

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020515\
 Data File : BE089511.D
 Acq On : 5 Feb 2015 20:13
 Operator : TP/IZ
 Sample : PB81495BL
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BL

Quant Time: Feb 06 04:04:13 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE020515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 06 03:21:38 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.49	152	22403	5.00	ng	0.00
2) Naphthalene-d8	12.40	136	97778	5.00	ng	0.00
6) Acenaphthene-d10	16.58	164	46190	5.00	ng	0.00
11) Phenanthrene-d10	19.91	188	89514	5.00	ng	0.00
16) Chrysene-d12	23.76	240	97703	5.00	ng	0.00
22) Perylene-d12	25.46	264	92804	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.76	82	55016	7.38	ng	0.00
7) 2-Fluorobiphenyl	15.03	172	96129	6.61	ng	0.00
18) Terphenyl-d14	22.41	244	120541	7.09	ng	0.00

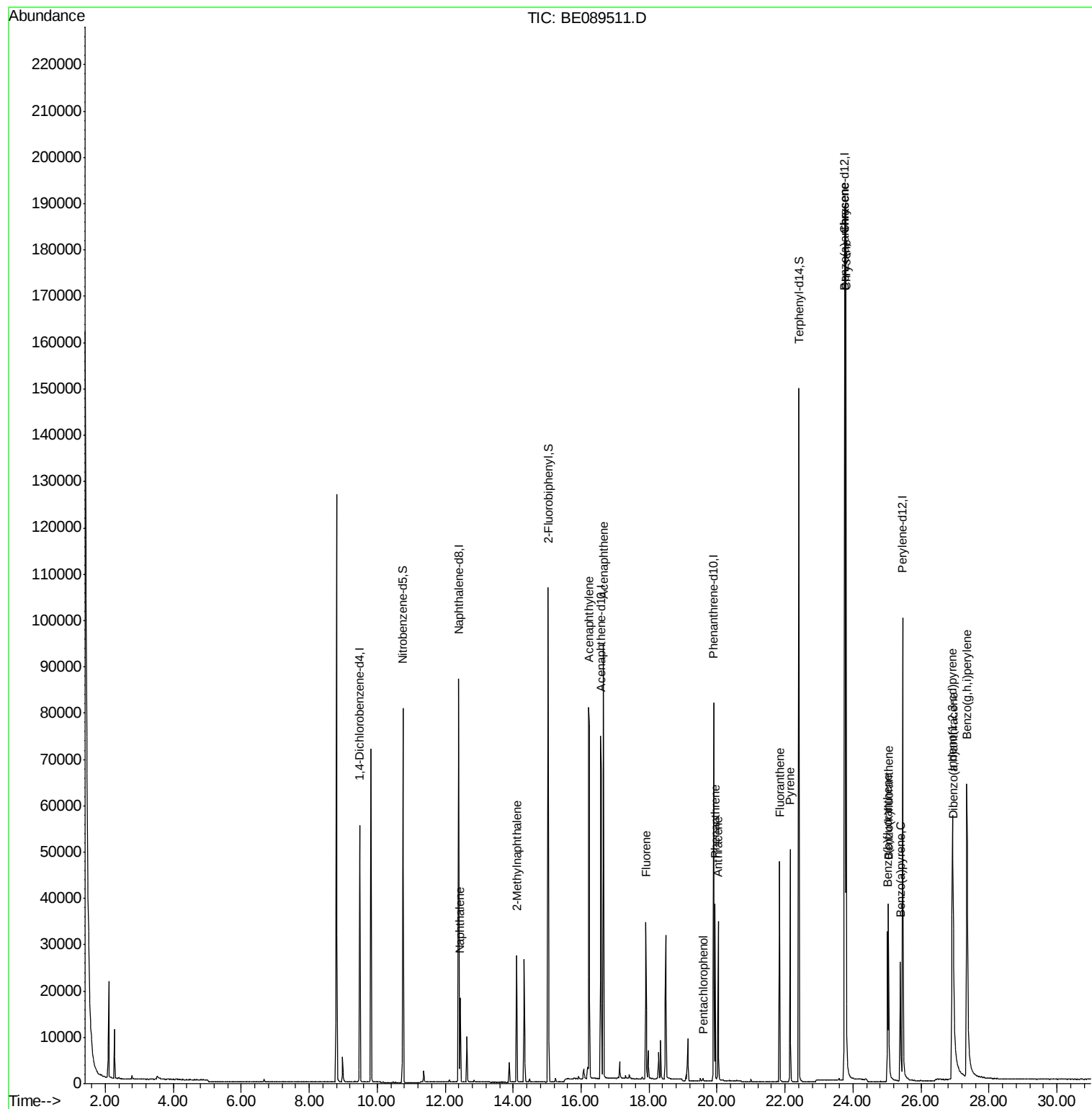
Target Compounds				Qvalue		
4) Naphthalene	12.44	128	19454	0.79	ng	99
5) 2-Methylnaphthalene	14.10	142	16587	1.03	ng	96
8) Acenaphthylene	16.23	152	112618	1.14	ng	100
9) Acenaphthene	16.65	154	17814	1.17	ng	99
10) Fluorene	17.91	166	21233	1.12	ng	100
12) Pentachlorophenol	19.58	266	340	0.01	ng	99
13) Phenanthrene	19.94	178	33827	1.24	ng	100
14) Anthracene	20.03	178	31835	1.15	ng	100
15) Fluoranthene	21.83	202	32689	1.11	ng	99
17) Pyrene	22.15	202	35629	1.28	ng	100
19) Benzo(a)anthracene	23.75	228	133981	1.13	ng	99
20) Chrysene	23.79	228	145403	1.22	ng	99
21) Indeno(1,2,3-cd)pyrene	26.92	276	133340	0.98	ng	97
23) Benzo(b)fluoranthene	25.02	252	27860	1.09	ng	99
24) Benzo(k)fluoranthene	25.04	252	39447	1.33	ng	99
25) Benzo(a)pyrene	25.39	252	28239	1.11	ng	99
26) Dibenzo(a,h)anthracene	26.95	278	29436	1.07	ng	96
27) Benzo(g,h,i)perylene	27.35	276	117173	1.09	ng	99

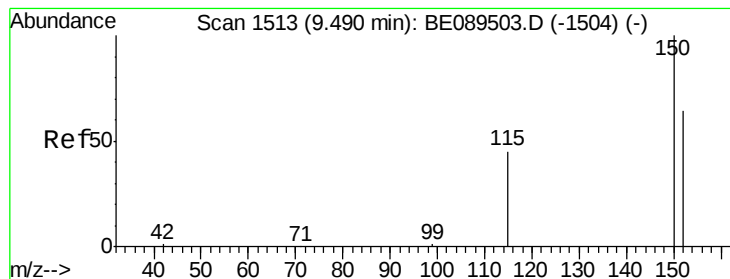
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.49 min Scan# 1513

Delta R.T. -0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

PB81495BL

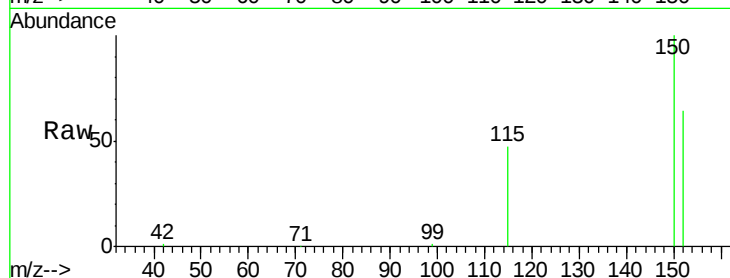
Tgt Ion:152 Resp: 22403

Ion Ratio Lower Upper

152 100

150 156.2 125.0 187.6

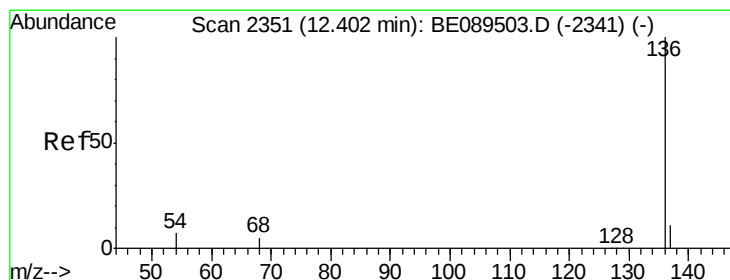
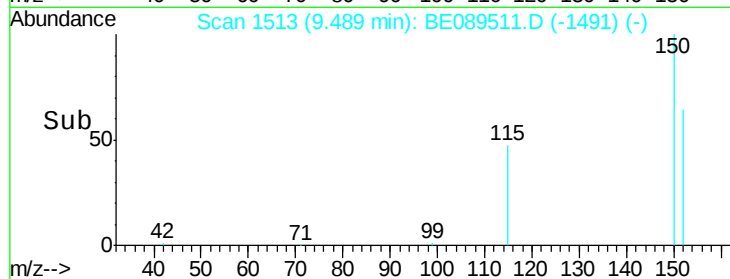
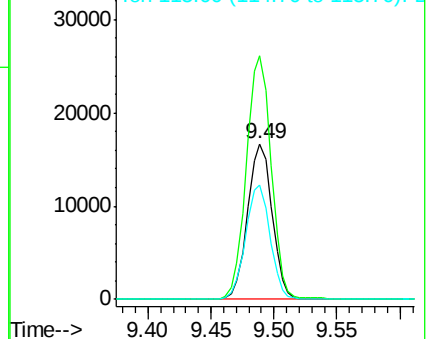
115 73.2 56.6 85.0



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: 12.40 min Scan# 2351

Delta R.T. -0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

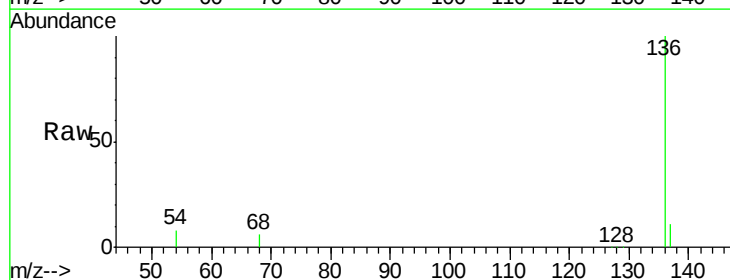
Tgt Ion:136 Resp: 97778

Ion Ratio Lower Upper

136 100

137 10.6 8.6 12.8

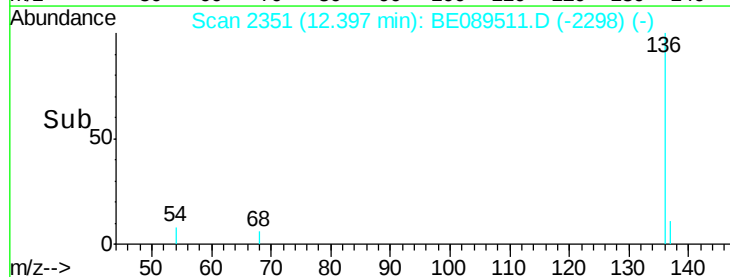
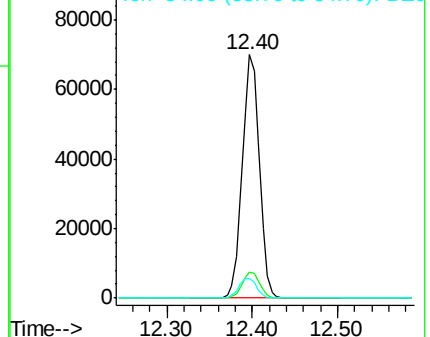
54 8.3 6.0 9.0

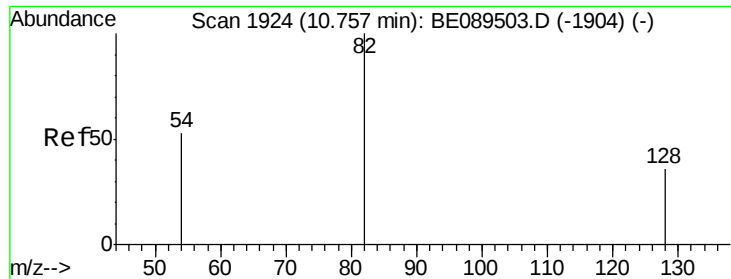


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 7.38 ng

RT: 10.76 min Scan# 1924

Delta R.T. -0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

Instrument :

BNA_E

ClientSampled :

PB81495BL

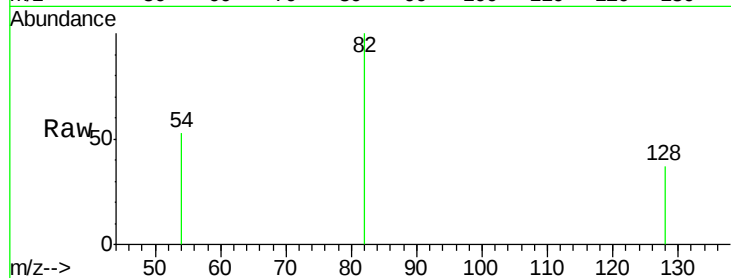
Tgt Ion: 82 Resp: 55016

Ion Ratio Lower Upper

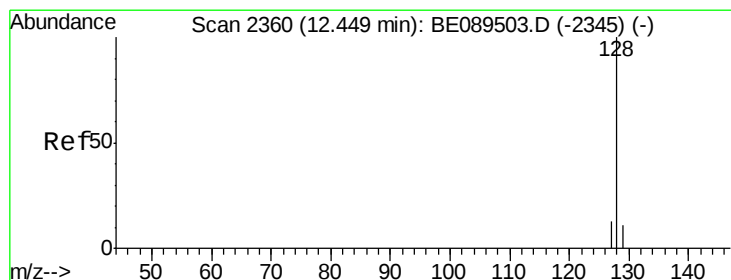
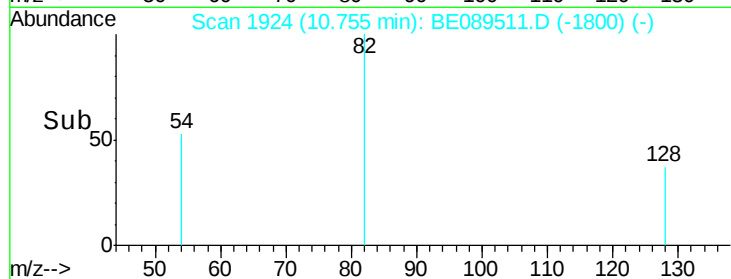
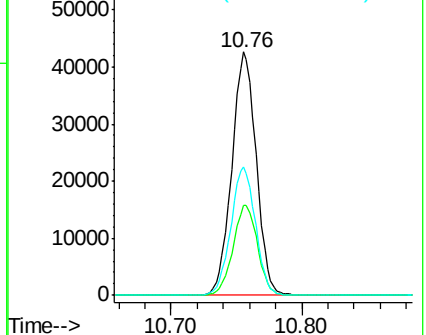
82 100

128 37.0 29.3 43.9

54 52.9 42.6 64.0



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 0.79 ng

RT: 12.44 min Scan# 2360

Delta R.T. -0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

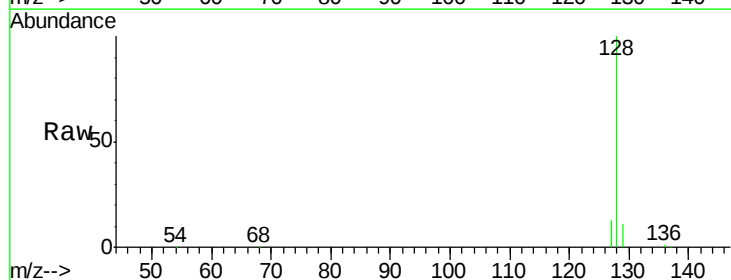
Tgt Ion: 128 Resp: 19454

Ion Ratio Lower Upper

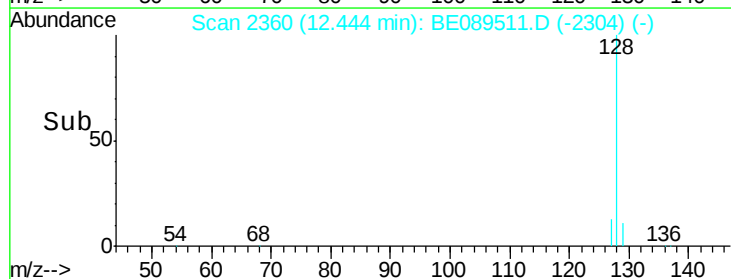
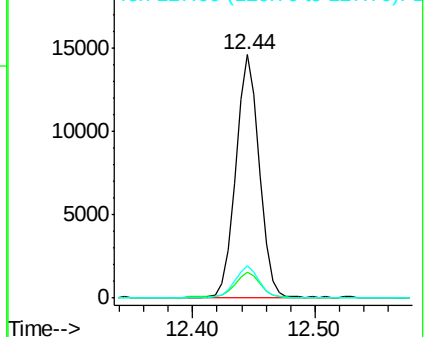
128 100

129 10.9 8.8 13.2

127 13.4 10.3 15.5



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





#5

2-Methylnaphthalene

Concen: 1.03 ng

RT: 14.10 min Scan# 2694

Delta R.T. -0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

PB81495BL

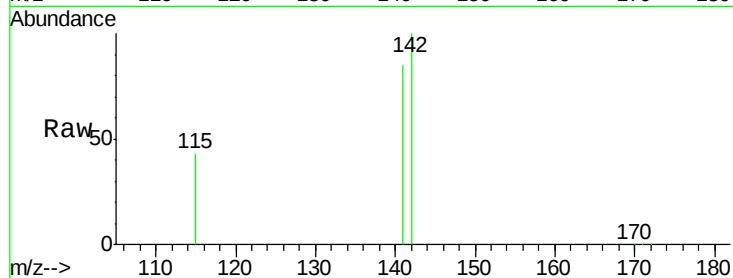
Tgt Ion:142 Resp: 16587

Ion Ratio Lower Upper

142 100

141 85.5 66.3 99.5

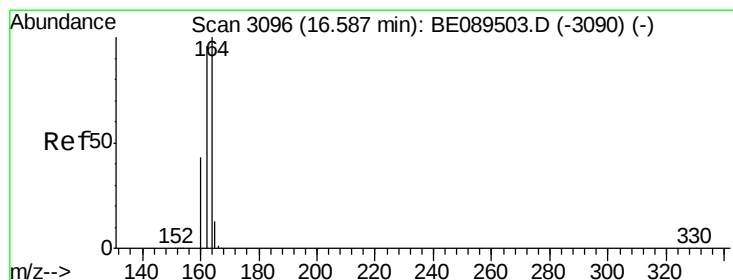
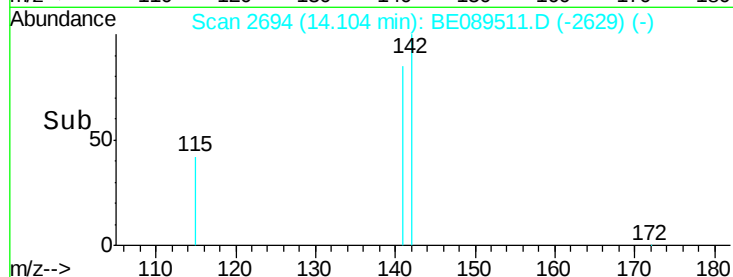
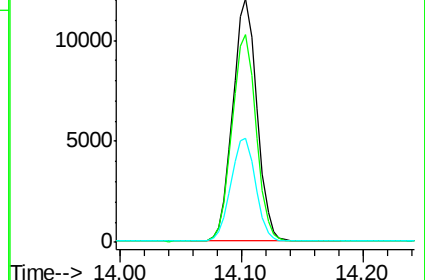
115 42.8 31.1 46.7



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: 16.58 min Scan# 3096

Delta R.T. -0.01 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

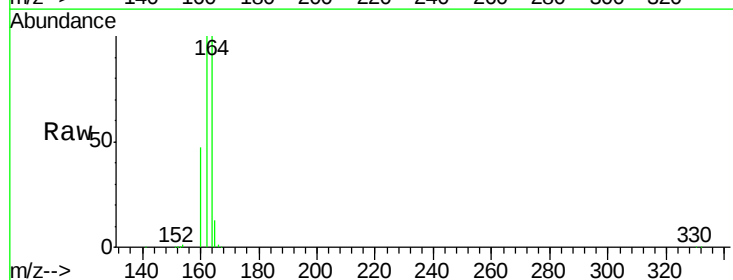
Tgt Ion:164 Resp: 46190

Ion Ratio Lower Upper

164 100

162 100.5 76.6 115.0

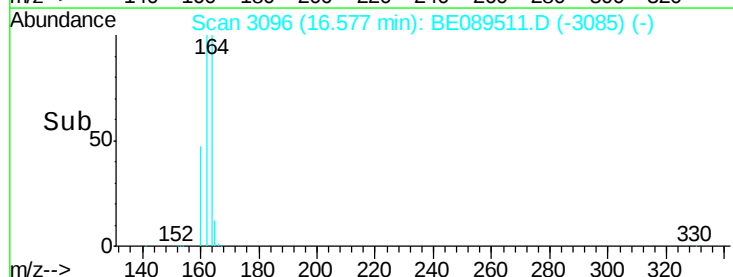
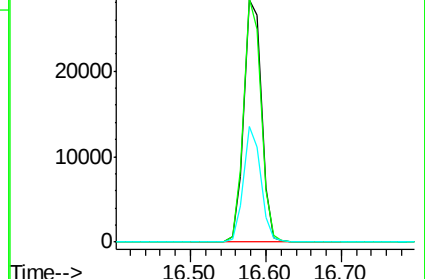
160 47.5 34.6 52.0



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: 6.61 ng

RT: 15.03 min Scan# 2898

Delta R.T. 0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

PB81495BL

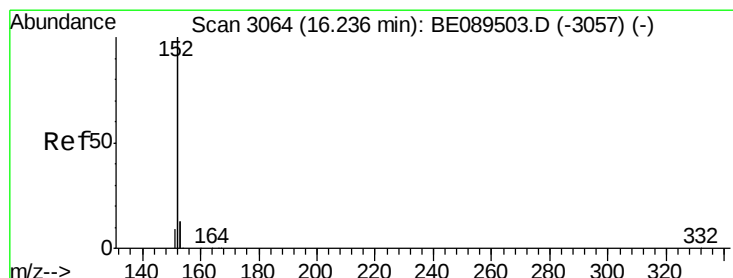
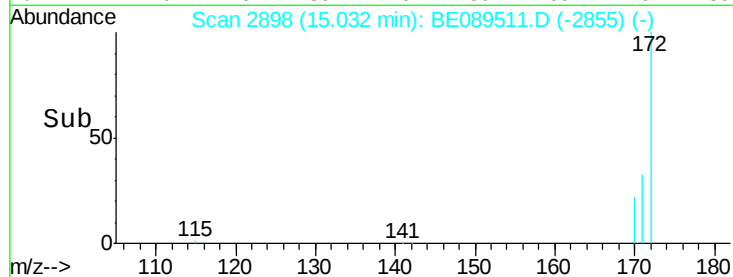
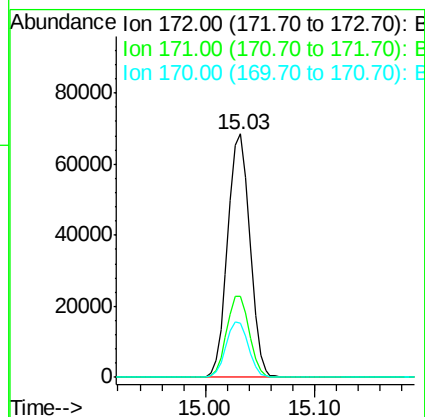
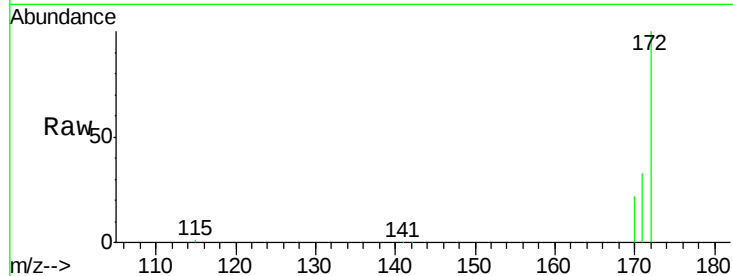
Tgt Ion:172 Resp: 96129

Ion Ratio Lower Upper

172 100

171 33.4 27.4 41.0

170 22.0 18.4 27.6



#8

Acenaphthylene

Concen: 1.14 ng

RT: 16.23 min Scan# 3064

Delta R.T. -0.01 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

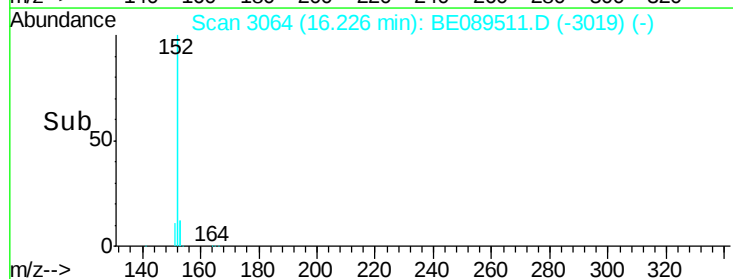
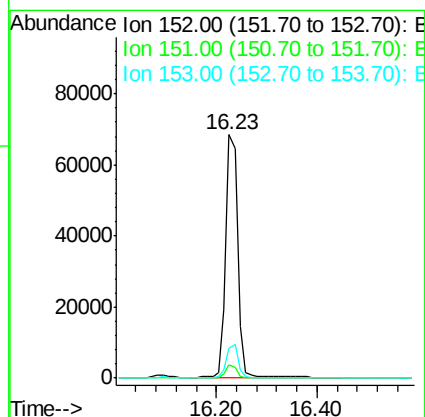
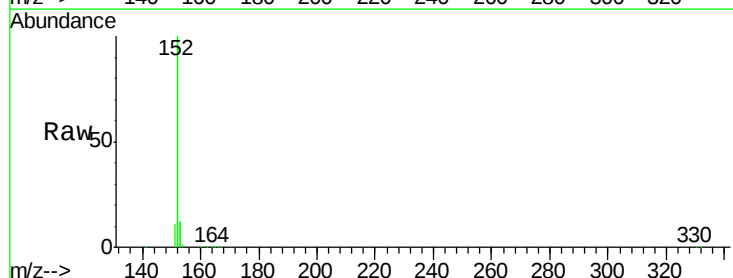
Tgt Ion:152 Resp: 112618

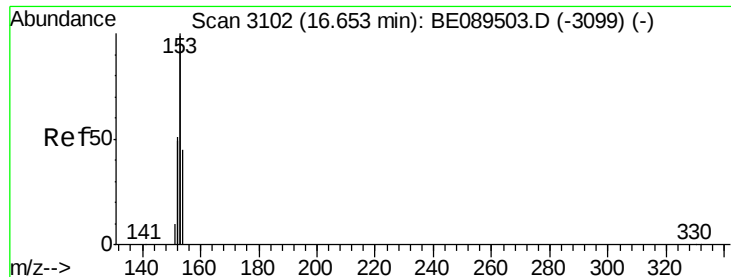
Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

153 12.9 10.4 15.6





#9

Acenaphthene

Concen: 1.17 ng

RT: 16.65 min Scan# 3103

Delta R.T. 0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

PB81495BL

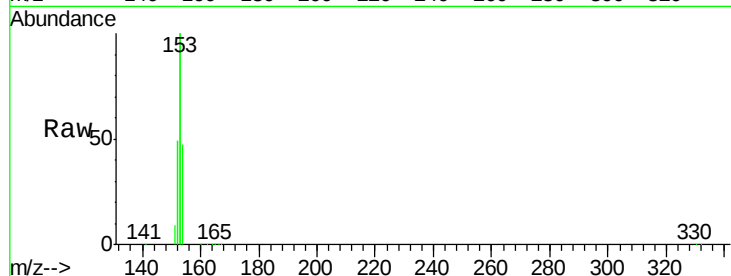
Tgt Ion:154 Resp: 17814

Ion Ratio Lower Upper

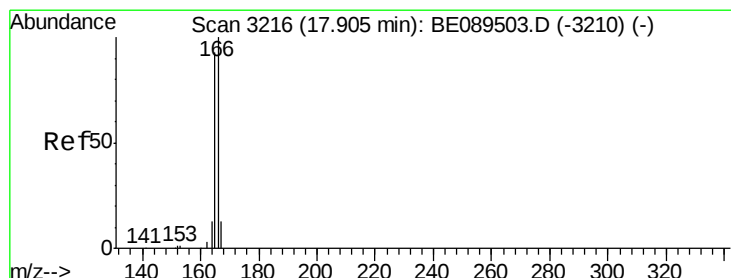
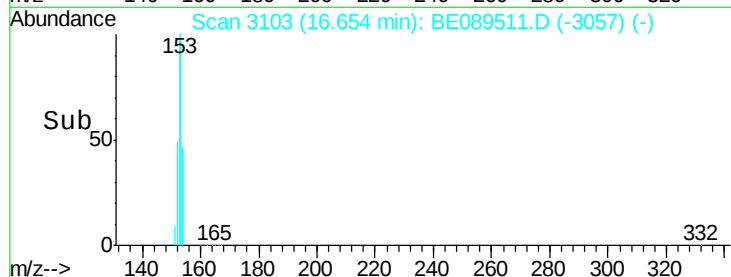
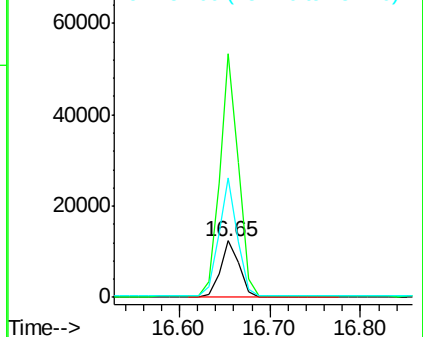
154 100

153 425.9 341.5 512.3

152 206.6 166.6 249.8



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: 1.12 ng

RT: 17.91 min Scan# 3217

Delta R.T. 0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

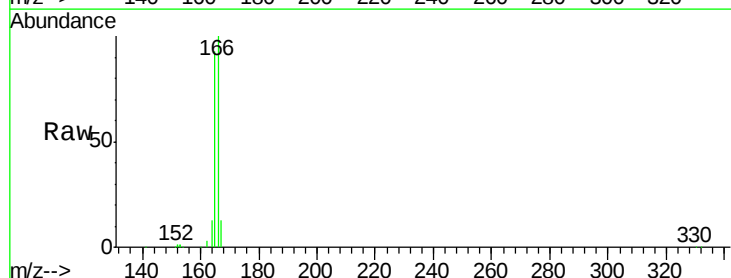
Tgt Ion:166 Resp: 21233

Ion Ratio Lower Upper

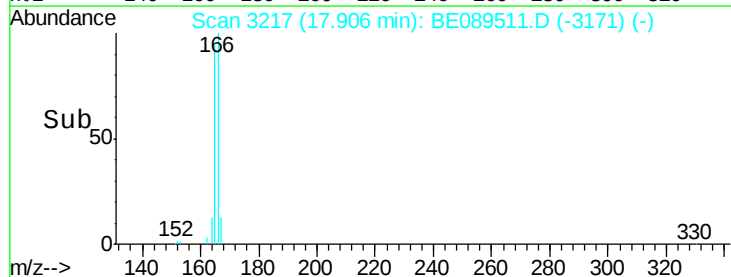
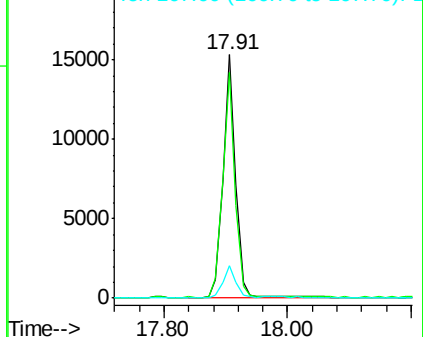
166 100

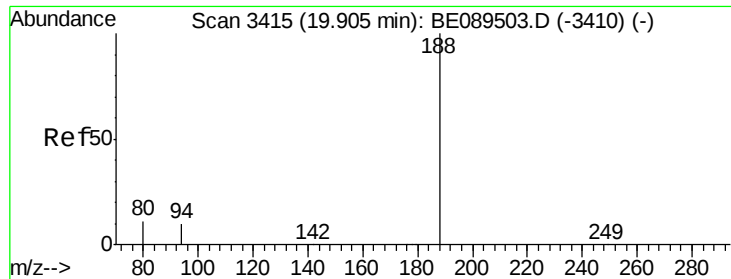
165 92.2 73.6 110.4

167 12.7 10.6 15.8



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

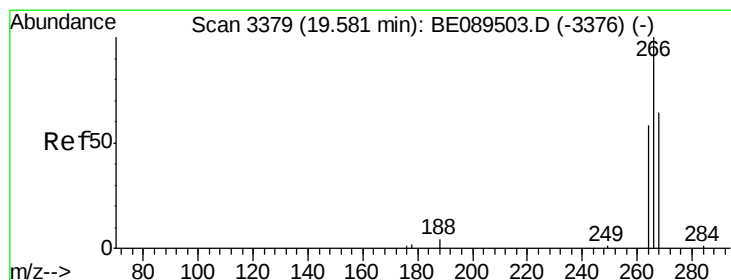
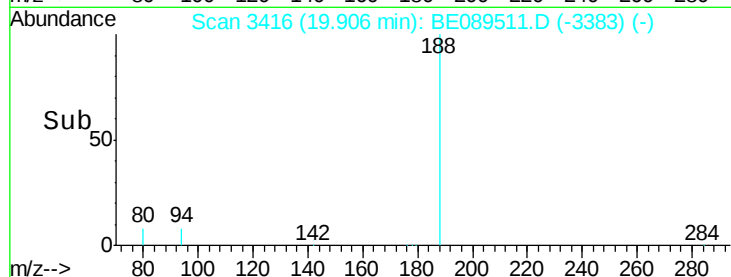
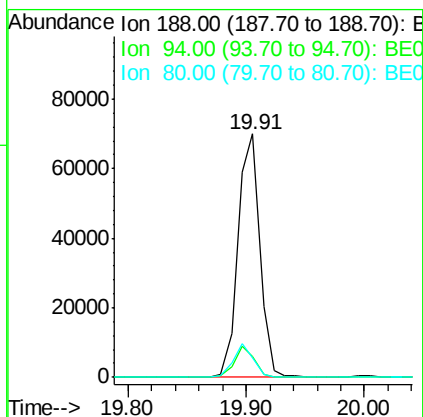
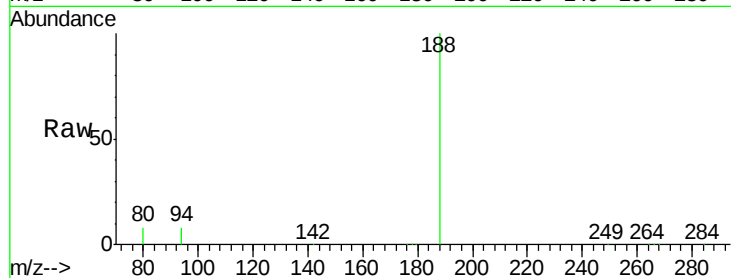




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.91 min Scan# 3416
Delta R.T. 0.00 min
Lab File: BE089511.D
Acq: 5 Feb 2015 20:13

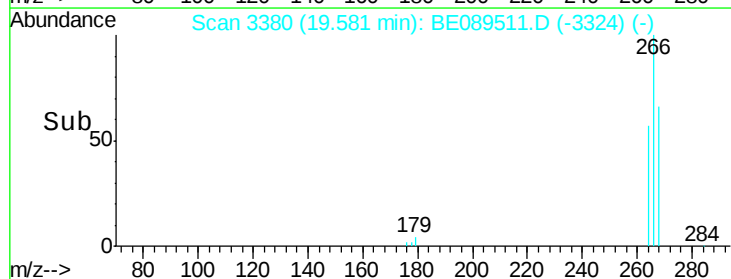
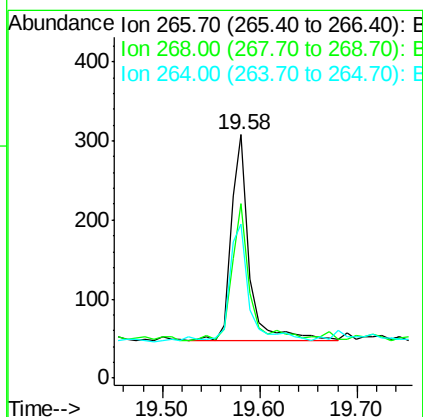
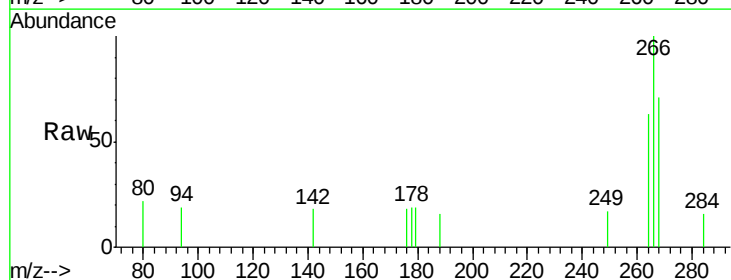
Instrument :
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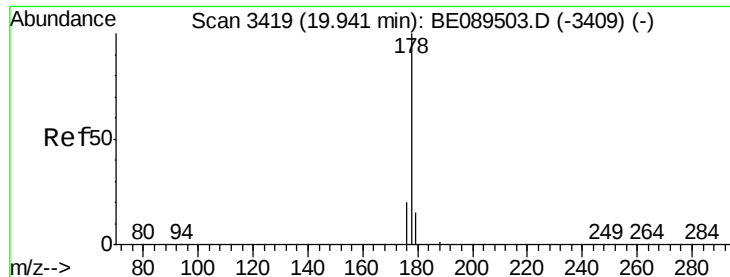
Tgt Ion:188 Resp: 89514
Ion Ratio Lower Upper
188 100
94 8.3 8.2 12.4
80 8.2 8.7 13.1#



#12
Pentachlorophenol
Concen: 0.01 ng
RT: 19.58 min Scan# 3380
Delta R.T. 0.00 min
Lab File: BE089511.D
Acq: 5 Feb 2015 20:13

Tgt Ion:266 Resp: 340
Ion Ratio Lower Upper
266 100
268 71.4 56.7 85.1
264 63.3 51.9 77.9

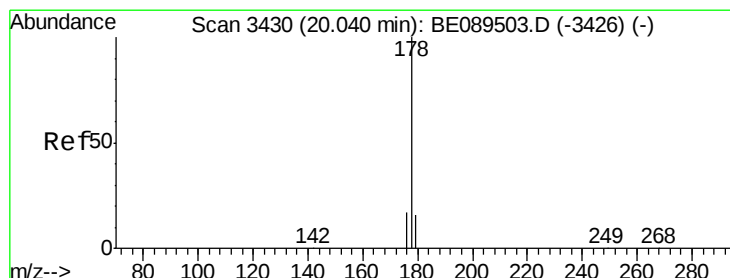
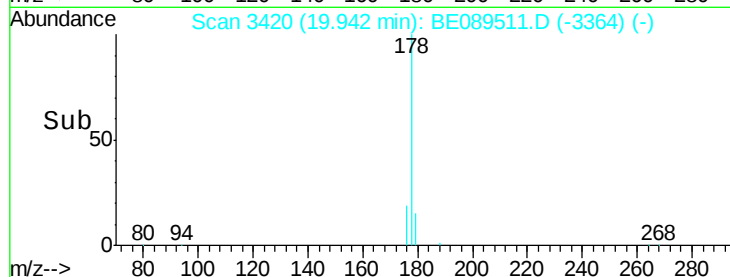
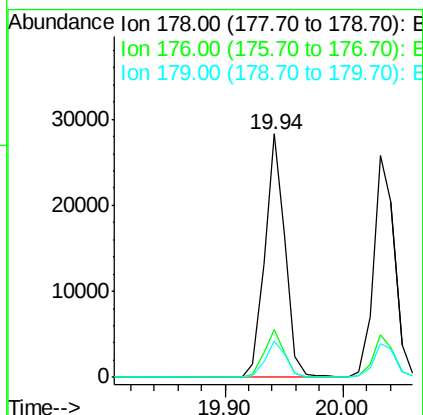
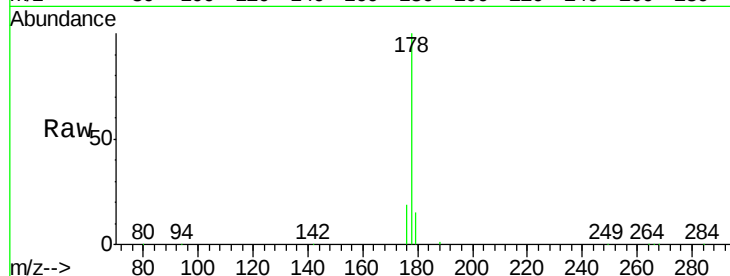




#13
Phenanthrene
Concen: 1.24 ng
RT: 19.94 min Scan# 3420
Delta R.T. 0.00 min
Lab File: BE089511.D
Acq: 5 Feb 2015 20:13

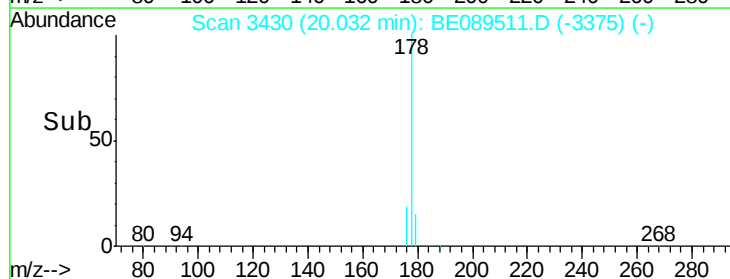
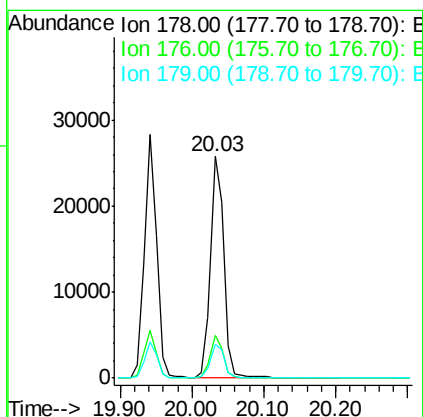
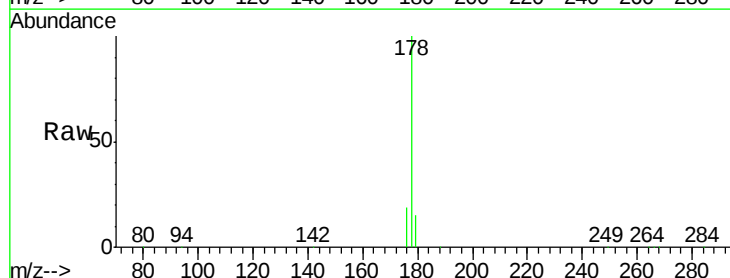
Instrument :
BNA_E
ClientSampleId :
PB81495BL

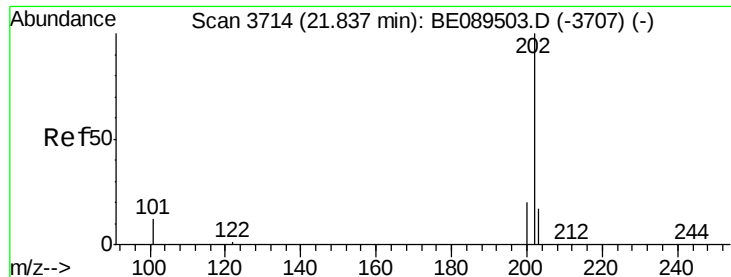
Tgt Ion:178 Resp: 33827
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.2 12.4 18.6



#14
Anthracene
Concen: 1.15 ng
RT: 20.03 min Scan# 3430
Delta R.T. -0.01 min
Lab File: BE089511.D
Acq: 5 Feb 2015 20:13

Tgt Ion:178 Resp: 31835
Ion Ratio Lower Upper
178 100
176 18.1 14.6 22.0
179 15.2 12.1 18.1

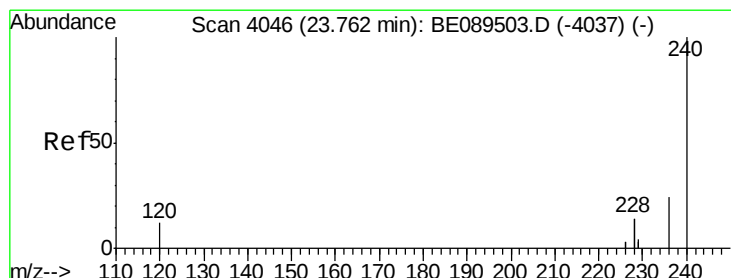
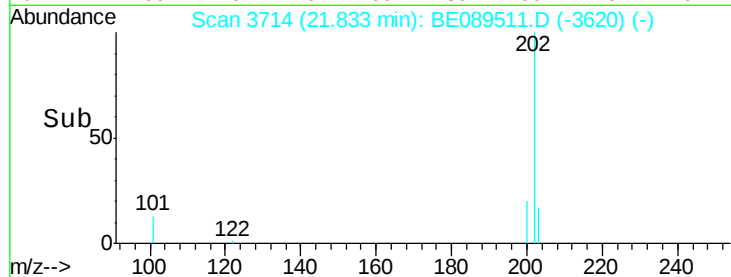
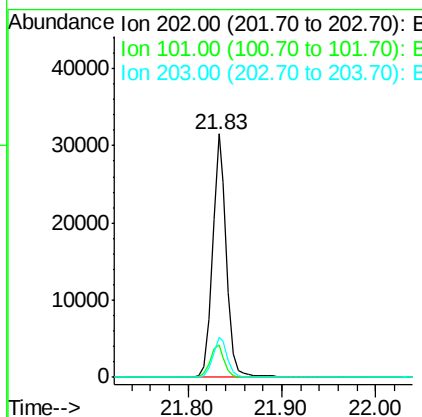
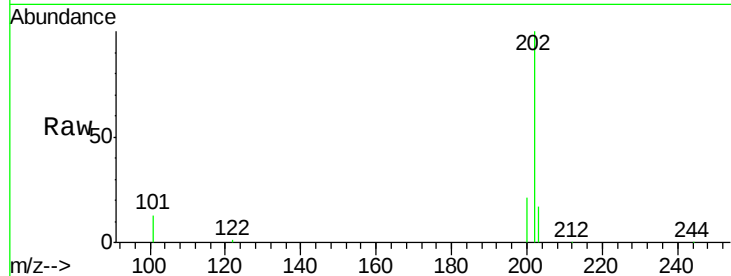




#15
 Fluoranthene
 Concen: 1.11 ng
 RT: 21.83 min Scan# 3714
 Delta R.T. -0.00 min
 Lab File: BE089511.D
 Acq: 5 Feb 2015 20:13

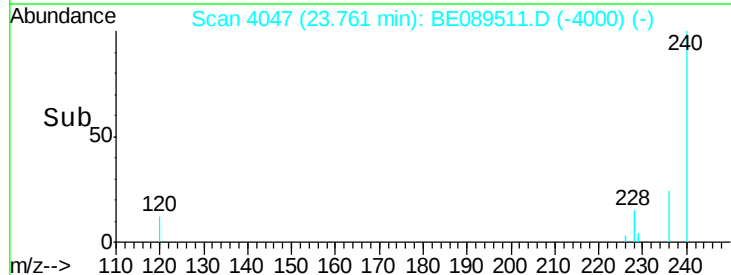
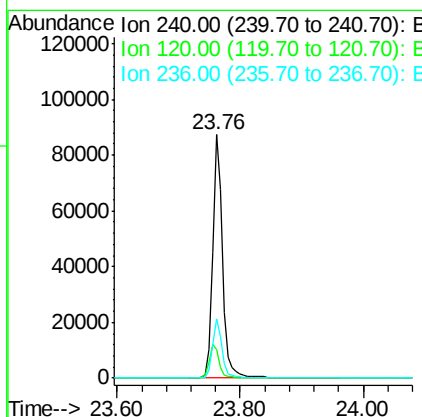
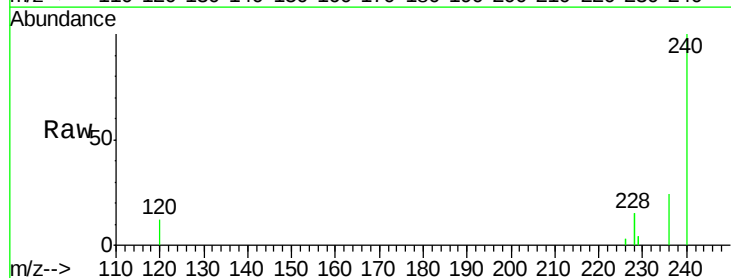
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BL

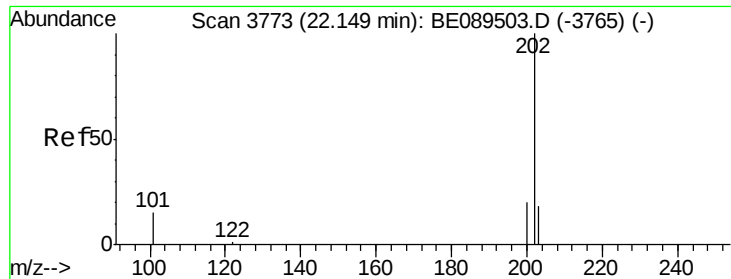
Tgt Ion:202 Resp: 32689
 Ion Ratio Lower Upper
 202 100
 101 13.4 11.3 16.9
 203 17.1 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 4047
 Delta R.T. -0.00 min
 Lab File: BE089511.D
 Acq: 5 Feb 2015 20:13

Tgt Ion:240 Resp: 97703
 Ion Ratio Lower Upper
 240 100
 120 11.6 9.6 14.4
 236 24.3 19.4 29.2

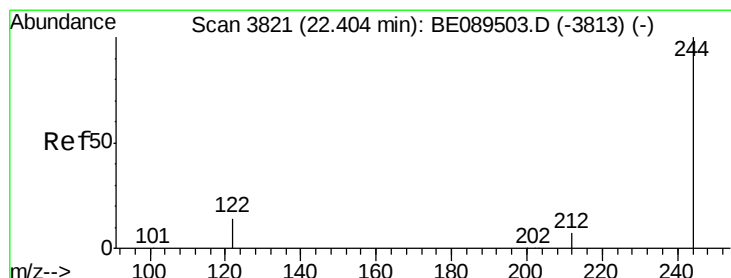
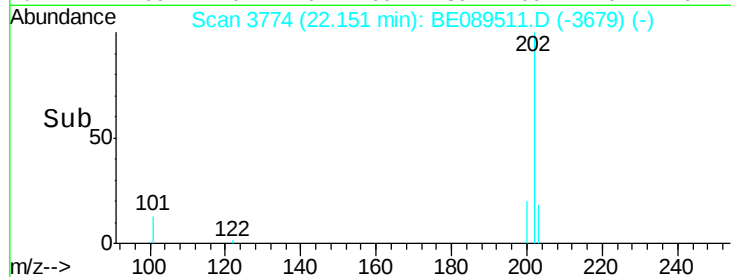
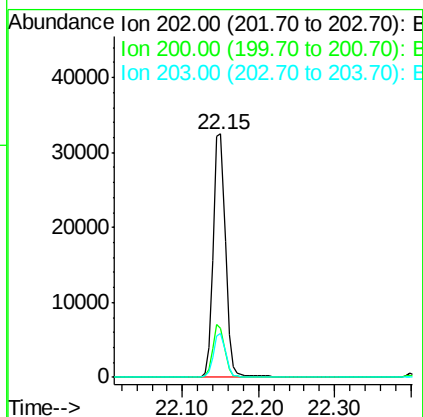
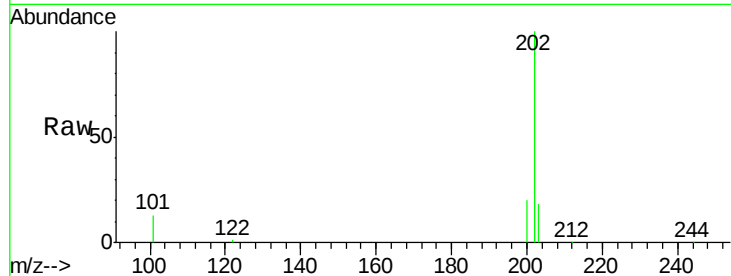




#17
 Pyrene
 Concen: 1.28 ng
 RT: 22.15 min Scan# 3774
 Delta R.T. 0.00 min
 Lab File: BE089511.D
 Acq: 5 Feb 2015 20:13

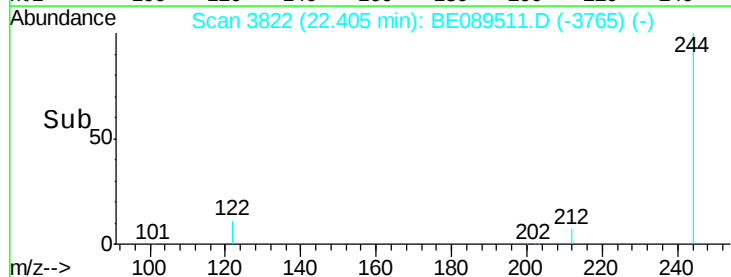
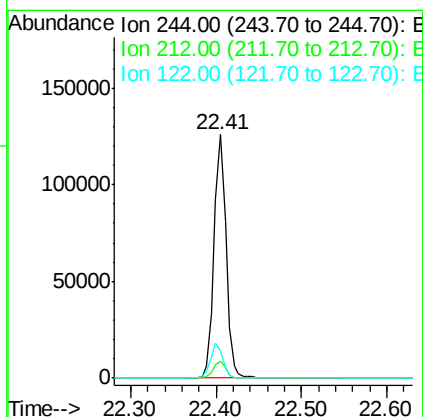
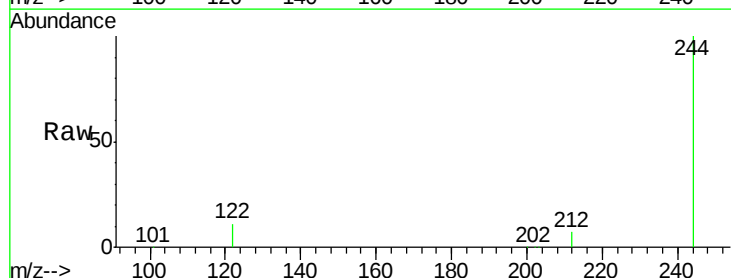
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BL

Tgt Ion:202 Resp: 35629
 Ion Ratio Lower Upper
 202 100
 200 20.8 16.5 24.7
 203 17.5 14.0 21.0



#18
 Terphenyl-d14
 Concen: 7.09 ng
 RT: 22.41 min Scan# 3822
 Delta R.T. 0.00 min
 Lab File: BE089511.D
 Acq: 5 Feb 2015 20:13

Tgt Ion:244 Resp: 120541
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.5 8.3
 122 11.4 11.1 16.7





#19

Benzo(a)anthracene

Concen: 1.13 ng

RT: 23.75 min Scan# 4045

Delta R.T. 0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

PB81495BL

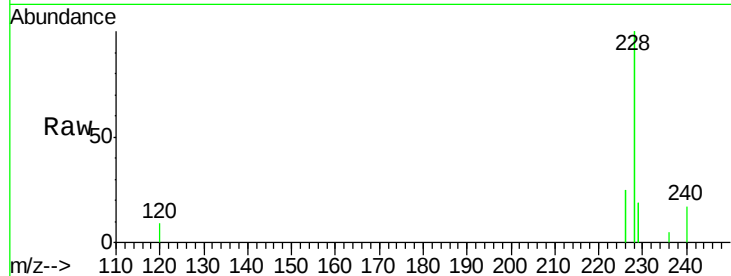
Tgt Ion:228 Resp: 133981

Ion Ratio Lower Upper

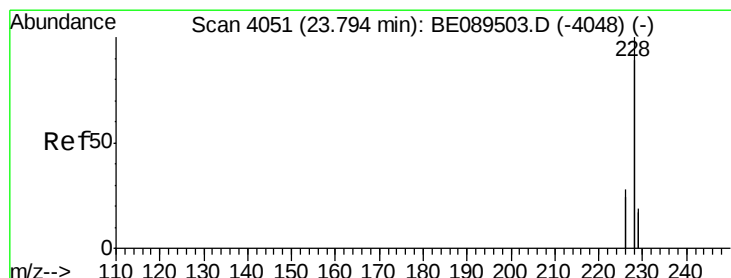
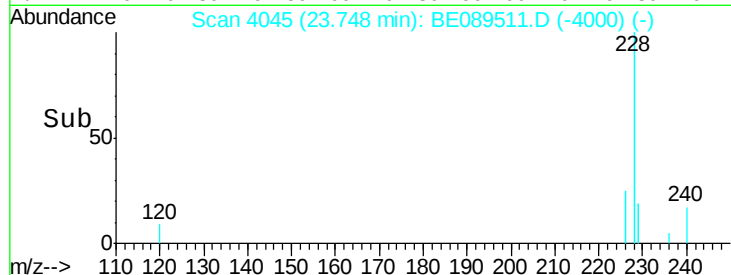
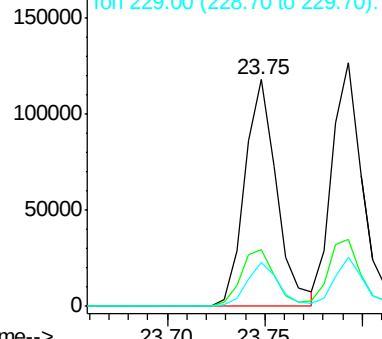
228 100

226 25.2 21.0 31.6

229 19.5 15.5 23.3



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: 1.22 ng

RT: 23.79 min Scan# 4052

Delta R.T. -0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

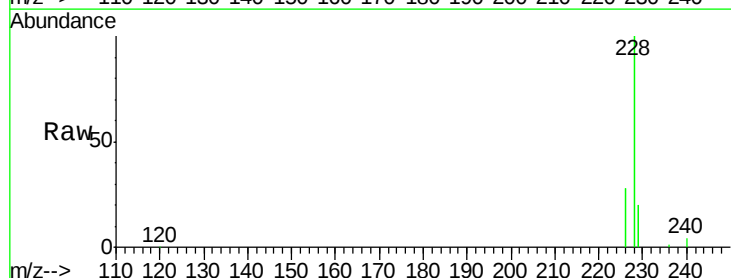
Tgt Ion:228 Resp: 145403

Ion Ratio Lower Upper

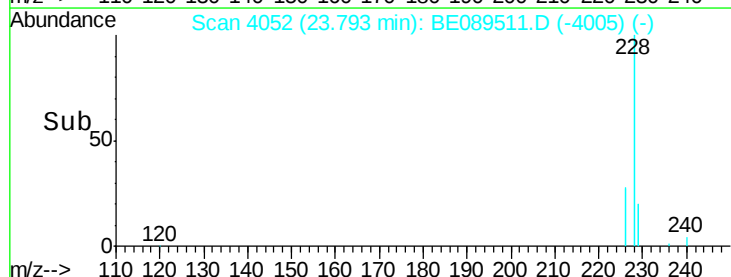
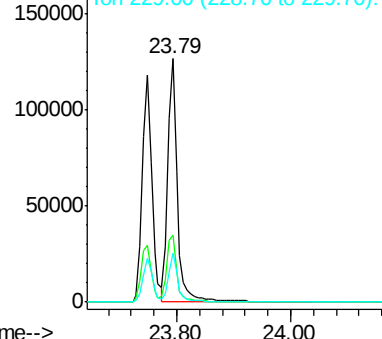
228 100

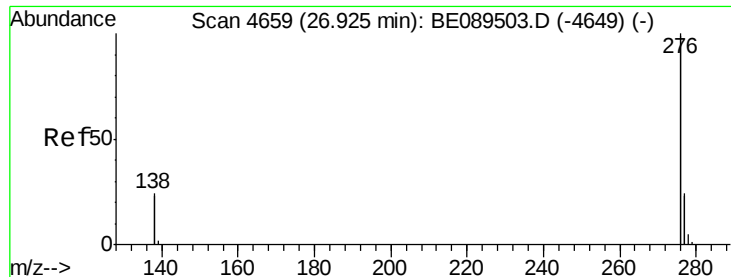
226 27.7 22.3 33.5

229 20.0 15.4 23.0



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: 0.98 ng

RT: 26.92 min Scan# 4659

Delta R.T. -0.01 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

PB81495BL

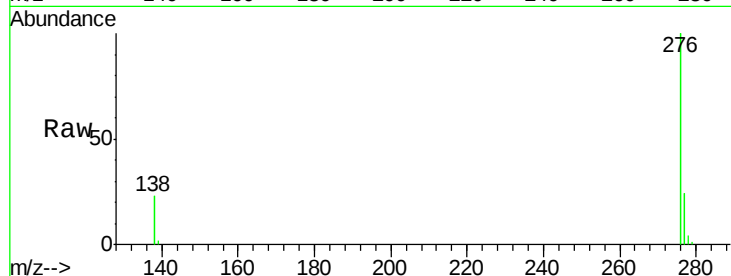
Tgt Ion:276 Resp: 133340

Ion Ratio Lower Upper

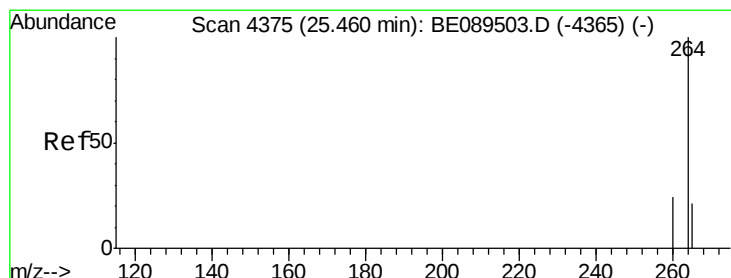
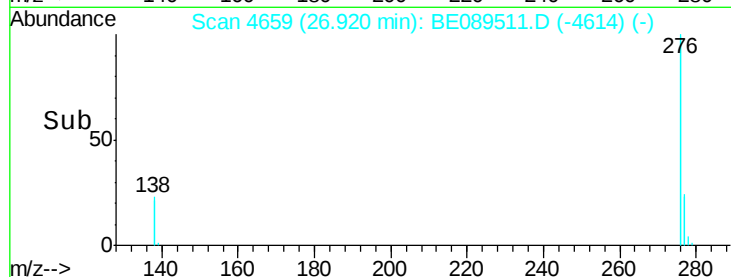
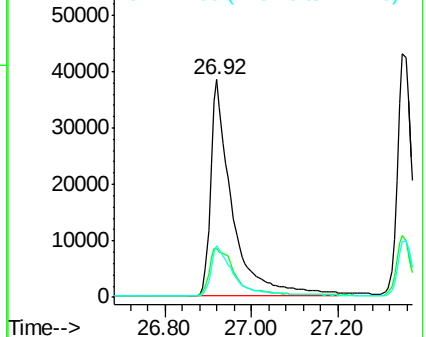
276 100

138 27.0 23.2 34.8

277 25.3 19.8 29.6



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: 25.46 min Scan# 4376

Delta R.T. -0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

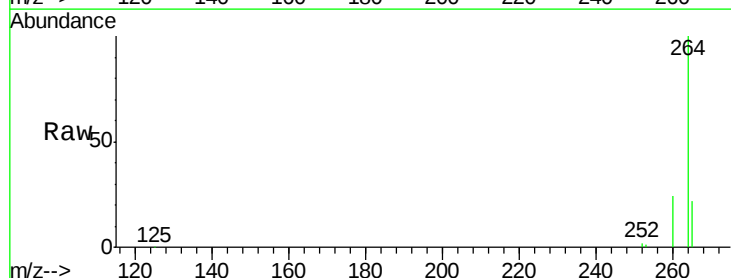
Tgt Ion:264 Resp: 92804

Ion Ratio Lower Upper

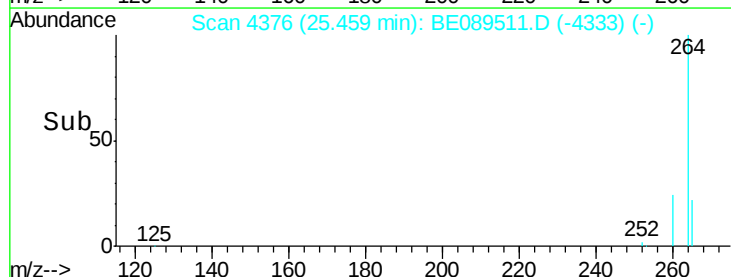
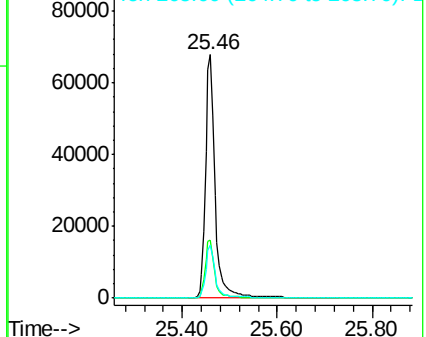
264 100

260 23.7 19.0 28.6

265 21.8 17.0 25.6



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: 1.09 ng

RT: 25.02 min Scan# 4279

Delta R.T. -0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

PB81495BL

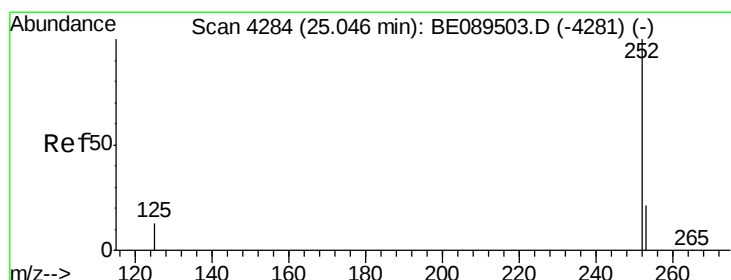
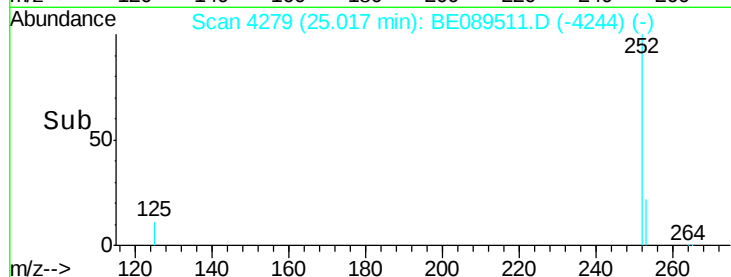
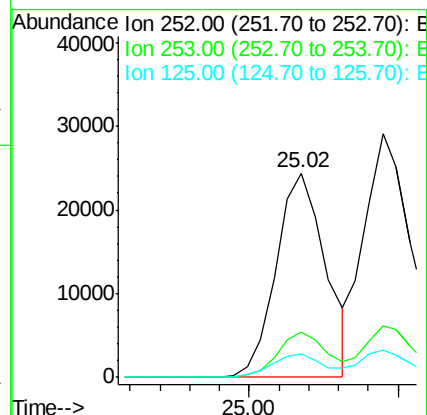
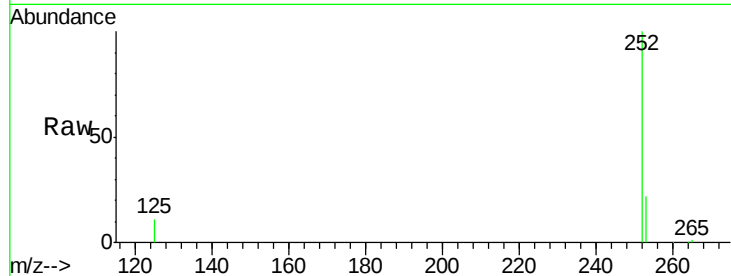
Tgt Ion:252 Resp: 27860

Ion Ratio Lower Upper

252 100

253 21.8 17.4 26.0

125 11.5 9.6 14.4



#24

Benzo(k)fluoranthene

Concen: 1.33 ng

RT: 25.04 min Scan# 4285

Delta R.T. -0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

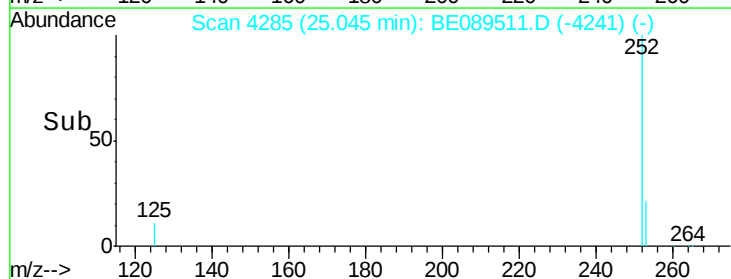
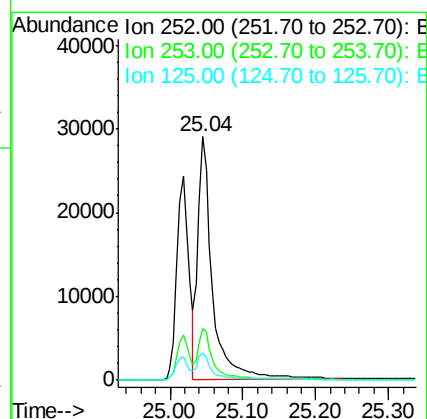
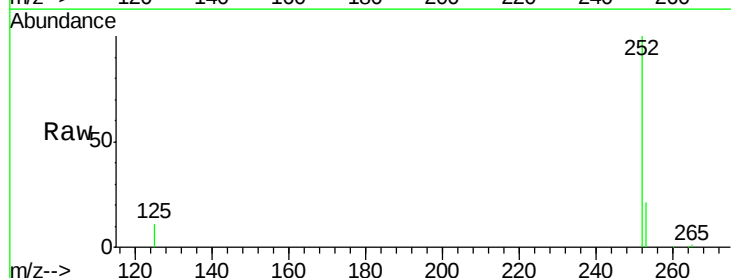
Tgt Ion:252 Resp: 39447

Ion Ratio Lower Upper

252 100

253 21.2 17.0 25.6

125 11.3 10.2 15.4





#25

Benzo(a)pyrene

Concen: 1.11 ng

RT: 25.39 min Scan# 4361

Delta R.T. -0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

PB81495BL

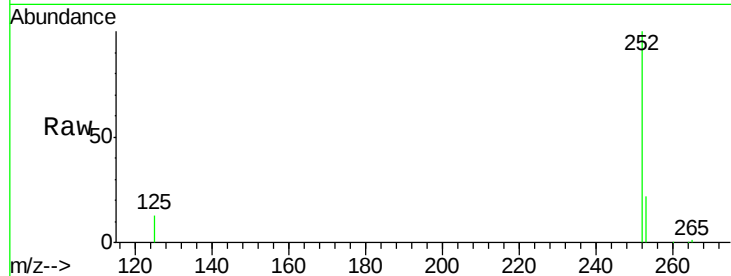
Tgt Ion:252 Resp: 28239

Ion Ratio Lower Upper

252 100

253 22.0 17.8 26.6

125 12.9 10.7 16.1

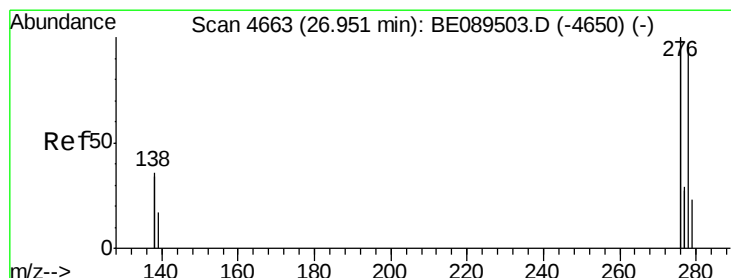
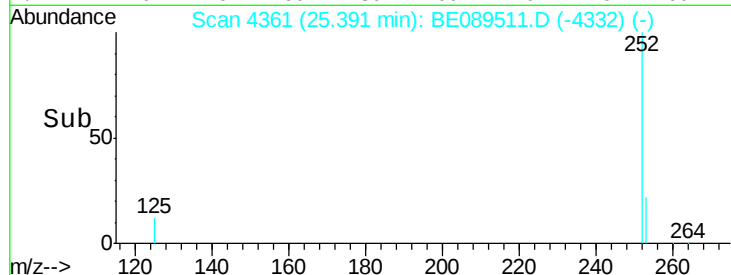
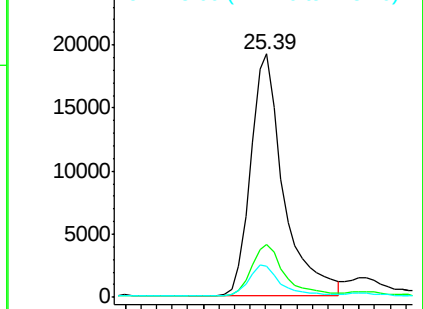


Abundance

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: 1.07 ng

RT: 26.95 min Scan# 4664

Delta R.T. 0.00 min

Lab File: BE089511.D

Acq: 5 Feb 2015 20:13

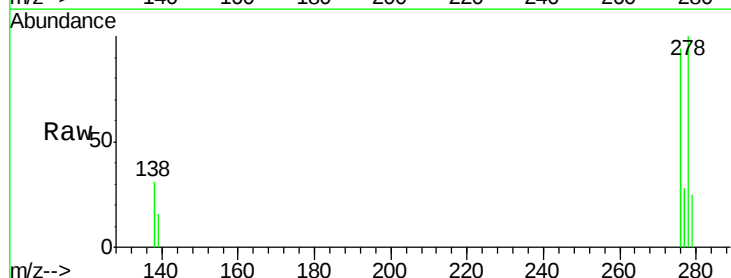
Tgt Ion:278 Resp: 29436

Ion Ratio Lower Upper

278 100

139 16.0 14.6 22.0

279 24.8 19.0 28.4

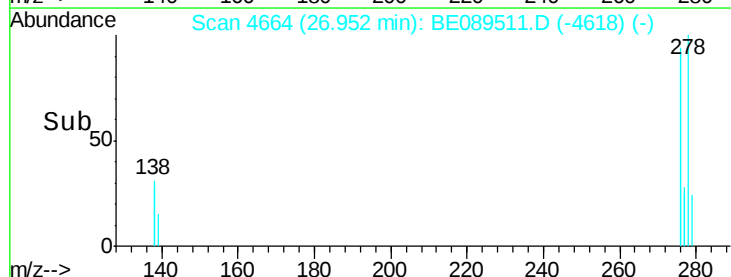
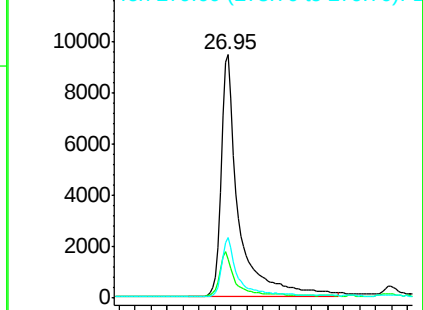


Abundance

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: 1.09 ng

RT: 27.35 min Scan# 4725

Delta R.T. -0.00 min

Lab File: BE089511.D

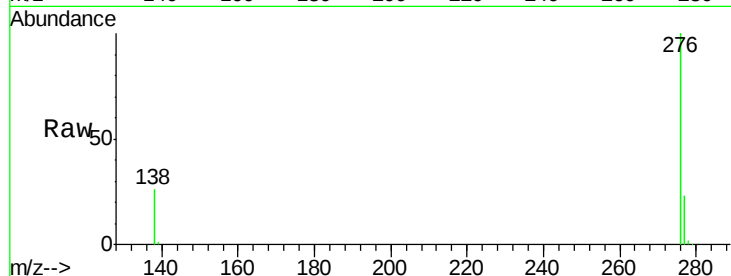
Acq: 5 Feb 2015 20:13

Instrument :

BNA_E

ClientSampleId :

PB81495BL



Tgt Ion: 276 Resp: 117173

Ion Ratio Lower Upper

276 100

277 22.9 18.6 28.0

138 25.6 20.8 31.2

