

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089542.D
 Acq On : 7 Feb 2015 2:15
 Operator : TP/IZ
 Sample : PB81635BS
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81635BS

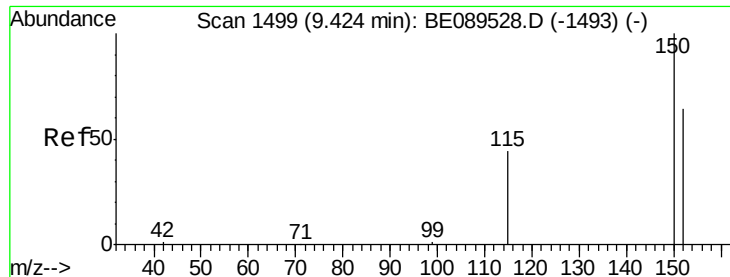
Quant Time: Feb 07 05:57:59 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	31548	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	118819	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	49371	5.00	ng	0.00
11) Phenanthrene-d10	19.85	188	91200	5.00	ng	0.00
16) Chrysene-d12	23.72	240	110375	5.00	ng	0.00
22) Perylene-d12	25.41	264	114534	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	71208	9.02	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	109584	8.32	ng	0.00
18) Terphenyl-d14	22.36	244	127325	8.74	ng	0.00

Target Compounds				Qvalue		
4) Naphthalene	12.38	128	182571	6.82	ng	99
5) 2-Methylnaphthalene	14.03	142	107287	7.06	ng	98
8) Acenaphthylene	16.16	152	605995	7.30	ng	100
9) Acenaphthene	16.59	154	89135	6.76	ng	98
10) Fluorene	17.84	166	102111	7.30	ng	98
12) Pentachlorophenol	19.52	266	18555	13.56	ng	87
13) Phenanthrene	19.89	178	156183	6.91	ng	100
14) Anthracene	19.98	178	156909	8.22	ng	99
15) Fluoranthene	21.79	202	164662	7.82	ng	99
17) Pyrene	22.10	202	180348	7.67	ng	99
19) Benzo(a)anthracene	23.71	228	705274	7.18	ng	99
20) Chrysene	23.75	228	744743	7.47	ng	100
21) Indeno(1,2,3-cd)pyrene	26.85	276	906850	6.54	ng	99
23) Benzo(b)fluoranthene	24.98	252	175993	7.91	ng	98
24) Benzo(k)fluoranthene	25.01	252	213315	7.72	ng	98
25) Benzo(a)pyrene	25.35	252	175766	7.95	ng	98
26) Dibenzo(a,h)anthracene	26.89	278	200790	7.39	ng	# 96
27) Benzo(g,h,i)perylene	27.28	276	792487	7.15	ng	97

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

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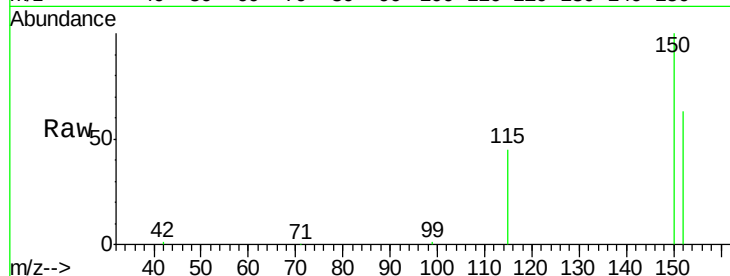
Tgt Ion:152 Resp: 31548

Ion Ratio Lower Upper

152 100

150 159.3 125.7 188.5

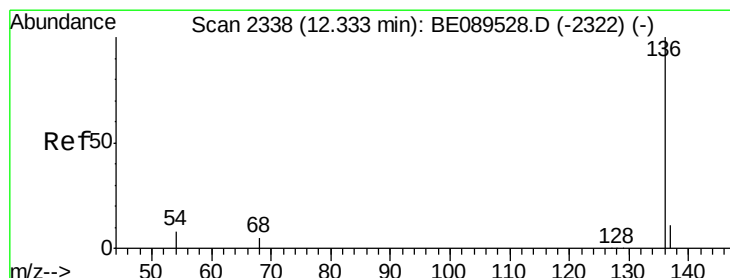
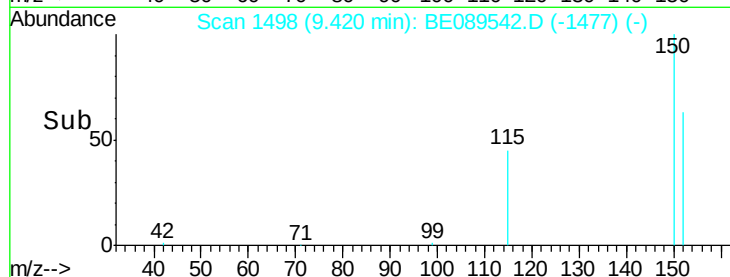
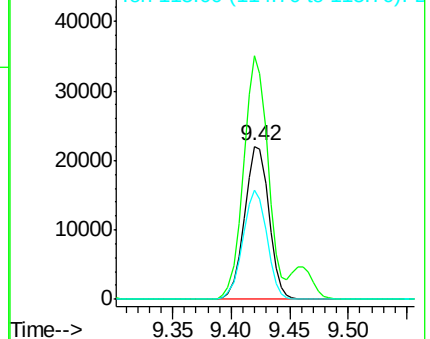
115 71.9 55.6 83.4



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: BE089542.D

Acq: 7 Feb 2015 2:15

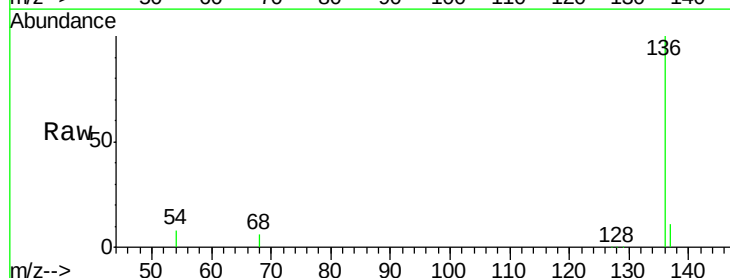
Tgt Ion:136 Resp: 118819

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

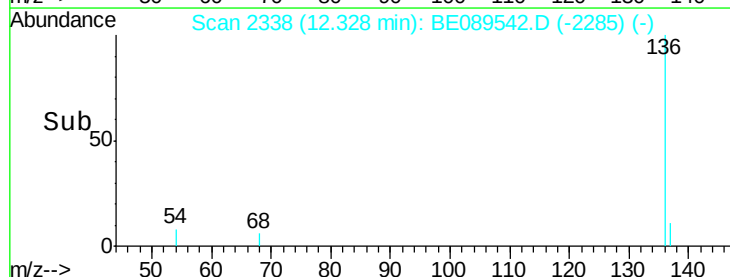
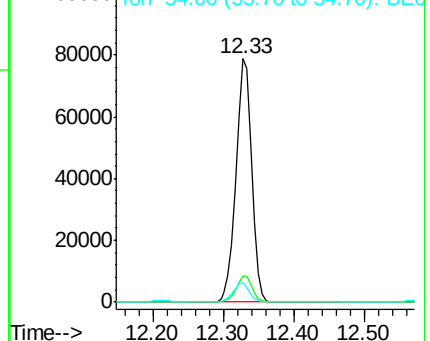
54 8.1 6.1 9.1

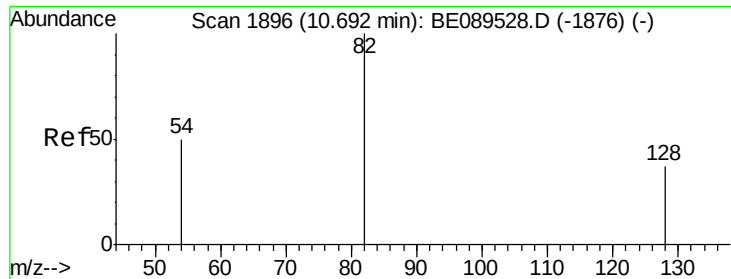


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 9.02 ng

RT: 10.69 min Scan# 1896

Delta R.T. -0.00 min

Lab File: BE089542.D

Acq: 7 Feb 2015 2:15

Instrument :

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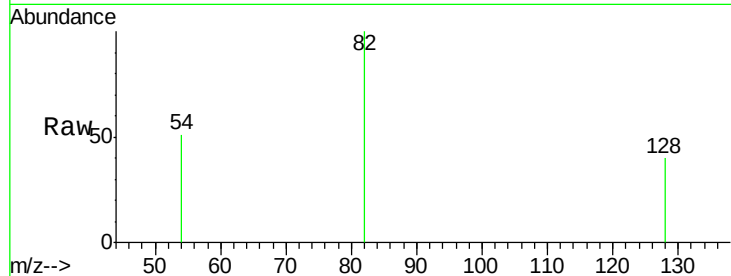
Tgt Ion: 82 Resp: 71208

Ion Ratio Lower Upper

82 100

128 40.1 30.2 45.4

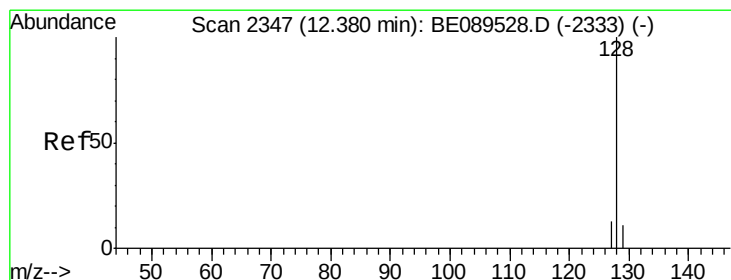
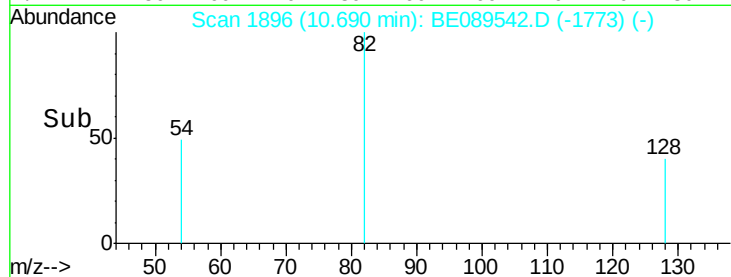
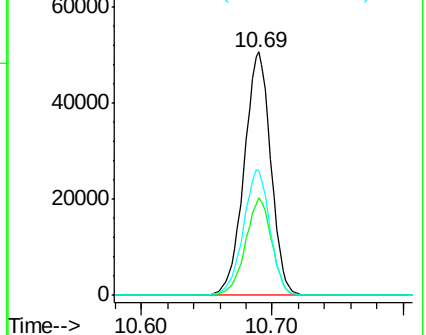
54 51.1 40.6 60.8



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: 6.82 ng

RT: 12.38 min Scan# 2347

Delta R.T. -0.00 min

Lab File: BE089542.D

Acq: 7 Feb 2015 2:15

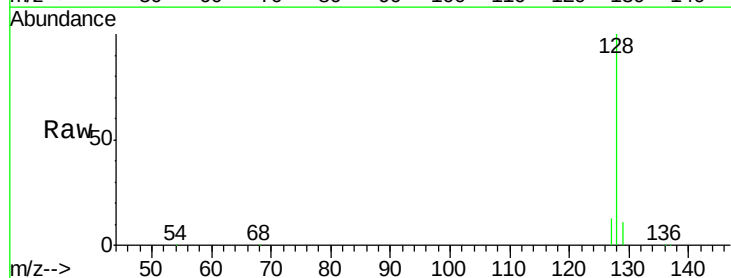
Tgt Ion: 128 Resp: 182571

Ion Ratio Lower Upper

128 100

129 10.9 9.1 13.7

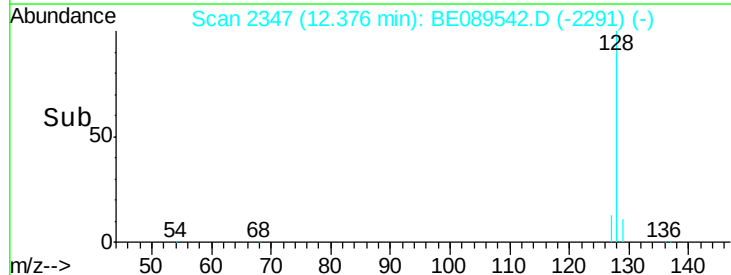
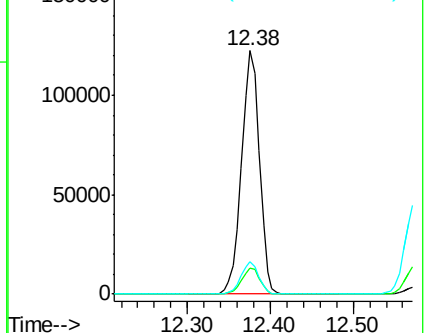
127 13.1 10.5 15.7

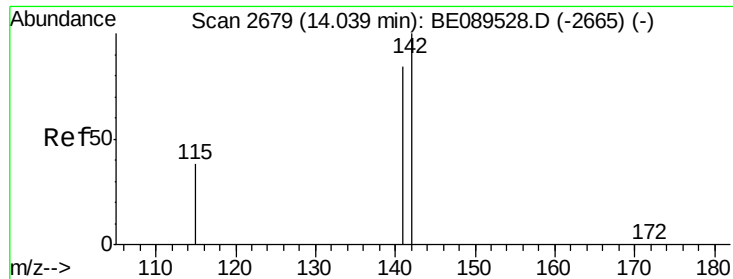


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 7.06 ng

RT: 14.03 min Scan# 2679

Delta R.T. -0.00 min

Lab File: BE089542.D

Acq: 7 Feb 2015 2:15

Instrument :

BNA_E

ClientSampleId :

PB81635BS

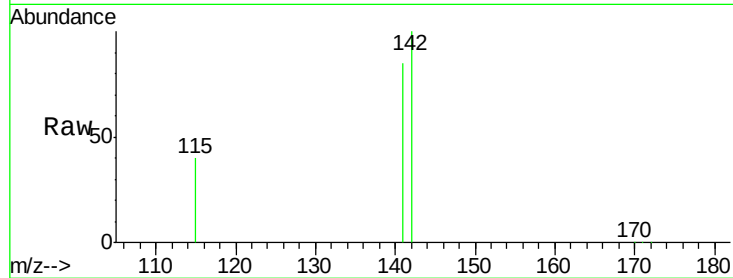
Tgt Ion:142 Resp: 107287

Ion Ratio Lower Upper

142 100

141 85.4 67.0 100.6

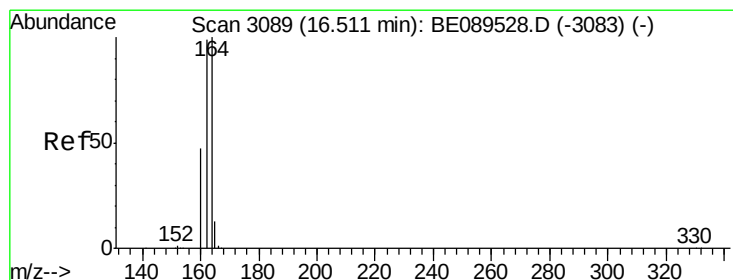
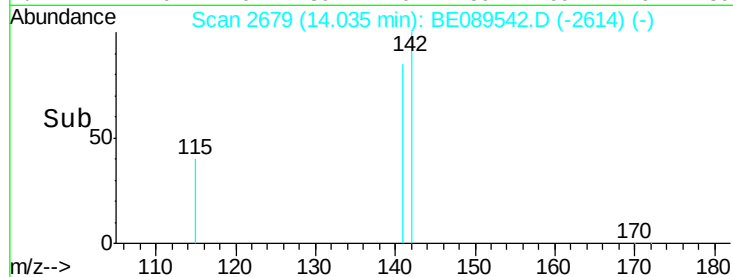
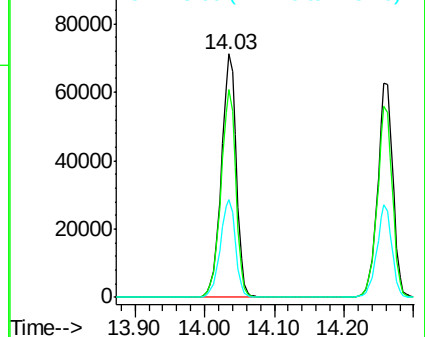
115 40.3 30.6 45.8



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# 3090

Delta R.T. 0.00 min

Lab File: BE089542.D

Acq: 7 Feb 2015 2:15

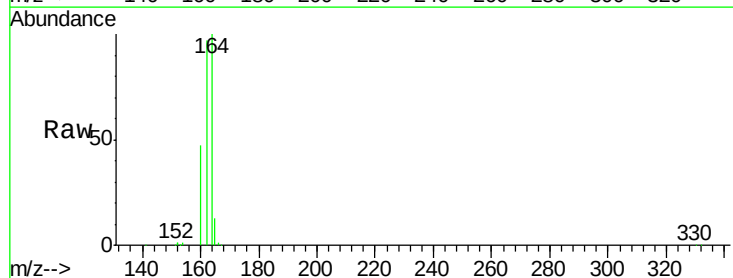
Tgt Ion:164 Resp: 49371

Ion Ratio Lower Upper

164 100

162 97.0 79.5 119.3

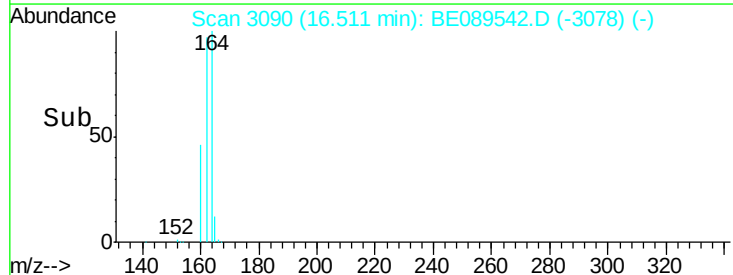
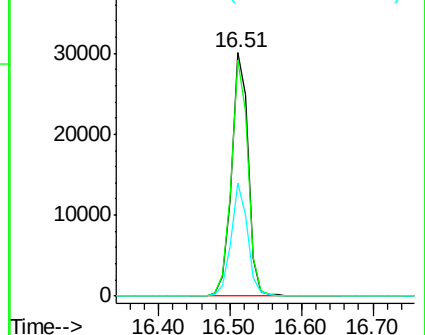
160 46.5 37.6 56.4

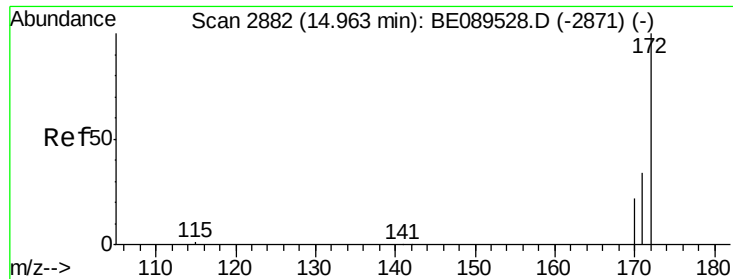


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 8.32 ng

RT: 14.96 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BE089542.D

Acq: 7 Feb 2015 2:15

Instrument :

BNA_E

ClientSampleId :

PB81635BS

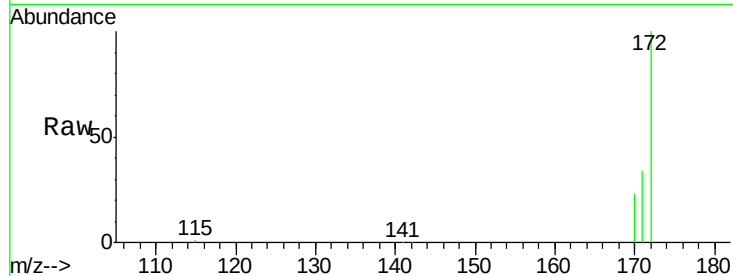
Tgt Ion:172 Resp: 109584

Ion Ratio Lower Upper

172 100

171 34.2 27.7 41.5

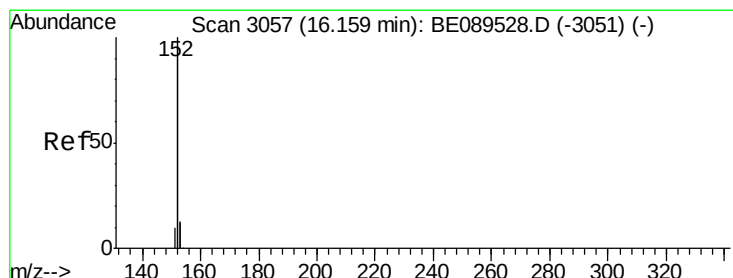
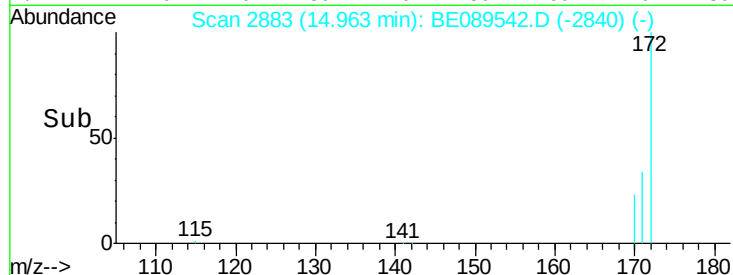
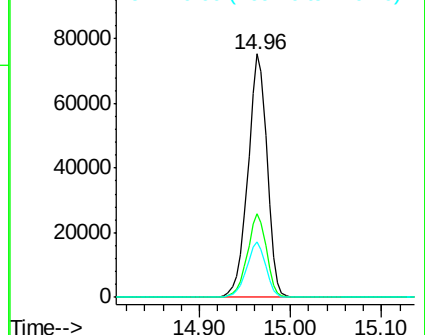
170 23.0 18.3 27.5



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: 7.30 ng

RT: 16.16 min Scan# 3058

Delta R.T. 0.00 min

Lab File: BE089542.D

Acq: 7 Feb 2015 2:15

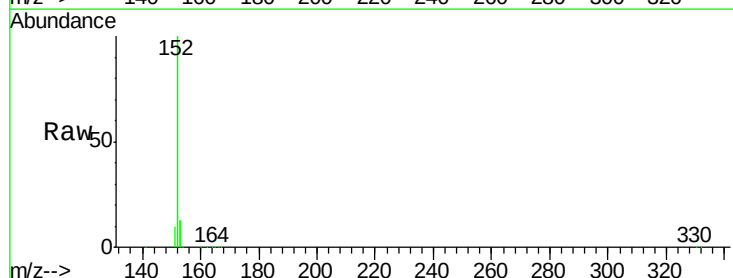
Tgt Ion:152 Resp: 605995

Ion Ratio Lower Upper

152 100

151 5.0 4.0 6.0

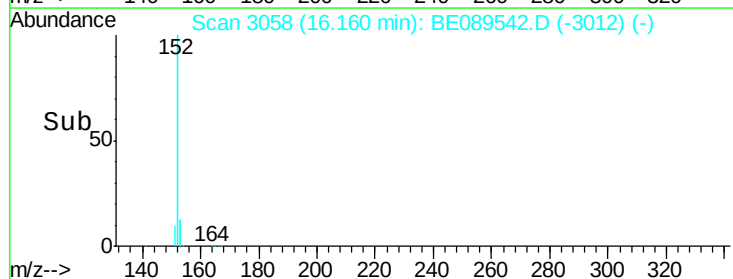
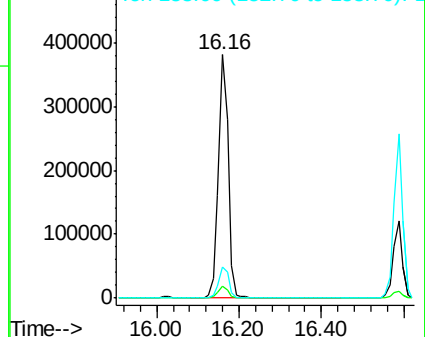
153 13.0 10.6 15.8

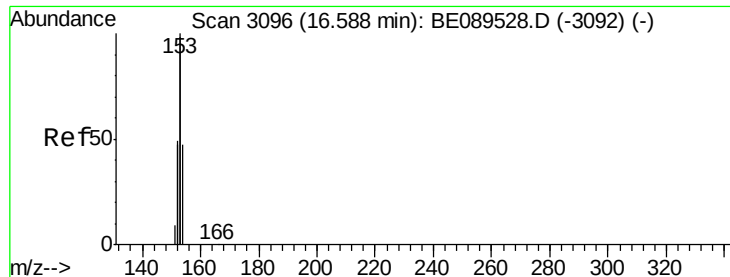


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 6.76 ng

RT: 16.59 min Scan# 3097

Delta R.T. 0.00 min

Lab File: BE089542.D

Acq: 7 Feb 2015 2:15

Instrument :

BNA_E

ClientSampleId :

PB81635BS

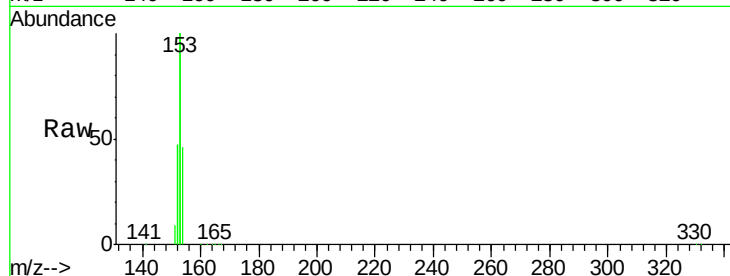
Tgt Ion:154 Resp: 89135

Ion Ratio Lower Upper

154 100

153 432.9 340.8 511.2

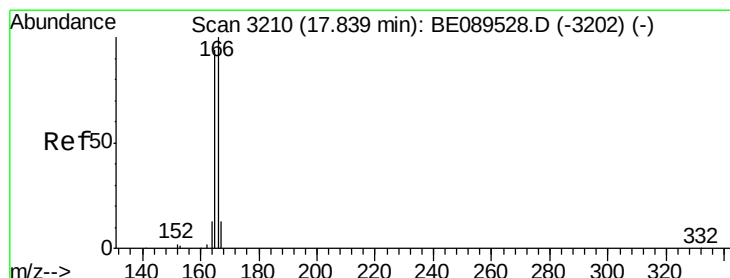
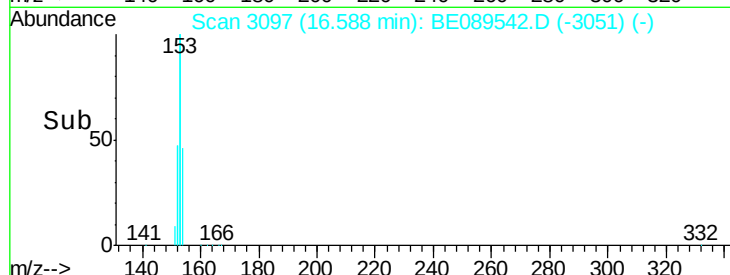
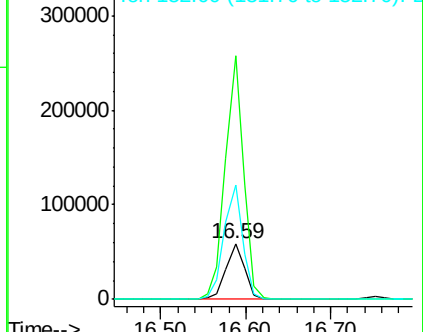
152 207.9 165.5 248.3



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: 7.30 ng

RT: 17.84 min Scan# 3211

Delta R.T. 0.00 min

Lab File: BE089542.D

Acq: 7 Feb 2015 2:15

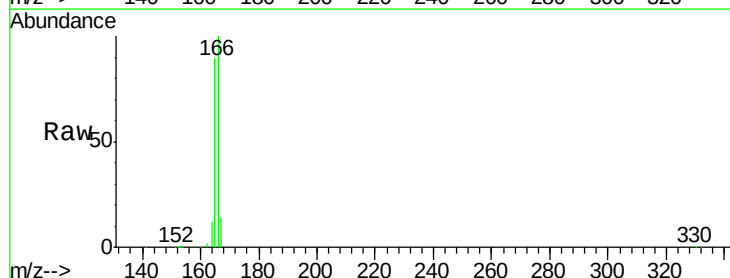
Tgt Ion:166 Resp: 102111

Ion Ratio Lower Upper

166 100

165 92.5 75.5 113.3

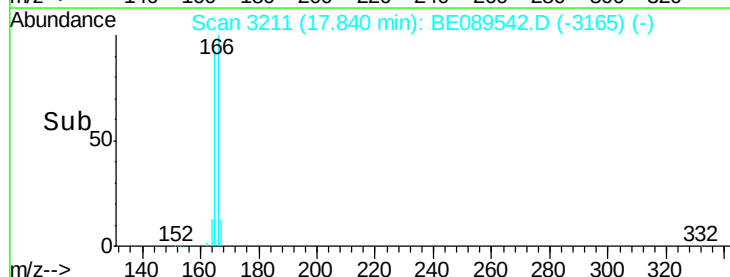
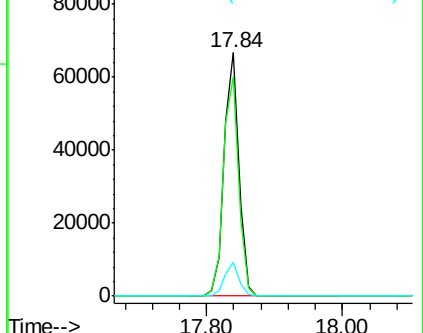
167 13.1 10.9 16.3

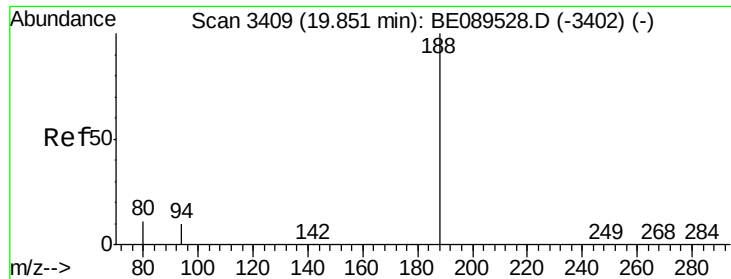


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

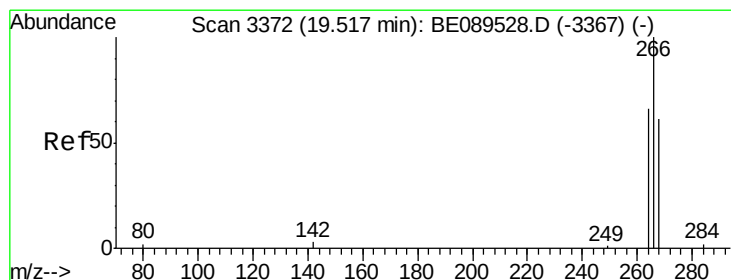
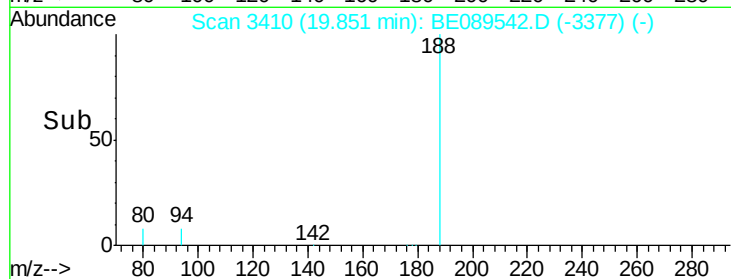
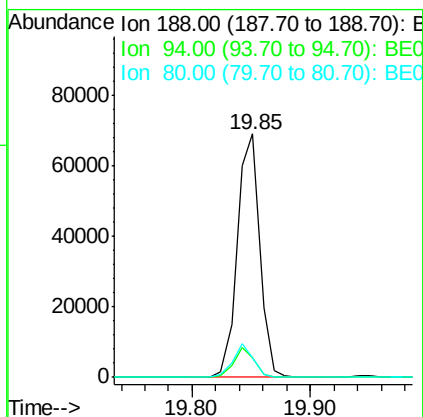
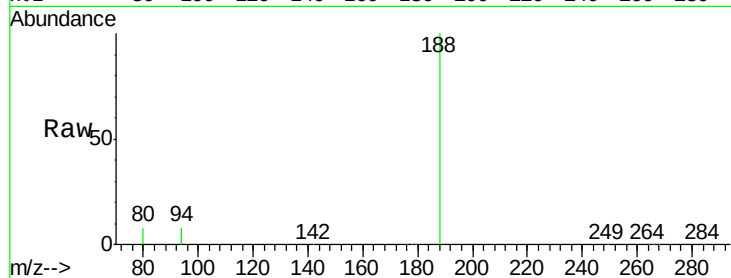




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.85 min Scan# 3410
Delta R.T. 0.00 min
Lab File: BE089542.D
Acq: 7 Feb 2015 2:15

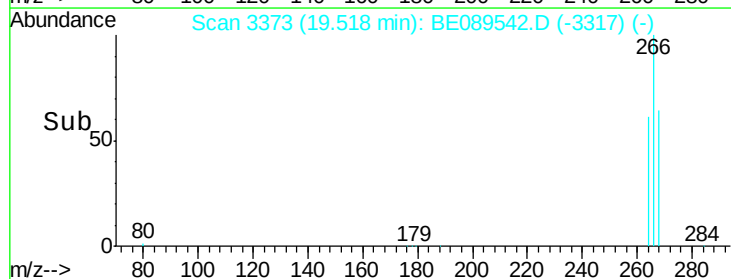
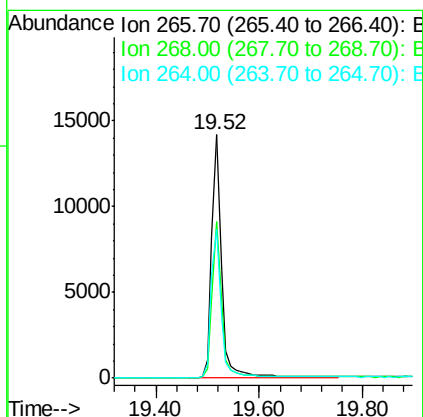
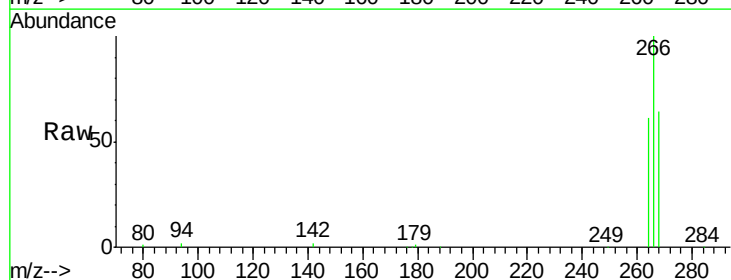
Instrument :
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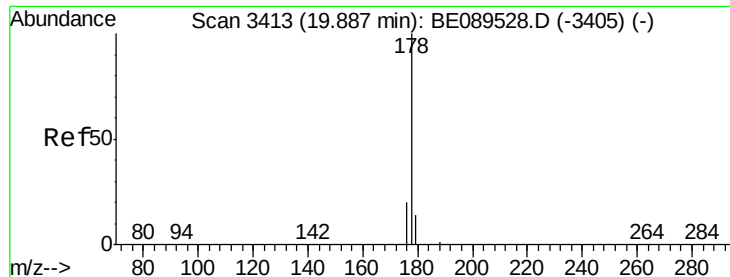
Tgt Ion:188 Resp: 91200
Ion Ratio Lower Upper
188 100
94 8.1 8.4 12.6#
80 8.1 8.6 12.8#



#12
Pentachlorophenol
Concen: 13.56 ng
RT: 19.52 min Scan# 3373
Delta R.T. 0.00 min
Lab File: BE089542.D
Acq: 7 Feb 2015 2:15

Tgt Ion:266 Resp: 18555
Ion Ratio Lower Upper
266 100
268 64.3 57.9 86.9
264 61.2 60.2 90.4

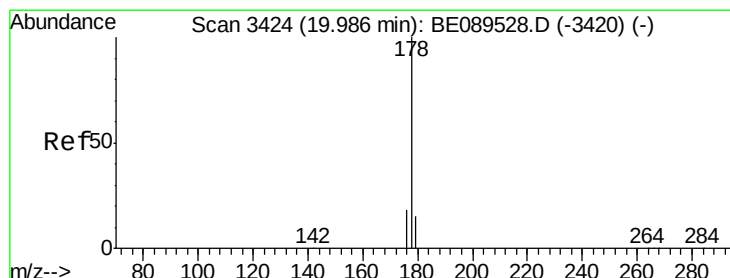
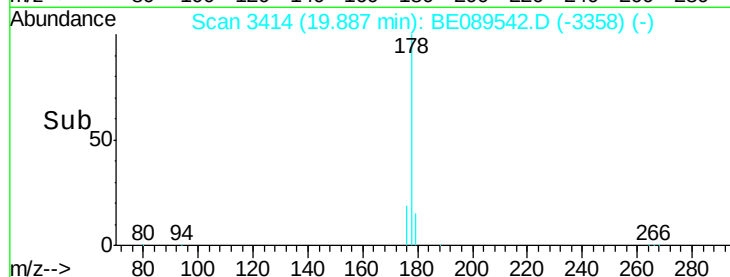
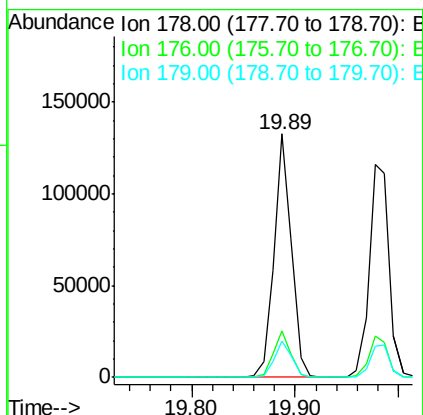
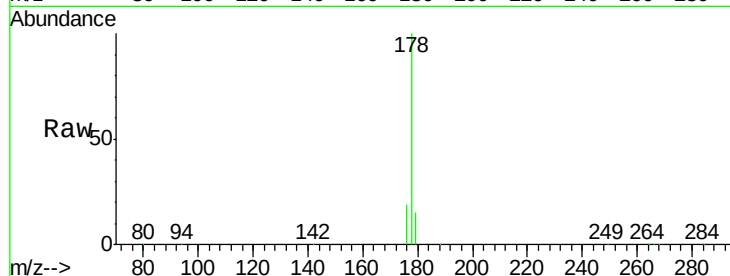




#13
Phenanthrene
Concen: 6.91 ng
RT: 19.89 min Scan# 3414
Delta R.T. 0.00 min
Lab File: BE089542.D
Acq: 7 Feb 2015 2:15

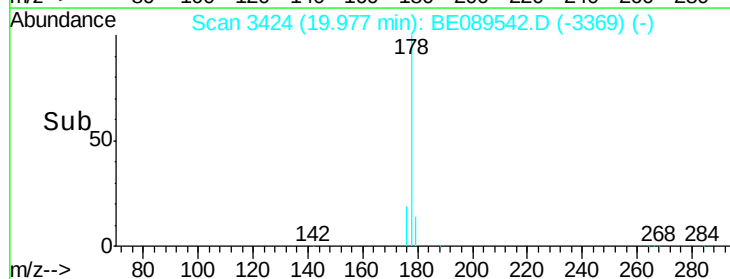
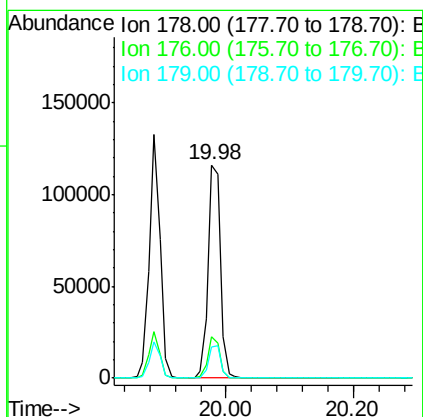
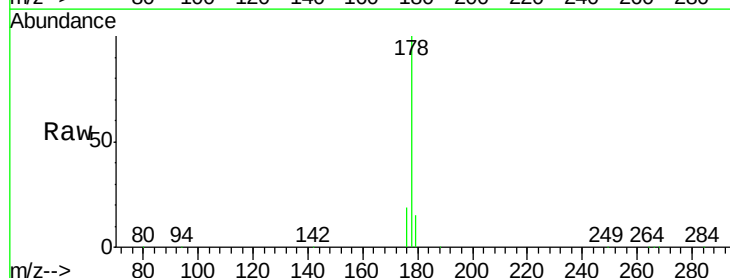
Instrument :
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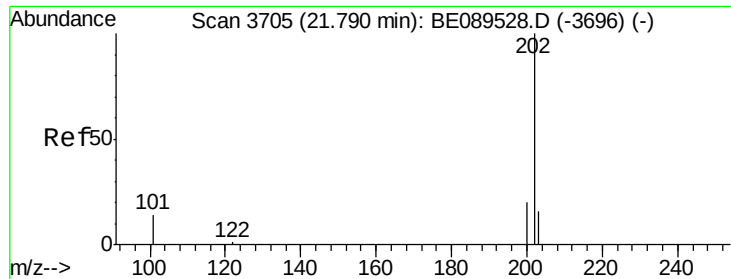
Tgt Ion:178 Resp: 156183
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.0
179 15.2 12.2 18.2



#14
Anthracene
Concen: 8.22 ng
RT: 19.98 min Scan# 3424
Delta R.T. -0.01 min
Lab File: BE089542.D
Acq: 7 Feb 2015 2:15

Tgt Ion:178 Resp: 156909
Ion Ratio Lower Upper
178 100
176 18.3 14.5 21.7
179 15.0 12.2 18.2

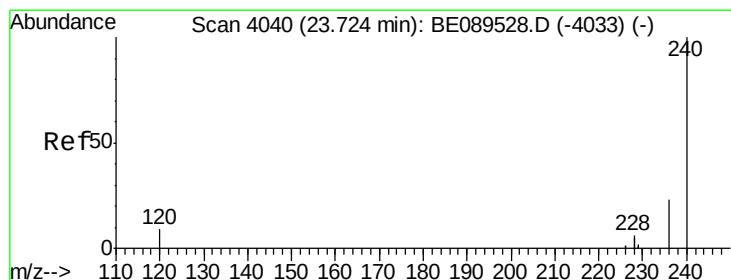
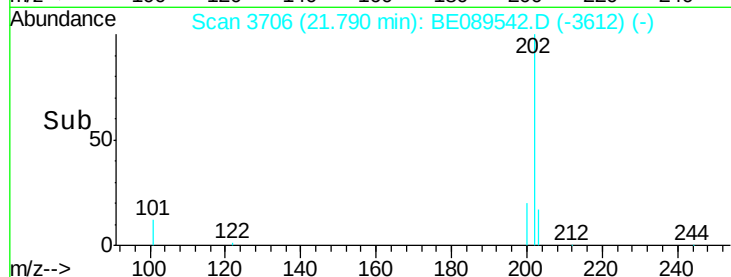
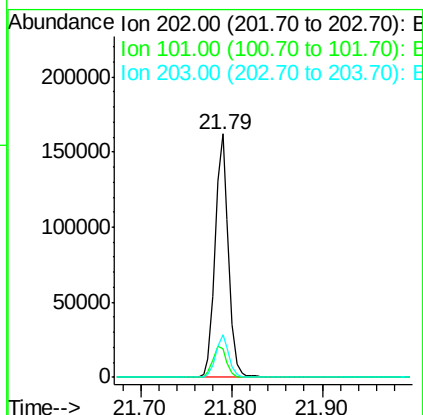
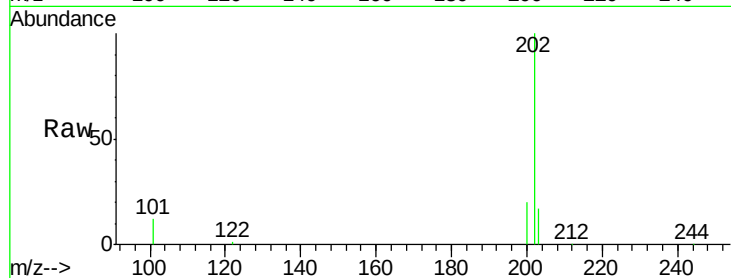




#15
 Fluoranthene
 Concen: 7.82 ng
 RT: 21.79 min Scan# 3706
 Delta R.T. 0.00 min
 Lab File: BE089542.D
 Acq: 7 Feb 2015 2:15

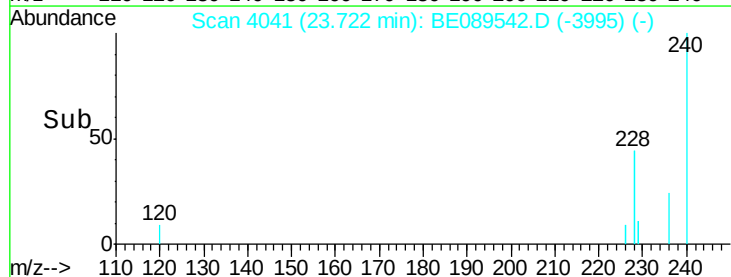
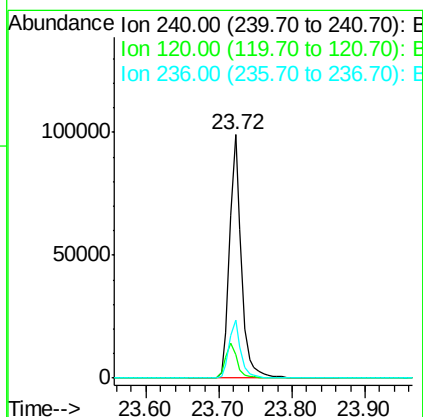
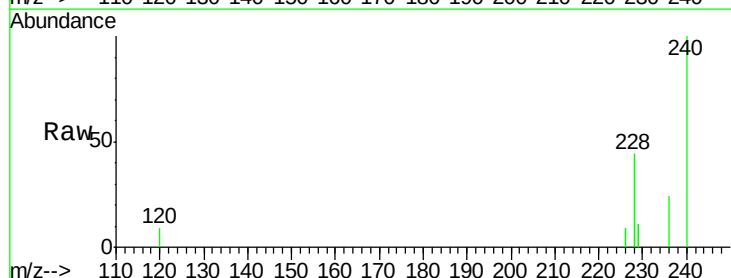
Instrument :
 BNA_E
 ClientSampleId :
 PB81635BS

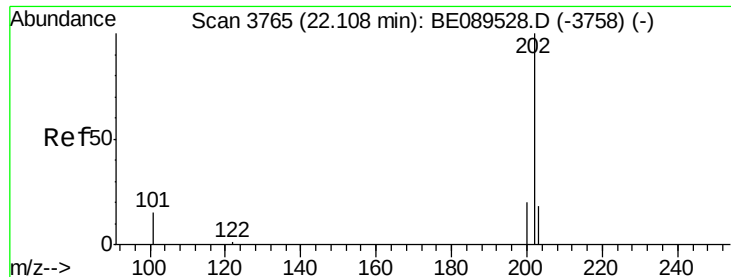
Tgt Ion: 202 Resp: 164662
 Ion Ratio Lower Upper
 202 100
 101 13.3 11.6 17.4
 203 17.1 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4041
 Delta R.T. -0.00 min
 Lab File: BE089542.D
 Acq: 7 Feb 2015 2:15

Tgt Ion: 240 Resp: 110375
 Ion Ratio Lower Upper
 240 100
 120 9.5 7.2 10.8
 236 23.6 18.5 27.7

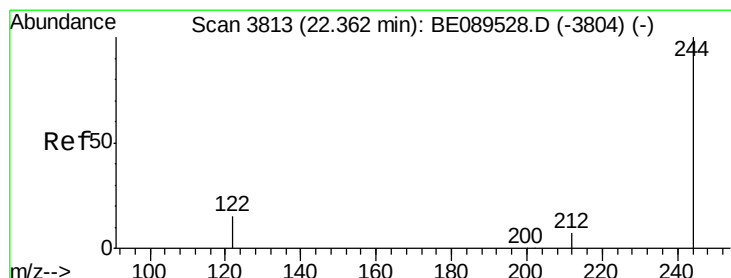
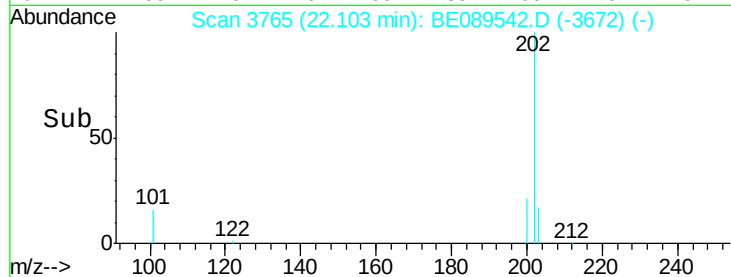
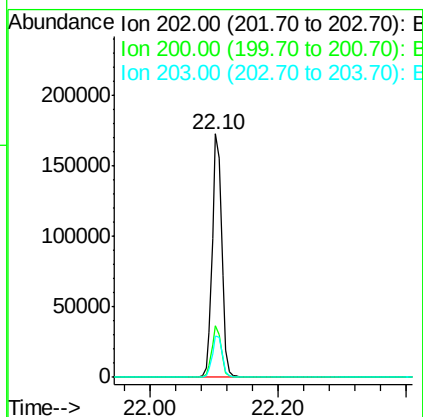
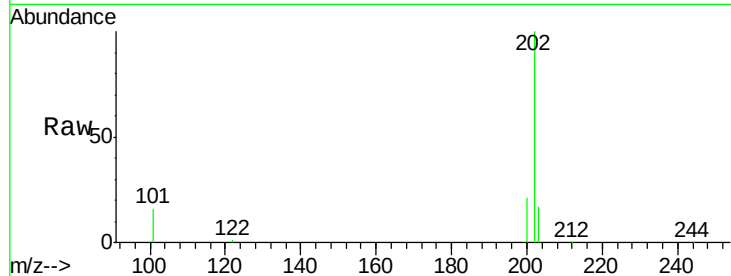




#17
 Pyrene
 Concen: 7.67 ng
 RT: 22.10 min Scan# 3765
 Delta R.T. -0.01 min
 Lab File: BE089542.D
 Acq: 7 Feb 2015 2:15

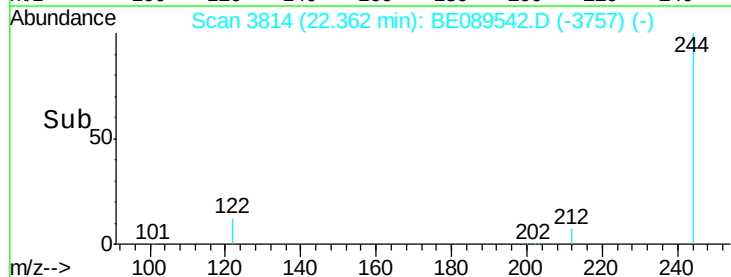
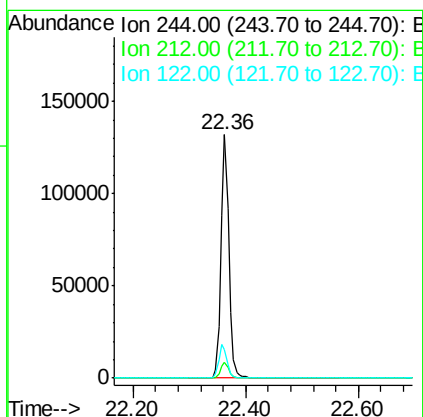
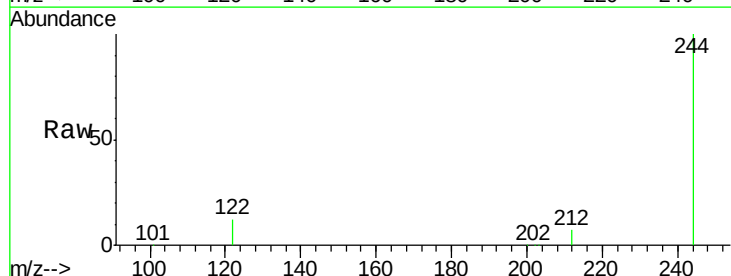
Instrument :
 BNA_E
 ClientSampleId :
 PB81635BS

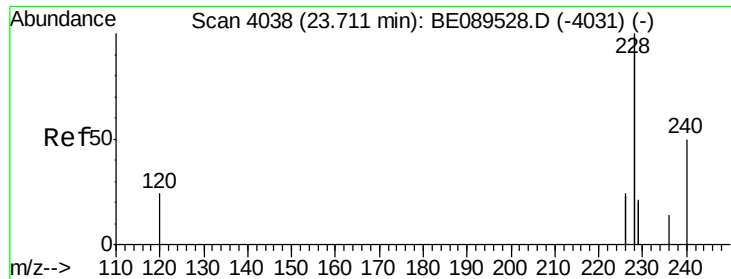
Tgt Ion: 202 Resp: 180348
 Ion Ratio Lower Upper
 202 100
 200 20.8 16.3 24.5
 203 17.8 13.5 20.3



#18
 Terphenyl-d14
 Concen: 8.74 ng
 RT: 22.36 min Scan# 3814
 Delta R.T. 0.00 min
 Lab File: BE089542.D
 Acq: 7 Feb 2015 2:15

Tgt Ion: 244 Resp: 127325
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.8 8.8
 122 11.9 12.6 19.0#





#19

Benzo(a)anthracene

Concen: 7.18 ng

RT: 23.71 min Scan# 4039

Delta R.T. -0.00 min

Lab File: BE089542.D

Acq: 7 Feb 2015 2:15

Instrument :

BNA_E

ClientSampleId :

PB81635BS

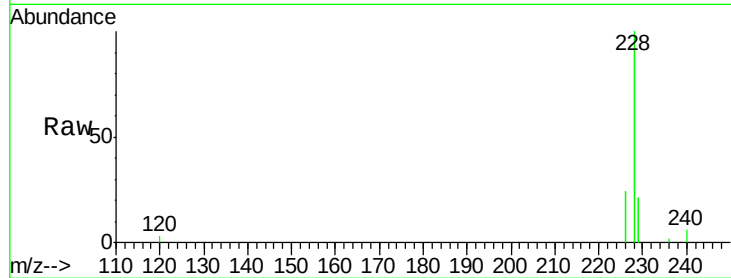
Tgt Ion:228 Resp: 705274

Ion Ratio Lower Upper

228 100

226 23.9 19.0 28.4

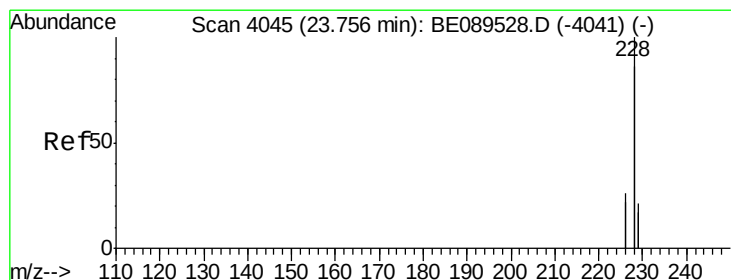
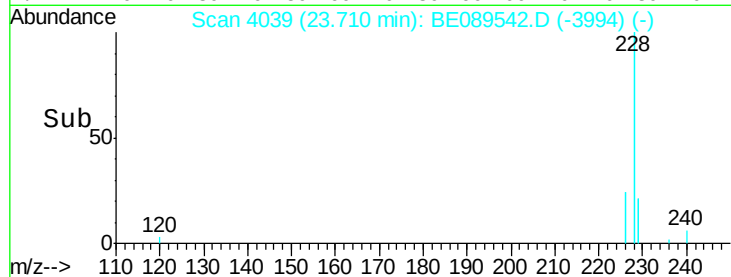
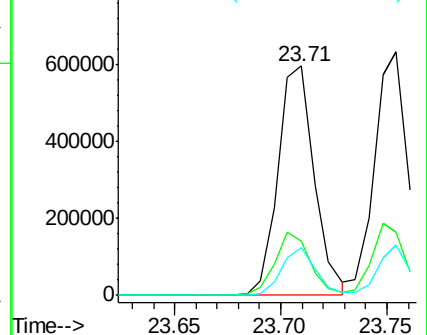
229 20.7 16.8 25.2



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: 7.47 ng

RT: 23.75 min Scan# 4046

Delta R.T. -0.00 min

Lab File: BE089542.D

Acq: 7 Feb 2015 2:15

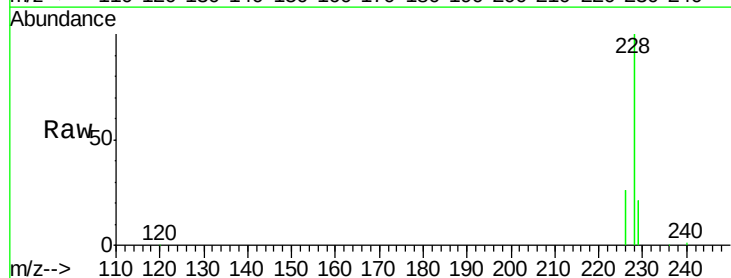
Tgt Ion:228 Resp: 744743

Ion Ratio Lower Upper

228 100

226 25.9 21.0 31.4

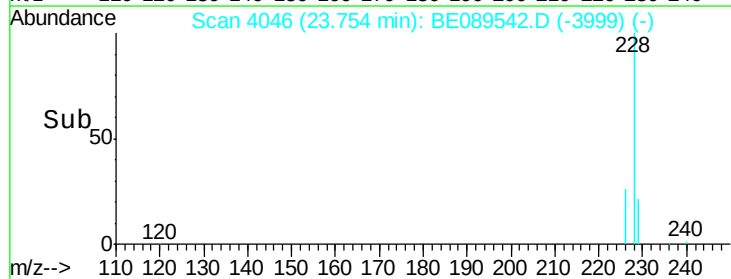
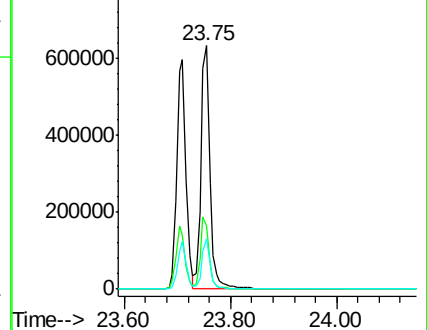
229 20.7 16.7 25.1

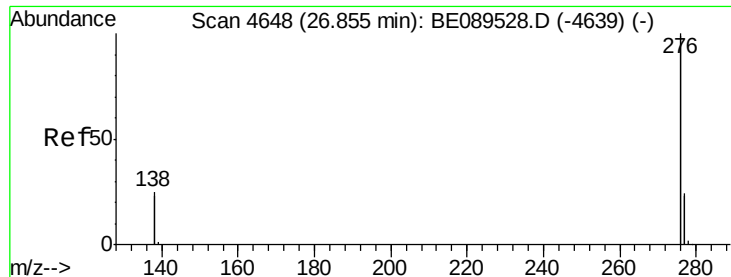


Abundance Ion 228.00 (227.70 to 228.70): E

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: 6.54 ng

RT: 26.85 min Scan# 4649

Delta R.T. 0.00 min

Lab File: BE089542.D

Acq: 7 Feb 2015 2:15

Instrument :

BNA_E

ClientSampleId :

PB81635BS

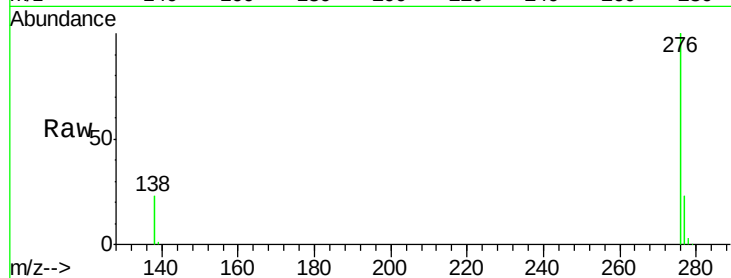
Tgt Ion:276 Resp: 906850

Ion Ratio Lower Upper

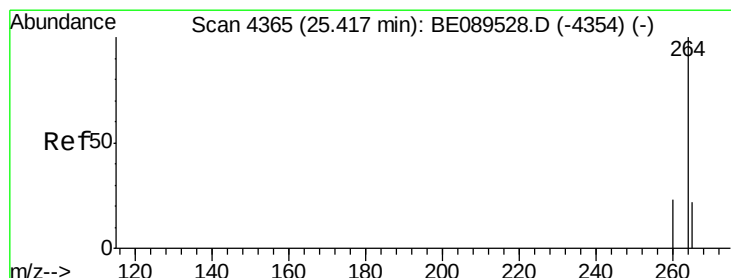
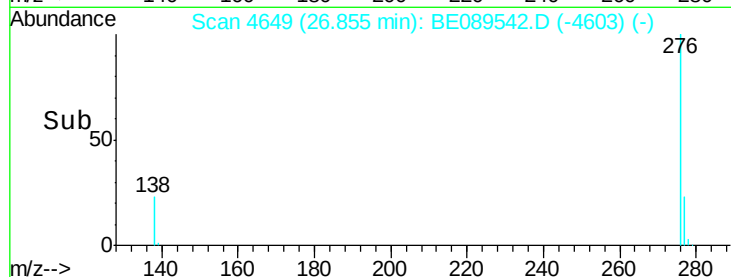
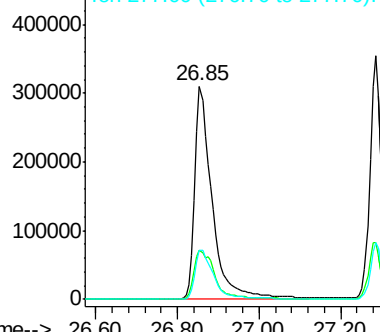
276 100

138 28.0 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# 4366

Delta R.T. -0.00 min

Lab File: BE089542.D

Acq: 7 Feb 2015 2:15

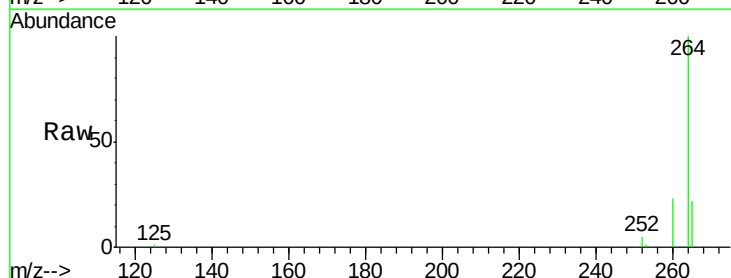
Tgt Ion:264 Resp: 114534

Ion Ratio Lower Upper

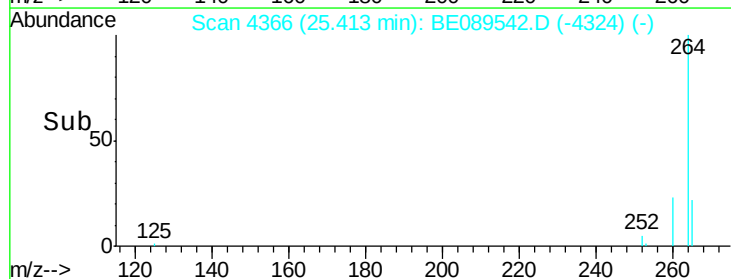
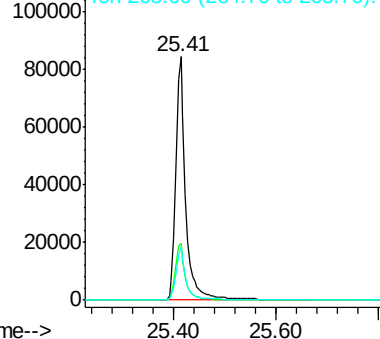
264 100

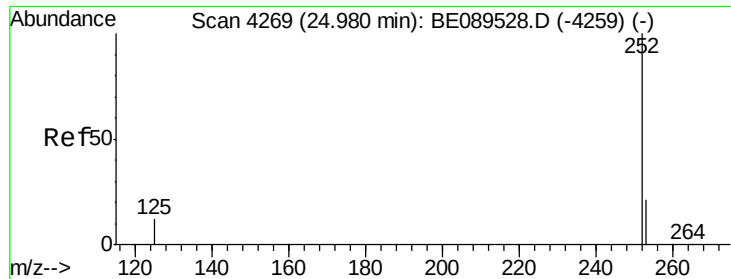
260 23.5 18.7 28.1

265 21.7 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

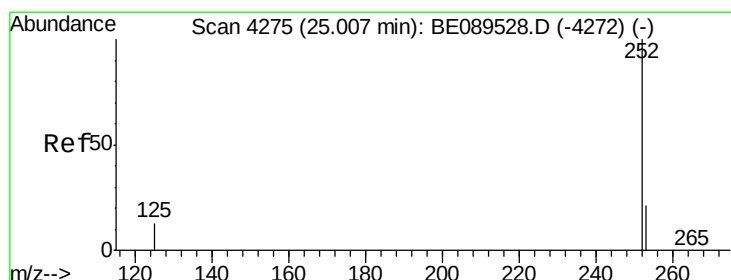
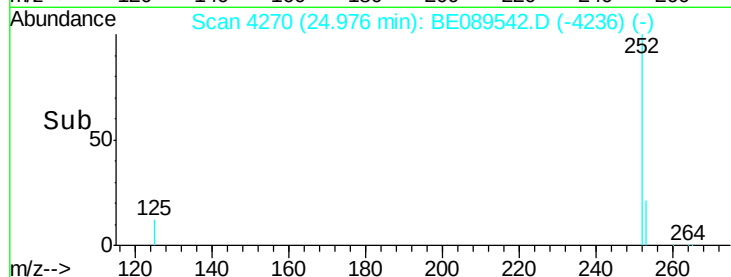
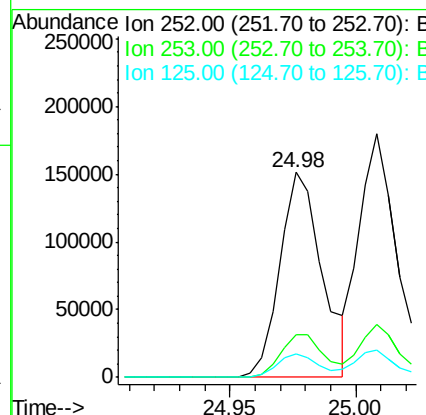
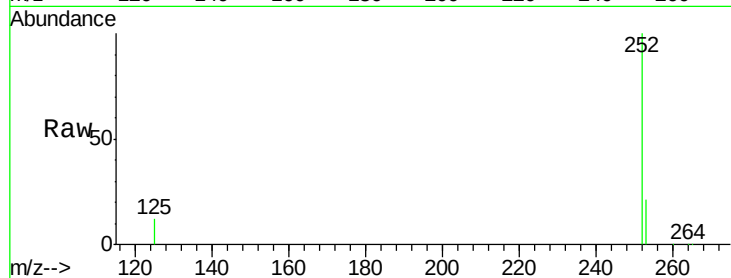




#23
Benzo(b)fluoranthene
Concen: 7.91 ng
RT: 24.98 min Scan# 4270
Delta R.T. -0.00 min
Lab File: BE089542.D
Acq: 7 Feb 2015 2:15

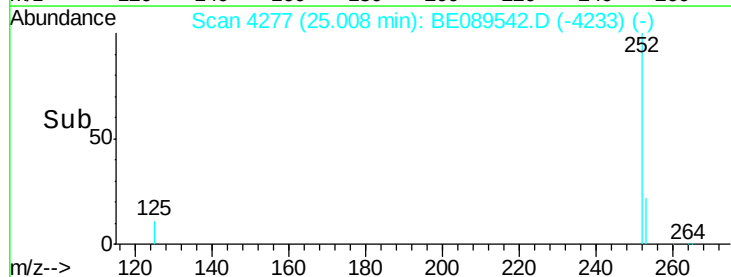
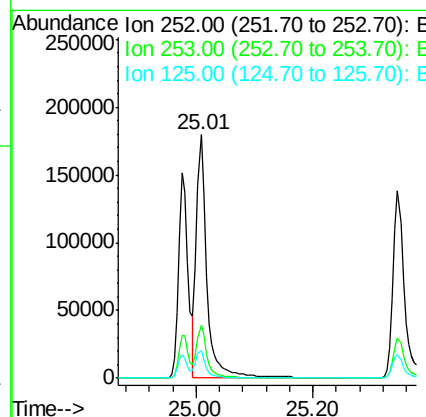
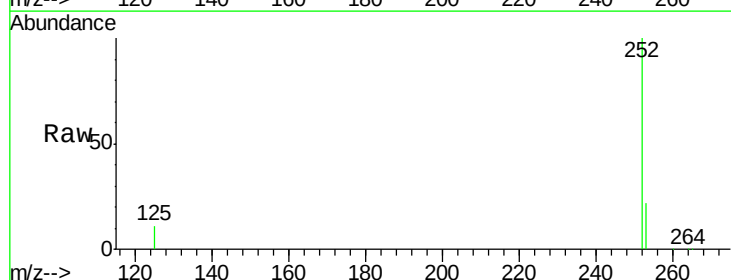
Instrument :
BNA_E
ClientSampleId :
PB81635BS

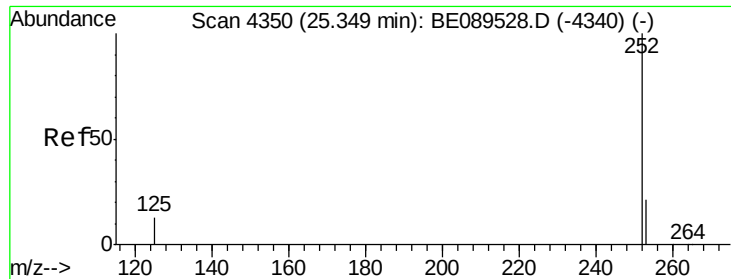
Tgt Ion: 252 Resp: 175993
Ion Ratio Lower Upper
252 100
253 21.1 17.4 26.0
125 11.7 10.4 15.6



#24
Benzo(k)fluoranthene
Concen: 7.72 ng
RT: 25.01 min Scan# 4277
Delta R.T. 0.00 min
Lab File: BE089542.D
Acq: 7 Feb 2015 2:15

Tgt Ion: 252 Resp: 213315
Ion Ratio Lower Upper
252 100
253 21.8 17.2 25.8
125 11.3 10.6 15.8





#25

Benzo(a)pyrene

Concen: 7.95 ng

RT: 25.35 min Scan# 4351

Delta R.T. -0.00 min

Lab File: BE089542.D

Acq: 7 Feb 2015 2:15

Instrument :

BNA_E

ClientSampleId :

PB81635BS

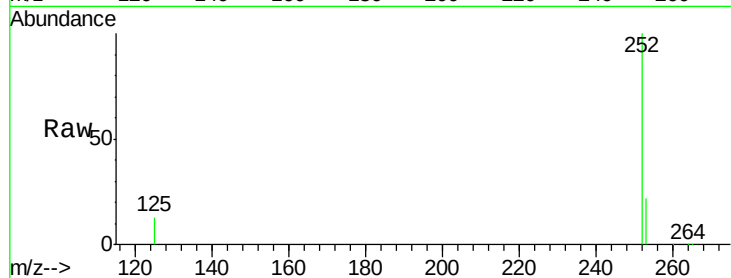
Tgt Ion: 252 Resp: 175766

Ion Ratio Lower Upper

252 100

253 21.7 17.8 26.6

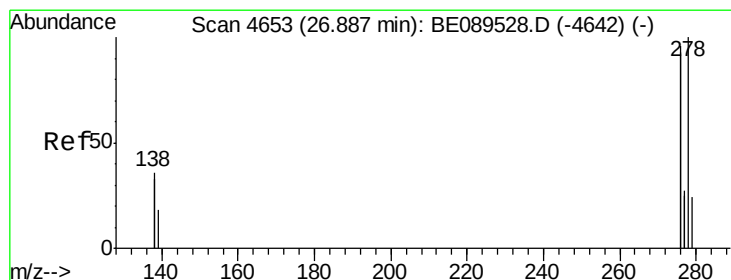
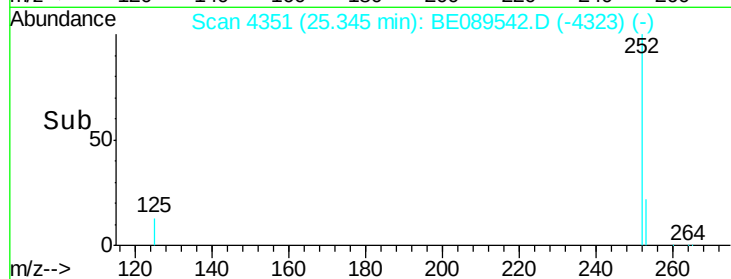
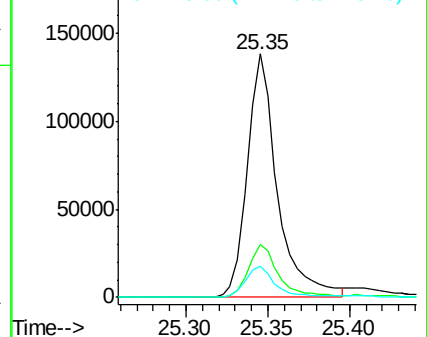
125 12.7 11.4 17.2



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: 7.39 ng

RT: 26.89 min Scan# 4654

Delta R.T. 0.00 min

Lab File: BE089542.D

Acq: 7 Feb 2015 2:15

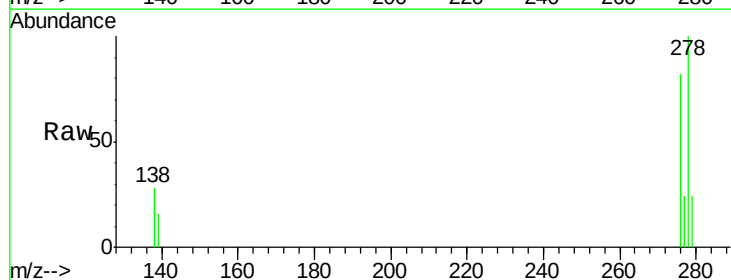
Tgt Ion: 278 Resp: 200790

Ion Ratio Lower Upper

278 100

139 15.6 15.7 23.5#

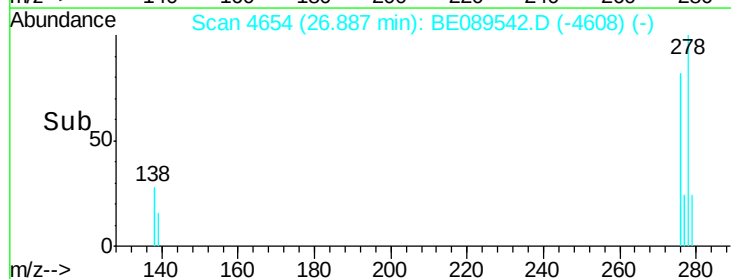
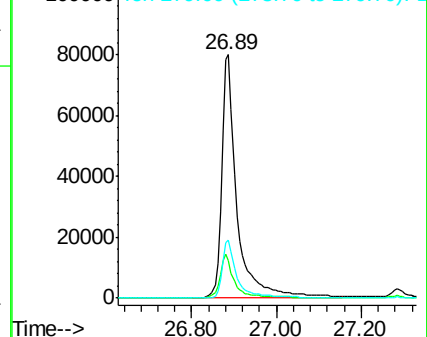
279 23.9 19.5 29.3

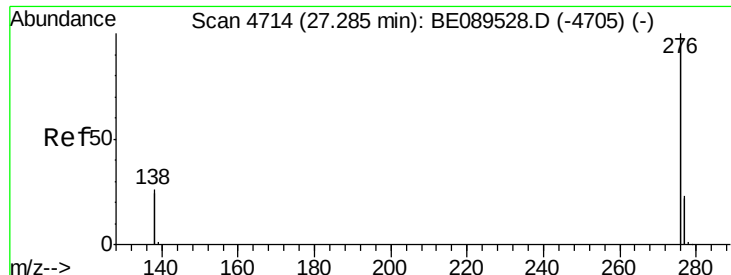


Abundance Ion 278.00 (277.70 to 278.70): E

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: 7.15 ng

RT: 27.28 min Scan# 4715

Delta R.T. 0.00 min

Lab File: BE089542.D

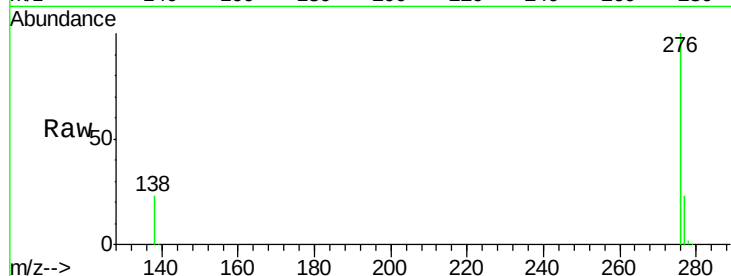
Acq: 7 Feb 2015 2:15

Instrument :

BNA_E

ClientSampleId :

PB81635BS



Tgt Ion: 276 Resp: 792487

Ion Ratio Lower Upper

276 100

277 23.4 18.6 27.8

138 23.3 20.9 31.3

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

