

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022515\
 Data File : BE089686.D
 Acq On : 25 Feb 2015 18:54
 Operator : TP/JJ
 Sample : PB81861BSD
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81861BSD

Quant Time: Feb 26 00:12:51 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 26 00:03:50 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	39297	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	182002	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	88271	5.00	ng	0.01
13) Phenanthrene-d10	19.77	188	139393	5.00	ng	0.00
19) Chrysene-d12	23.65	240	107751	5.00	ng	0.00
25) Perylene-d12	25.34	264	88983	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	83556	7.76	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	165417	8.43	ng	0.00
21) Terphenyl-d14	22.30	244	117197	9.27	ng	0.00

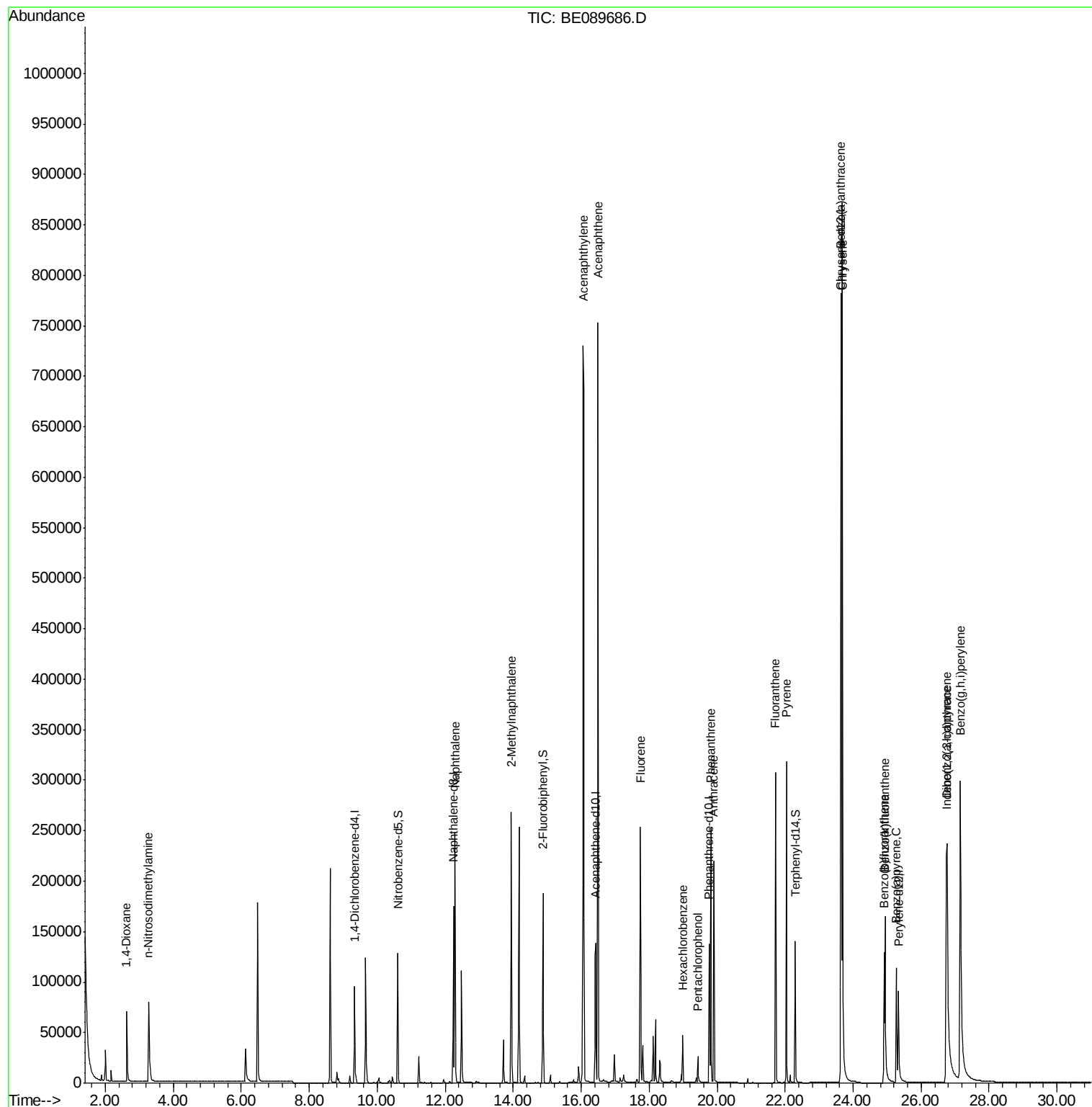
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.63	88	43250	8.78	ng	98
3) n-Nitrosodimethylamine	3.27	42	55863	8.50	ng	# 89
6) Naphthalene	12.29	128	273337	7.76	ng	100
7) 2-Methylnaphthalene	13.95	142	172020	8.60	ng	99
10) Acenaphthylene	16.06	152	1013541	8.00	ng	100
11) Acenaphthene	16.49	154	148671	7.40	ng	97
12) Fluorene	17.74	166	167556	7.53	ng	100
14) Hexachlorobenzene	18.99	284	29293	8.12	ng	99
15) Pentachlorophenol	19.43	266	17878	11.93	ng	93
16) Phenanthrene	19.81	178	221345	7.44	ng	100
17) Anthracene	19.90	178	222689	8.80	ng	100
18) Fluoranthene	21.72	202	200702	8.09	ng	100
20) Pyrene	22.04	202	214863	8.25	ng	99
22) Benzo(a)anthracene	23.64	228	646589	9.12	ng	96
23) Chrysene	23.68	228	729117	7.47	ng	99
24) Indeno(1,2,3-cd)pyrene	26.74	276	557290	7.57	ng	# 46
26) Benzo(b)fluoranthene	24.91	252	103818	7.12	ng	96
27) Benzo(k)fluoranthene	24.94	252	194813	8.72	ng	98
28) Benzo(a)pyrene	25.27	252	121539	6.99	ng	95
29) Dibenzo(a,h)anthracene	26.77	278	112145	7.20	ng	# 88
30) Benzo(g,h,i)perylene	27.16	276	512028	12.03	ng	94

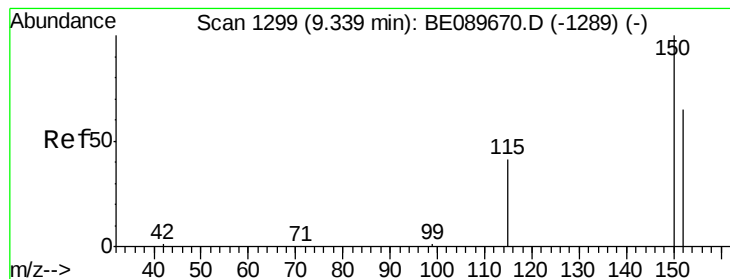
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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 18:54

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

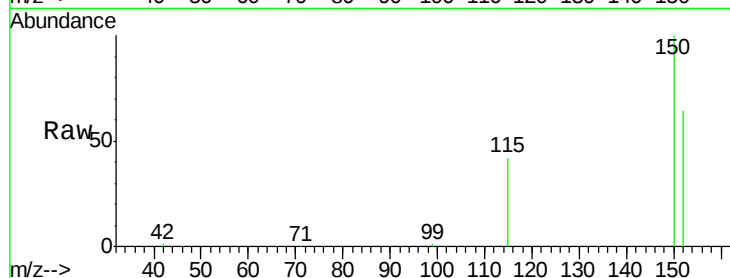
Tgt Ion:152 Resp: 39297

Ion Ratio Lower Upper

152 100

150 157.3 123.4 185.0

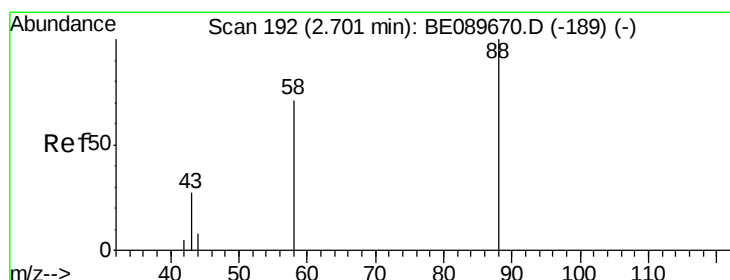
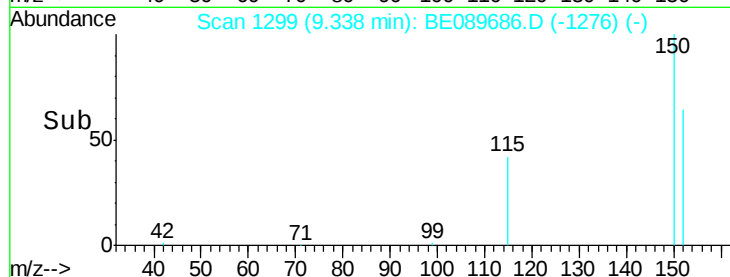
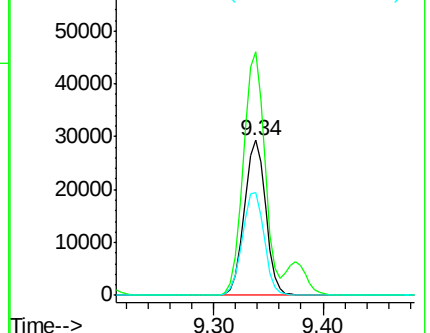
115 66.6 50.8 76.2



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: 8.78 ng

RT: 2.63 min Scan# 182

Delta R.T. 0.01 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

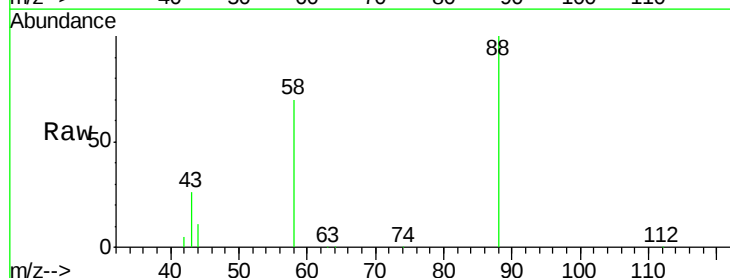
Tgt Ion: 88 Resp: 43250

Ion Ratio Lower Upper

88 100

58 80.8 62.4 93.6

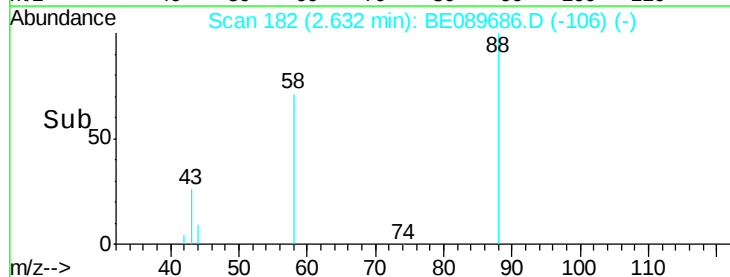
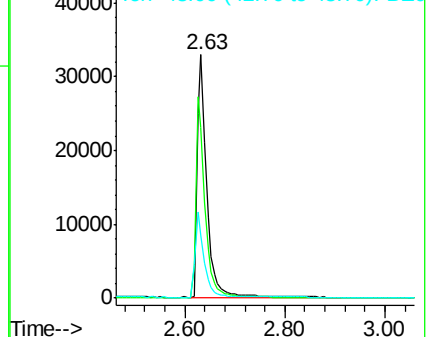
43 33.4 26.6 40.0

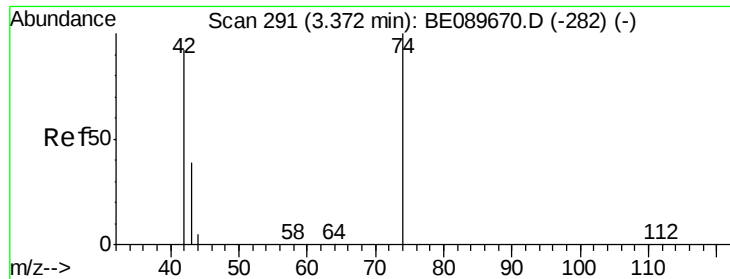


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



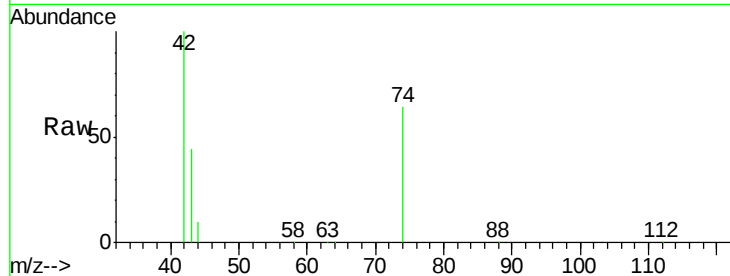


#3

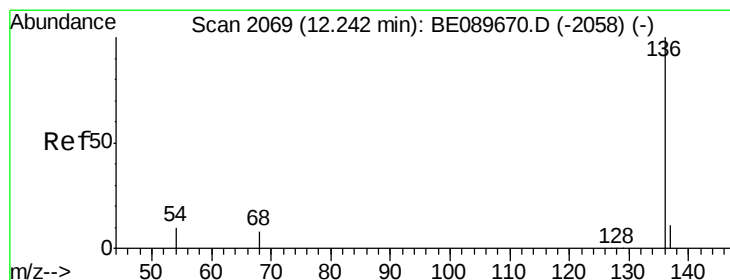
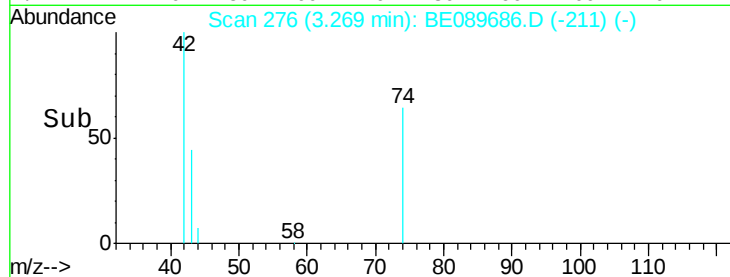
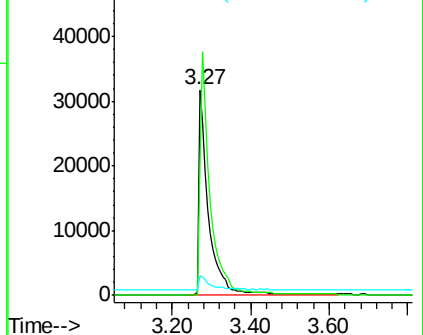
n-Nitrosodimethylamine
 Concen: 8.50 ng
 RT: 3.27 min Scan# 276
 Delta R.T. -0.06 min
 Lab File: BE089686.D
 Acq: 25 Feb 2015 18:54

Instrument :
 BNA_E
 ClientSampleId :
 PB81861BSD

Tgt Ion: 42 Resp: 55863
 Ion Ratio Lower Upper
 42 100
 74 126.6 91.1 136.7
 44 7.2 4.7 7.1#



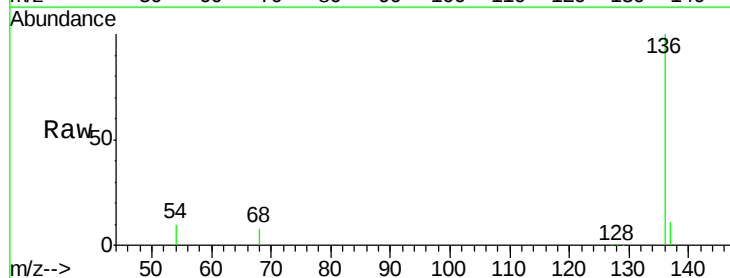
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



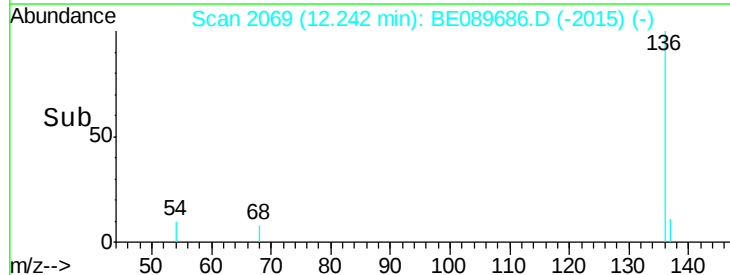
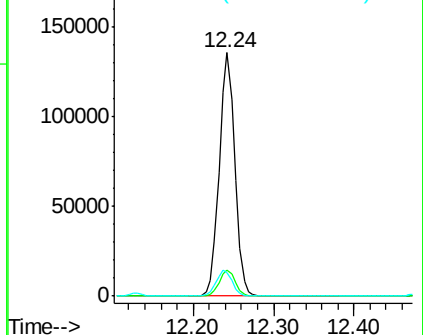
#4

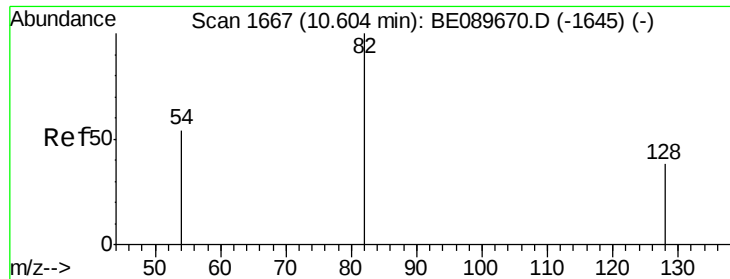
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. 0.00 min
 Lab File: BE089686.D
 Acq: 25 Feb 2015 18:54

Tgt Ion: 136 Resp: 182002
 Ion Ratio Lower Upper
 136 100
 137 10.9 8.7 13.1
 54 9.8 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: 7.76 ng

RT: 10.60 min Scan# 1667

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

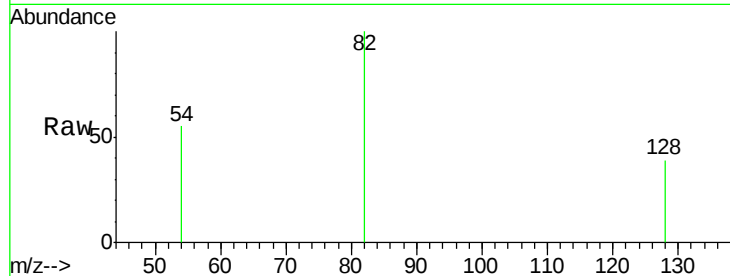
Tgt Ion: 82 Resp: 83556

Ion Ratio Lower Upper

82 100

128 38.8 30.6 46.0

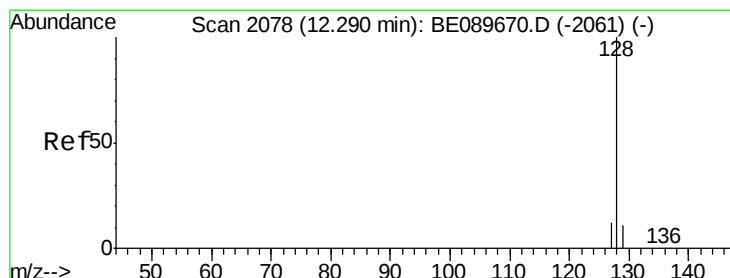
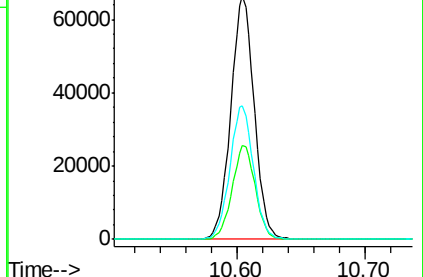
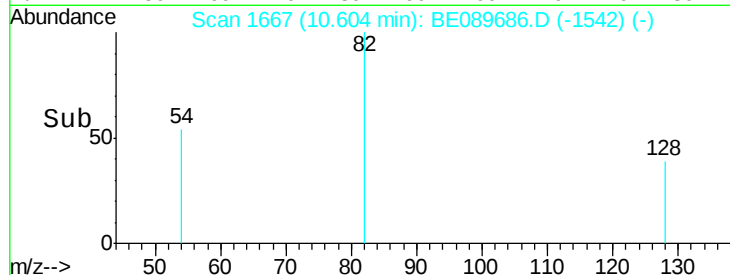
54 54.8 43.6 65.4



Abundance Ion 82.00 (81.70 to 82.70): BE089686.D (-1542) (-)

Ion 128.00 (127.70 to 128.70): BE089686.D (-1542) (-)

Ion 54.00 (53.70 to 54.70): BE089686.D (-1542) (-)



#6

Naphthalene

Concen: 7.76 ng

RT: 12.29 min Scan# 2078

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

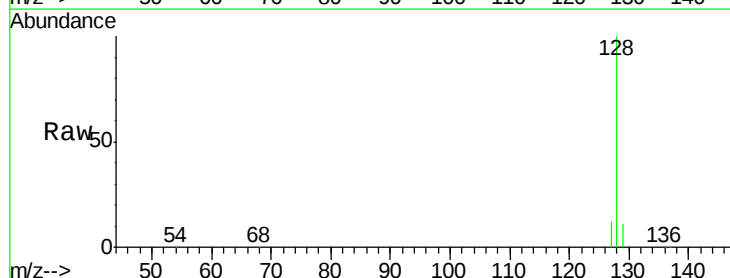
Tgt Ion: 128 Resp: 273337

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

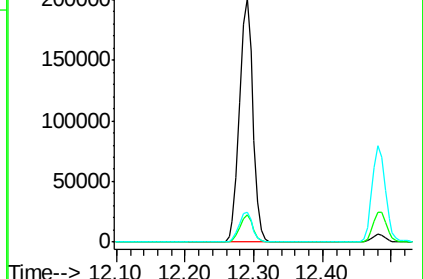
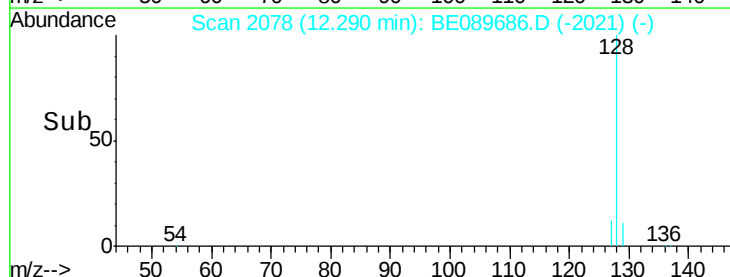
127 12.3 9.7 14.5



Abundance Ion 128.00 (127.70 to 128.70): BE089686.D (-2021) (-)

Ion 129.00 (128.70 to 129.70): BE089686.D (-2021) (-)

Ion 127.00 (126.70 to 127.70): BE089686.D (-2021) (-)





#7

2-Methylnaphthalene

Concen: 8.60 ng

RT: 13.95 min Scan# 2417

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

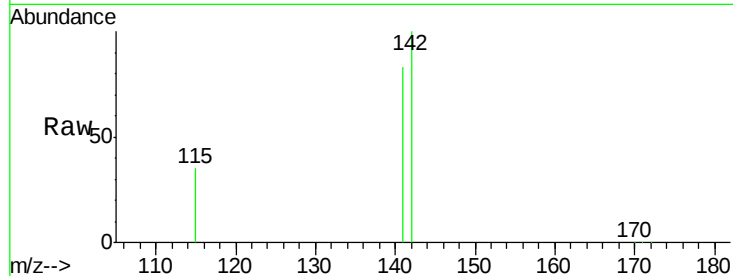
Tgt Ion:142 Resp: 172020

Ion Ratio Lower Upper

142 100

141 83.1 66.0 99.0

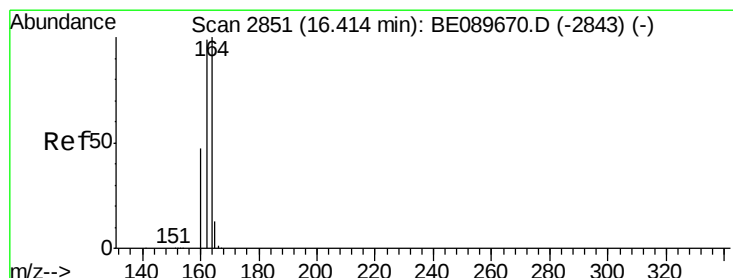
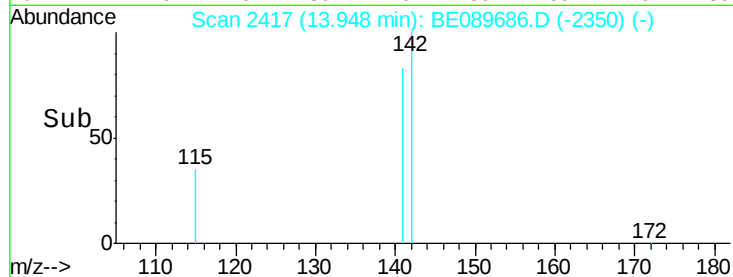
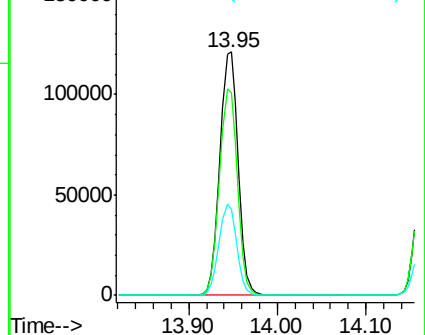
115 35.3 27.4 41.0



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 18:54

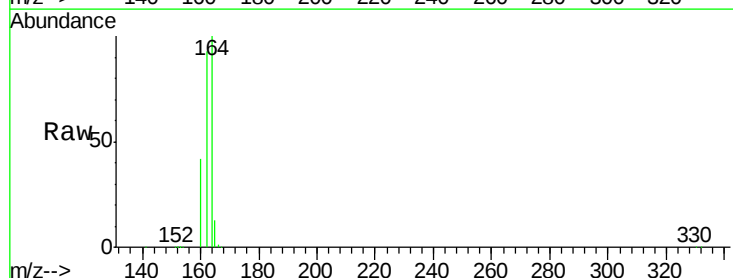
Tgt Ion:164 Resp: 88271

Ion Ratio Lower Upper

164 100

162 92.6 79.4 119.2

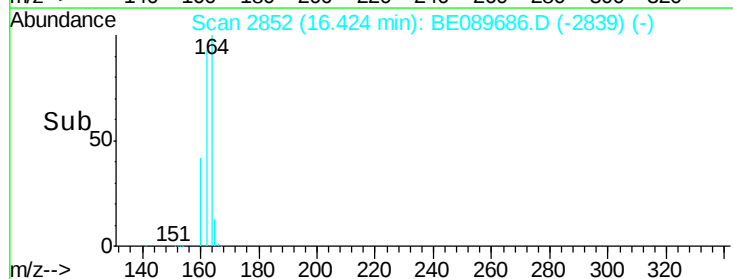
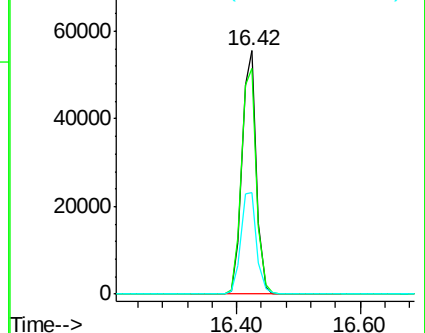
160 41.6 37.6 56.4



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: 8.43 ng

RT: 14.88 min Scan# 2621

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

Instrument :

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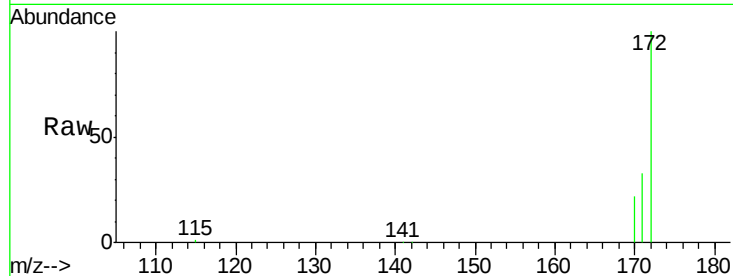
Tgt Ion:172 Resp: 165417

Ion Ratio Lower Upper

172 100

171 33.0 27.3 40.9

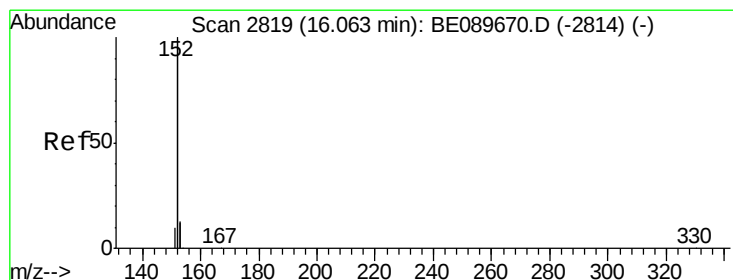
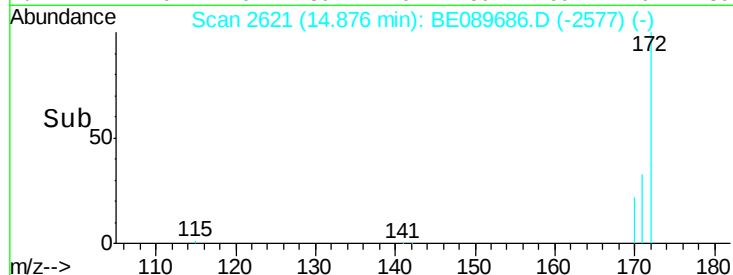
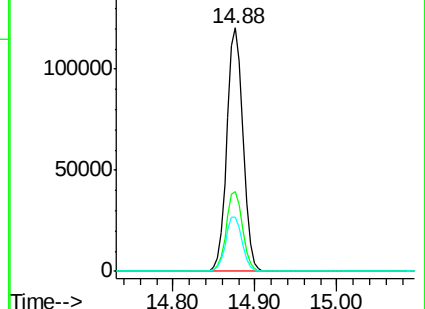
170 22.0 18.5 27.7



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: 8.00 ng

RT: 16.06 min Scan# 2819

Delta R.T. -0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

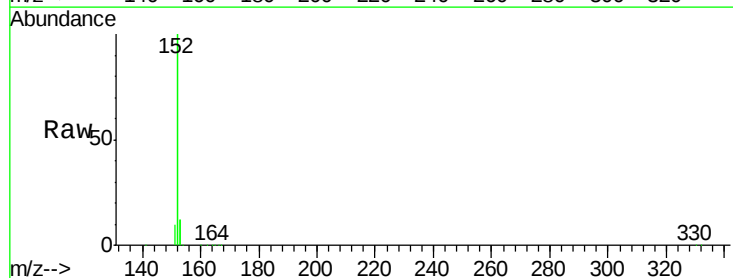
Tgt Ion:152 Resp: 1013541

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.6

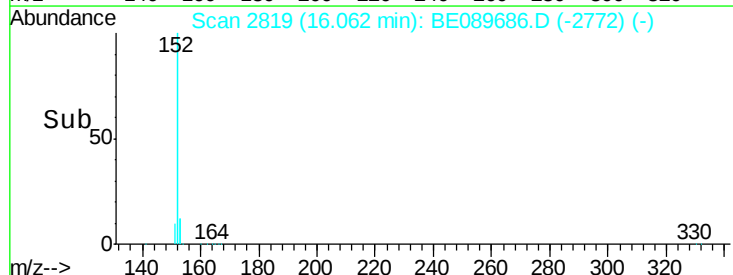
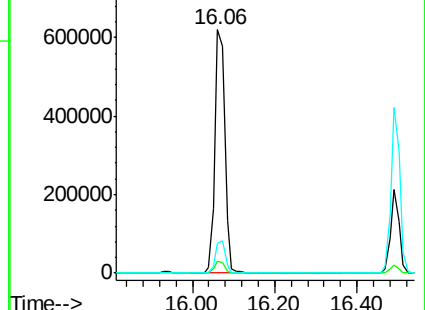
153 13.1 10.4 15.6

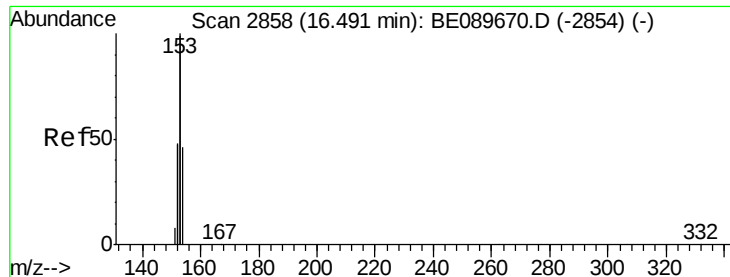


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 7.40 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

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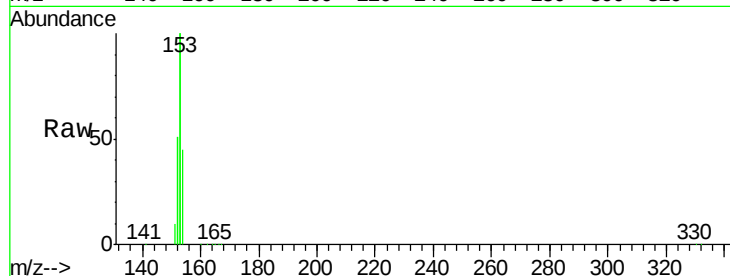
Tgt Ion:154 Resp: 148671

Ion Ratio Lower Upper

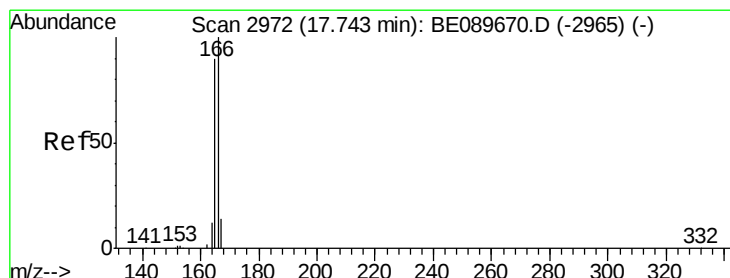
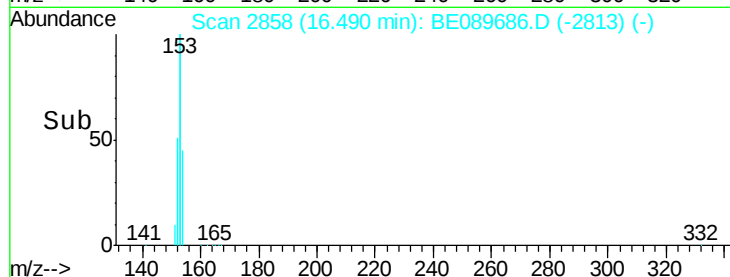
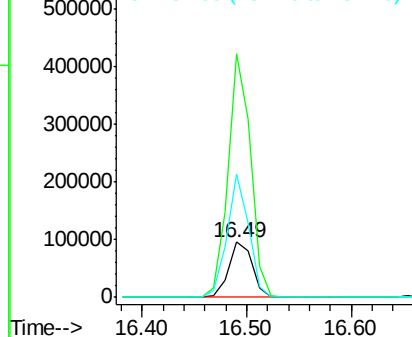
154 100

153 423.5 345.8 518.8

152 205.8 168.6 252.8



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



#12

Fluorene

Concen: 7.53 ng

RT: 17.74 min Scan# 2972

Delta R.T. -0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

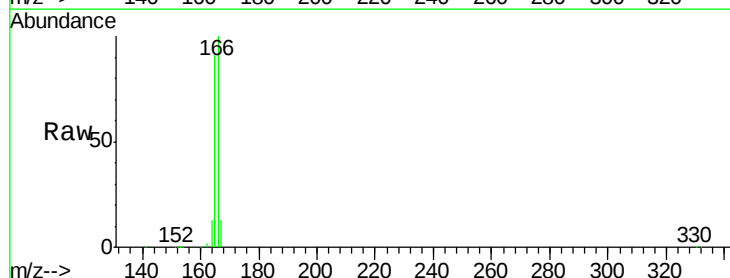
Tgt Ion:166 Resp: 167556

Ion Ratio Lower Upper

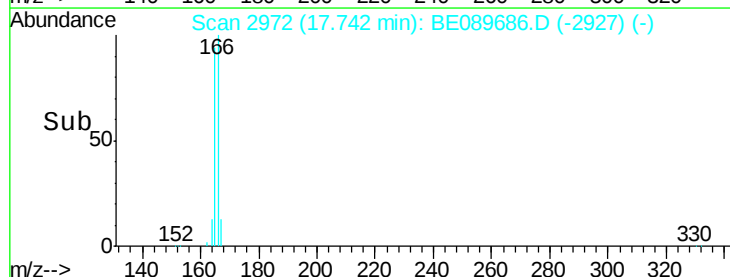
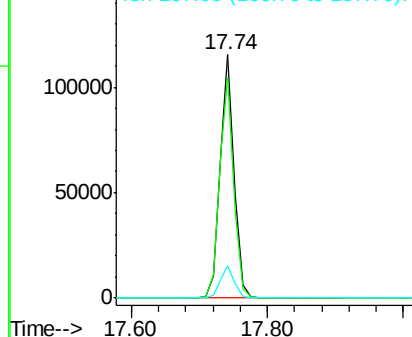
166 100

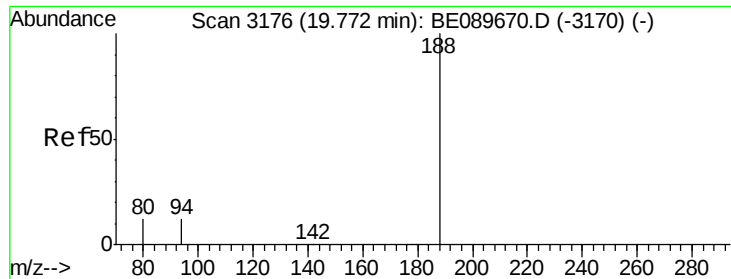
165 92.1 73.6 110.4

167 13.3 10.6 16.0



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

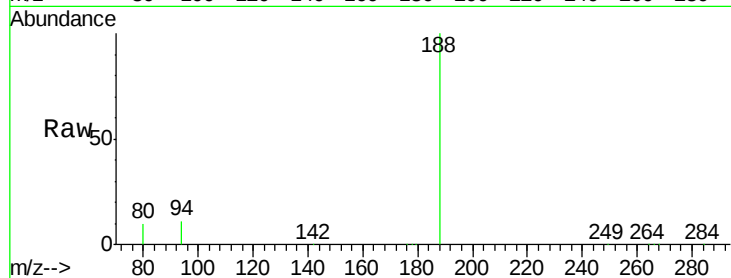




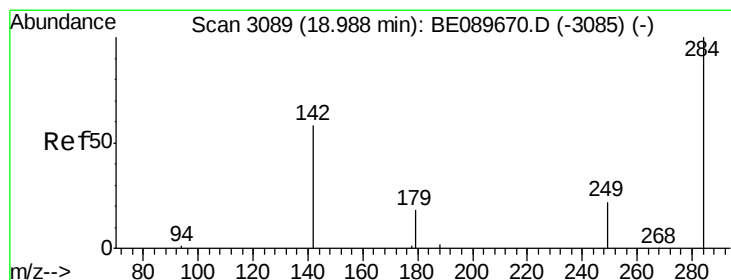
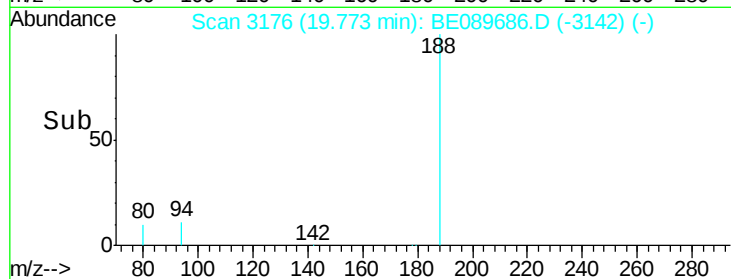
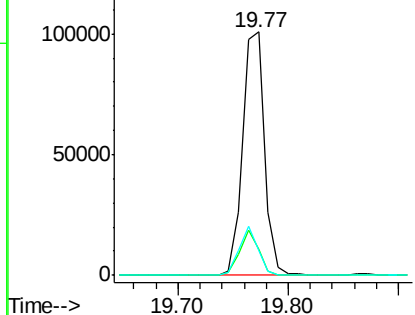
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. 0.01 min
Lab File: BE089686.D
Acq: 25 Feb 2015 18:54

Instrument :
BNA_E
ClientSampleId :
PB81861BSD

Tgt Ion:188 Resp: 139393
Ion Ratio Lower Upper
188 100
94 10.7 9.4 14.2
80 10.3 9.5 14.3

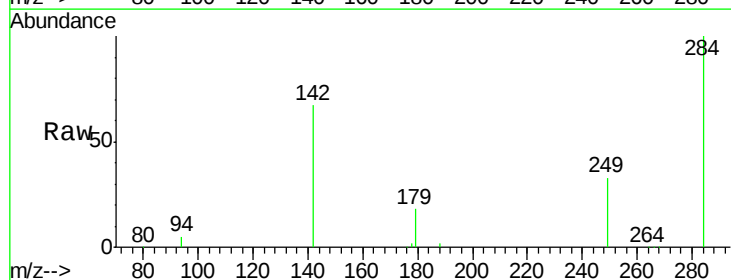


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

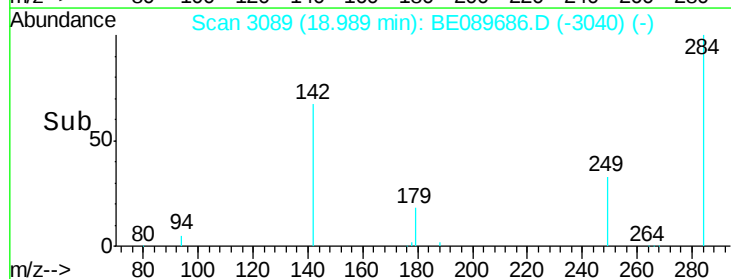
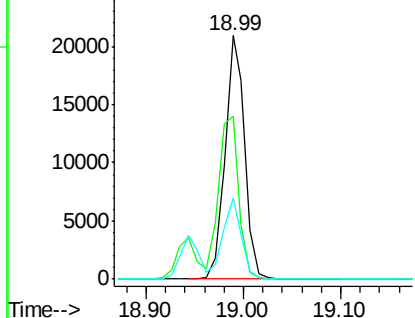


#14
Hexachlorobenzene
Concen: 8.12 ng
RT: 18.99 min Scan# 3089
Delta R.T. 0.00 min
Lab File: BE089686.D
Acq: 25 Feb 2015 18:54

Tgt Ion:284 Resp: 29293
Ion Ratio Lower Upper
284 100
142 69.2 55.4 83.2
249 31.6 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

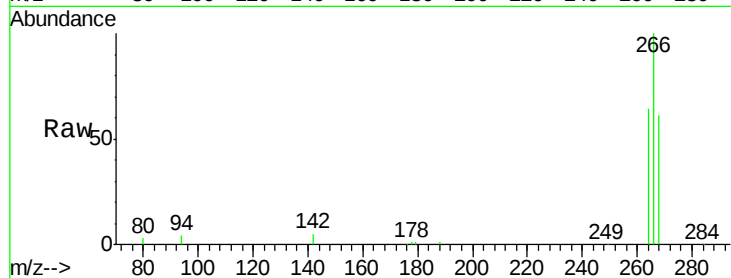




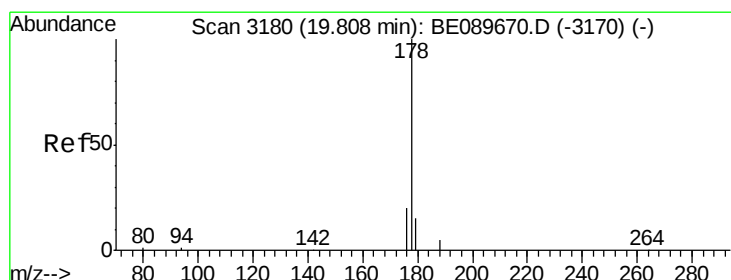
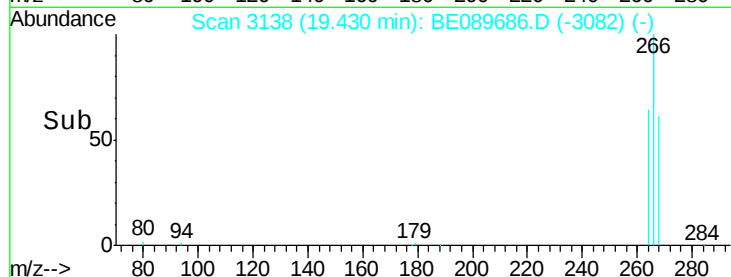
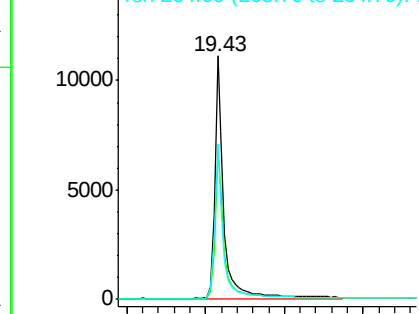
#15
 Pentachlorophenol
 Concen: 11.93 ng
 RT: 19.43 min Scan# 3138
 Delta R.T. 0.00 min
 Lab File: BE089686.D
 Acq: 25 Feb 2015 18:54

Instrument :
 BNA_E
 ClientSampleId :
 PB81861BSD

Tgt Ion: 266 Resp: 17878
 Ion Ratio Lower Upper
 266 100
 268 60.9 56.3 84.5
 264 63.7 51.8 77.8

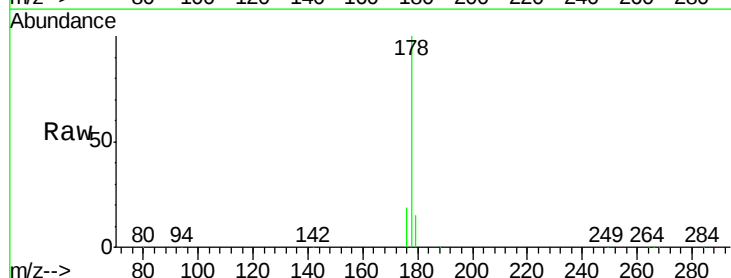


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

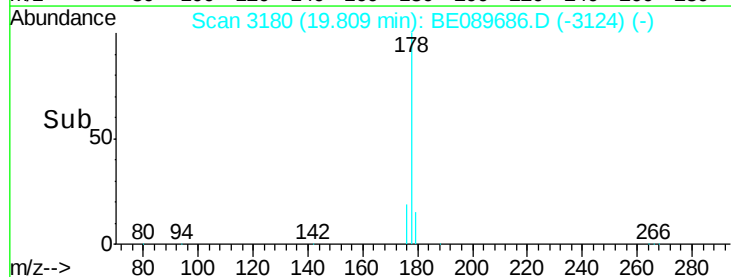
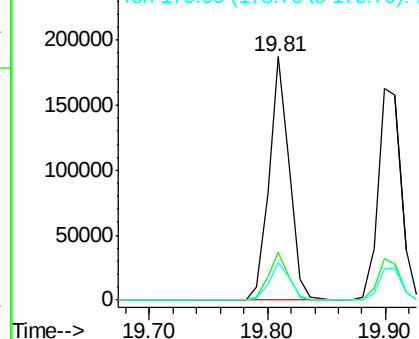


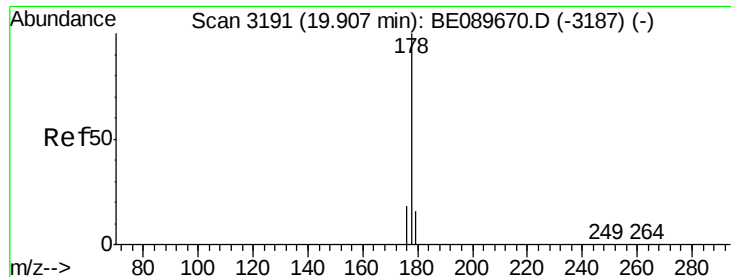
#16
 Phenanthrene
 Concen: 7.44 ng
 RT: 19.81 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: BE089686.D
 Acq: 25 Feb 2015 18:54

Tgt Ion: 178 Resp: 221345
 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: 8.80 ng

RT: 19.90 min Scan# 3190

Delta R.T. -0.01 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

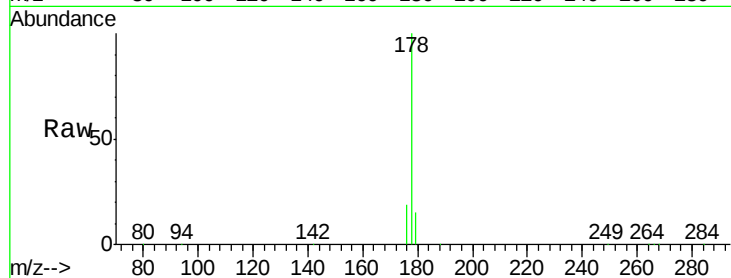
Tgt Ion:178 Resp: 222689

Ion Ratio Lower Upper

178 100

176 18.5 14.8 22.2

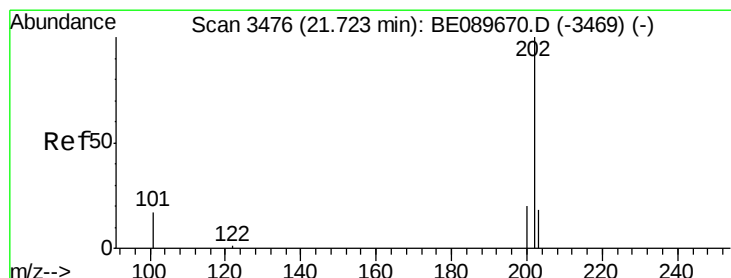
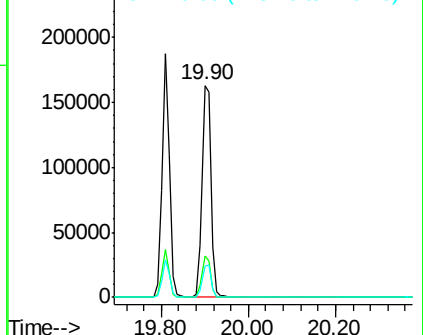
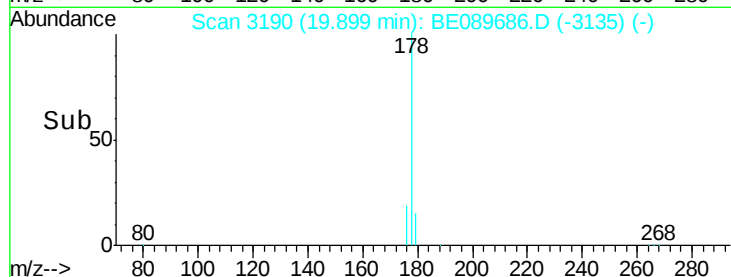
179 15.1 12.2 18.2



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: 8.09 ng

RT: 21.72 min Scan# 3475

Delta R.T. -0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

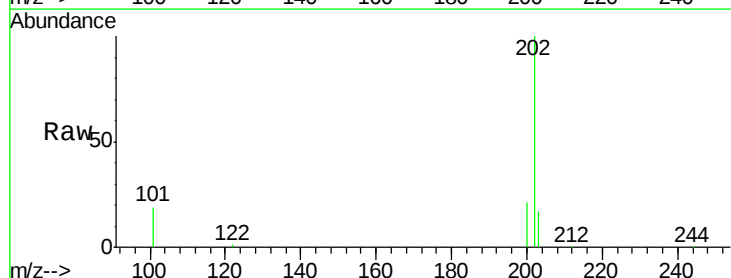
Tgt Ion:202 Resp: 200702

Ion Ratio Lower Upper

202 100

101 18.6 14.9 22.3

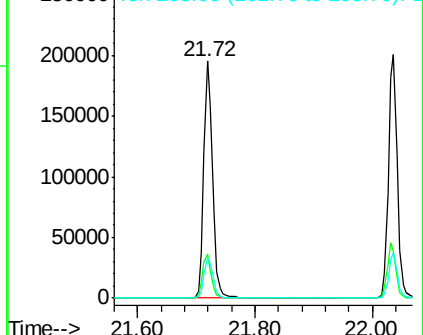
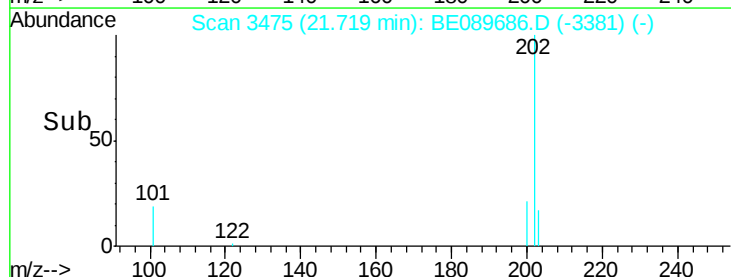
203 17.3 13.8 20.6

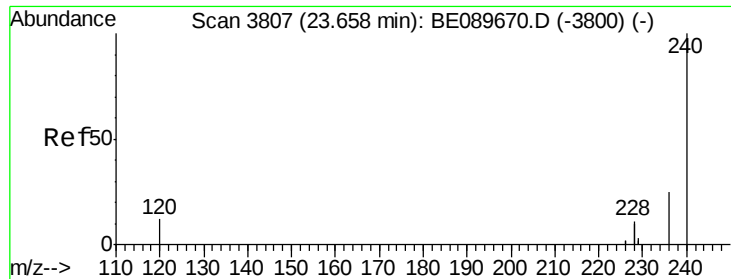


Abundance Ion 202.00 (201.70 to 202.70): E

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: 23.65 min Scan# 3806

Delta R.T. -0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

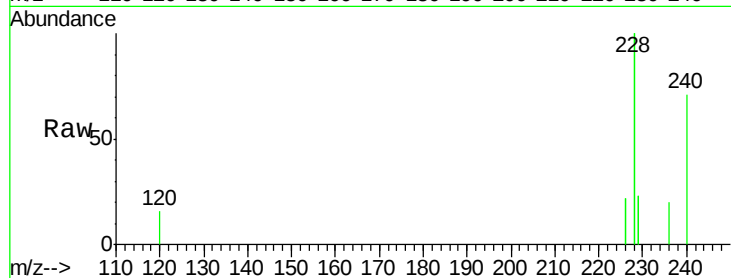
Tgt Ion:240 Resp: 107751

Ion Ratio Lower Upper

240 100

120 22.0 9.4 14.0#

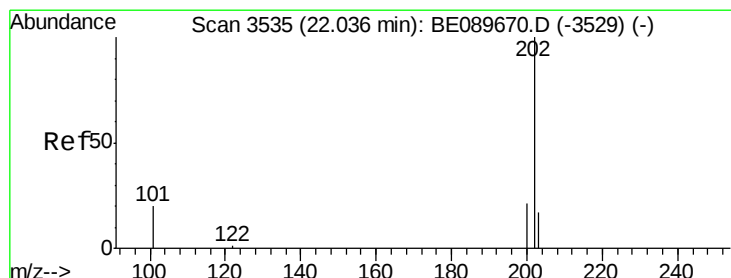
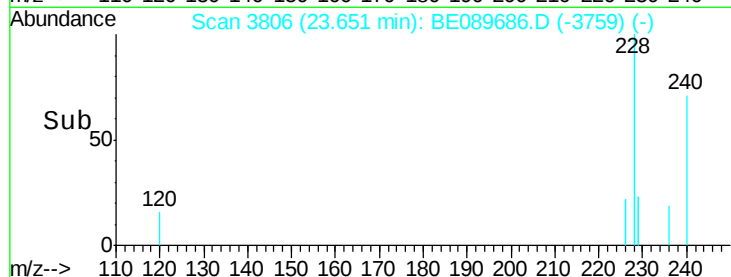
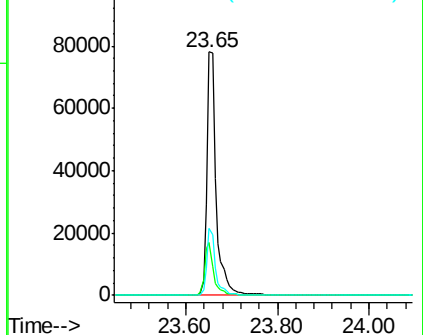
236 27.5 19.9 29.9



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: 8.25 ng

RT: 22.04 min Scan# 3535

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

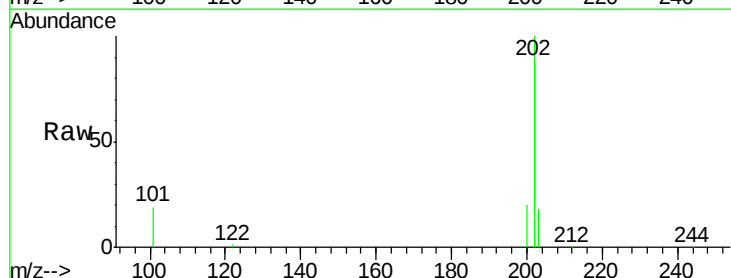
Tgt Ion:202 Resp: 214863

Ion Ratio Lower Upper

202 100

200 20.9 16.4 24.6

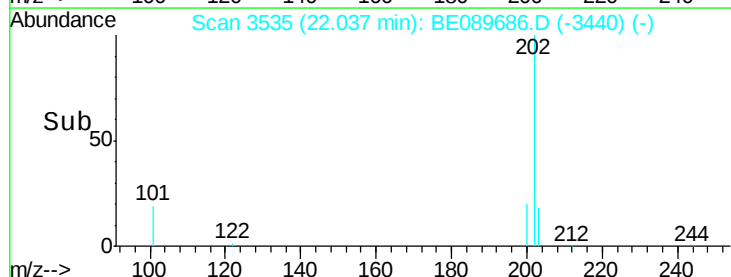
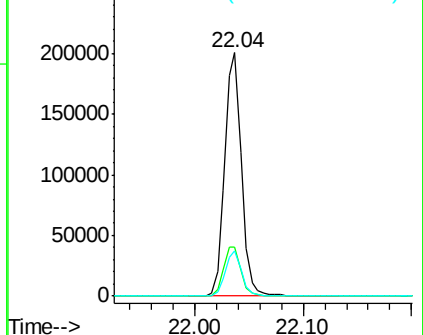
203 18.1 13.9 20.9



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: 9.27 ng

RT: 22.30 min Scan# 3584

Delta R.T. -0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

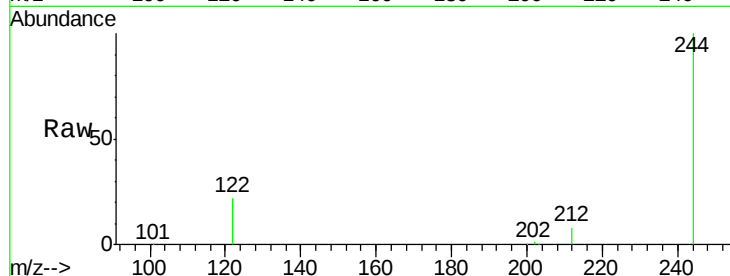
Tgt Ion:244 Resp: 117197

Ion Ratio Lower Upper

244 100

212 8.5 7.0 10.6

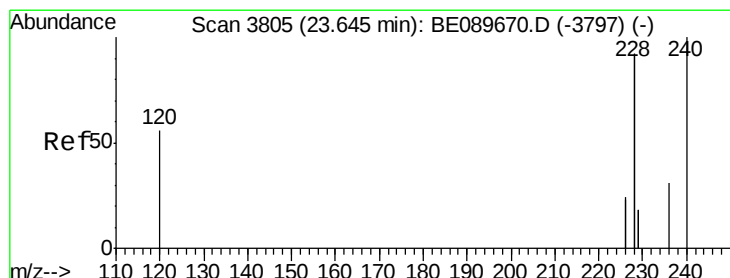
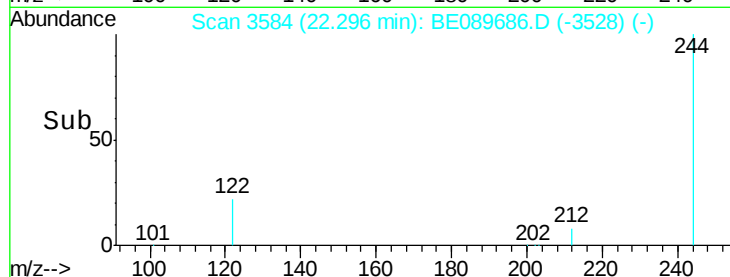
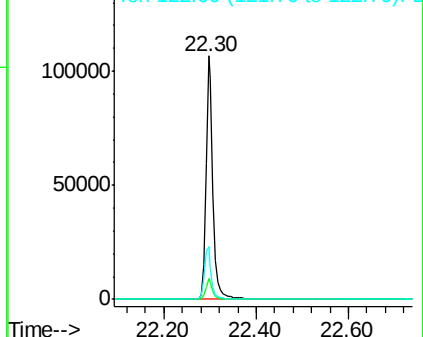
122 22.0 15.4 23.0



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: 9.12 ng

RT: 23.64 min Scan# 3804

Delta R.T. -0.01 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

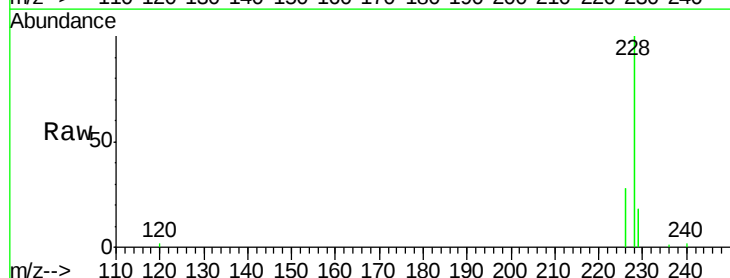
Tgt Ion:228 Resp: 646589

Ion Ratio Lower Upper

228 100

226 28.4 20.6 31.0

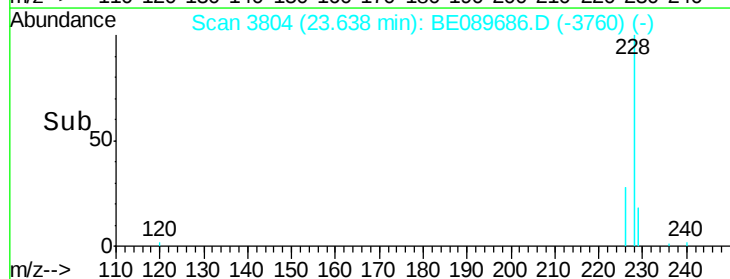
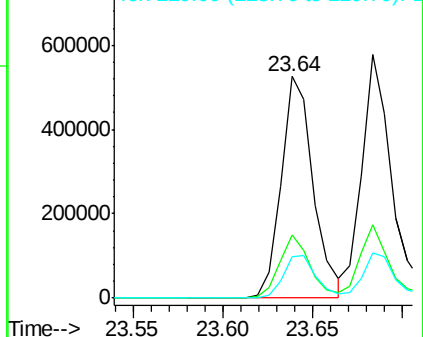
229 18.4 15.8 23.6

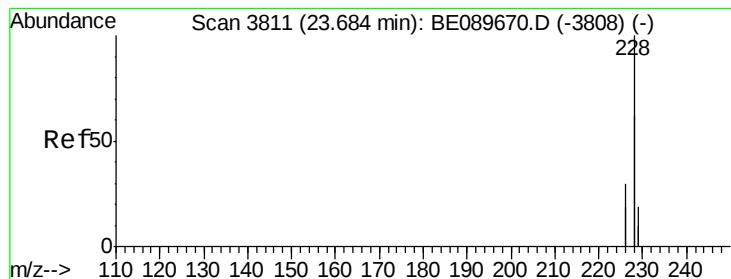


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 7.47 ng

RT: 23.68 min Scan# 3811

Delta R.T. -0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

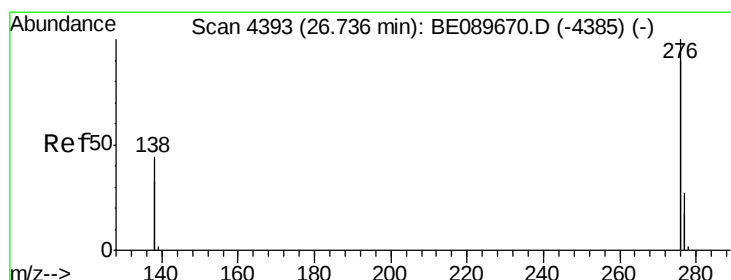
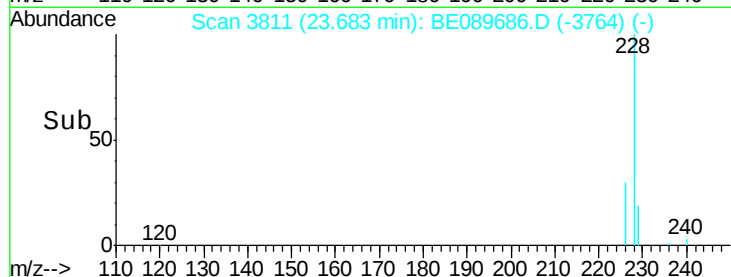
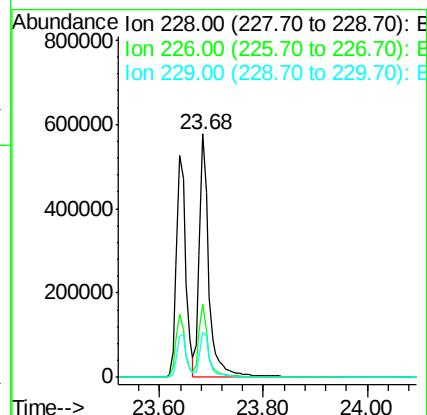
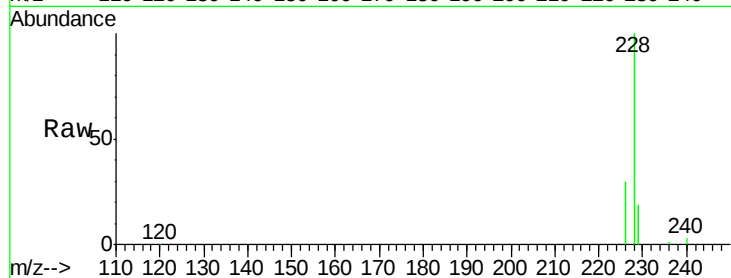
Tgt Ion:228 Resp: 729117

Ion Ratio Lower Upper

228 100

226 30.3 23.6 35.4

229 18.5 15.3 22.9



#24

Indeno(1,2,3-cd)pyrene

Concen: 7.57 ng

RT: 26.74 min Scan# 4394

Delta R.T. 0.01 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

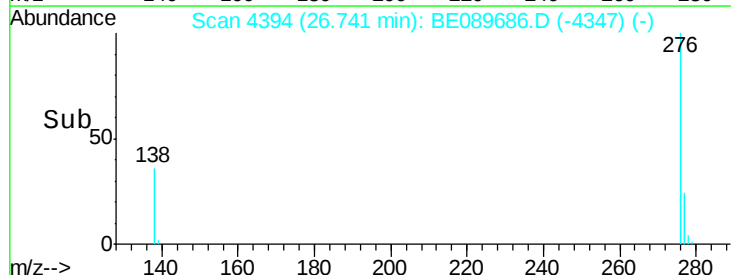
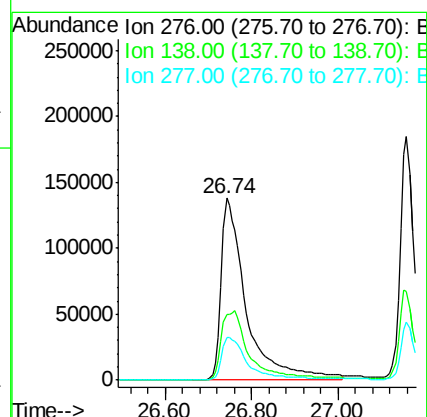
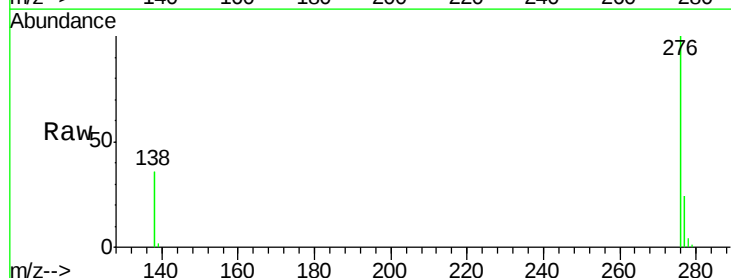
Tgt Ion:276 Resp: 557290

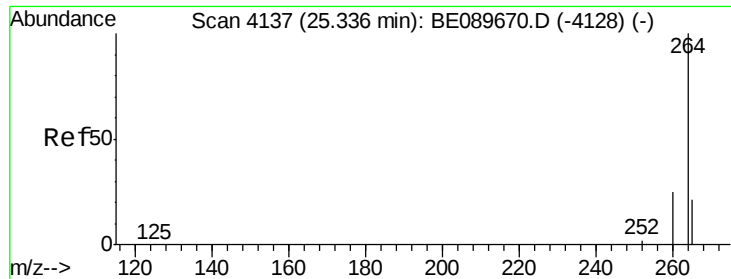
Ion Ratio Lower Upper

276 100

138 42.9 0.0 0.0#

277 24.9 5.2 7.8#

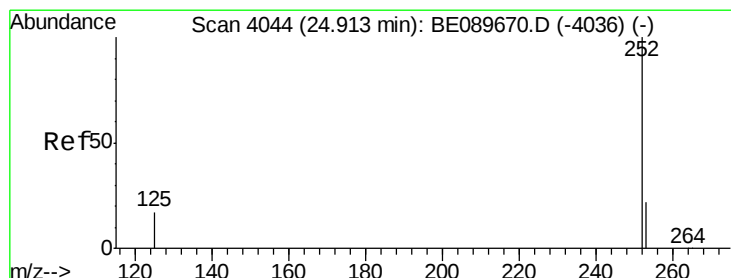
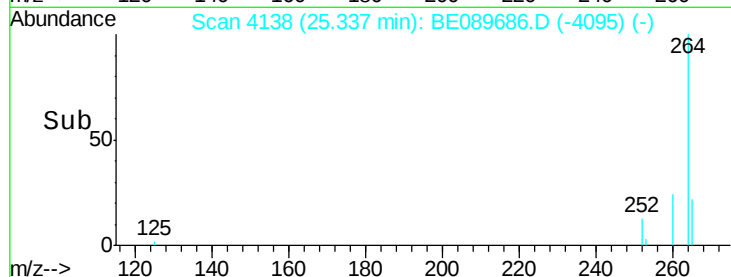
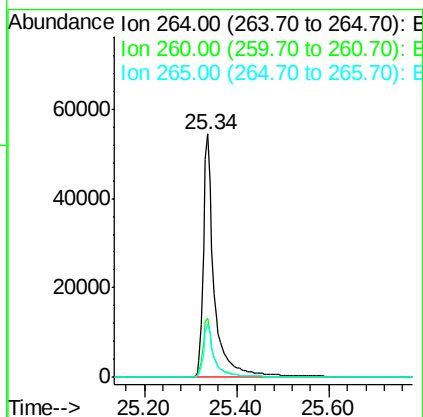
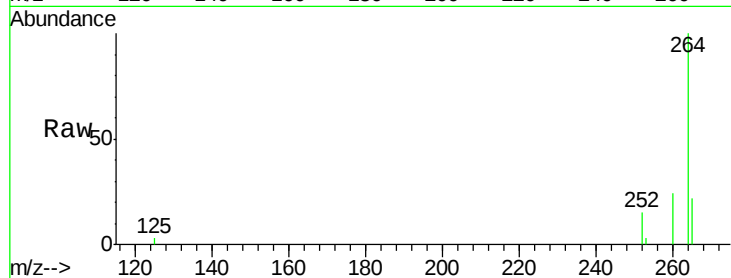




#25
Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4138
 Delta R.T. 0.00 min
 Lab File: BE089686.D
 Acq: 25 Feb 2015 18:54

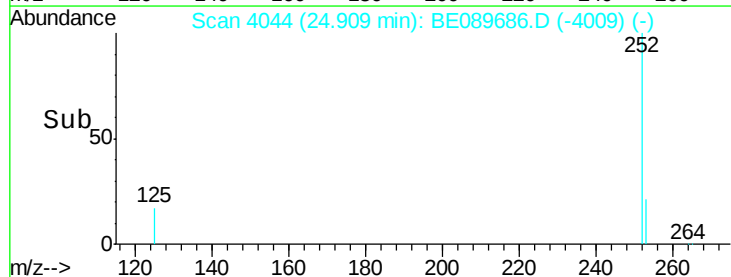
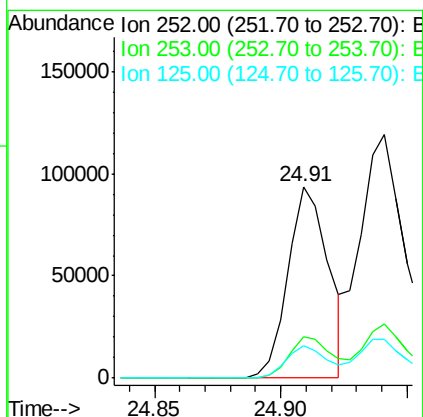
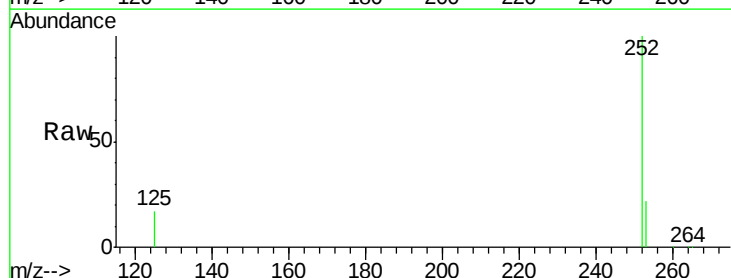
Instrument :
 BNA_E
 ClientSampleId :
 PB81861BSD

Tgt Ion: 264 Resp: 88983
 Ion Ratio Lower Upper
 264 100
 260 24.3 20.2 30.4
 265 21.8 17.0 25.4



#26
Benzo(b)fluoranthene
 Concen: 7.12 ng
 RT: 24.91 min Scan# 4044
 Delta R.T. 0.00 min
 Lab File: BE089686.D
 Acq: 25 Feb 2015 18:54

Tgt Ion: 252 Resp: 103818
 Ion Ratio Lower Upper
 252 100
 253 21.5 18.6 27.8
 125 17.0 15.0 22.6





#27

Benzo(k)fluoranthene

Concen: 8.72 ng

RT: 24.94 min Scan# 4051

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

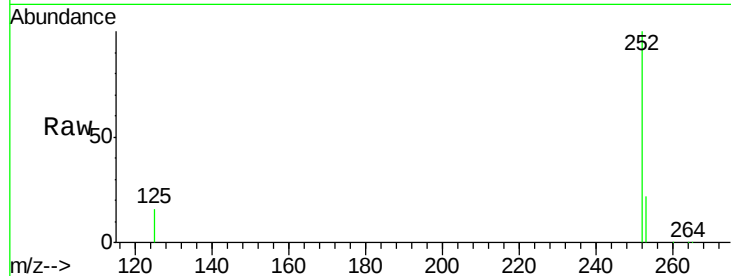
Tgt Ion:252 Resp: 194813

Ion Ratio Lower Upper

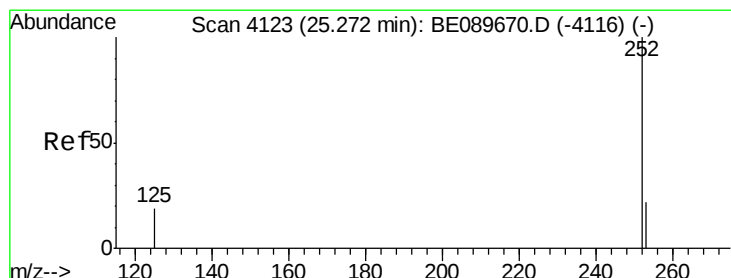
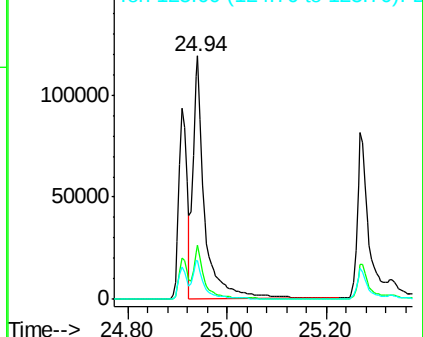
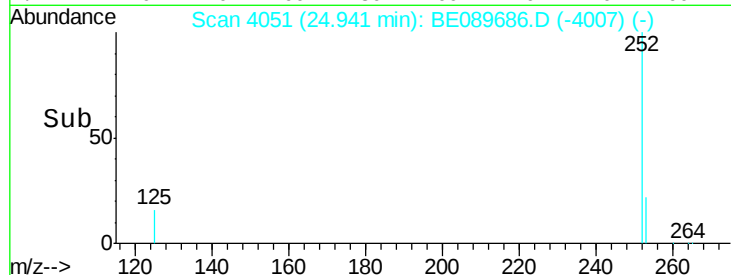
252 100

253 22.2 18.0 27.0

125 16.2 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: 6.99 ng

RT: 25.27 min Scan# 4123

Delta R.T. 0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

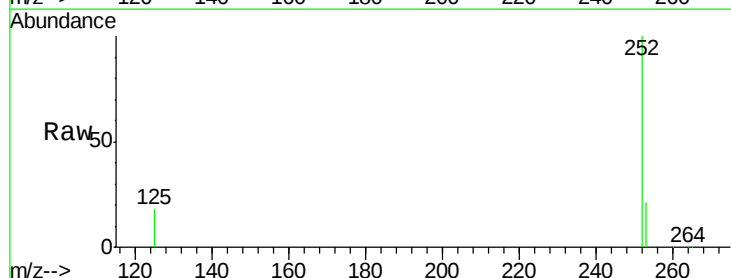
Tgt Ion:252 Resp: 121539

Ion Ratio Lower Upper

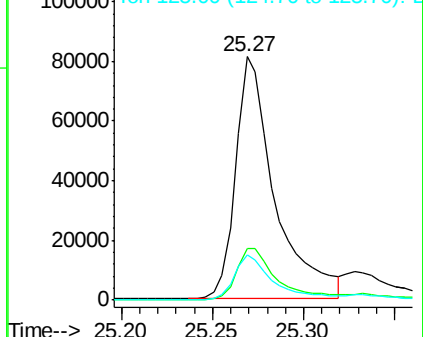
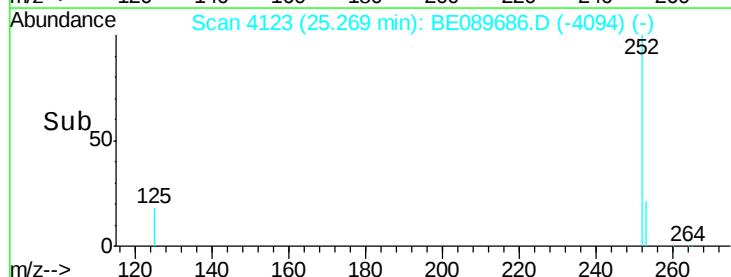
252 100

253 21.3 18.8 28.2

125 18.4 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: 7.20 ng

RT: 26.77 min Scan# 4398

Delta R.T. -0.00 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB81861BSD

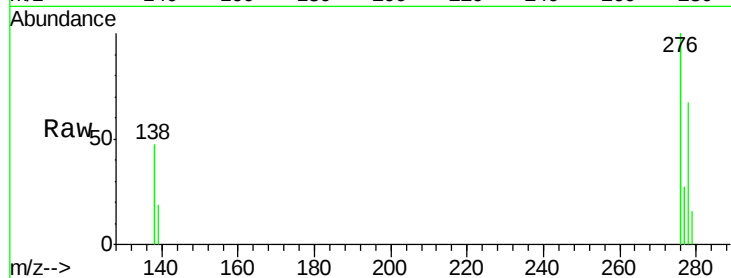
Tgt Ion:278 Resp: 112145

Ion Ratio Lower Upper

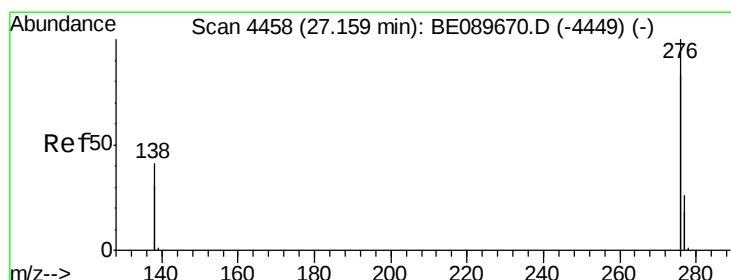
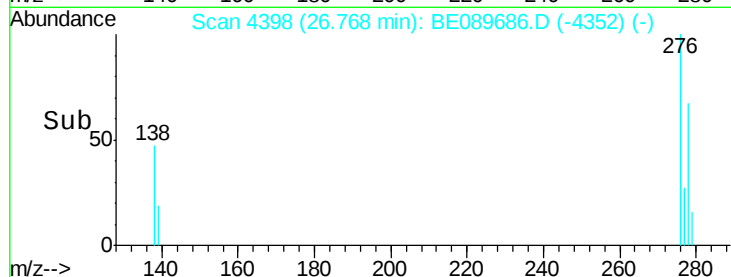
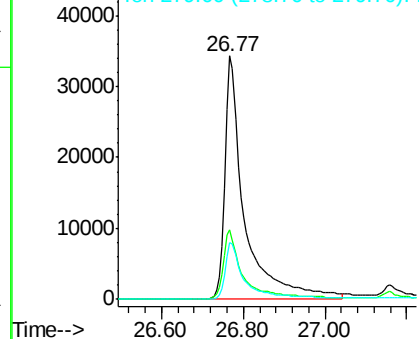
278 100

139 28.6 30.4 45.6#

279 23.5 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: 12.03 ng

RT: 27.16 min Scan# 4458

Delta R.T. 0.01 min

Lab File: BE089686.D

Acq: 25 Feb 2015 18:54

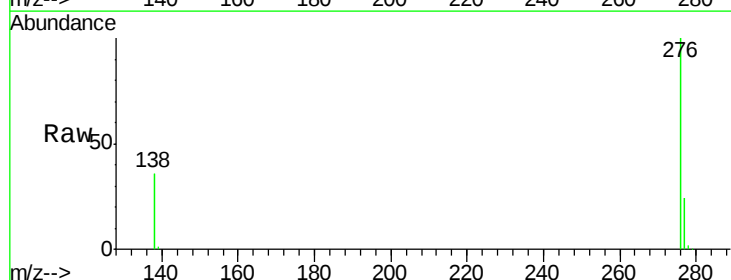
Tgt Ion:276 Resp: 512028

Ion Ratio Lower Upper

276 100

277 24.0 21.0 31.6

138 36.5 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

