

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022515\
 Data File : BE089689.D
 Acq On : 25 Feb 2015 20:50
 Operator : TP/JJ
 Sample : G1353-02
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 FB

Quant Time: Feb 26 00:13:36 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	9.33	152	44546	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	211438	5.00	ng	0.00
8) Acenaphthene-d10	16.41	164	98161	5.00	ng	0.00
13) Phenanthrene-d10	19.76	188	165907	5.00	ng	0.00
19) Chrysene-d12	23.65	240	116907	5.00	ng	0.00
25) Perylene-d12	25.34	264	99273	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	87298	6.99	ng	0.00
9) 2-Fluorobiphenyl	14.87	172	185058	8.48	ng	0.00
21) Terphenyl-d14	22.30	244	155515	11.34	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	2.18	88	6012	1.08	ng	# 1
3) n-Nitrosodimethylamine	3.32	42	37	0.08	ng	# 15
6) Naphthalene	12.28	128	3167	0.08	ng	# 92
7) 2-Methylnaphthalene	13.94	142	5017	0.22	ng	# 95
10) Acenaphthylene	16.06	152	11615	0.08	ng	# 83
11) Acenaphthene	16.49	154	2187	0.10	ng	# 60
12) Fluorene	17.74	166	3684	0.15	ng	# 88
14) Hexachlorobenzene	18.99	284	358	0.08	ng	# 76
15) Pentachlorophenol	19.43	266	418	1.07	ng	# 96
16) Phenanthrene	19.81	178	9352	0.26	ng	# 99
17) Anthracene	19.81	178	9352	0.31	ng	# 98
18) Fluoranthene	21.72	202	2902	0.10	ng	# 100
20) Pyrene	21.72	202	2902	0.10	ng	# 99
22) Benzo(a)anthracene	23.64	228	8366	0.11	ng	# 96
23) Chrysene	23.68	228	10572	0.10	ng	# 95
24) Indeno(1,2,3-cd)pyrene	26.73	276	2375	0.13	ng	# 44
26) Benzo(b)fluoranthene	24.91	252	660	0.14	ng	# 79
27) Benzo(k)fluoranthene	24.94	252	1344	0.12	ng	# 77
28) Benzo(a)pyrene	25.27	252	706	0.12	ng	# 75
29) Dibenzo(a,h)anthracene	26.77	278	516	0.18	ng	# 71
30) Benzo(g,h,i)perylene	27.15	276	3687	0.17	ng	# 84

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.33 min Scan# 1298

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

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ClientSampleId :

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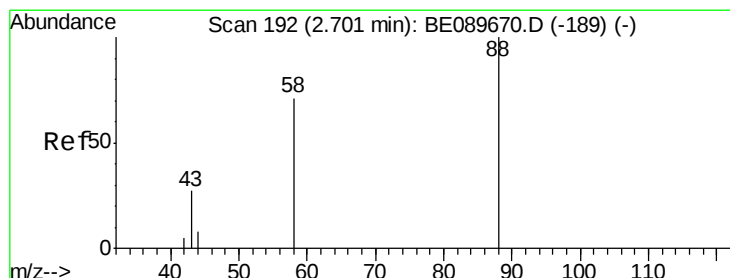
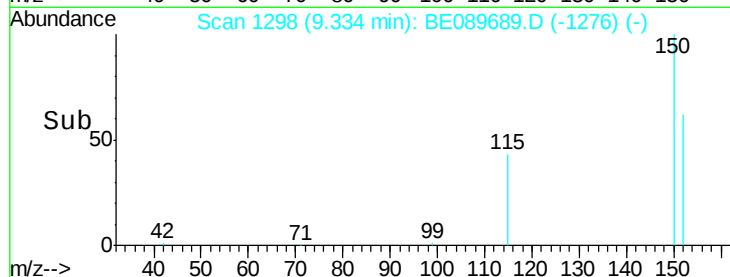
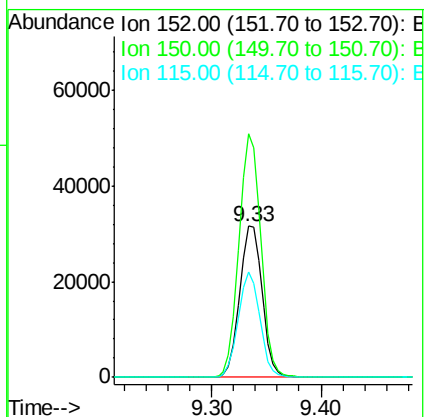
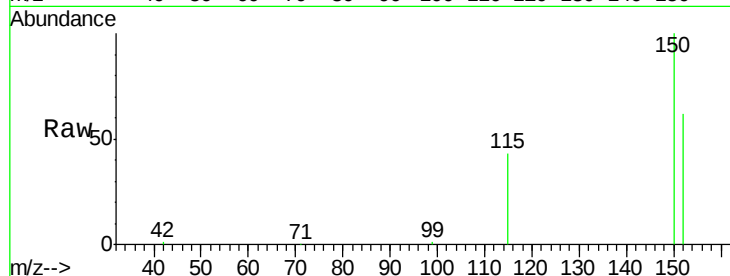
Tgt Ion:152 Resp: 44546

Ion Ratio Lower Upper

152 100

150 161.3 123.4 185.0

115 69.8 50.8 76.2



#2

1,4-Dioxane

Concen: 1.08 ng

RT: 2.18 min Scan# 116

Delta R.T. -0.44 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

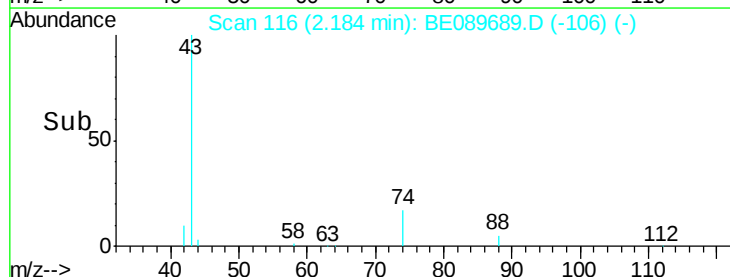
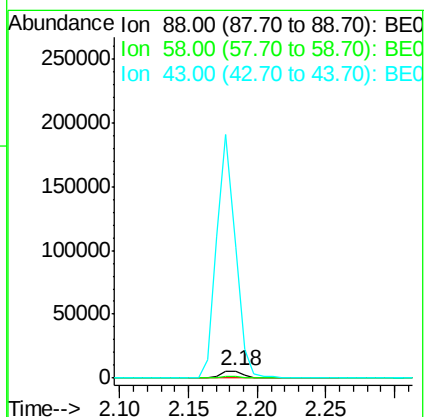
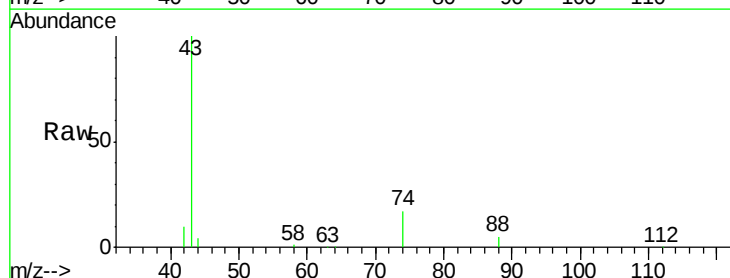
Tgt Ion: 88 Resp: 6012

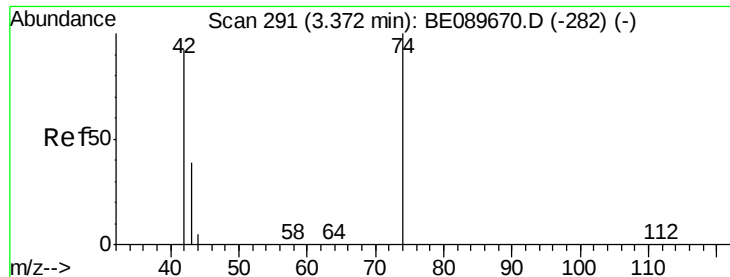
Ion Ratio Lower Upper

88 100

58 27.6 62.4 93.6#

43 3033.4 26.6 40.0#



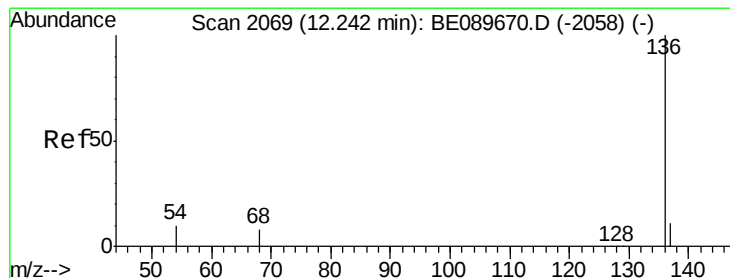
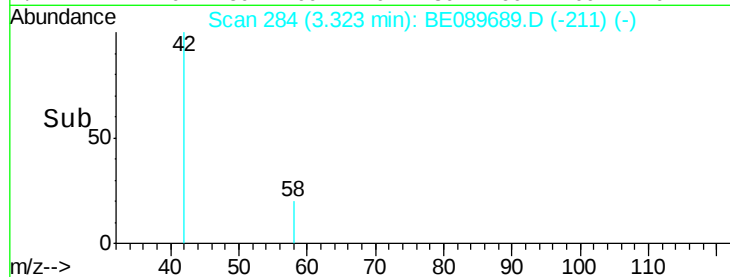
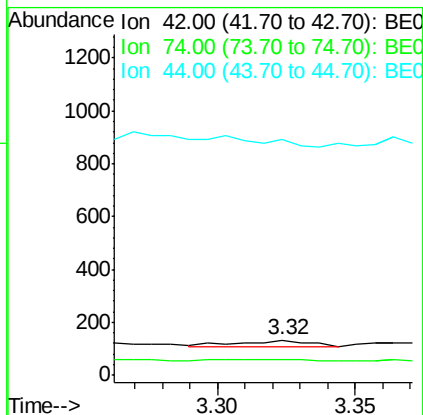
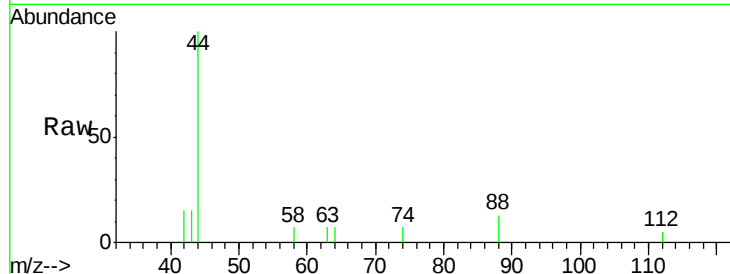


#3

n-Nitrosodimethylamine
 Concen: 0.08 ng
 RT: 3.32 min Scan# 284
 Delta R.T. -0.01 min
 Lab File: BE089689.D
 Acq: 25 Feb 2015 20:50

Instrument :
 BNA_E
 ClientSampleId :
 FB

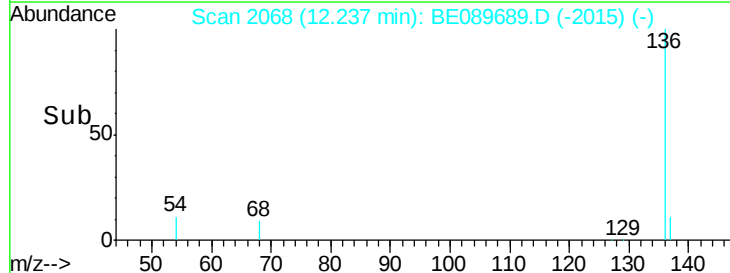
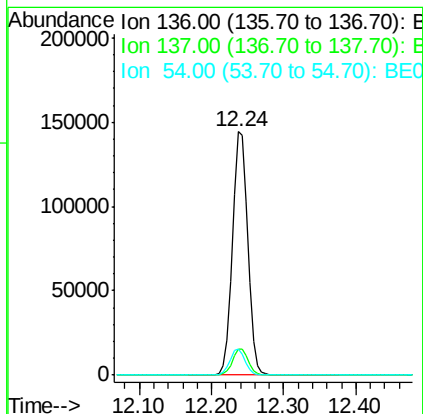
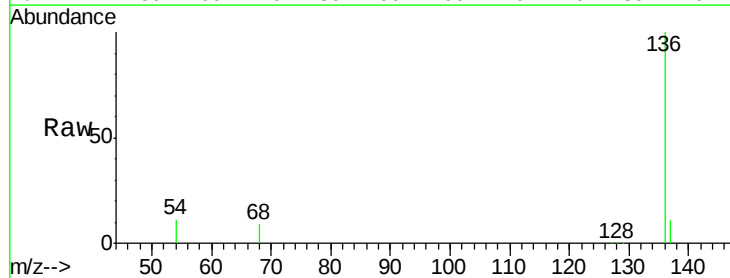
Tgt Ion: 42 Resp: 37
 Ion Ratio Lower Upper
 42 100
 74 18.9 91.1 136.7#
 44 0.0 4.7 7.1#



#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2068
 Delta R.T. -0.00 min
 Lab File: BE089689.D
 Acq: 25 Feb 2015 20:50

Tgt Ion: 136 Resp: 211438
 Ion Ratio Lower Upper
 136 100
 137 10.9 8.7 13.1
 54 10.8 7.8 11.8





#5

Nitrobenzene-d5

Concen: 6.99 ng

RT: 10.60 min Scan# 1666

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampled :

FB

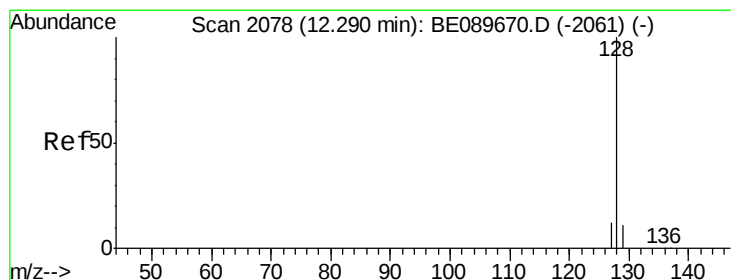
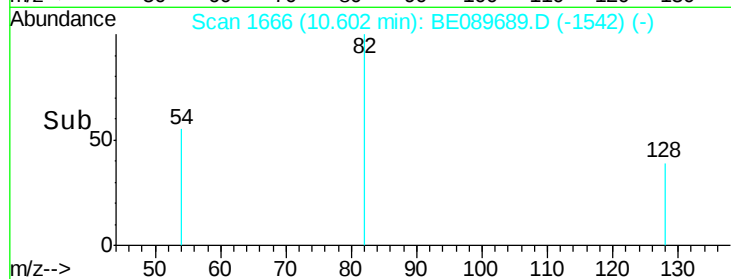
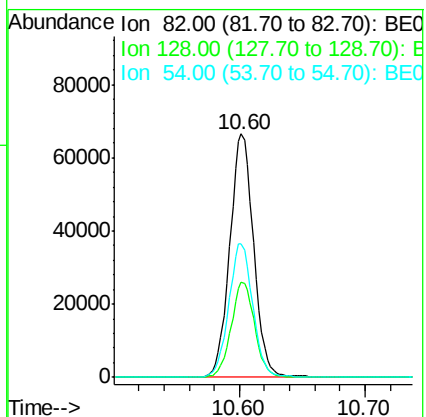
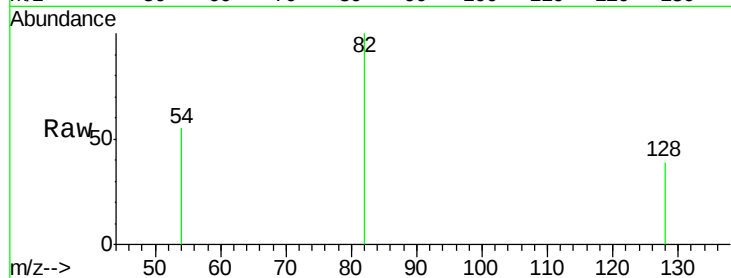
Tgt Ion: 82 Resp: 87298

Ion Ratio Lower Upper

82 100

128 39.2 30.6 46.0

54 54.8 43.6 65.4



#6

Naphthalene

Concen: 0.08 ng

RT: 12.28 min Scan# 2077

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

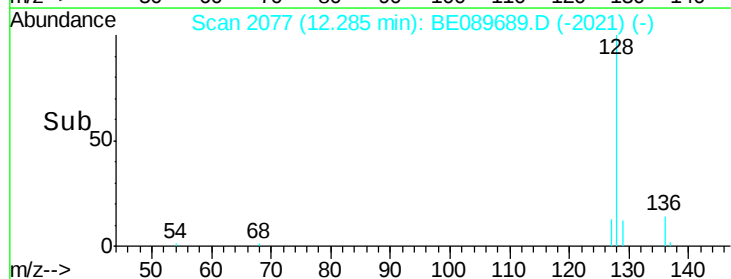
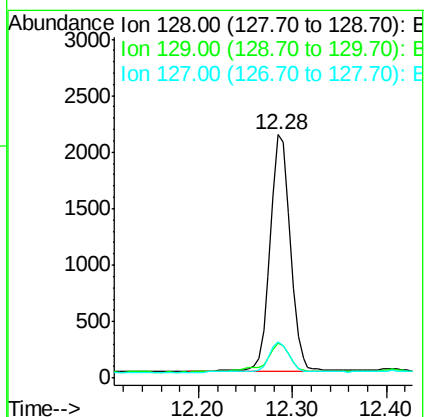
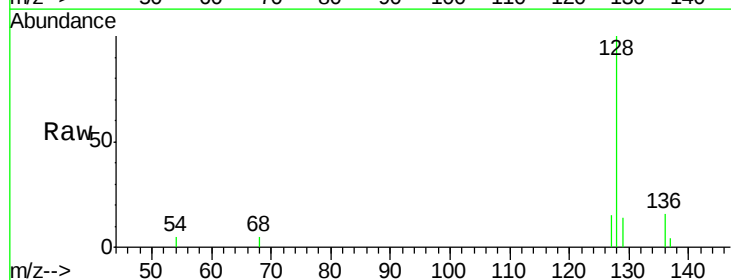
Tgt Ion: 128 Resp: 3167

Ion Ratio Lower Upper

128 100

129 14.3 8.9 13.3#

127 14.8 9.7 14.5#





#7

2-Methylnaphthalene

Concen: 0.22 ng

RT: 13.94 min Scan# 2416

Delta R.T. 0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

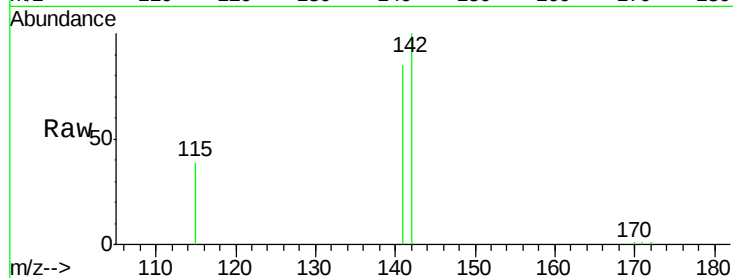
Tgt Ion:142 Resp: 5017

Ion Ratio Lower Upper

142 100

141 85.4 66.0 99.0

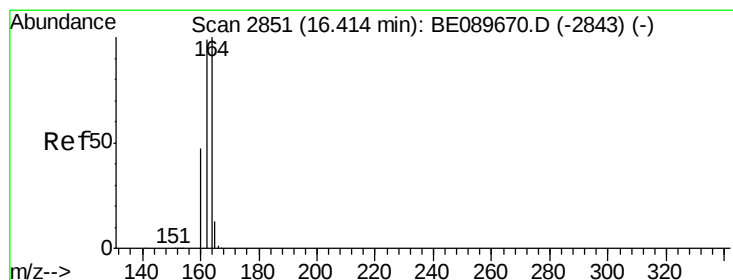
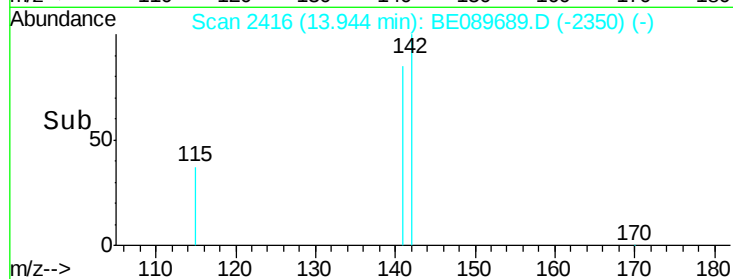
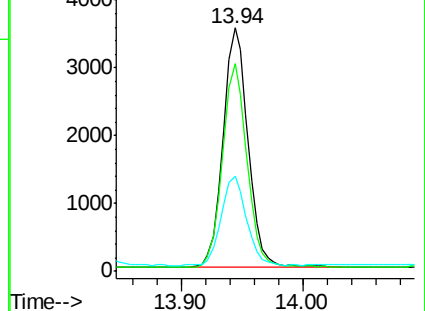
115 39.3 27.4 41.0



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: 16.41 min Scan# 2850

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

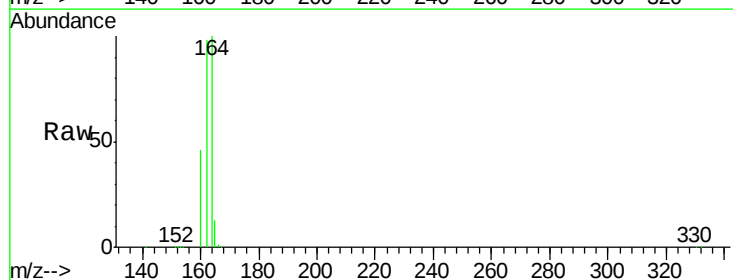
Tgt Ion:164 Resp: 98161

Ion Ratio Lower Upper

164 100

162 97.6 79.4 119.2

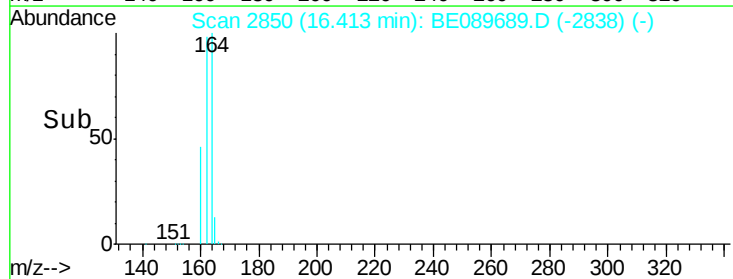
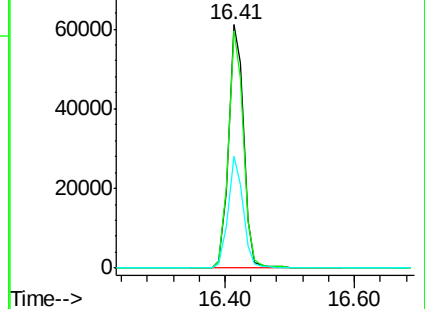
160 46.1 37.6 56.4



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: 8.48 ng

RT: 14.87 min Scan# 2620

Delta R.T. 0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

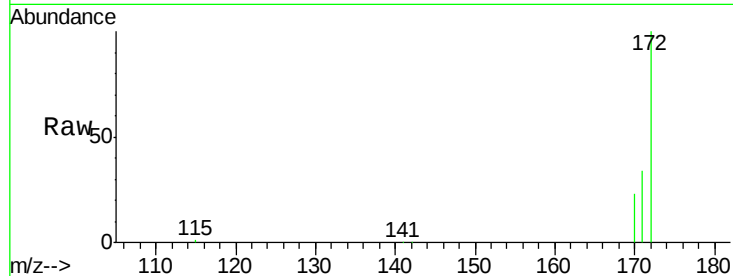
Tgt Ion:172 Resp: 185058

Ion Ratio Lower Upper

172 100

171 34.1 27.3 40.9

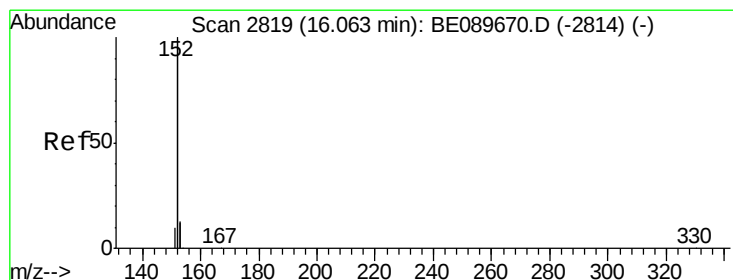
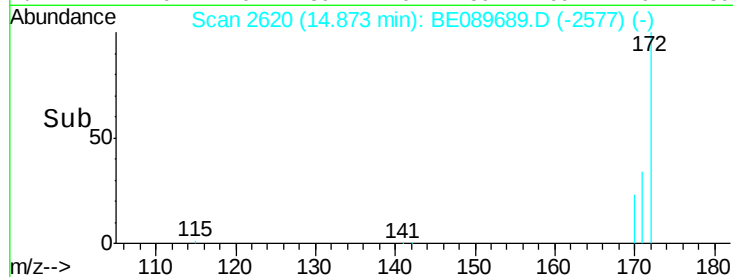
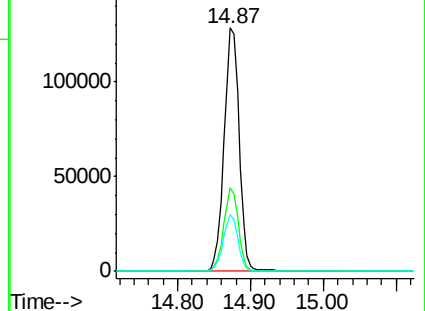
170 23.4 18.5 27.7



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: 0.08 ng

RT: 16.06 min Scan# 2818

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

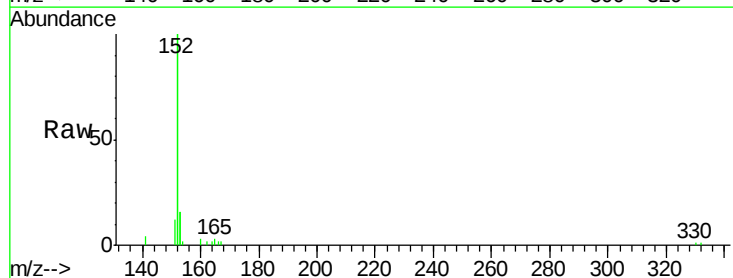
Tgt Ion:152 Resp: 11615

Ion Ratio Lower Upper

152 100

151 5.0 3.8 5.6

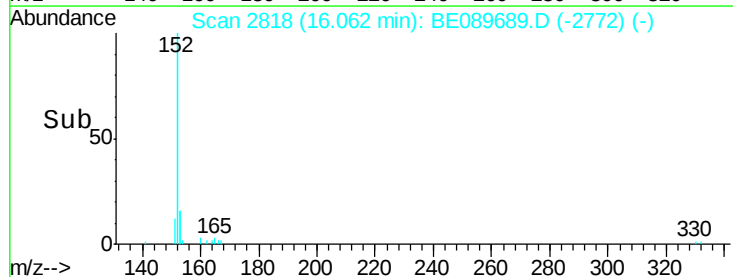
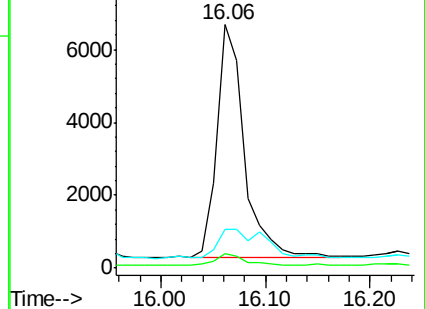
153 22.1 10.4 15.6#

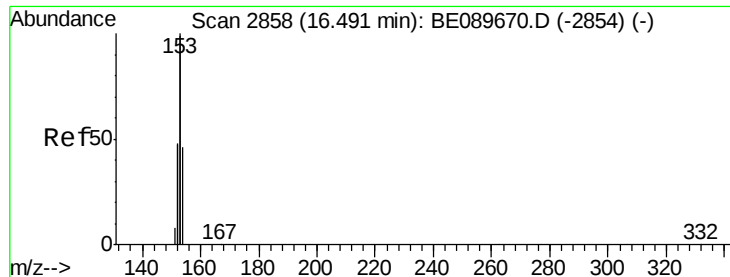


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.10 ng

RT: 16.49 min Scan# 2857

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

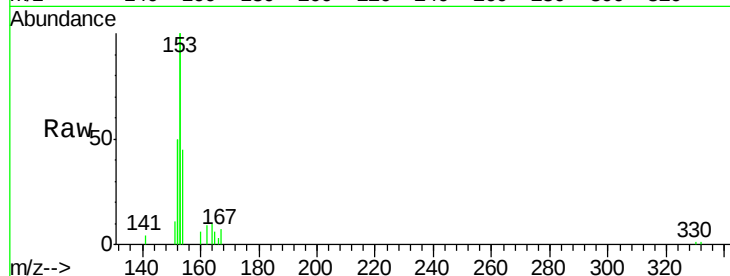
Tgt Ion:154 Resp: 2187

Ion Ratio Lower Upper

154 100

153 495.9 345.8 518.8

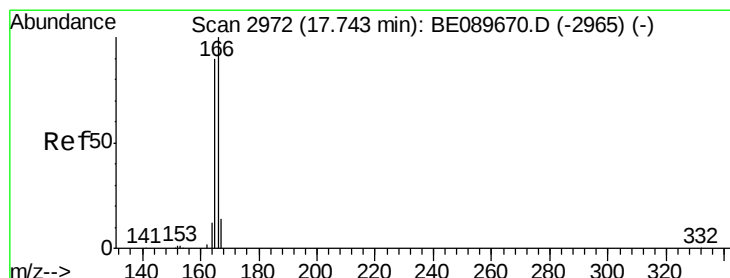
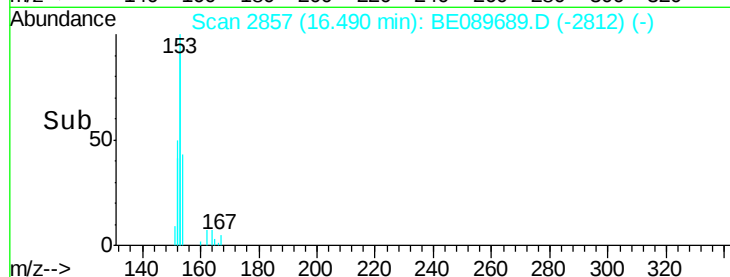
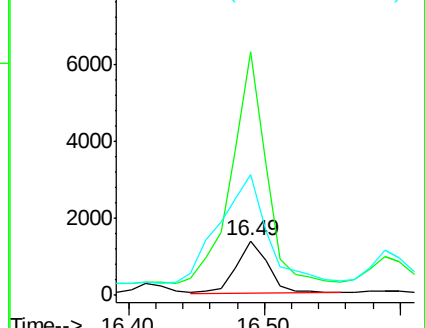
152 320.3 168.6 252.8#



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: 0.15 ng

RT: 17.74 min Scan# 2971

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

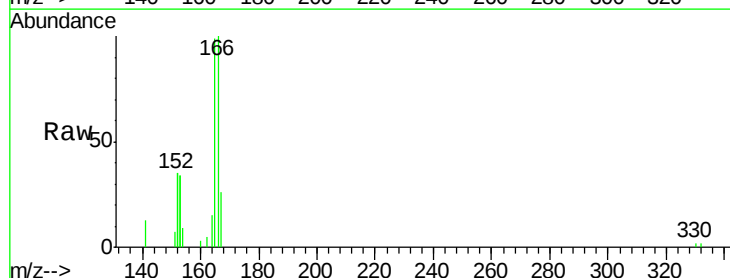
Tgt Ion:166 Resp: 3684

Ion Ratio Lower Upper

166 100

165 101.9 73.6 110.4

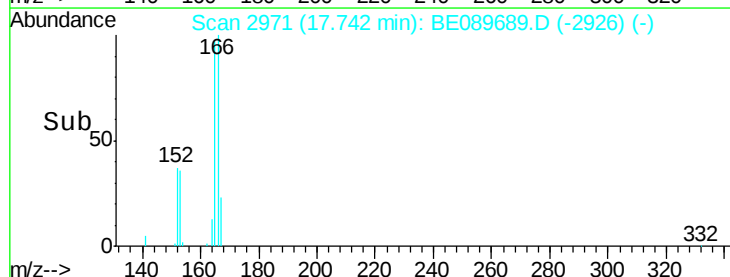
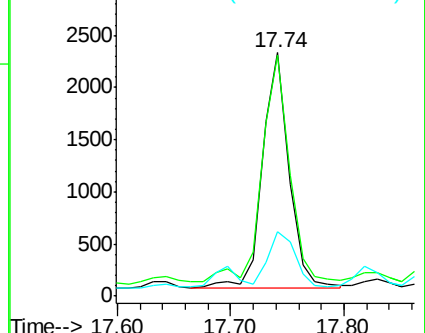
167 23.7 10.6 16.0#

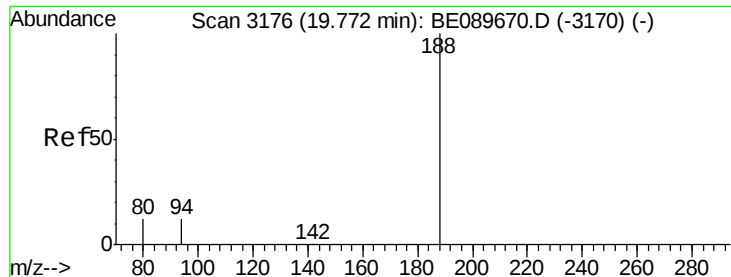


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

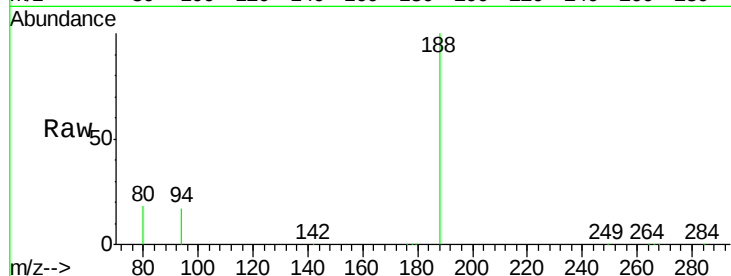




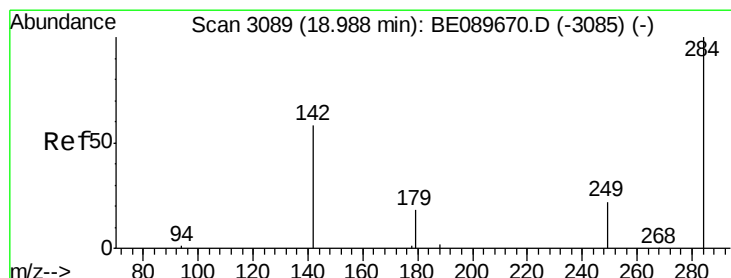
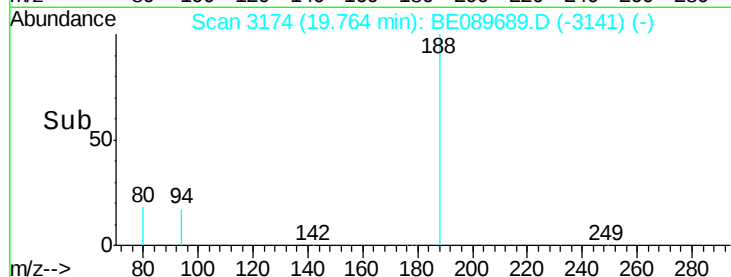
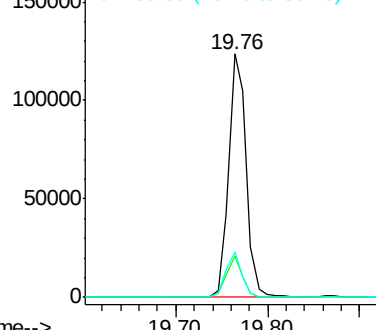
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.76 min Scan# 3174
Delta R.T. 0.00 min
Lab File: BE089689.D
Acq: 25 Feb 2015 20:50

Instrument :
BNA_E
ClientSampleId :
FB

Tgt Ion:188 Resp: 165907
Ion Ratio Lower Upper
188 100
94 17.2 9.4 14.2#
80 18.4 9.5 14.3#

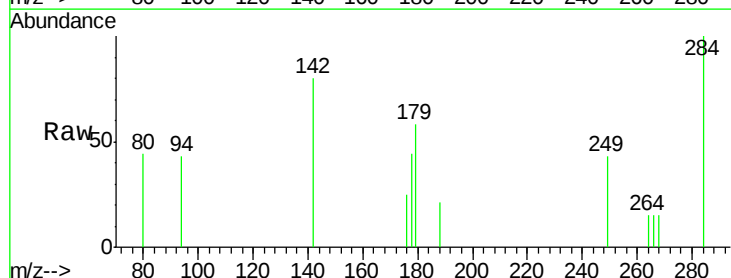


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

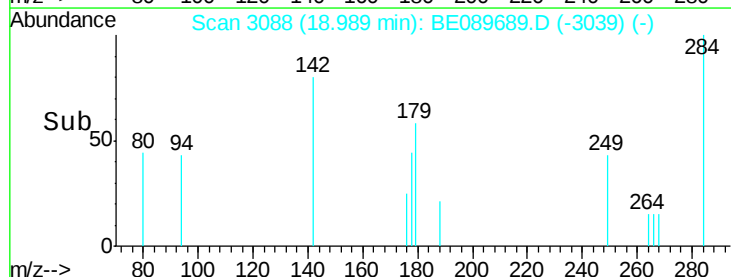
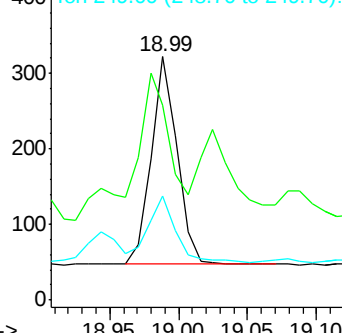


#14
Hexachlorobenzene
Concen: 0.08 ng
RT: 18.99 min Scan# 3088
Delta R.T. 0.00 min
Lab File: BE089689.D
Acq: 25 Feb 2015 20:50

Tgt Ion:284 Resp: 358
Ion Ratio Lower Upper
284 100
142 98.9 55.4 83.2#
249 34.1 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: 1.07 ng

RT: 19.43 min Scan# 3137

Delta R.T. 0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

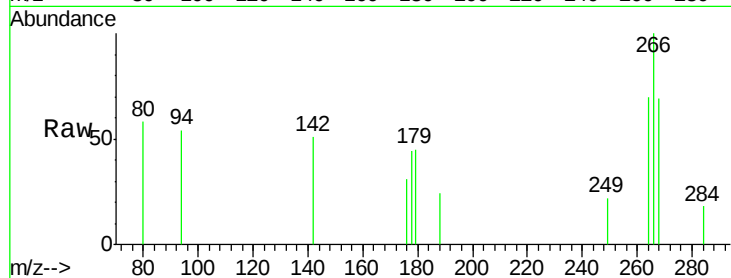
Tgt Ion:266 Resp: 418

Ion Ratio Lower Upper

266 100

268 68.8 56.3 84.5

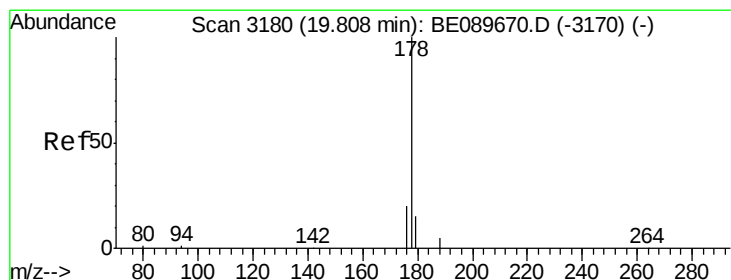
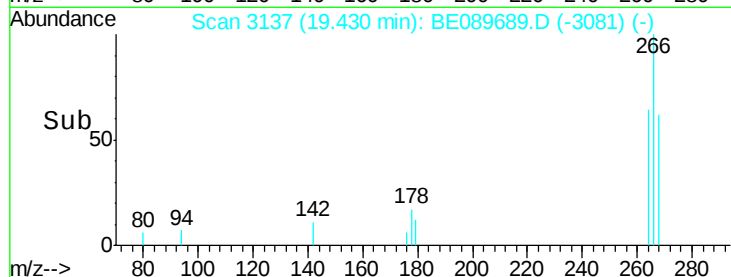
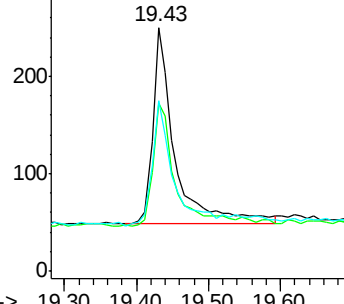
264 70.0 51.8 77.8



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: 0.26 ng

RT: 19.81 min Scan# 3179

Delta R.T. 0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

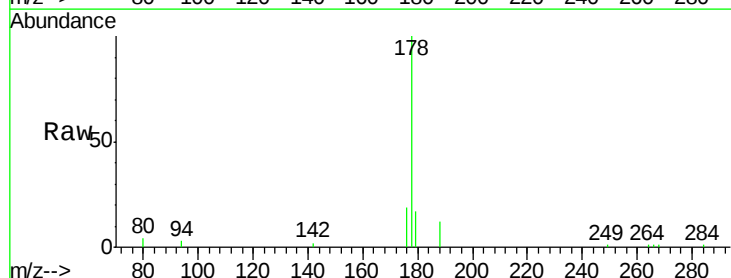
Tgt Ion:178 Resp: 9352

Ion Ratio Lower Upper

178 100

176 18.9 15.3 22.9

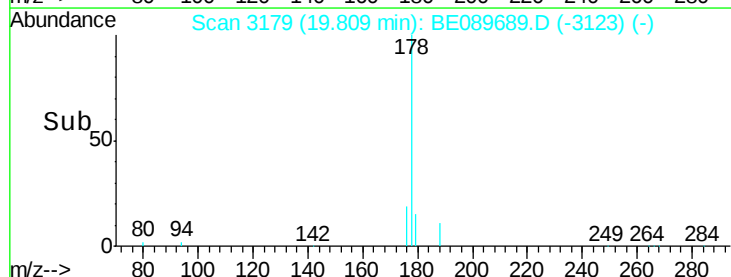
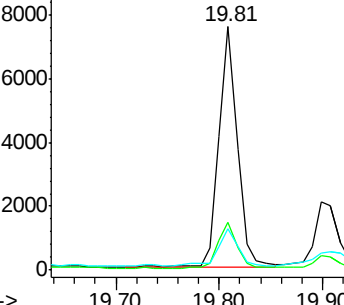
179 16.8 12.5 18.7

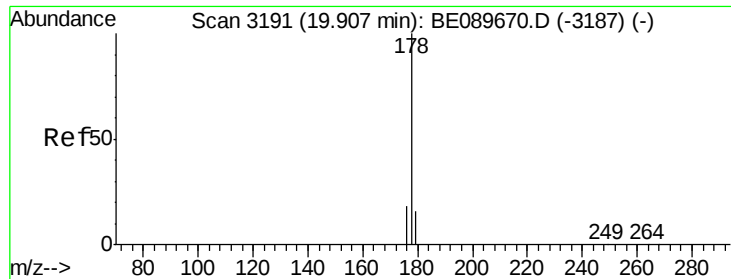


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

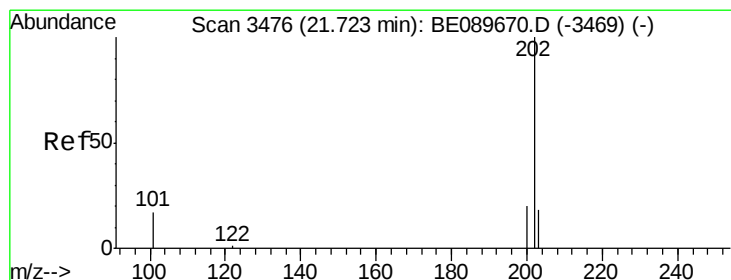
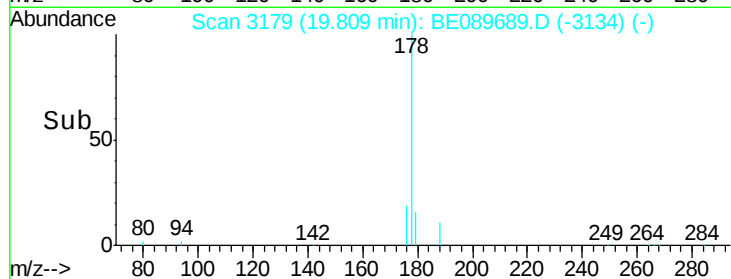
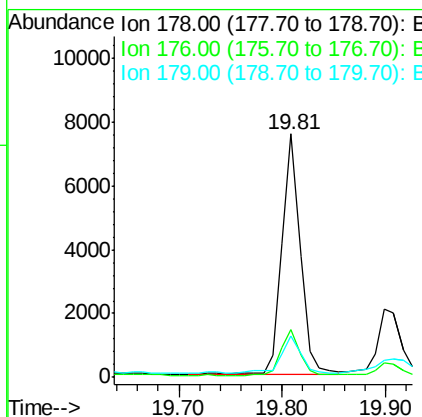
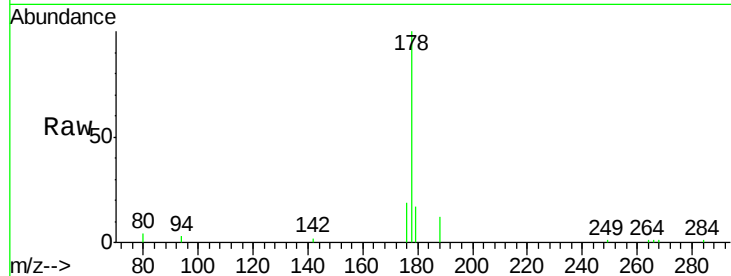




#17
 Anthracene
 Concen: 0.31 ng
 RT: 19.81 min Scan# 3179
 Delta R.T. -0.10 min
 Lab File: BE089689.D
 Acq: 25 Feb 2015 20:50

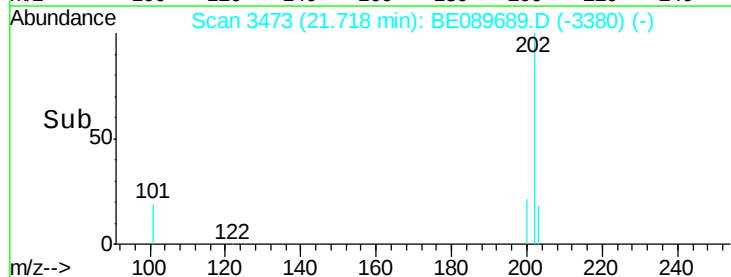
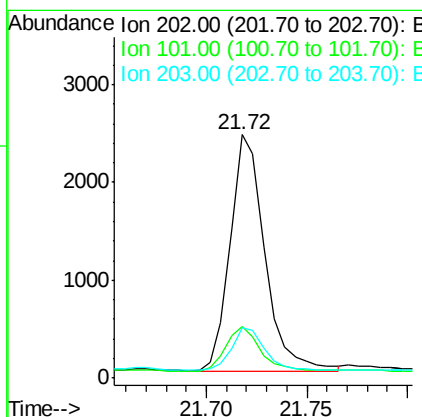
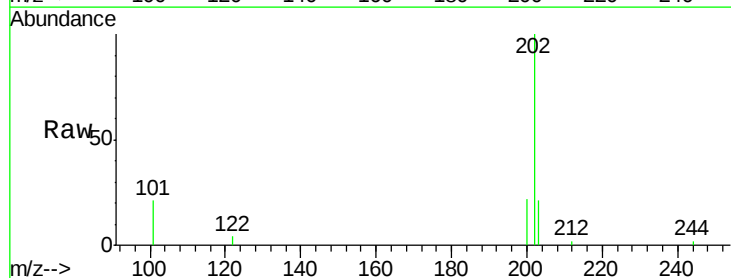
Instrument :
 BNA_E
 ClientSampleId :
 FB

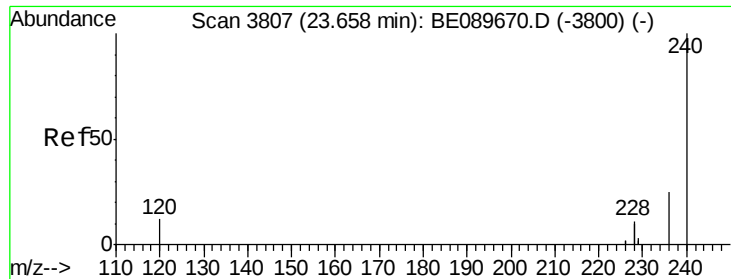
Tgt Ion:178 Resp: 9352
 Ion Ratio Lower Upper
 178 100
 176 18.9 14.8 22.2
 179 16.8 12.2 18.2



#18
 Fluoranthene
 Concen: 0.10 ng
 RT: 21.72 min Scan# 3473
 Delta R.T. -0.00 min
 Lab File: BE089689.D
 Acq: 25 Feb 2015 20:50

Tgt Ion:202 Resp: 2902
 Ion Ratio Lower Upper
 202 100
 101 18.7 14.9 22.3
 203 17.4 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.65 min Scan# 3804

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

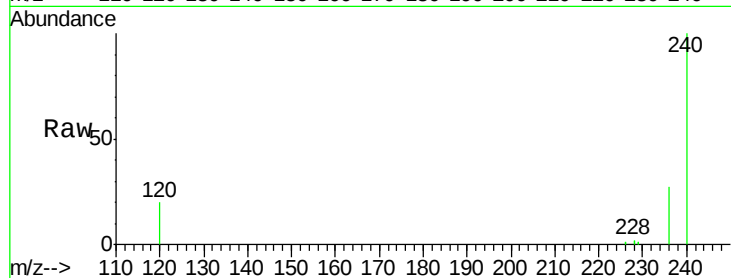
Tgt Ion:240 Resp: 116907

Ion Ratio Lower Upper

240 100

120 20.0 9.4 14.0#

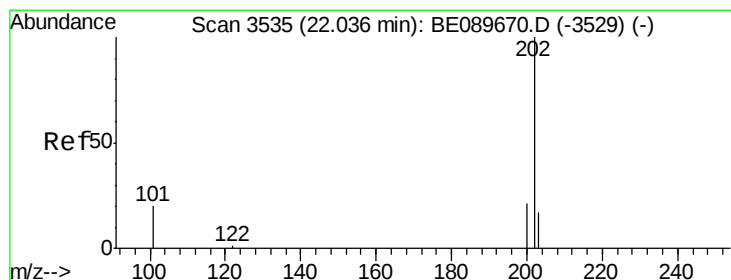
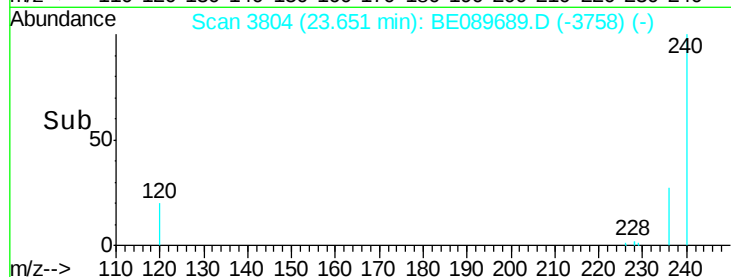
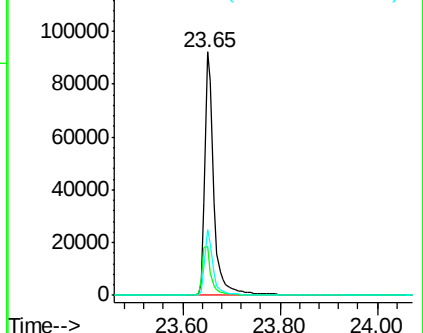
236 27.2 19.9 29.9



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: 0.10 ng

RT: 21.72 min Scan# 3473

Delta R.T. -0.32 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

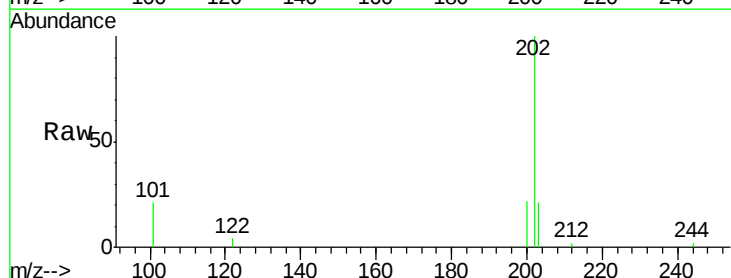
Tgt Ion:202 Resp: 2902

Ion Ratio Lower Upper

202 100

200 20.1 16.4 24.6

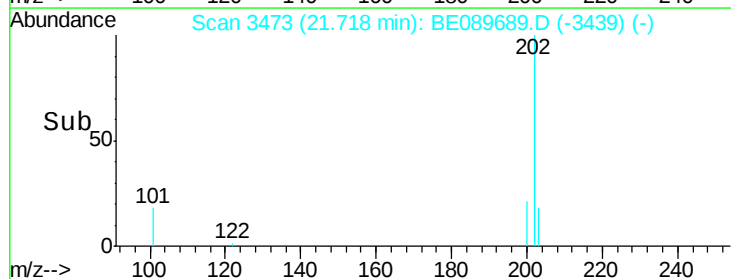
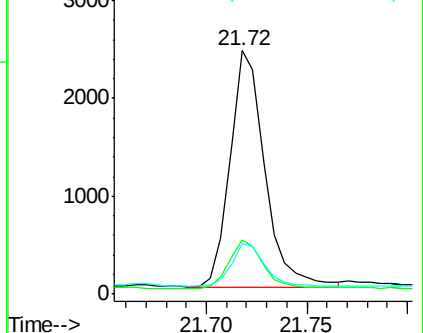
203 17.4 13.9 20.9

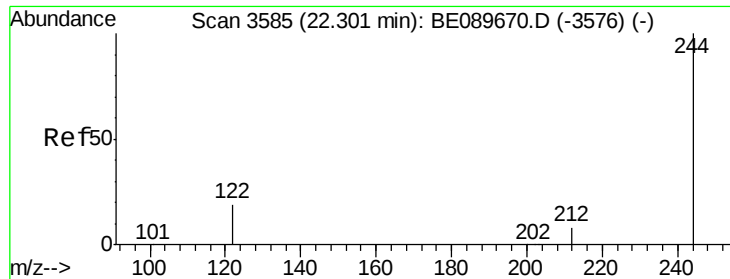


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 11.34 ng

RT: 22.30 min Scan# 3582

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

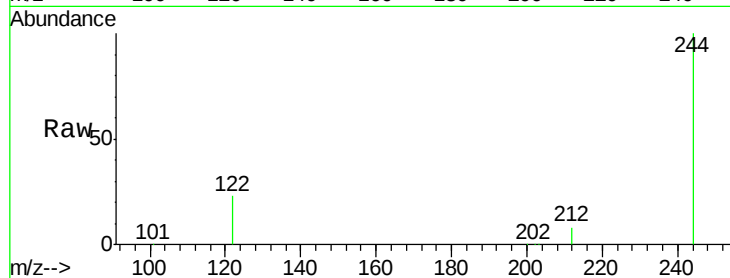
Tgt Ion:244 Resp: 155515

Ion Ratio Lower Upper

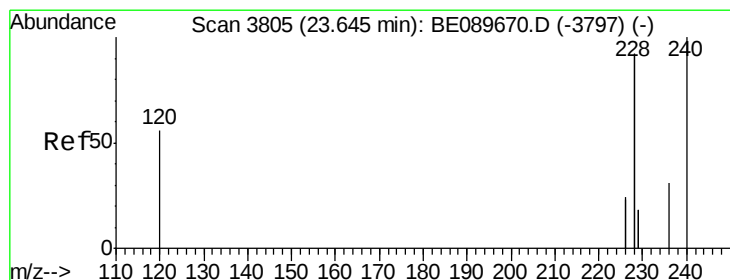
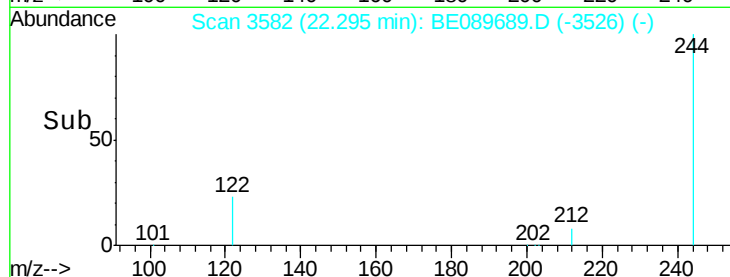
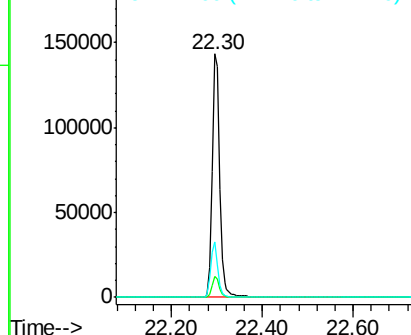
244 100

212 8.5 7.0 10.6

122 22.6 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: 0.11 ng

RT: 23.64 min Scan# 3803

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

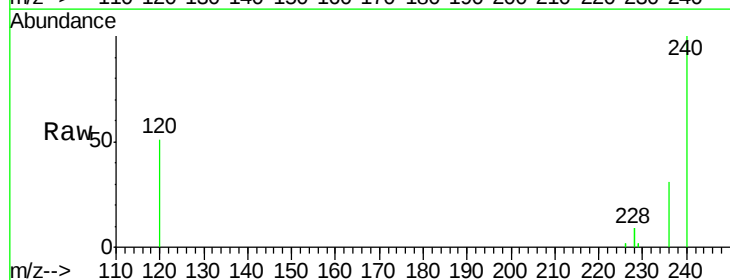
Tgt Ion:228 Resp: 8366

Ion Ratio Lower Upper

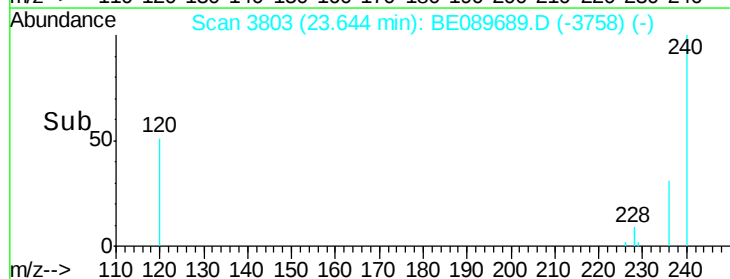
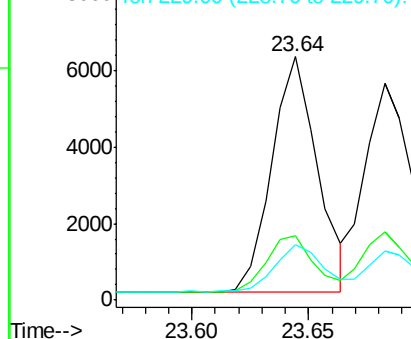
228 100

226 26.5 20.6 31.0

229 22.9 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: 0.10 ng

RT: 23.68 min Scan# 3809

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

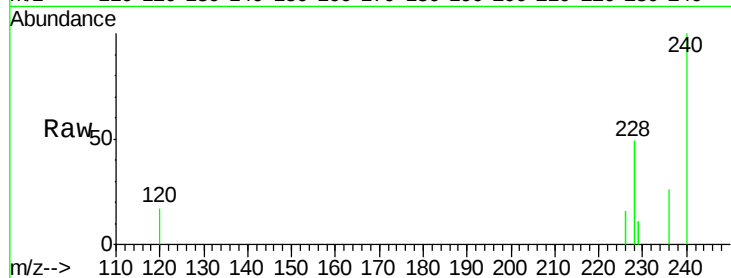
Tgt Ion:228 Resp: 10572

Ion Ratio Lower Upper

228 100

226 31.8 23.6 35.4

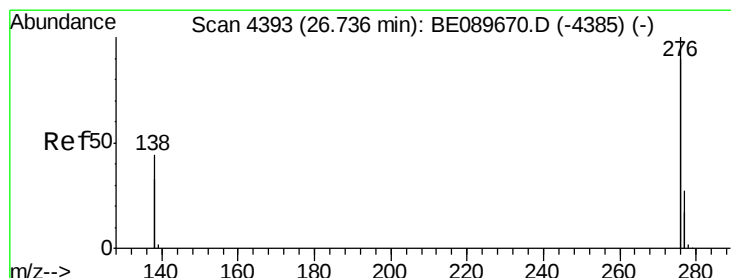
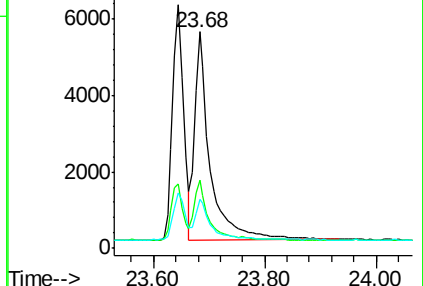
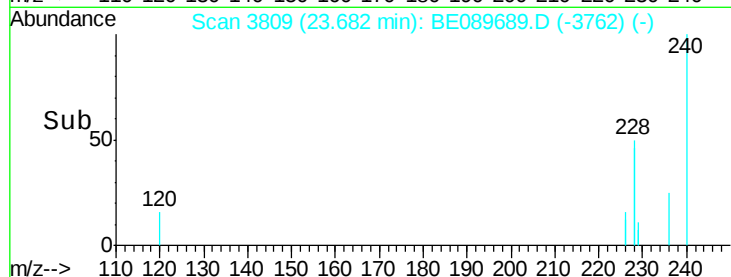
229 22.4 15.3 22.9



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: 0.13 ng

RT: 26.73 min Scan# 4391

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

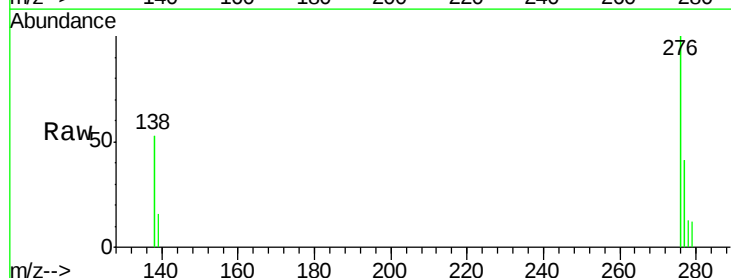
Tgt Ion:276 Resp: 2375

Ion Ratio Lower Upper

276 100

138 45.8 0.0 0.0#

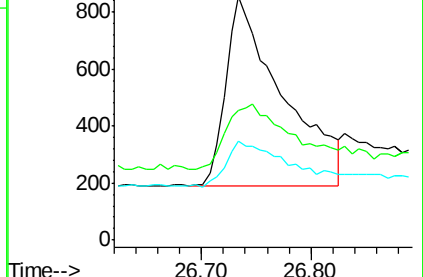
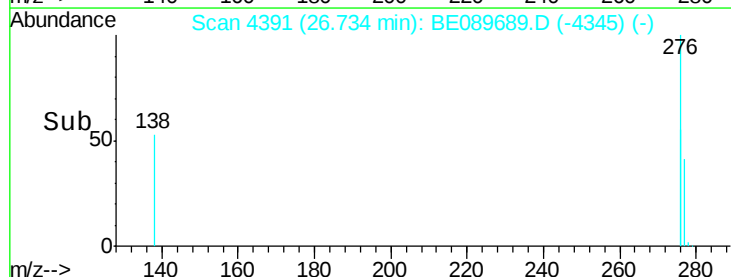
277 25.7 5.2 7.8#

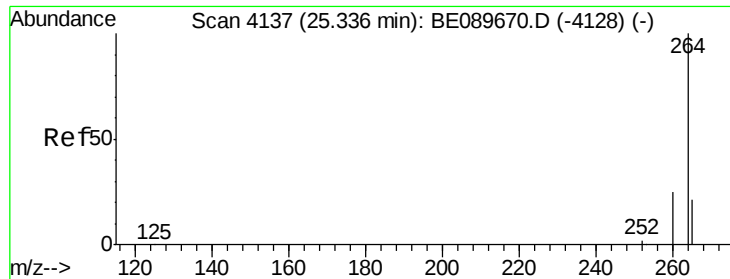


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

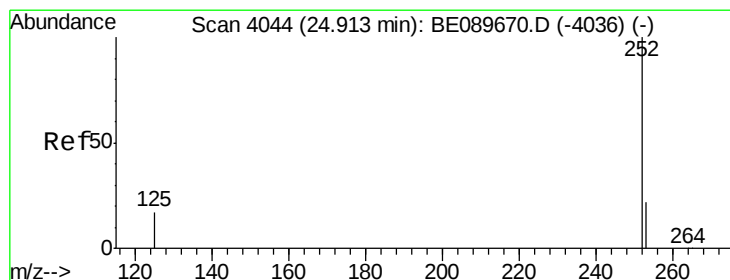
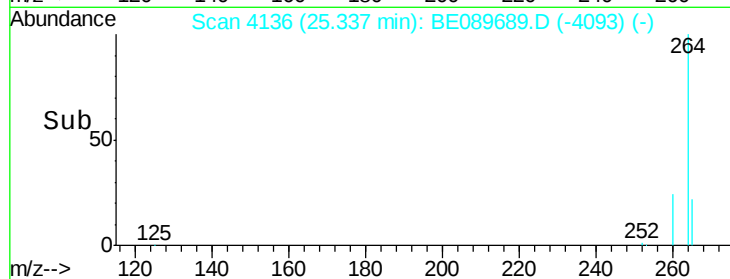
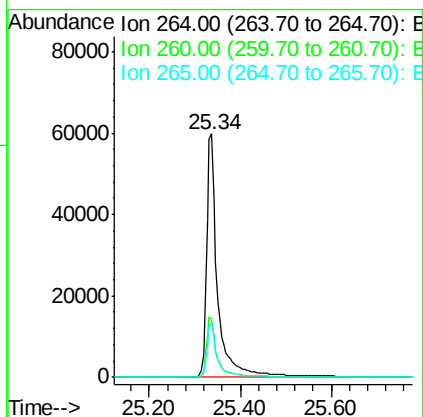
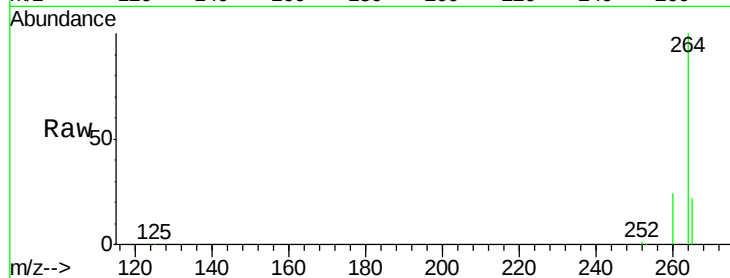




#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4136
Delta R.T. 0.00 min
Lab File: BE089689.D
Acq: 25 Feb 2015 20:50

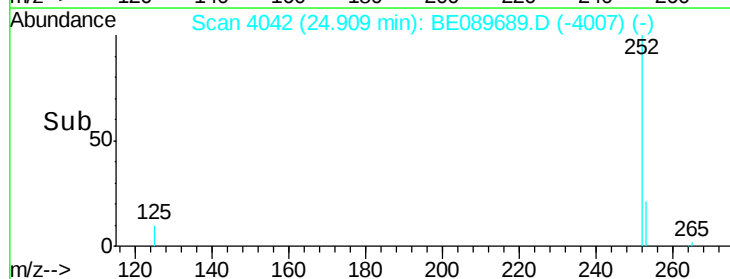
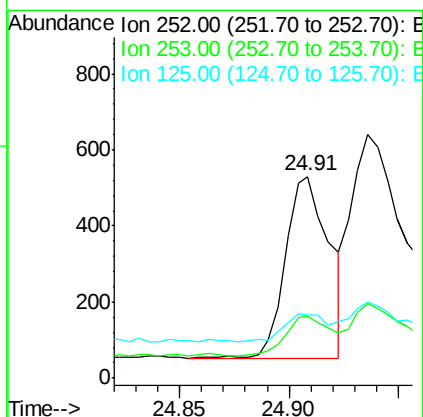
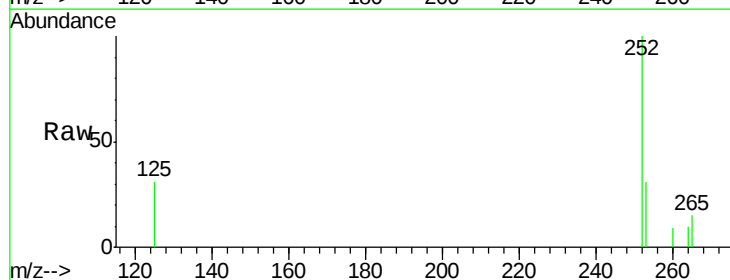
Instrument :
BNA_E
ClientSampleId :
FB

Tgt Ion: 264 Resp: 99273
Ion Ratio Lower Upper
264 100
260 23.7 20.2 30.4
265 22.0 17.0 25.4



#26
Benzo(b)fluoranthene
Concen: 0.14 ng
RT: 24.91 min Scan# 4042
Delta R.T. 0.00 min
Lab File: BE089689.D
Acq: 25 Feb 2015 20:50

Tgt Ion: 252 Resp: 660
Ion Ratio Lower Upper
252 100
253 30.6 18.6 27.8#
125 31.1 15.0 22.6#





#27

Benzo(k)fluoranthene

Concen: 0.12 ng

RT: 24.94 min Scan# 4048

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

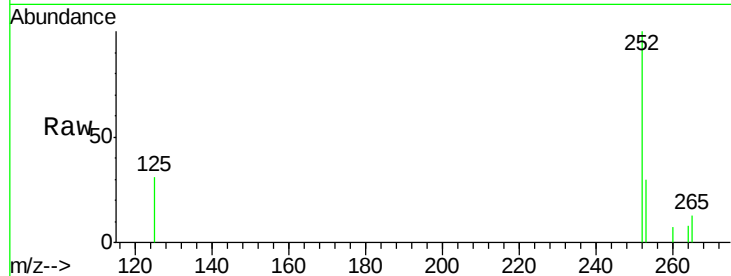
Tgt Ion:252 Resp: 1344

Ion Ratio Lower Upper

252 100

253 30.5 18.0 27.0#

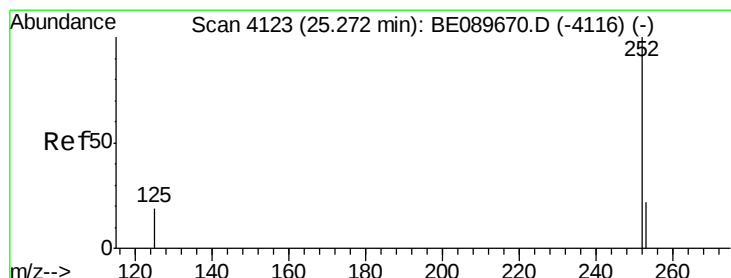
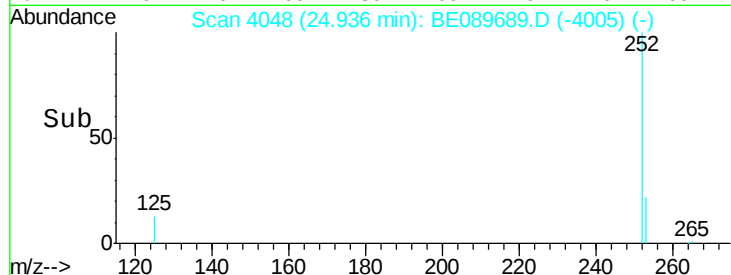
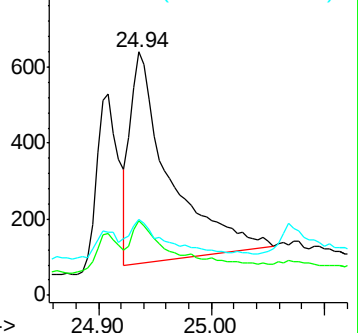
125 31.4 14.3 21.5#



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: 0.12 ng

RT: 25.27 min Scan# 4121

Delta R.T. 0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

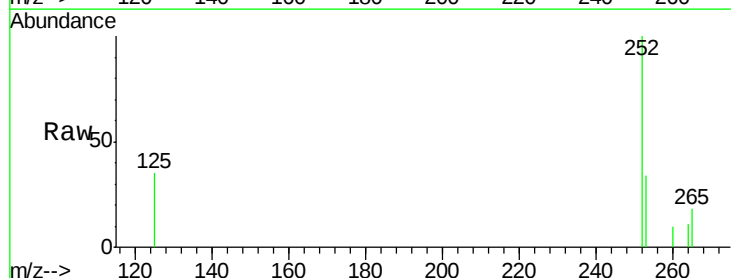
Tgt Ion:252 Resp: 706

Ion Ratio Lower Upper

252 100

253 33.8 18.8 28.2#

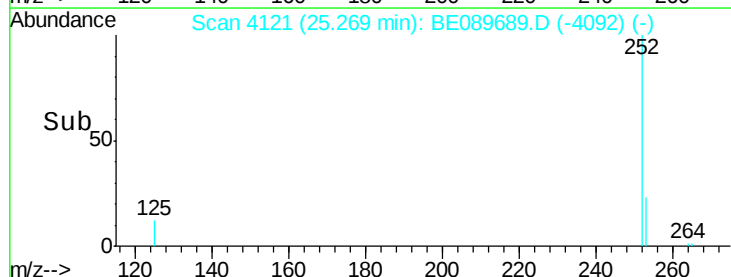
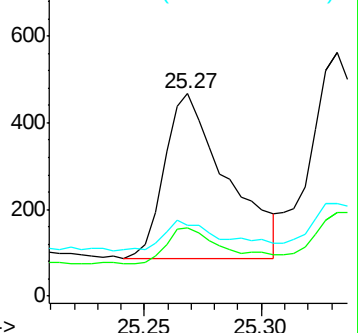
125 34.7 16.6 24.8#



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: 0.18 ng

RT: 26.77 min Scan# 4396

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

Instrument :

BNA_E

ClientSampleId :

FB

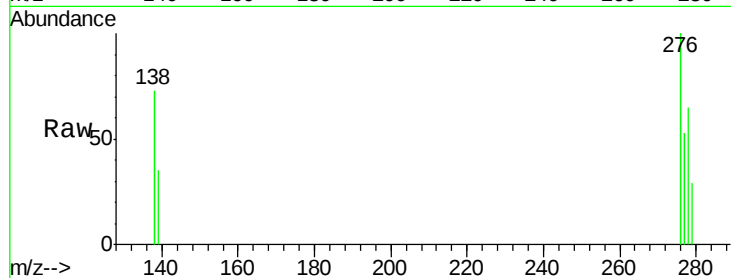
Tgt Ion:278 Resp: 516

Ion Ratio Lower Upper

278 100

139 54.1 30.4 45.6#

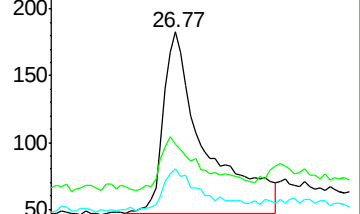
279 43.7 22.0 33.0#



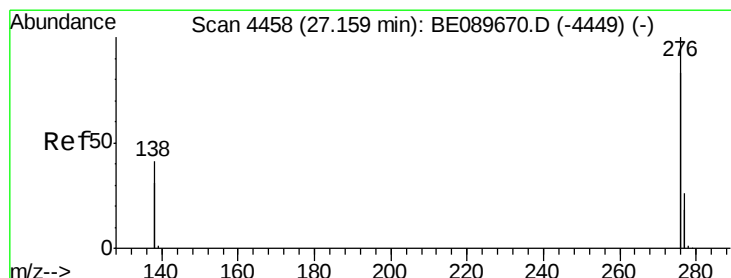
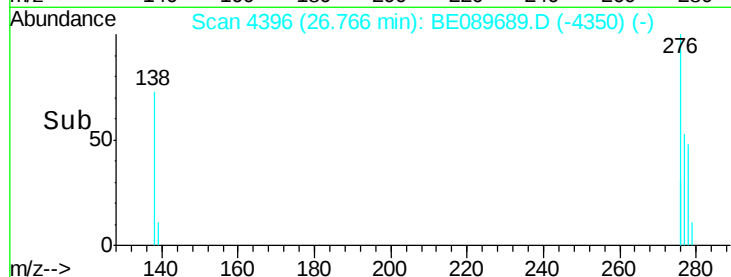
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->



#30

Benzo(g,h,i)perylene

Concen: 0.17 ng

RT: 27.15 min Scan# 4455

Delta R.T. -0.00 min

Lab File: BE089689.D

Acq: 25 Feb 2015 20:50

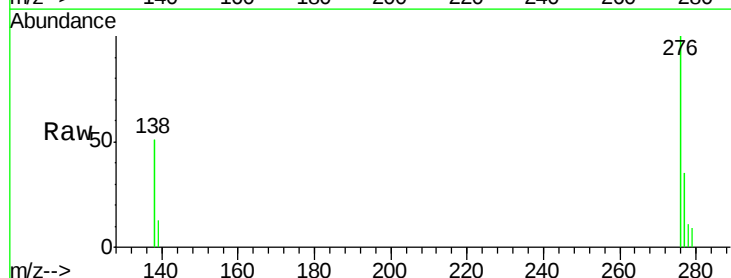
Tgt Ion:276 Resp: 3687

Ion Ratio Lower Upper

276 100

277 34.9 21.0 31.6#

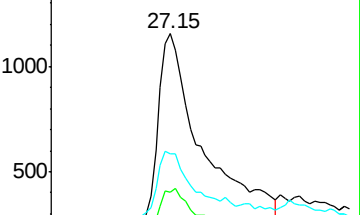
138 50.7 33.0 49.4#



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



Time-->

