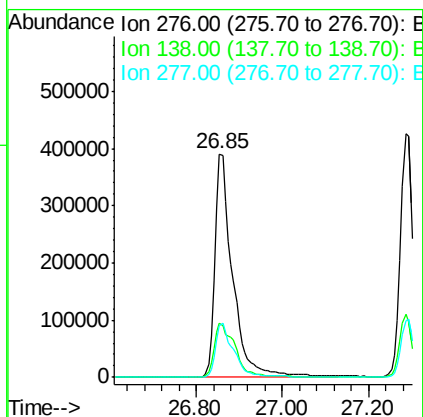
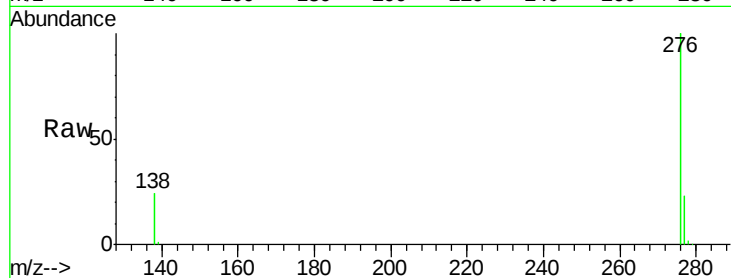




#21
Indeno(1,2,3-cd)pyrene
Concen: 7.38 ng
RT: 26.85 min Scan# 4648
Delta R.T. 0.00 min
Lab File: BE089534.D
Acq: 6 Feb 2015 19:44

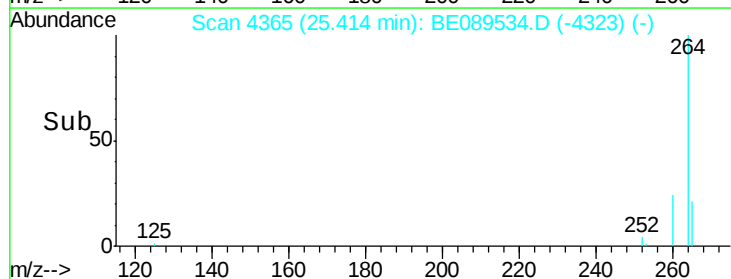
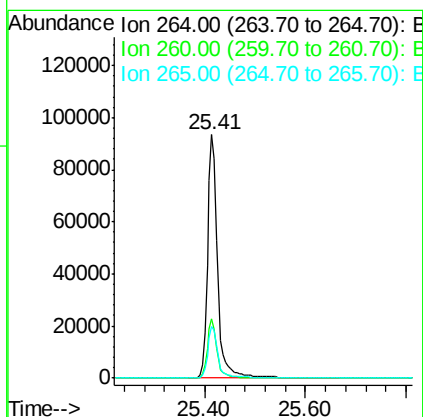
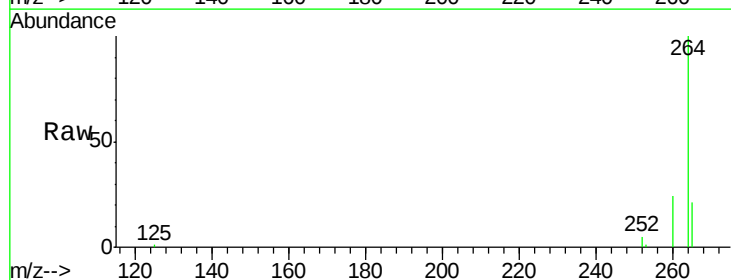
Instrument :
BNA_E
ClientSampleId :
PB81495BSD

Tgt Ion:276 Resp: 1114415
Ion Ratio Lower Upper
276 100
138 29.0 23.0 34.4
277 25.3 19.9 29.9



#22
Perylene-d12
Concen: 5.00 ng
RT: 25.41 min Scan# 4365
Delta R.T. -0.00 min
Lab File: BE089534.D
Acq: 6 Feb 2015 19:44

Tgt Ion:264 Resp: 126153
Ion Ratio Lower Upper
264 100
260 24.2 18.7 28.1
265 21.4 17.5 26.3

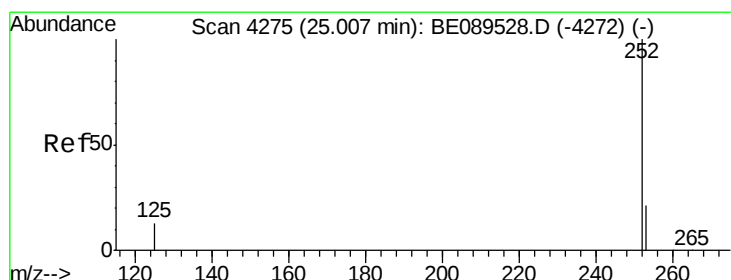
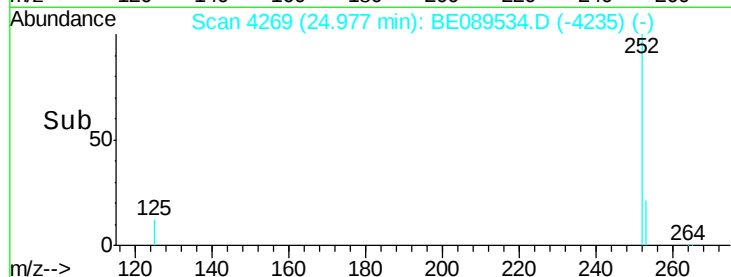
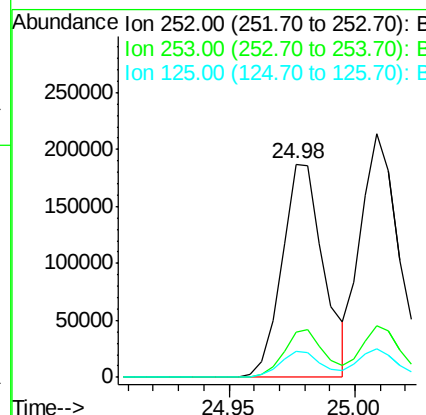
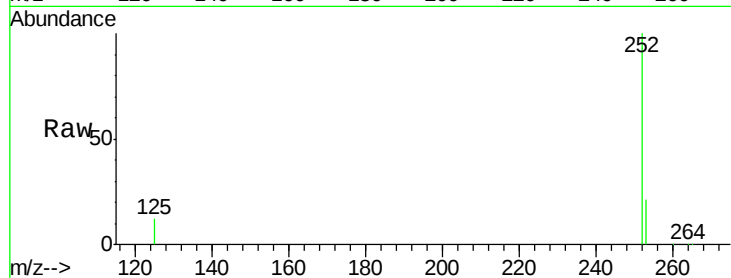




#23
Benzo(b)fluoranthene
Concen: 8.75 ng
RT: 24.98 min Scan# 4269
Delta R.T. -0.00 min
Lab File: BE089534.D
Acq: 6 Feb 2015 19:44

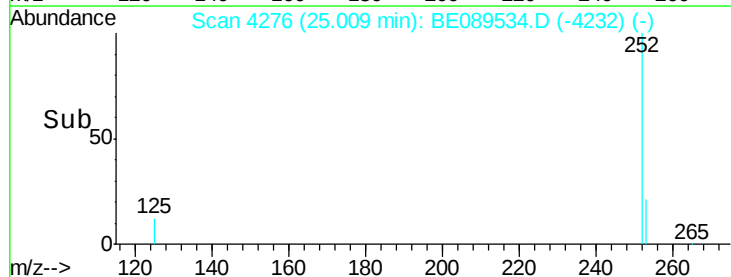
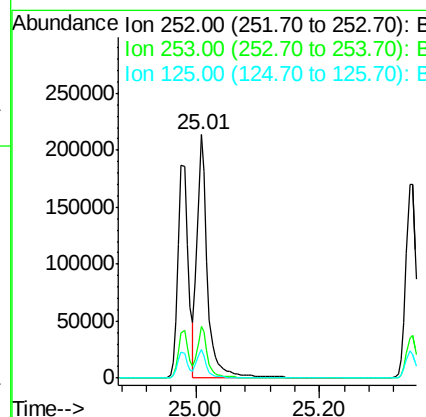
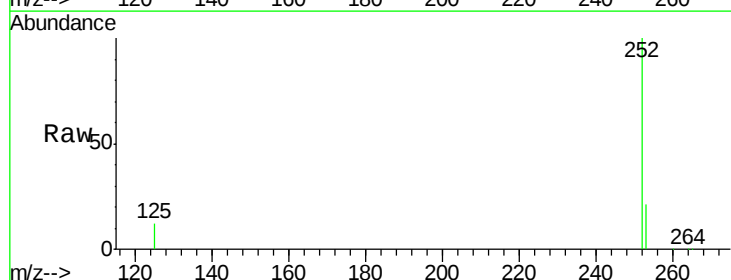
Instrument :
BNA_E
ClientSampleId :
PB81495BSD

Tgt Ion: 252 Resp: 214415
Ion Ratio Lower Upper
252 100
253 20.9 17.4 26.0
125 12.4 10.4 15.6



#24
Benzo(k)fluoranthene
Concen: 8.25 ng
RT: 25.01 min Scan# 4276
Delta R.T. 0.00 min
Lab File: BE089534.D
Acq: 6 Feb 2015 19:44

Tgt Ion: 252 Resp: 251257
Ion Ratio Lower Upper
252 100
253 21.4 17.2 25.8
125 11.8 10.6 15.8





#25

Benzo(a)pyrene

Concen: 9.29 ng

RT: 25.35 min Scan# 4350

Delta R.T. -0.00 min

Lab File: BE089534.D

Acq: 6 Feb 2015 19:44

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

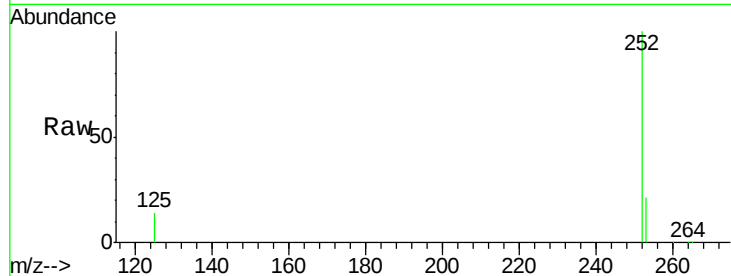
Tgt Ion:252 Resp: 226254

Ion Ratio Lower Upper

252 100

253 21.0 17.8 26.6

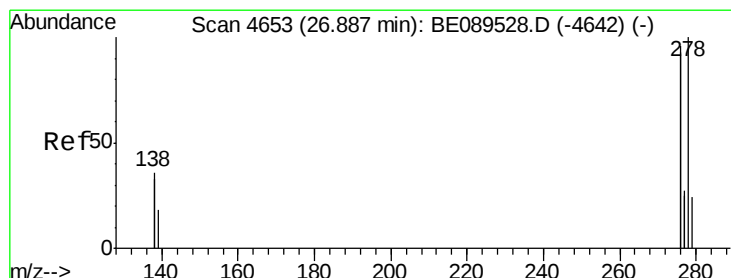
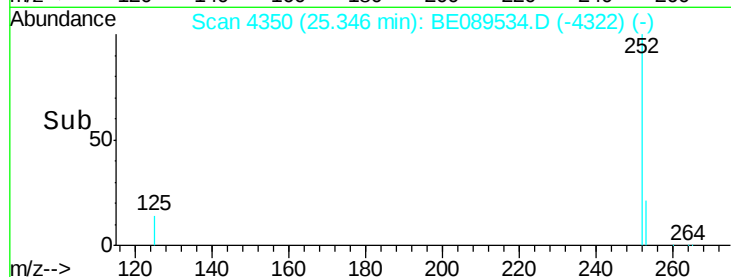
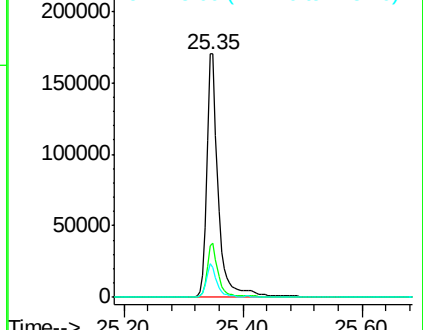
125 13.8 11.4 17.2



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: 8.30 ng

RT: 26.89 min Scan# 4653

Delta R.T. 0.00 min

Lab File: BE089534.D

Acq: 6 Feb 2015 19:44

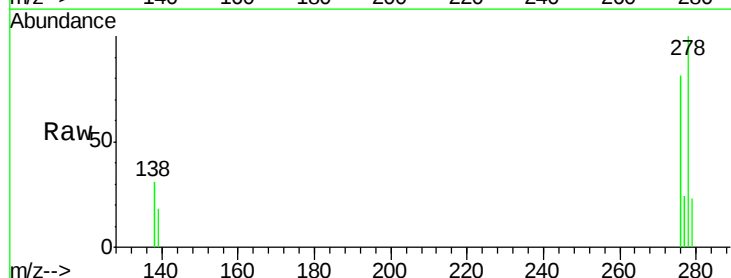
Tgt Ion:278 Resp: 248310

Ion Ratio Lower Upper

278 100

139 18.0 15.7 23.5

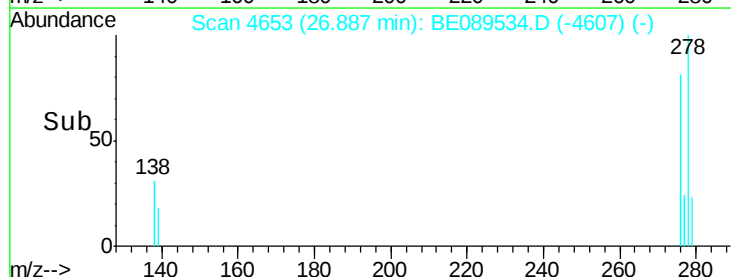
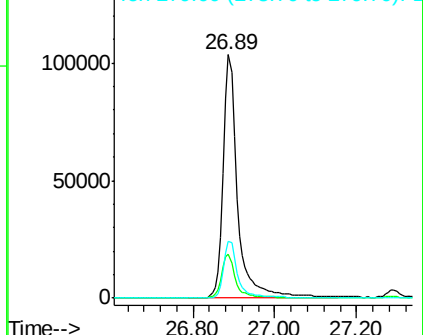
279 23.5 19.5 29.3



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: 7.86 ng
 RT: 27.29 min Scan# 4714
 Delta R.T. 0.00 min
 Lab File: BE089534.D
 Acq: 6 Feb 2015 19:44

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BSD

Tgt Ion: 276 Resp: 959168
 Ion Ratio Lower Upper
 276 100
 277 23.2 18.6 27.8
 138 25.9 20.9 31.3

