

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089686.D
 Acq On : 25 Feb 2015 2:41
 Operator : TP/JJ
 Sample : PB81861BSD
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81861BSD

Quant Time: Feb 25 06:23:55 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 04:05:13 2015
 Response via : Initial Calibration

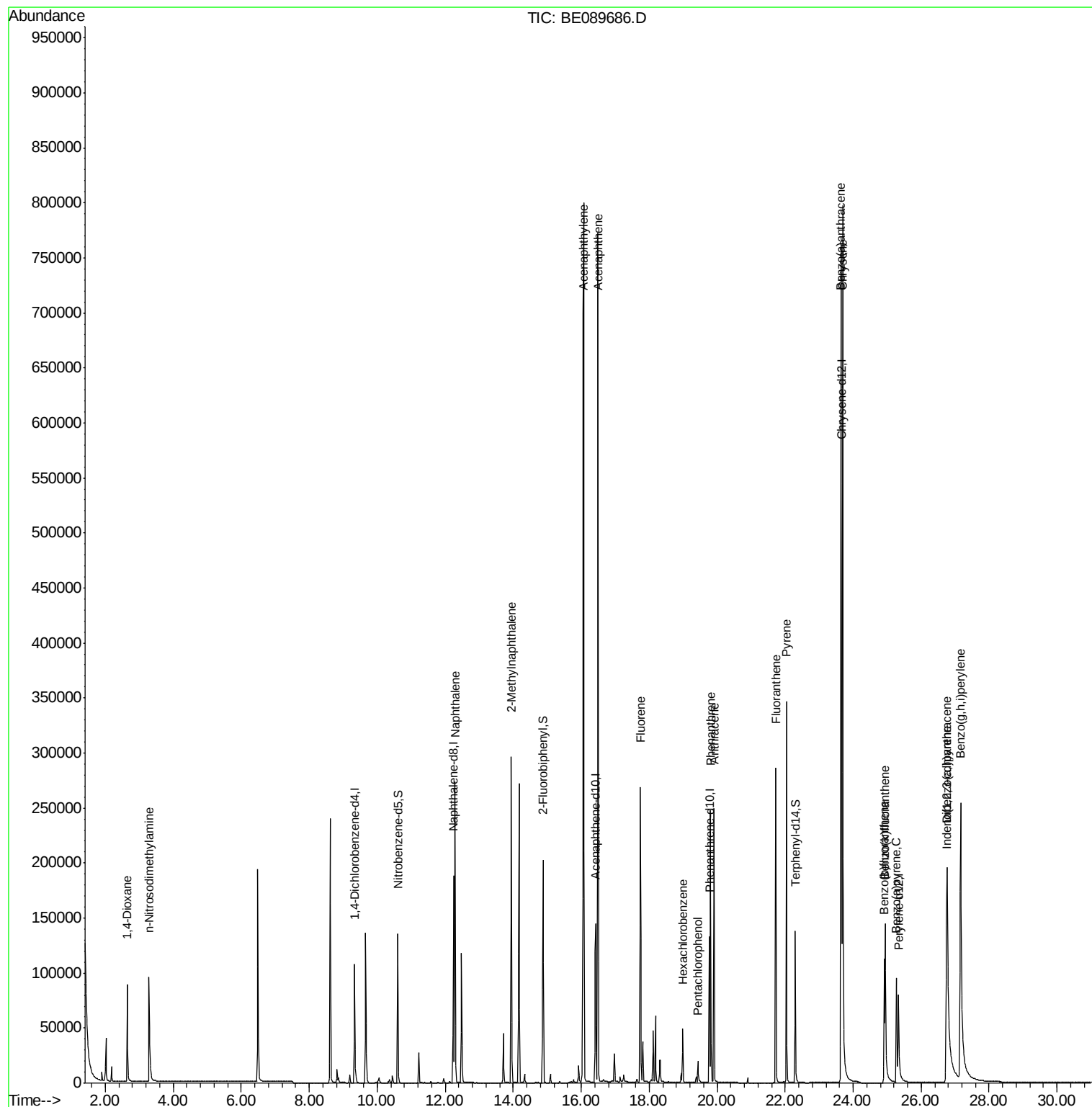
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	44007	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	200041	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	89285	5.00	ng	0.01
13) Phenanthrene-d10	19.77	188	137797	5.00	ng	0.00
19) Chrysene-d12	23.66	240	106690	5.00	ng	0.00
25) Perylene-d12	25.34	264	83673	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	90325	7.63	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	181690	9.15	ng	0.00
21) Terphenyl-d14	22.30	244	121838	9.74	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.64	88	50166	9.10	ng	97
3) n-Nitrosodimethylamine	3.28	42	64751	8.79	ng	# 92
6) Naphthalene	12.29	128	301601	7.79	ng	100
7) 2-Methylnaphthalene	13.94	142	185979	8.46	ng	96
10) Acenaphthylene	16.07	152	1068472	8.34	ng	100
11) Acenaphthene	16.49	154	156263	7.69	ng	98
12) Fluorene	17.74	166	174152	7.73	ng	100
14) Hexachlorobenzene	18.99	284	29915	8.39	ng	97
15) Pentachlorophenol	19.43	266	15893	12.38	ng	91
16) Phenanthrene	19.81	178	228153	7.76	ng	100
17) Anthracene	19.91	178	227744	9.10	ng	100
18) Fluoranthene	21.72	202	202185	8.24	ng	99
20) Pyrene	22.04	202	222639	8.63	ng	99
22) Benzo(a)anthracene	23.64	228	636305	9.07	ng	99
23) Chrysene	23.69	228	747715	7.73	ng	96
24) Indeno(1,2,3-cd)pyrene	26.75	276	493948	8.03	ng	# 46
26) Benzo(b)fluoranthene	24.91	252	94716	7.08	ng	97
27) Benzo(k)fluoranthene	24.94	252	192852	7.98	ng	98
28) Benzo(a)pyrene	25.27	252	108634	6.78	ng	96
29) Dibenzo(a,h)anthracene	26.77	278	97630	7.83	ng	# 88
30) Benzo(g,h,i)perylene	27.16	276	480504	8.15	ng	94

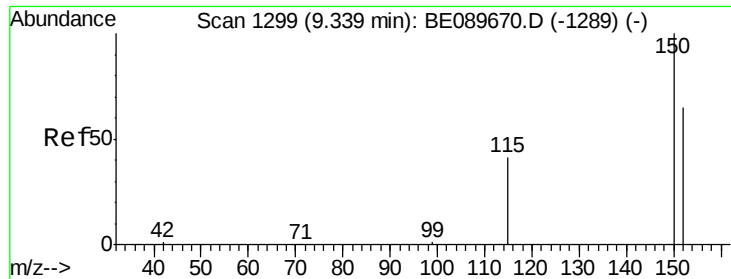
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

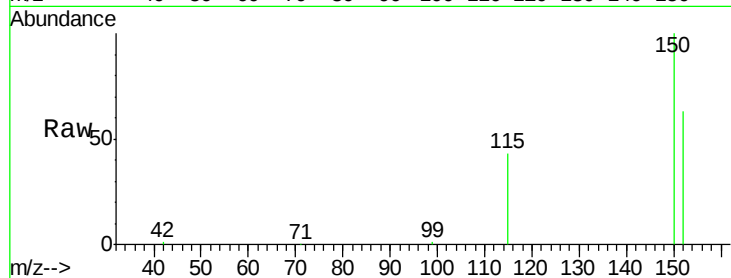
Tgt Ion:152 Resp: 44007

Ion Ratio Lower Upper

152 100

150 158.0 123.4 185.0

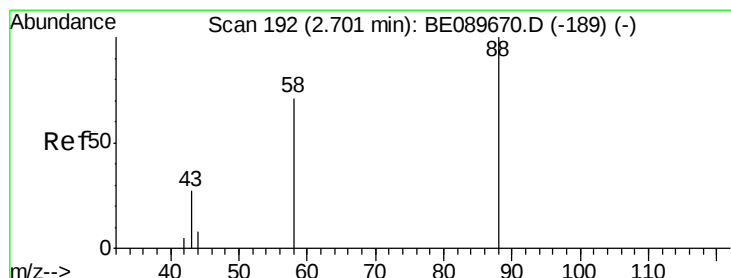
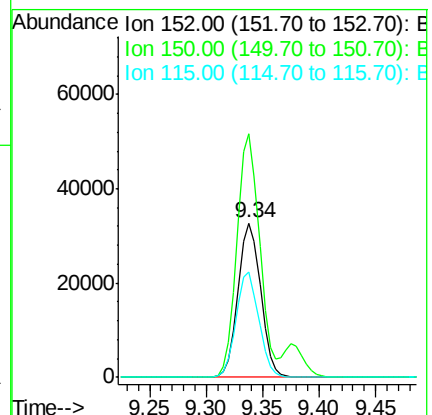
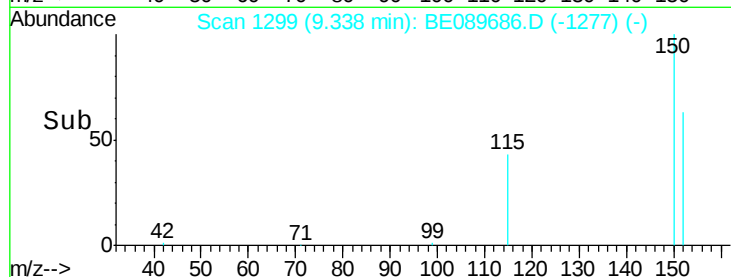
115 68.0 50.8 76.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 9.10 ng

RT: 2.64 min Scan# 183

Delta R.T. -0.06 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

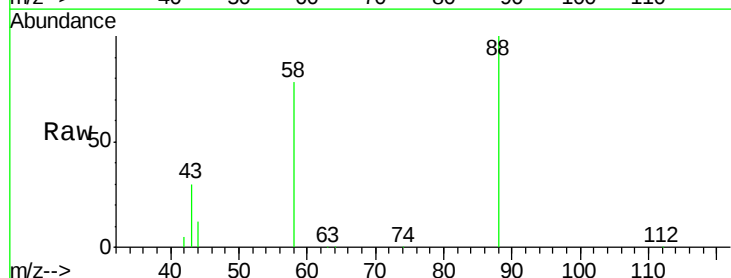
Tgt Ion: 88 Resp: 50166

Ion Ratio Lower Upper

88 100

58 81.4 62.4 93.6

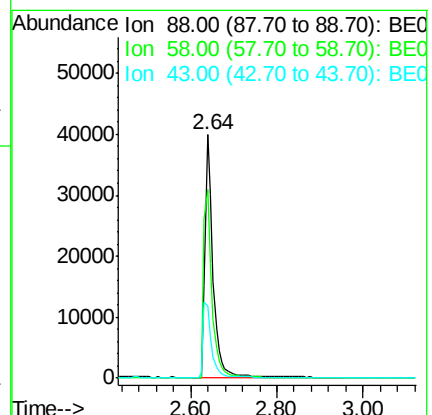
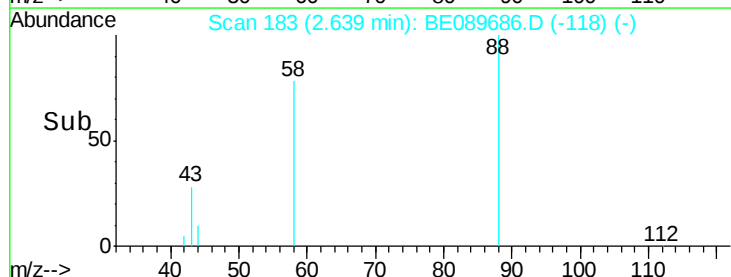
43 32.6 26.6 40.0

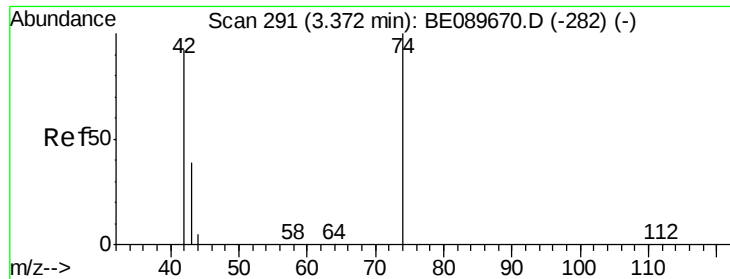


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



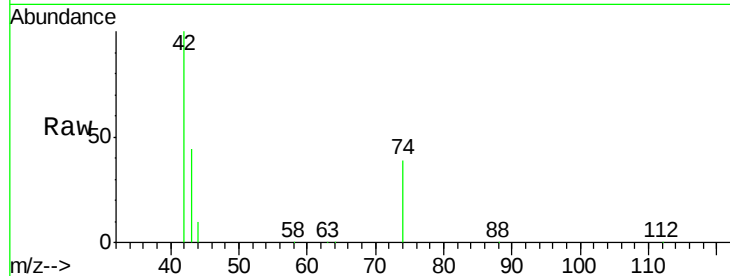


#3

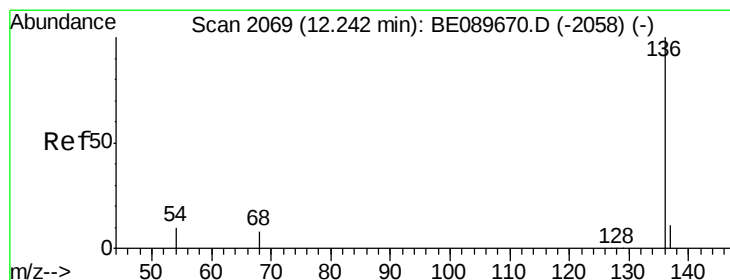
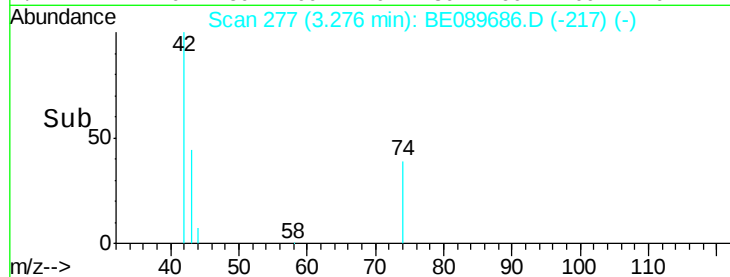
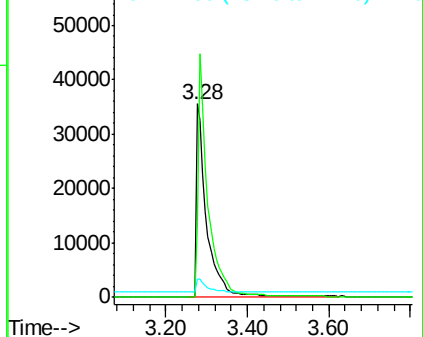
n-Nitrosodimethylamine
 Concen: 8.79 ng
 RT: 3.28 min Scan# 277
 Delta R.T. -0.10 min
 Lab File: BE089686.D
 Acq: 25 Feb 2015 2:41

Instrument :
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 ClientSampleId :
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Tgt Ion: 42 Resp: 64751
 Ion Ratio Lower Upper
 42 100
 74 122.9 91.1 136.7
 44 7.3 4.7 7.1#



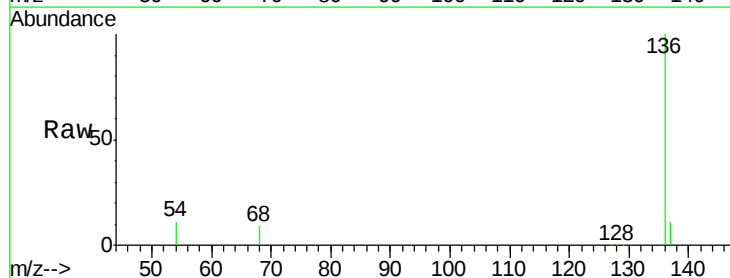
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



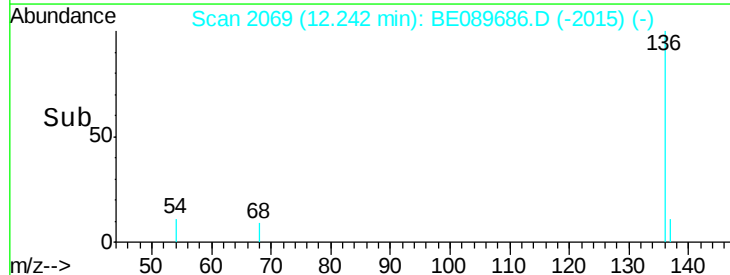
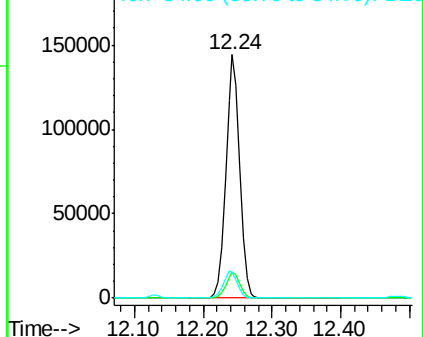
#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. 0.00 min
 Lab File: BE089686.D
 Acq: 25 Feb 2015 2:41

Tgt Ion: 136 Resp: 200041
 Ion Ratio Lower Upper
 136 100
 137 10.9 8.7 13.1
 54 10.7 7.8 11.8



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





#5

Nitrobenzene-d5

Concen: 7.63 ng

RT: 10.60 min Scan# 1667

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

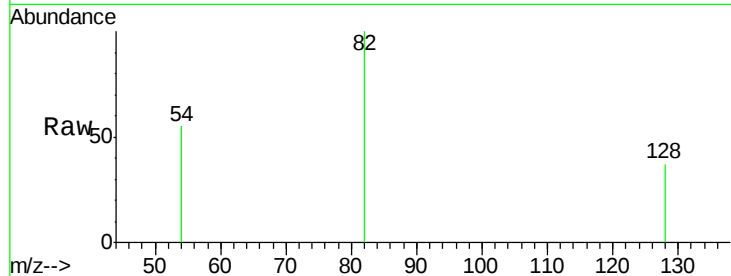
Tgt Ion: 82 Resp: 90325

Ion Ratio Lower Upper

82 100

128 37.2 30.6 46.0

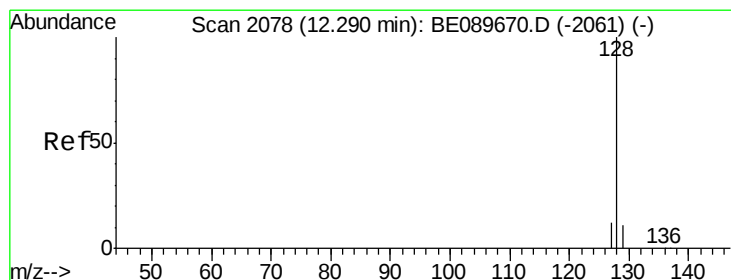
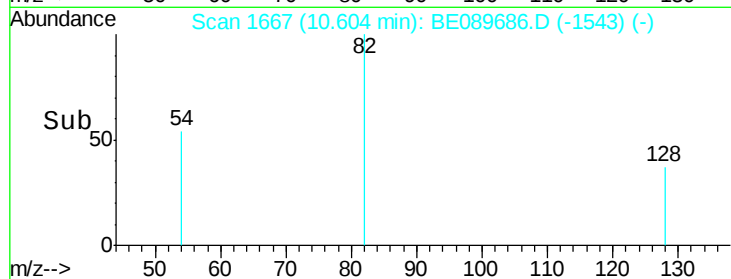
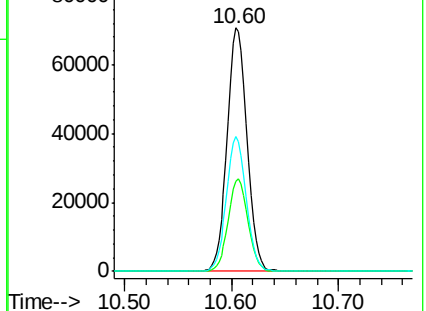
54 55.2 43.6 65.4



Abundance Ion 82.00 (81.70 to 82.70): BE089670.D (-1645) (-)

Ion 128.00 (127.70 to 128.70): BE089670.D (-1645) (-)

Ion 54.00 (53.70 to 54.70): BE089670.D (-1645) (-)



#6

Naphthalene

Concen: 7.79 ng

RT: 12.29 min Scan# 2078

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

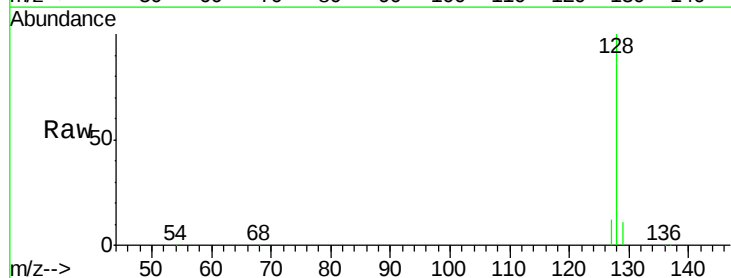
Tgt Ion: 128 Resp: 301601

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

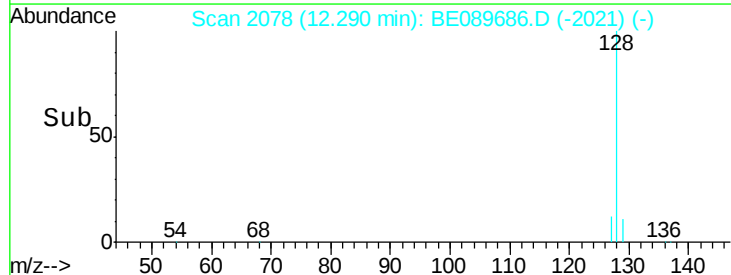
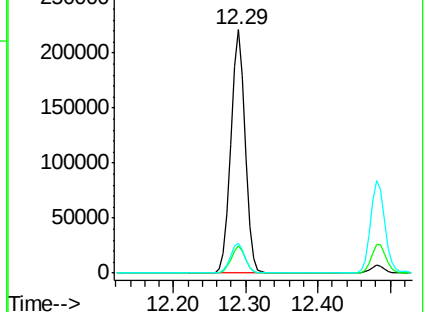
127 12.4 9.7 14.5



Abundance Ion 128.00 (127.70 to 128.70): BE089670.D (-2061) (-)

Ion 129.00 (128.70 to 129.70): BE089670.D (-2061) (-)

Ion 127.00 (126.70 to 127.70): BE089670.D (-2061) (-)





#7

2-Methylnaphthalene

Concen: 8.46 ng

RT: 13.94 min Scan# 2416

Delta R.T. -0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

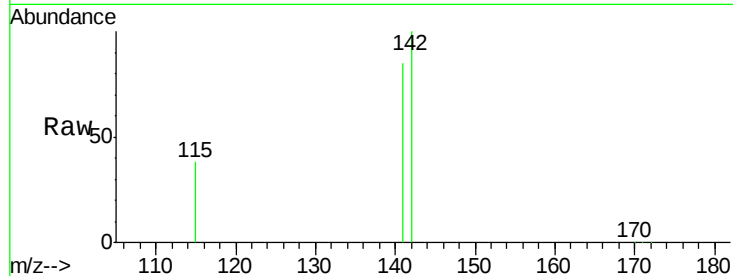
Tgt Ion:142 Resp: 185979

Ion Ratio Lower Upper

142 100

141 85.3 66.0 99.0

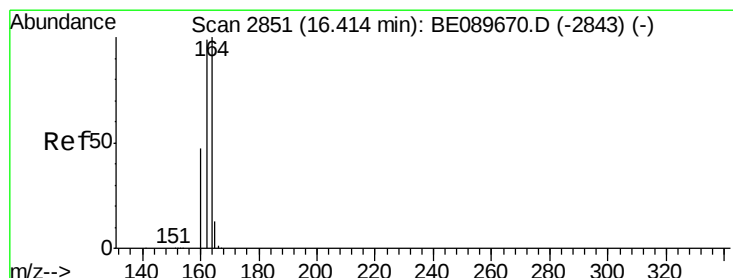
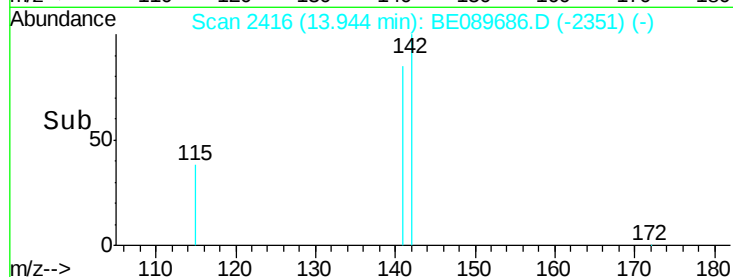
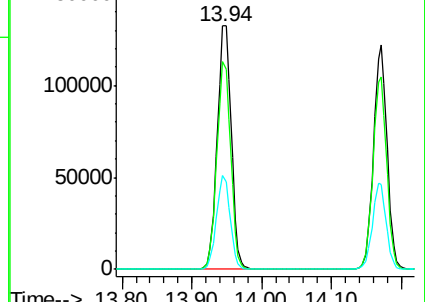
115 38.5 27.4 41.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2852

Delta R.T. 0.01 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

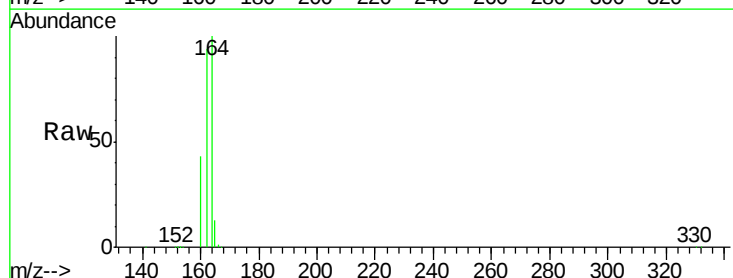
Tgt Ion:164 Resp: 89285

Ion Ratio Lower Upper

164 100

162 93.8 79.4 119.2

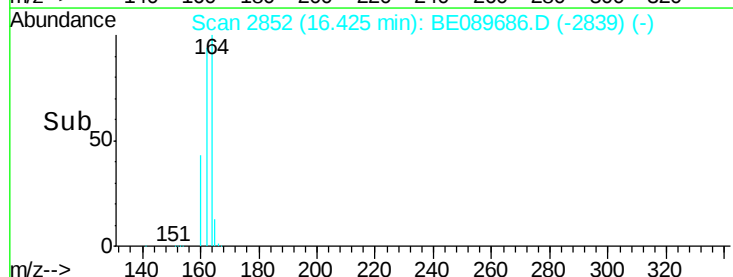
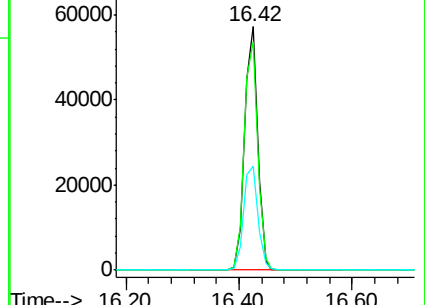
160 42.9 37.6 56.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 9.15 ng

RT: 14.88 min Scan# 2621

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

Instrument :

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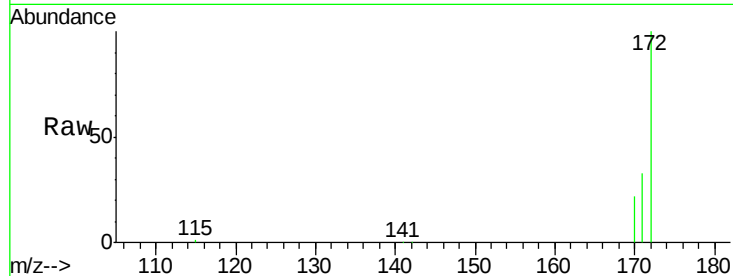
Tgt Ion:172 Resp: 181690

Ion Ratio Lower Upper

172 100

171 32.9 27.3 40.9

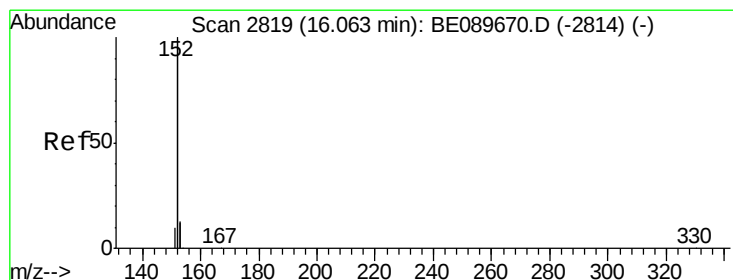
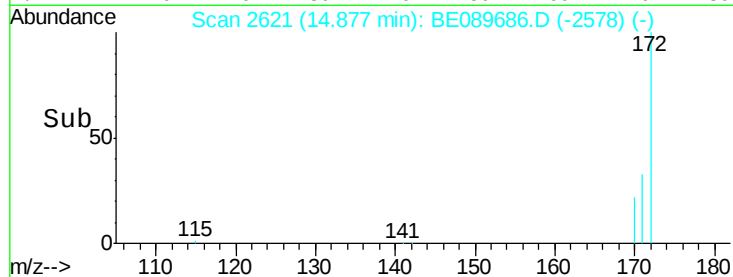
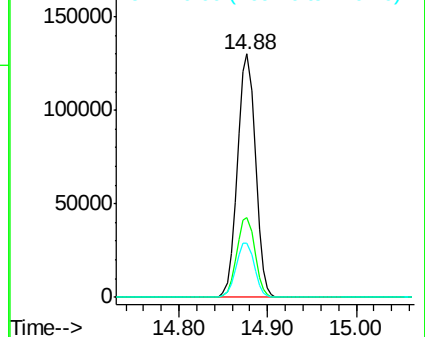
170 22.4 18.5 27.7



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#10

Acenaphthylene

Concen: 8.34 ng

RT: 16.07 min Scan# 2820

Delta R.T. 0.01 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

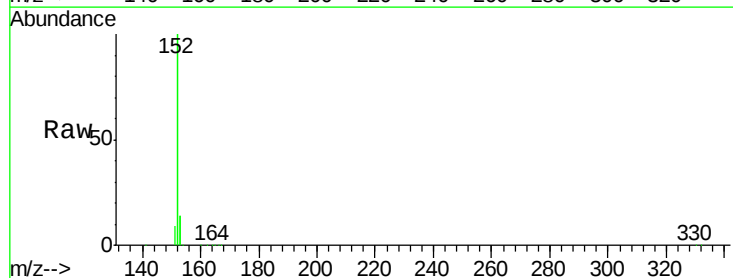
Tgt Ion:152 Resp: 1068472

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.6

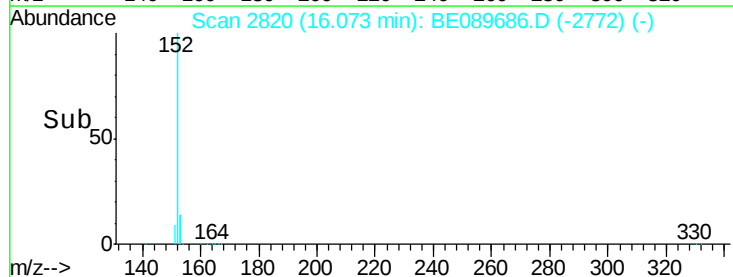
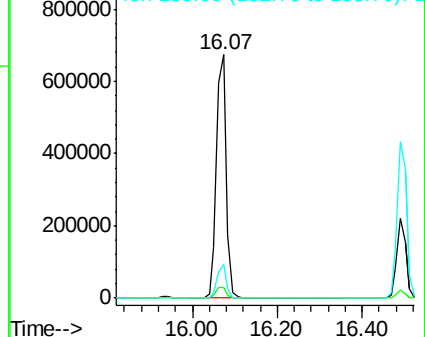
153 13.1 10.4 15.6

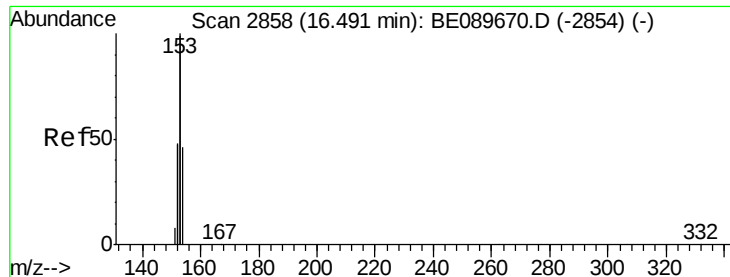


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 7.69 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

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PB81861BSD

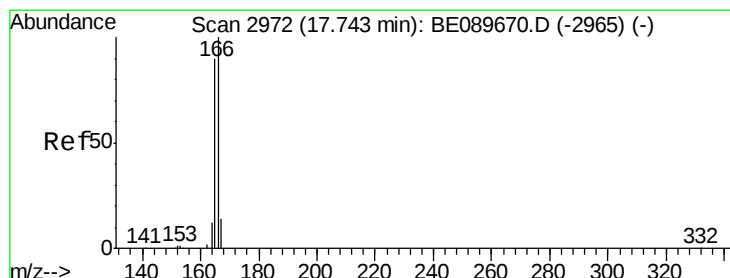
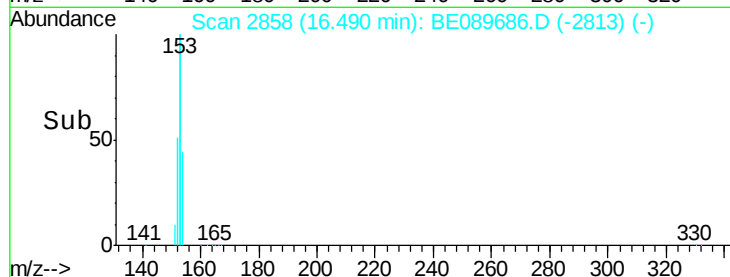
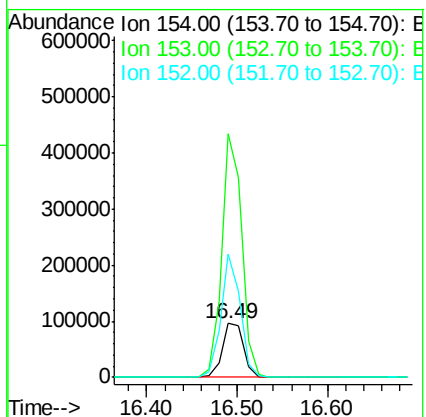
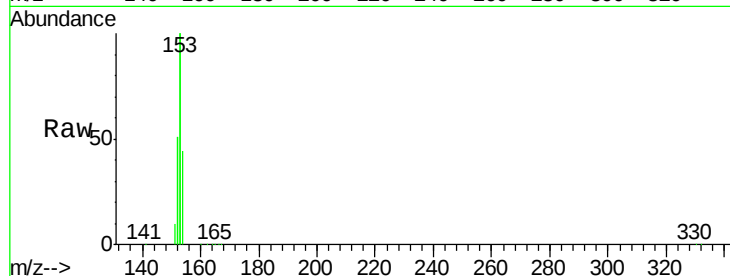
Tgt Ion:154 Resp: 156263

Ion Ratio Lower Upper

154 100

153 426.8 345.8 518.8

152 207.2 168.6 252.8



#12

Fluorene

Concen: 7.73 ng

RT: 17.74 min Scan# 2972

Delta R.T. -0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

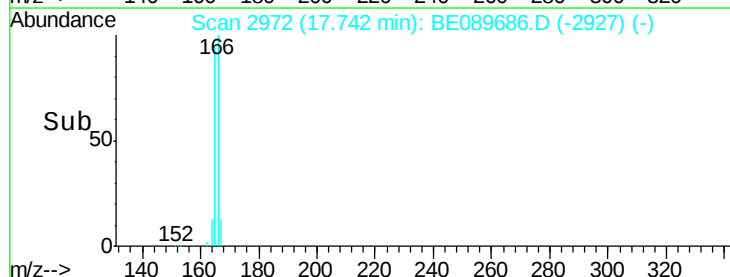
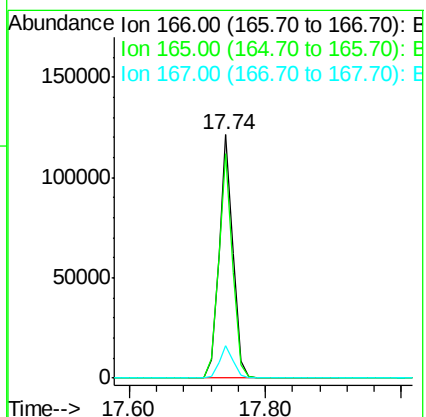
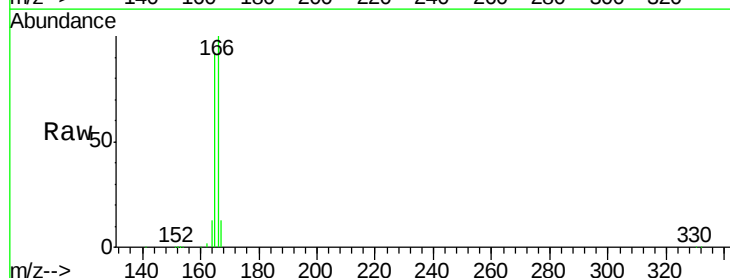
Tgt Ion:166 Resp: 174152

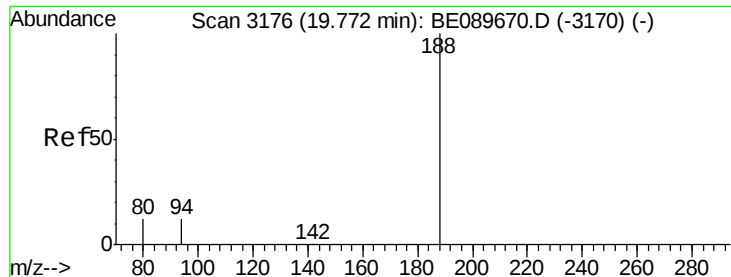
Ion Ratio Lower Upper

166 100

165 92.2 73.6 110.4

167 13.3 10.6 16.0

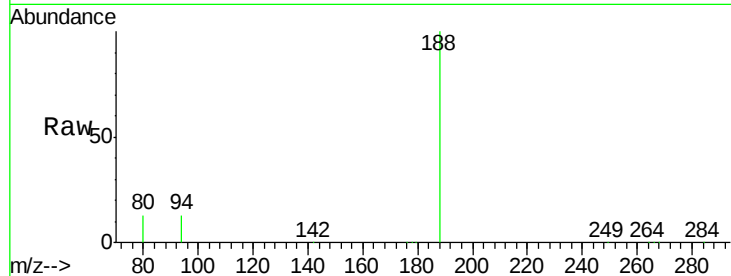




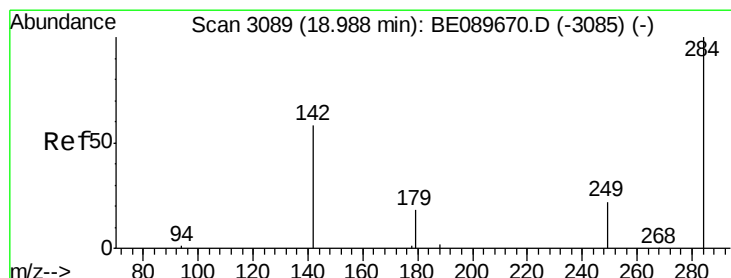
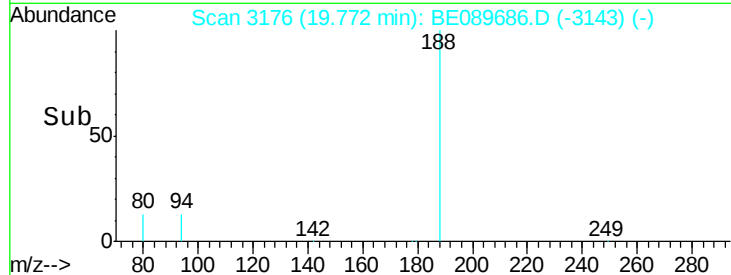
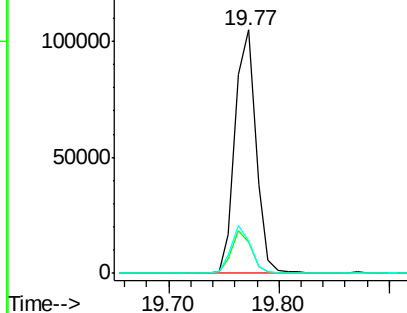
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. 0.00 min
Lab File: BE089686.D
Acq: 25 Feb 2015 2:41

Instrument :
BNA_E
ClientSampleId :
PB81861BSD

Tgt Ion:188 Resp: 137797
Ion Ratio Lower Upper
188 100
94 12.8 9.4 14.2
80 13.1 9.5 14.3

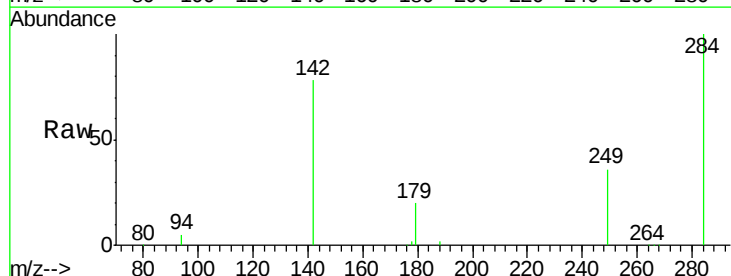


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

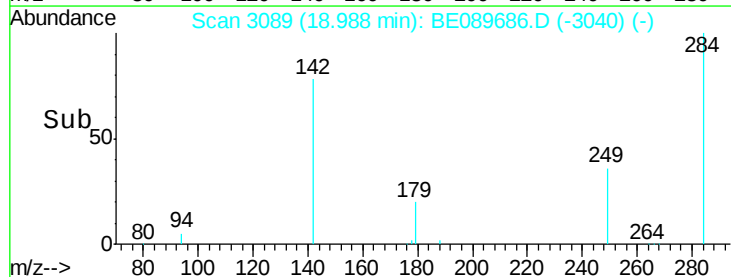
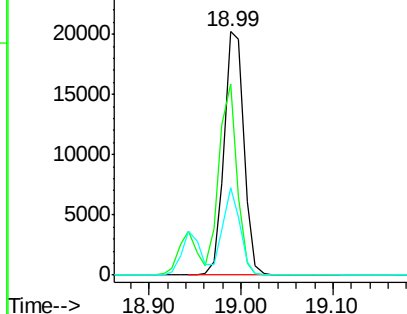


#14
Hexachlorobenzene
Concen: 8.39 ng
RT: 18.99 min Scan# 3089
Delta R.T. 0.00 min
Lab File: BE089686.D
Acq: 25 Feb 2015 2:41

Tgt Ion:284 Resp: 29915
Ion Ratio Lower Upper
284 100
142 71.6 55.4 83.2
249 32.0 27.2 40.8



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

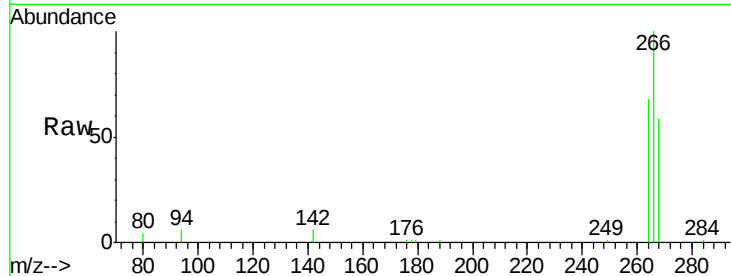




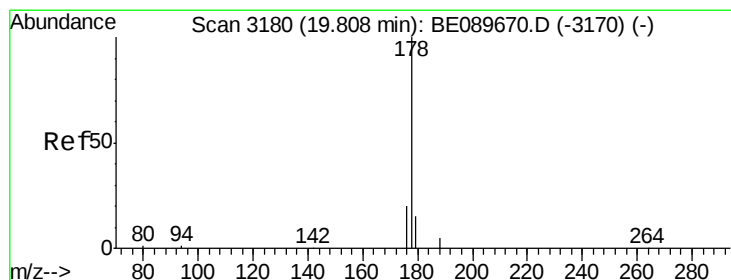
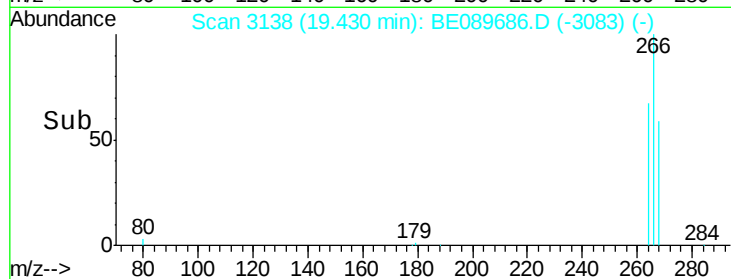
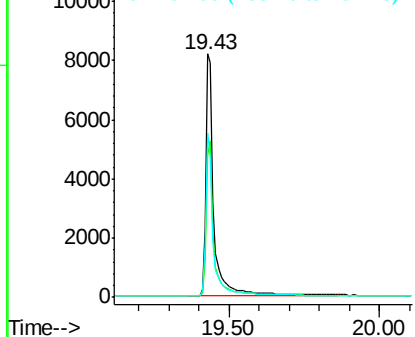
#15
 Pentachlorophenol
 Concen: 12.38 ng
 RT: 19.43 min Scan# 3138
 Delta R.T. -0.01 min
 Lab File: BE089686.D
 Acq: 25 Feb 2015 2:41

Instrument :
 BNA_E
 ClientSampleId :
 PB81861BSD

Tgt Ion: 266 Resp: 15893
 Ion Ratio Lower Upper
 266 100
 268 58.8 56.3 84.5
 264 67.5 51.8 77.8

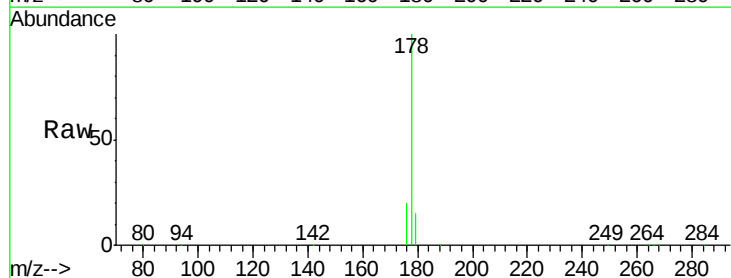


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

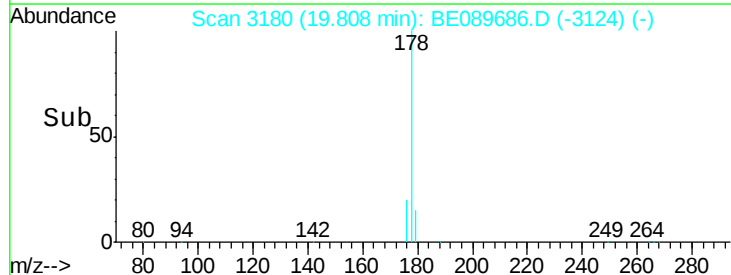
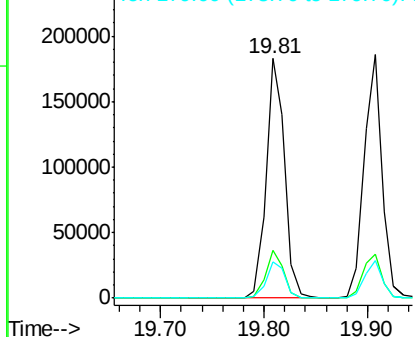


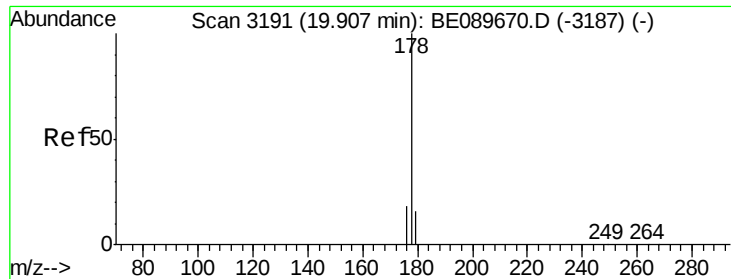
#16
 Phenanthrene
 Concen: 7.76 ng
 RT: 19.81 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: BE089686.D
 Acq: 25 Feb 2015 2:41

Tgt Ion: 178 Resp: 228153
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.3 22.9
 179 15.4 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 9.10 ng

RT: 19.91 min Scan# 3191

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

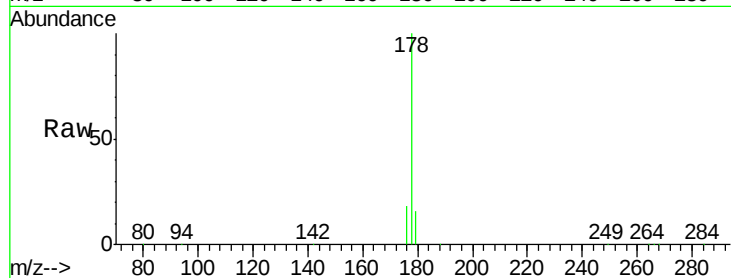
Tgt Ion:178 Resp: 227744

Ion Ratio Lower Upper

178 100

176 18.7 14.8 22.2

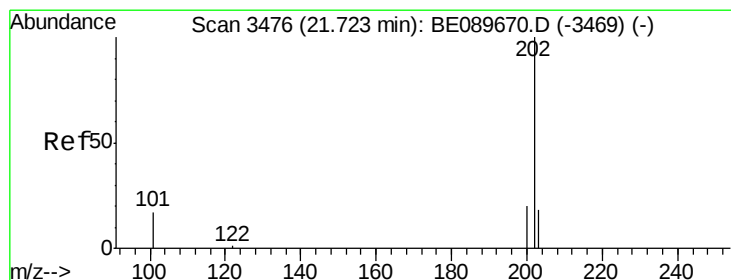
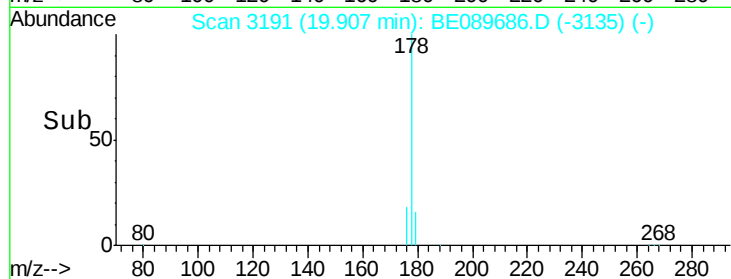
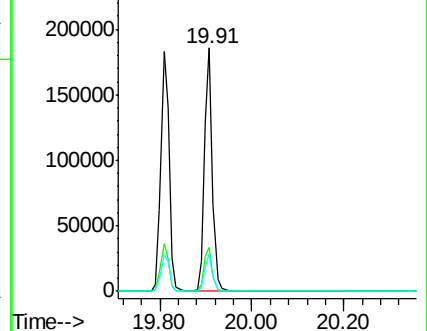
179 15.1 12.2 18.2



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



#18

Fluoranthene

Concen: 8.24 ng

RT: 21.72 min Scan# 3476

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

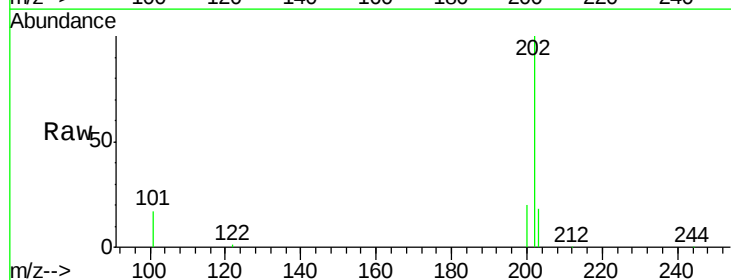
Tgt Ion:202 Resp: 202185

Ion Ratio Lower Upper

202 100

101 19.4 14.9 22.3

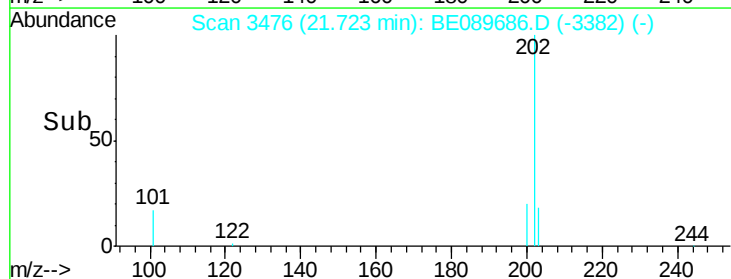
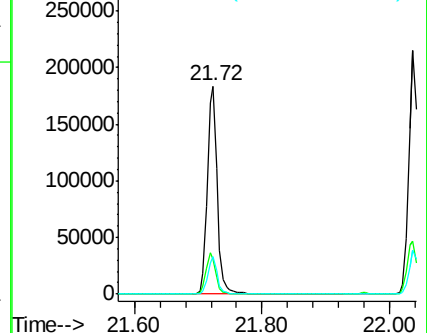
203 17.3 13.8 20.6

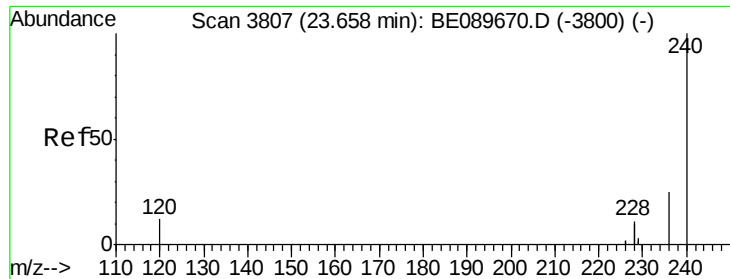


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3807

Delta R.T. -0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

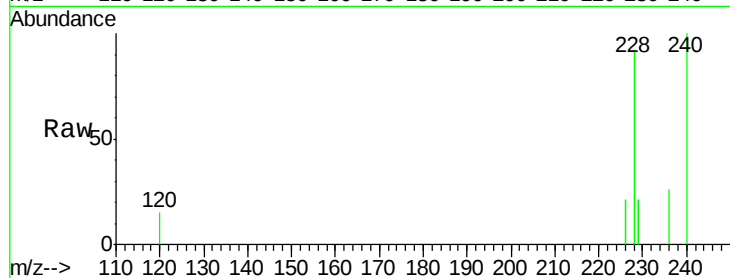
Tgt Ion:240 Resp: 106690

Ion Ratio Lower Upper

240 100

120 15.1 9.4 14.0#

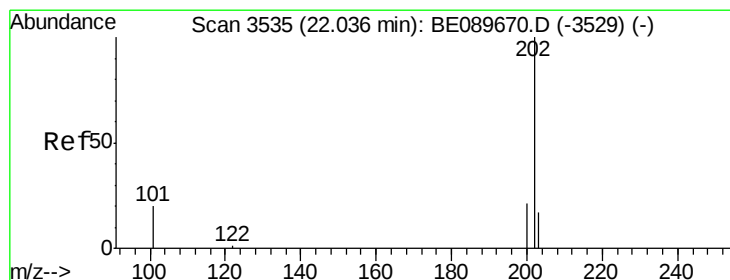
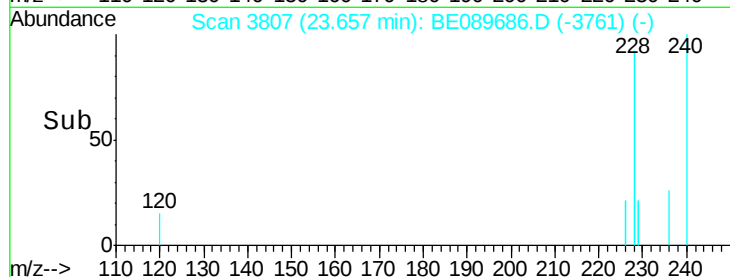
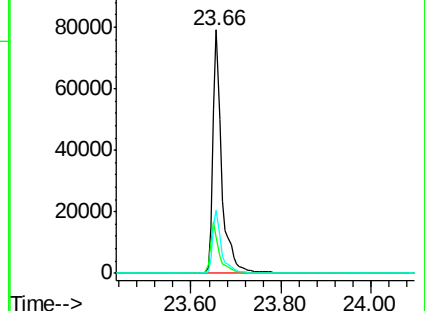
236 26.0 19.9 29.9



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 8.63 ng

RT: 22.04 min Scan# 3535

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

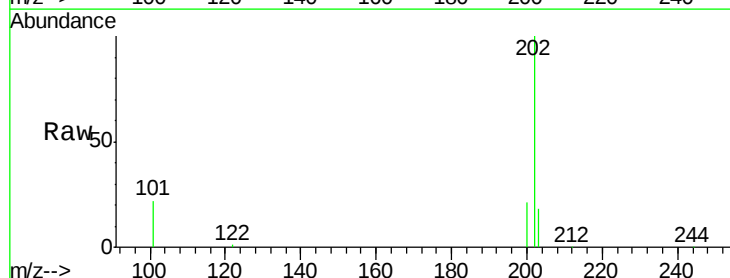
Tgt Ion:202 Resp: 222639

Ion Ratio Lower Upper

202 100

200 20.8 16.4 24.6

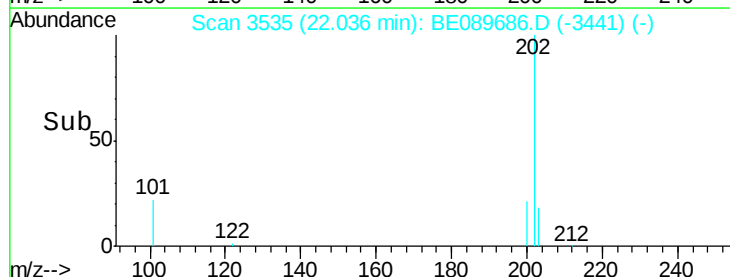
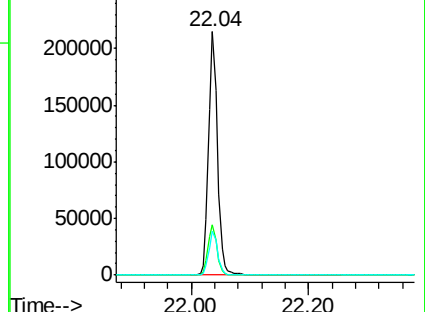
203 18.0 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 9.74 ng

RT: 22.30 min Scan# 3585

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

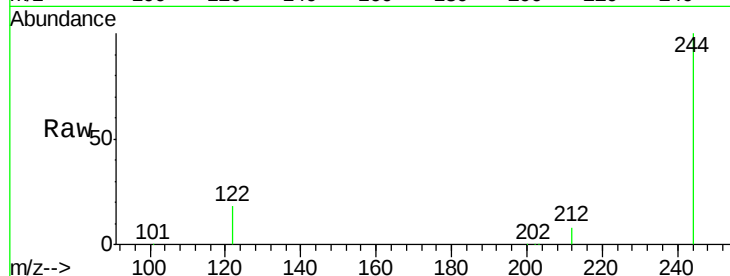
Tgt Ion:244 Resp: 121838

Ion Ratio Lower Upper

244 100

212 8.1 7.0 10.6

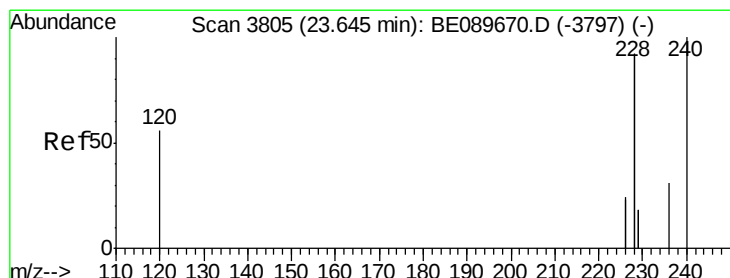
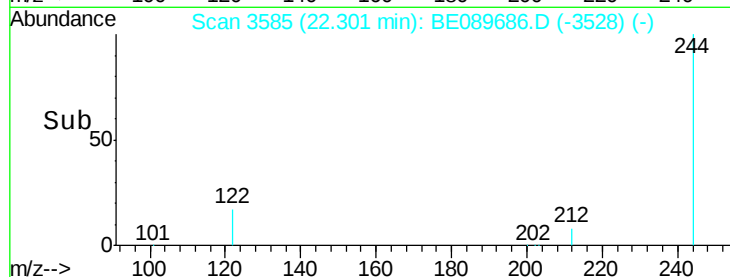
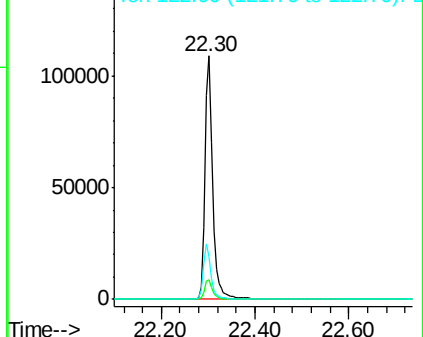
122 17.6 15.4 23.0



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 9.07 ng

RT: 23.64 min Scan# 3805

Delta R.T. -0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

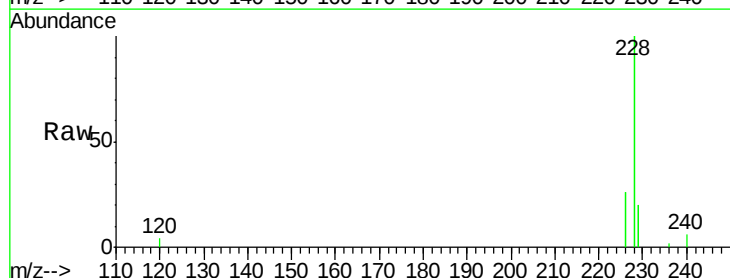
Tgt Ion:228 Resp: 636305

Ion Ratio Lower Upper

228 100

226 25.6 20.6 31.0

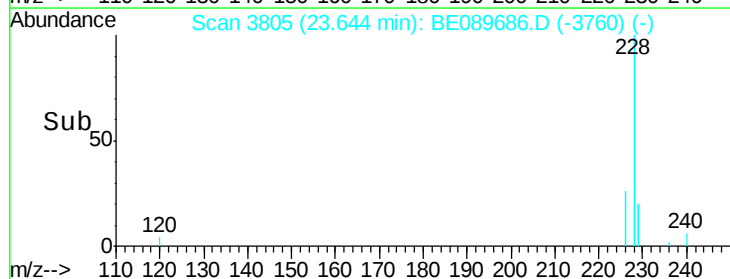
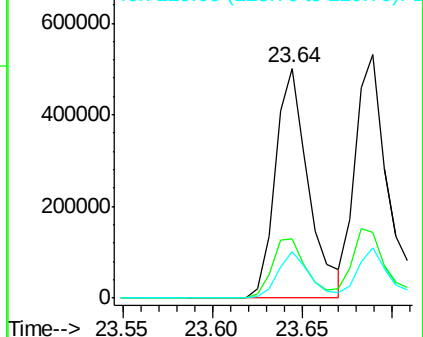
229 20.3 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 7.73 ng

RT: 23.69 min Scan# 3812

Delta R.T. 0.01 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

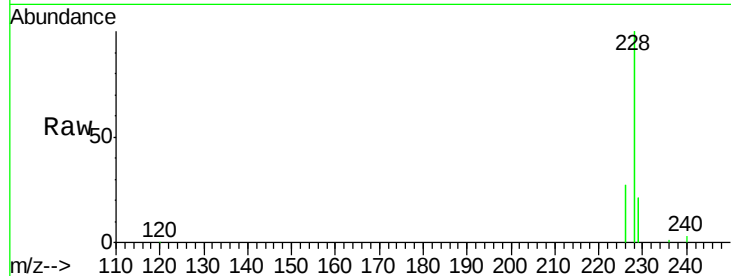
Tgt Ion:228 Resp: 747715

Ion Ratio Lower Upper

228 100

226 27.0 23.6 35.4

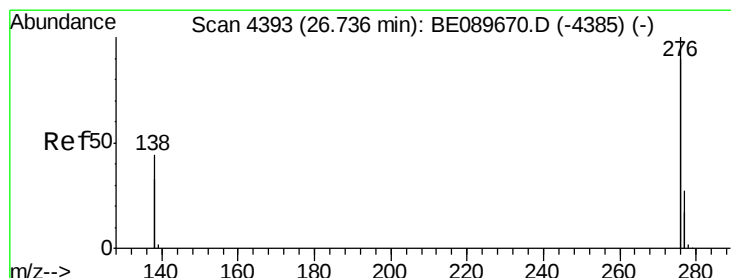
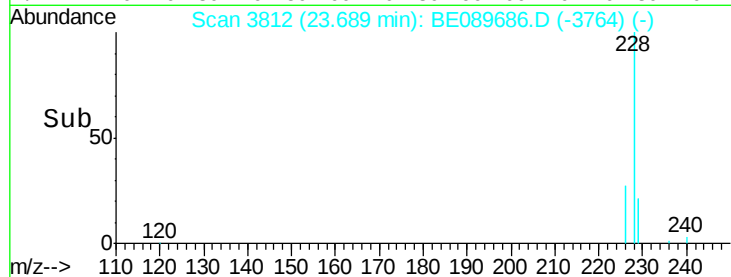
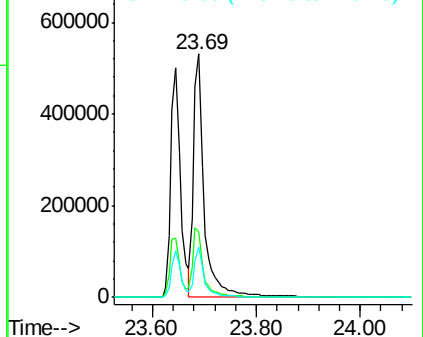
229 20.7 15.3 22.9



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 8.03 ng

RT: 26.75 min Scan# 4395

Delta R.T. 0.01 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

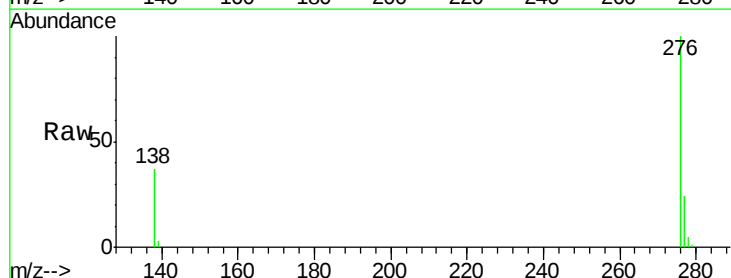
Tgt Ion:276 Resp: 493948

Ion Ratio Lower Upper

276 100

138 43.1 0.0 0.0#

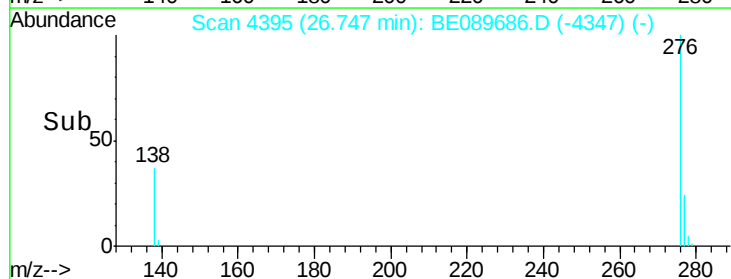
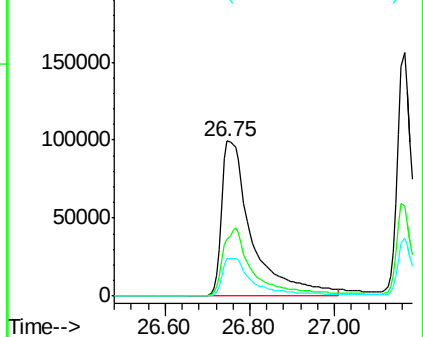
277 25.0 5.2 7.8#

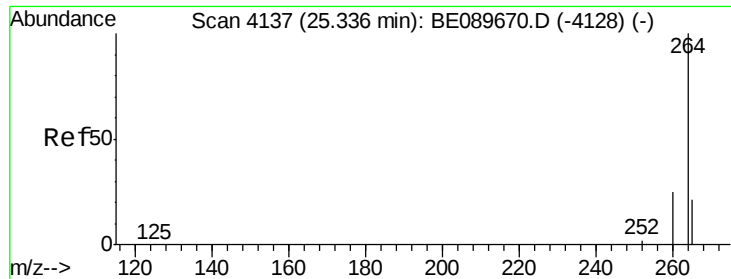


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



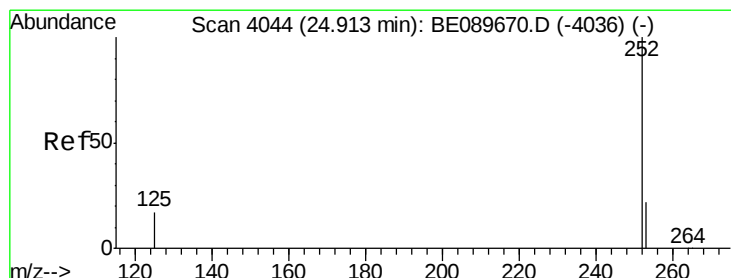
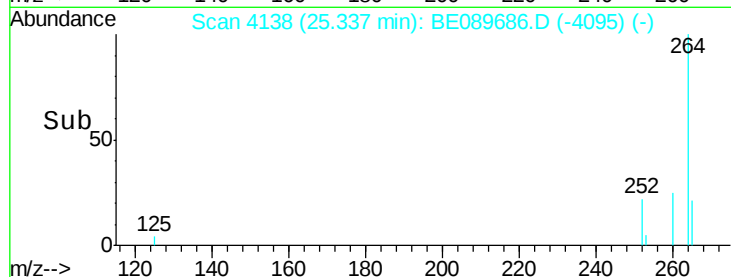
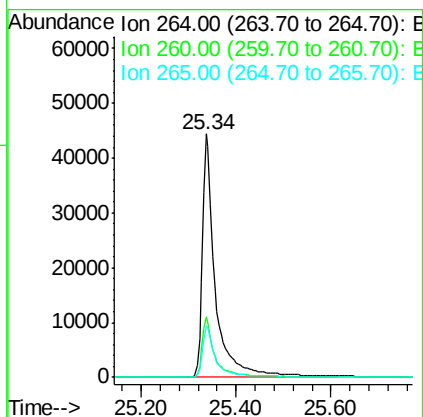
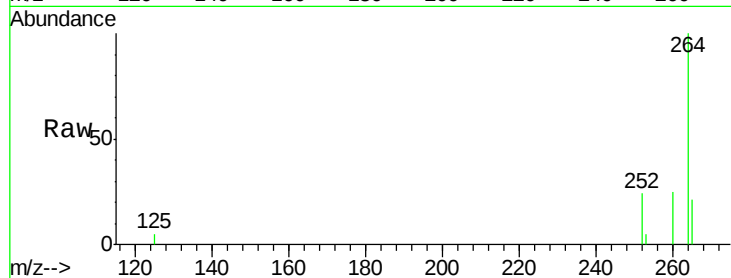


#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4138
Delta R.T. 0.00 min
Lab File: BE089686.D
Acq: 25 Feb 2015 2:41

Instrument :
BNA_E
ClientSampleId :
PB81861BSD

Tgt Ion: 264 Resp: 83673

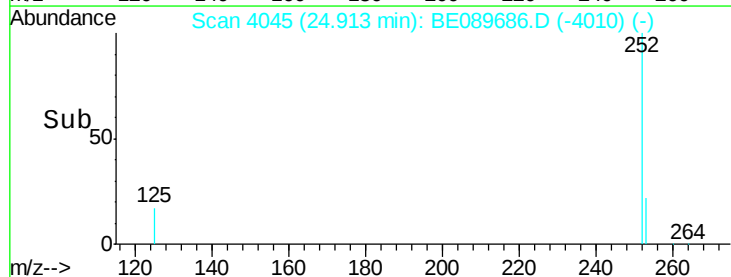
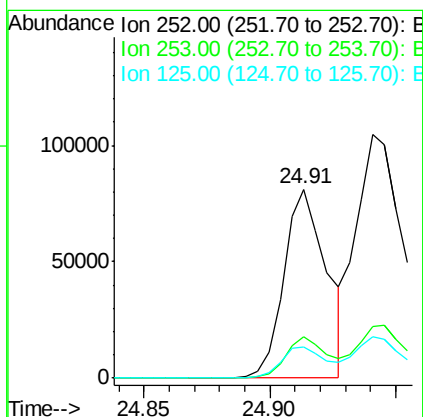
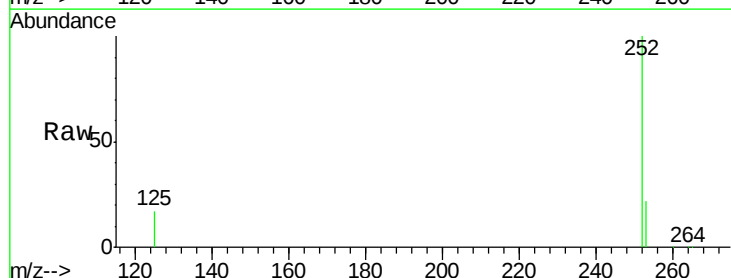
Ion	Ratio	Lower	Upper
264	100		
260	25.0	20.2	30.4
265	21.1	17.0	25.4

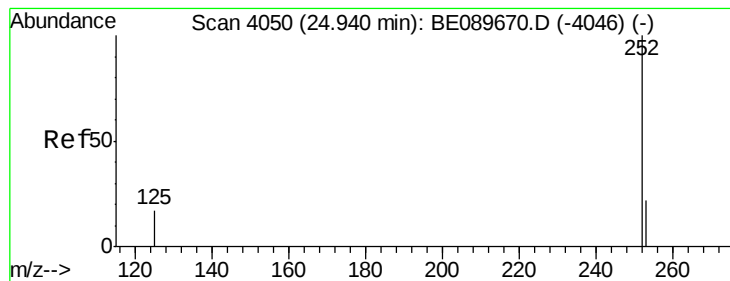


#26
Benzo(b)fluoranthene
Concen: 7.08 ng
RT: 24.91 min Scan# 4045
Delta R.T. 0.00 min
Lab File: BE089686.D
Acq: 25 Feb 2015 2:41

Tgt Ion: 252 Resp: 94716

Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.6	27.8
125	16.8	15.0	22.6





#27

Benzo(k)fluoranthene

Concen: 7.98 ng

RT: 24.94 min Scan# 4051

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

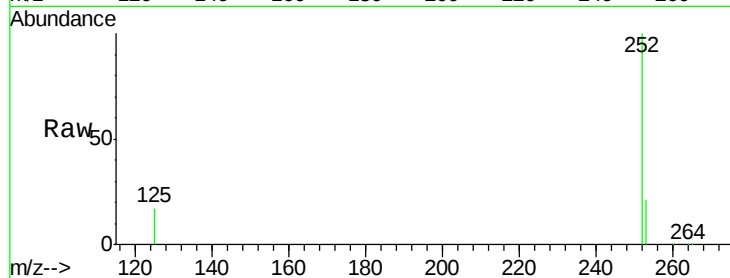
Tgt Ion:252 Resp: 192852

Ion Ratio Lower Upper

252 100

253 21.3 18.0 27.0

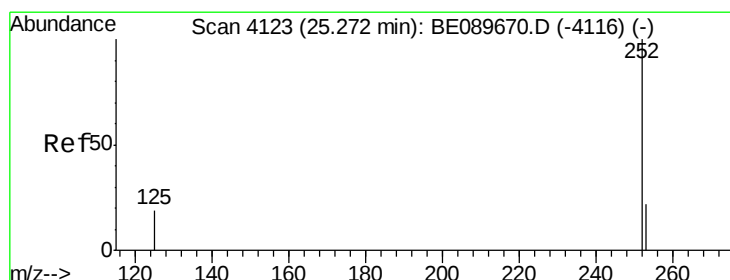
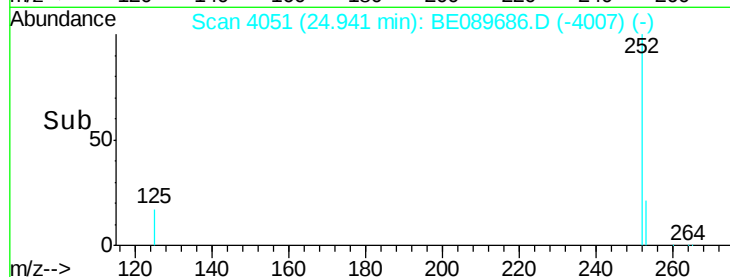
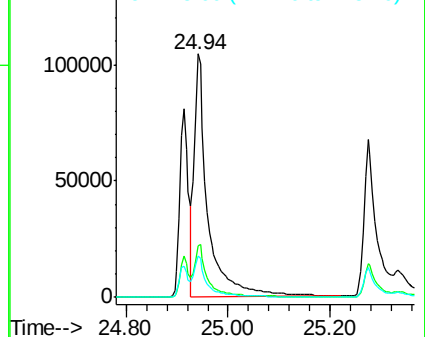
125 17.2 14.3 21.5



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Benzo(a)pyrene

Concen: 6.78 ng

RT: 25.27 min Scan# 4124

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

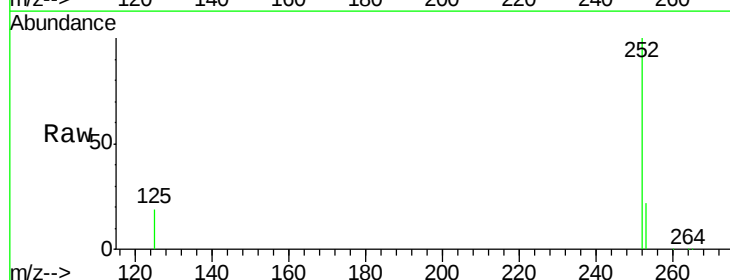
Tgt Ion:252 Resp: 108634

Ion Ratio Lower Upper

252 100

253 21.7 18.8 28.2

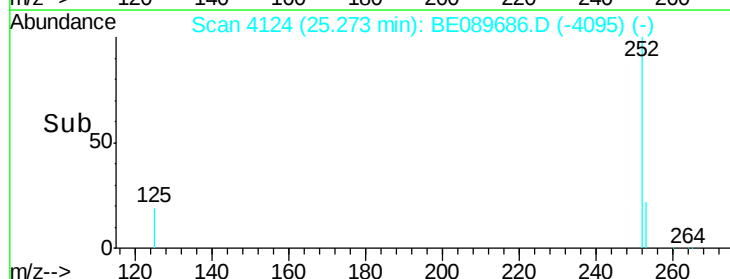
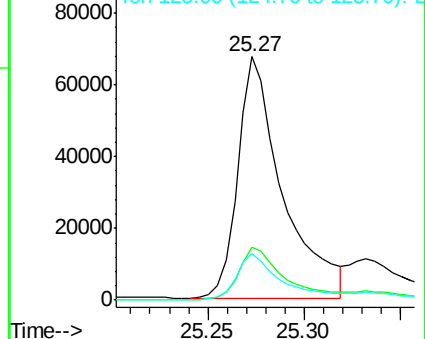
125 18.9 16.6 24.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 7.83 ng

RT: 26.77 min Scan# 4399

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

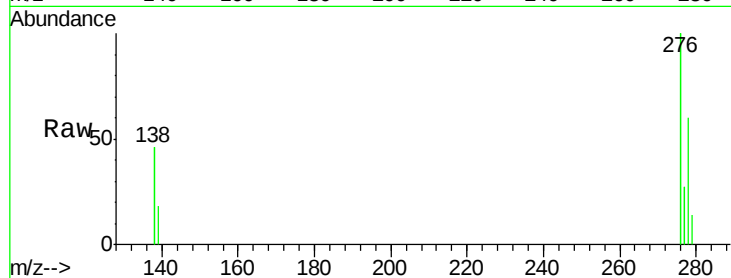
Tgt Ion:278 Resp: 97630

Ion Ratio Lower Upper

278 100

139 29.2 30.4 45.6#

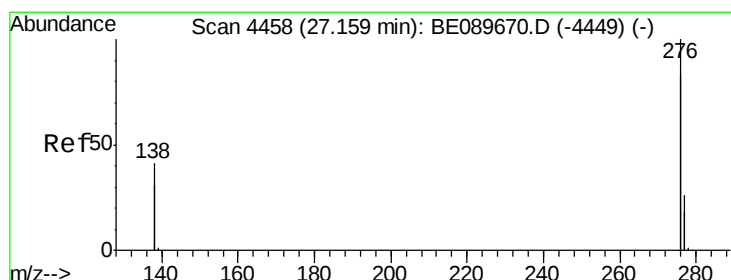
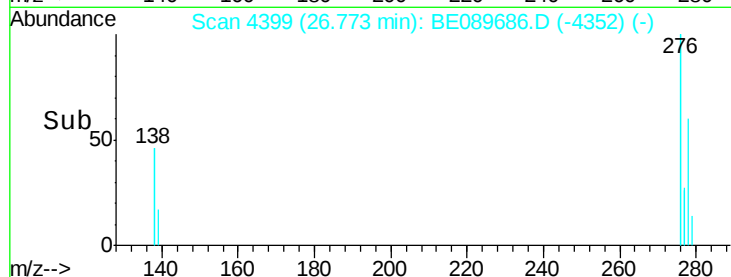
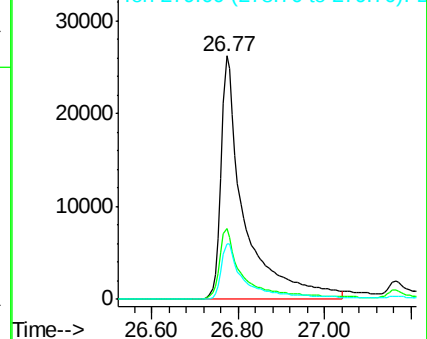
279 23.0 22.0 33.0



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#30

Benzo(g,h,i)perylene

Concen: 8.15 ng

RT: 27.16 min Scan# 4459

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 2:41

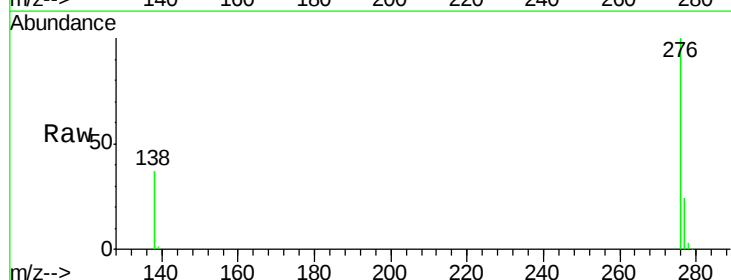
Tgt Ion:276 Resp: 480504

Ion Ratio Lower Upper

276 100

277 23.9 21.0 31.6

138 37.0 33.0 49.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

