

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022615\
 Data File : BE089696.D
 Acq On : 26 Feb 2015 18:12
 Operator : TP/JJ
 Sample : G1353-01RE
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW-2

Quant Time: Feb 27 01:17:01 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 14:06:35 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.33	152	57673	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	248730	5.00	ng	0.00
8) Acenaphthene-d10	16.41	164	118404	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	218038	5.00	ng	0.00
19) Chrysene-d12	23.65	240	182198	5.00	ng	0.00
25) Perylene-d12	25.33	264	142611	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	99837	6.81	ng	0.00
9) 2-Fluorobiphenyl	14.87	172	207615	7.88	ng	0.00
21) Terphenyl-d14	22.30	244	228218	10.68	ng	0.00

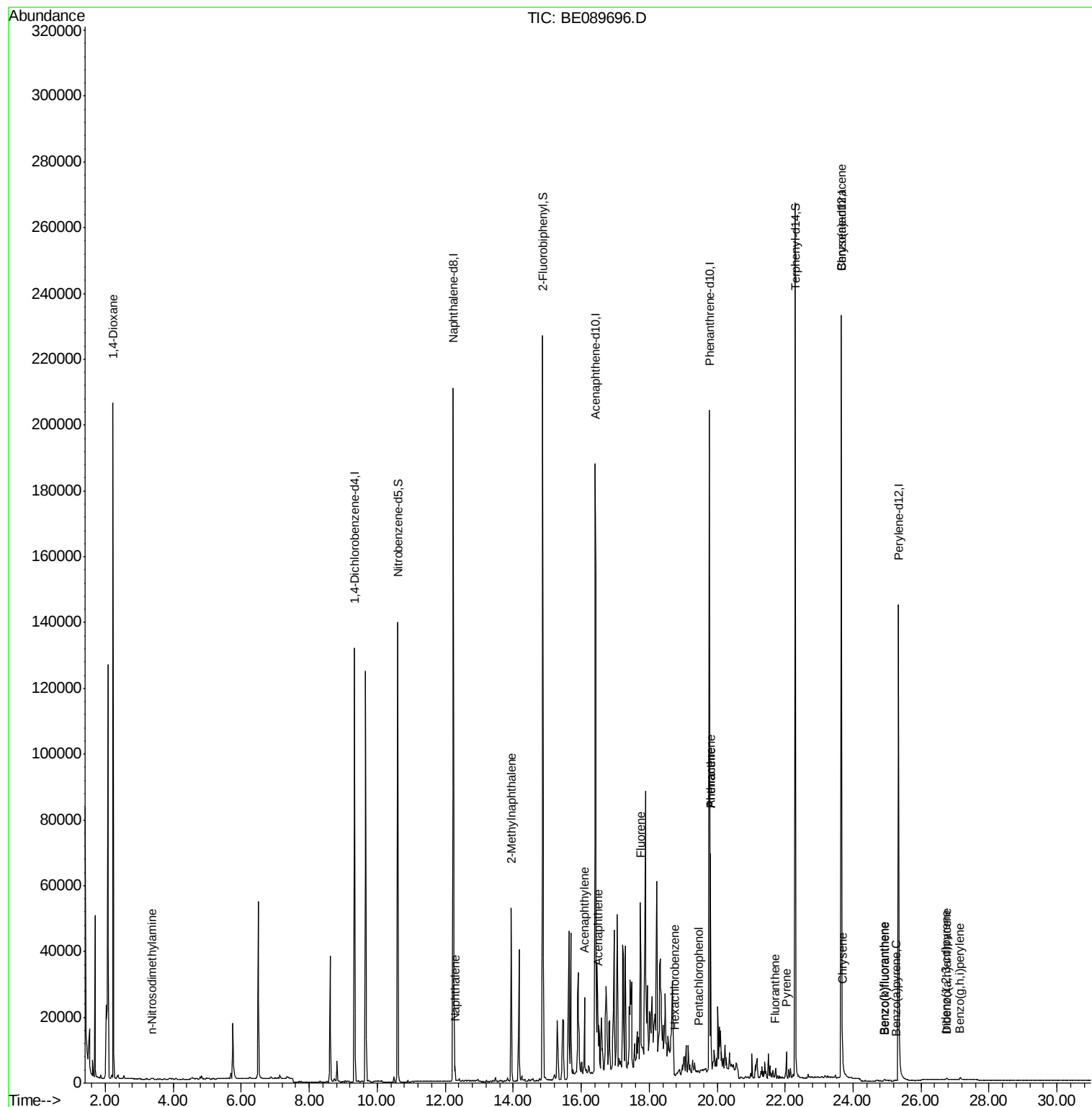
Target Compounds						Qvalue
2) 1,4-Dioxane	2.23	88	5225	0.72	ng	# 1
3) n-Nitrosodimethylamine	3.36	42	54	0.08	ng	# 12
6) Naphthalene	12.28	128	5242	0.11	ng	# 86
7) 2-Methylnaphthalene	13.94	142	34292	1.25	ng	# 98
10) Acenaphthylene	16.10	152	11233	0.07	ng	# 1
11) Acenaphthene	16.49	154	3977	0.15	ng	# 1
12) Fluorene	17.74	166	16277	0.55	ng	# 67
14) Hexachlorobenzene	18.74	284	173	0.03	ng	# 24
15) Pentachlorophenol	19.44	266	62	0.12	ng	# 78
16) Phenanthrene	19.81	178	57619	1.24	ng	# 98
17) Anthracene	19.81	178	57619	1.46	ng	# 97
18) Fluoranthene	21.72	202	2400	0.06	ng	# 80
20) Pyrene	22.04	202	5950	0.14	ng	# 82
22) Benzo(a)anthracene	23.65	228	4781	0.04	ng	# 73
23) Chrysene	23.68	228	4702	0.03	ng	# 74
24) Indeno(1,2,3-cd)pyrene	26.74	276	986	0.06	ng	# 41
26) Benzo(b)fluoranthene	24.91	252	409	0.06	ng	# 1
27) Benzo(k)fluoranthene	24.94	252	368	0.08	ng	# 1
28) Benzo(a)pyrene	25.27	252	202	0.03	ng	# 1
29) Dibenzo(a,h)anthracene	26.76	278	140	0.10	ng	# 1
30) Benzo(g,h,i)perylene	27.15	276	1437	0.11	ng	# 45

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.33 min Scan# 1298

Delta R.T. -0.00 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

Instrument :

BNA_E

ClientSampleId :

MW-2

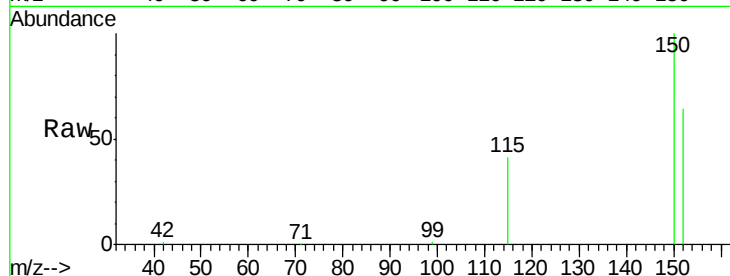
Tgt Ion:152 Resp: 57673

Ion Ratio Lower Upper

152 100

150 156.8 123.4 185.0

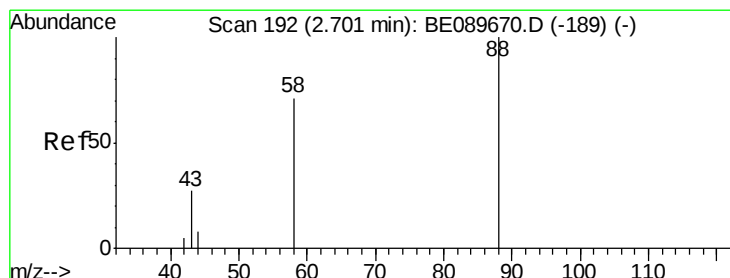
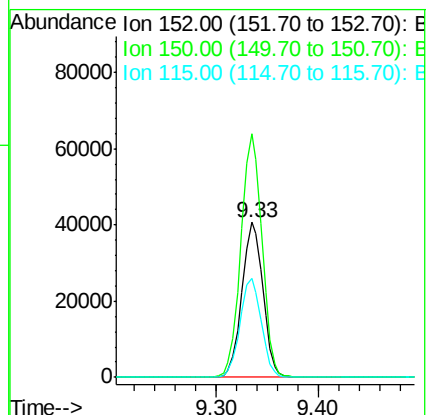
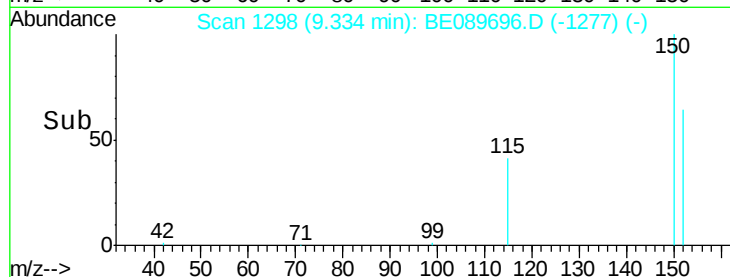
115 63.9 50.8 76.2



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: 0.72 ng

RT: 2.23 min Scan# 123

Delta R.T. -0.47 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

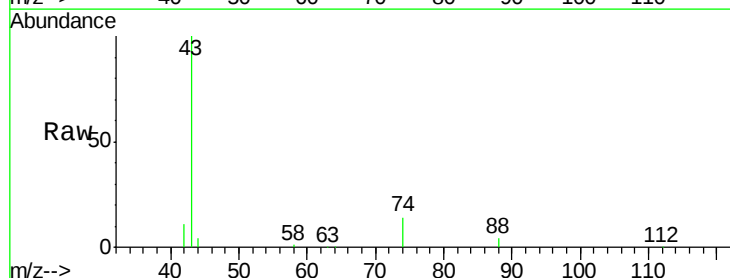
Tgt Ion: 88 Resp: 5225

Ion Ratio Lower Upper

88 100

58 31.5 62.4 93.6#

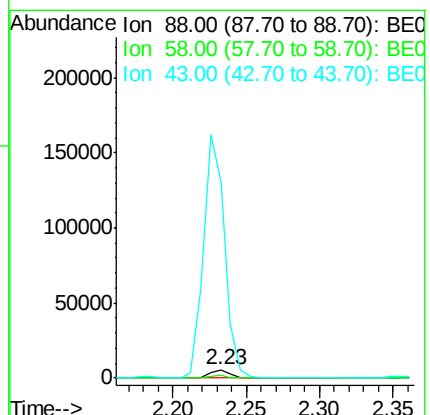
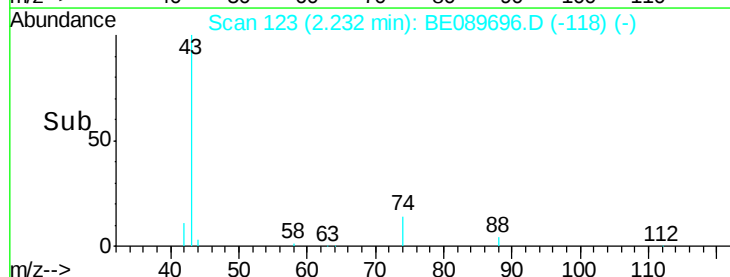
43 3062.4 26.6 40.0#

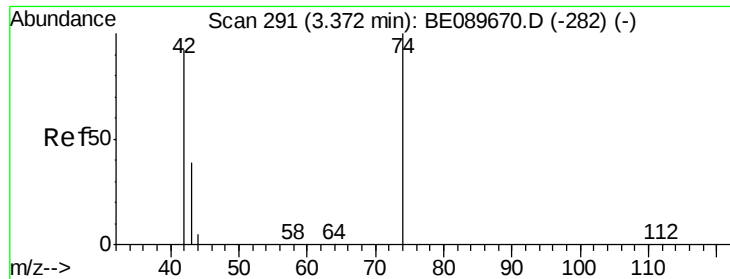


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.08 ng

RT: 3.36 min Scan# 290

Delta R.T. -0.01 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

Instrument :

BNA_E

ClientSampleId :

MW-2

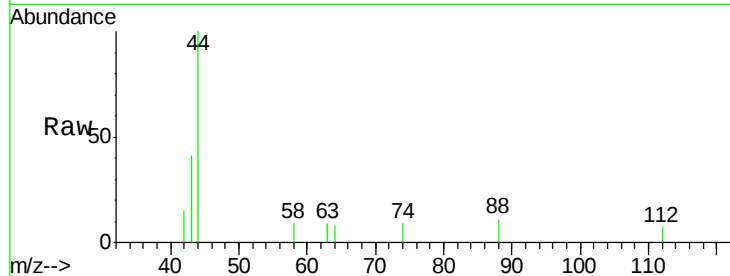
Tgt Ion: 42 Resp: 54

Ion Ratio Lower Upper

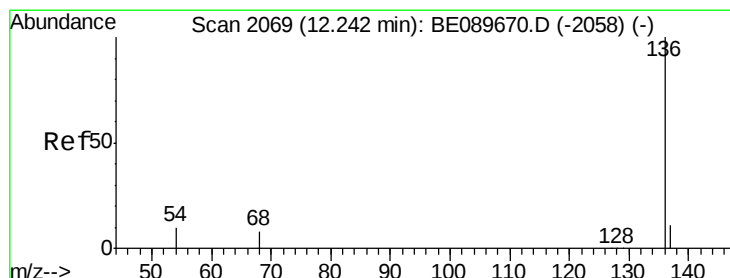
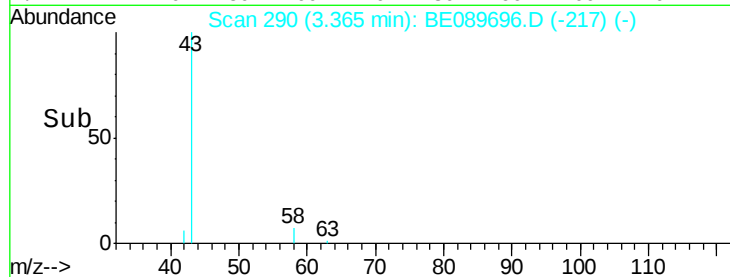
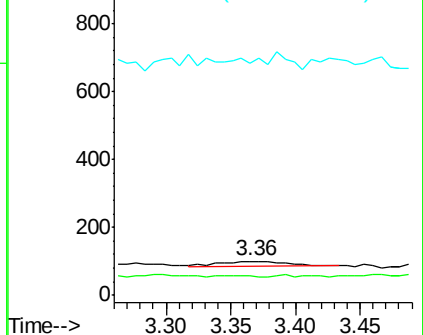
42 100

74 14.8 91.1 136.7#

44 0.0 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: BE089696.D

Acq: 26 Feb 2015 18:12

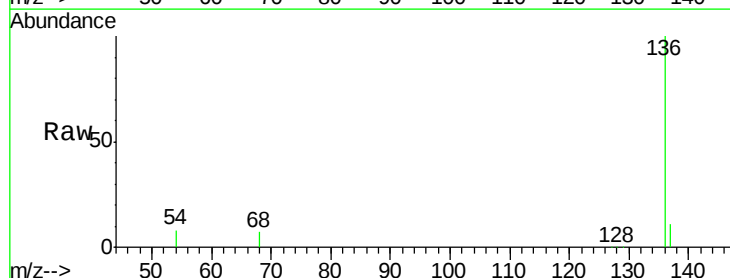
Tgt Ion: 136 Resp: 248730

Ion Ratio Lower Upper

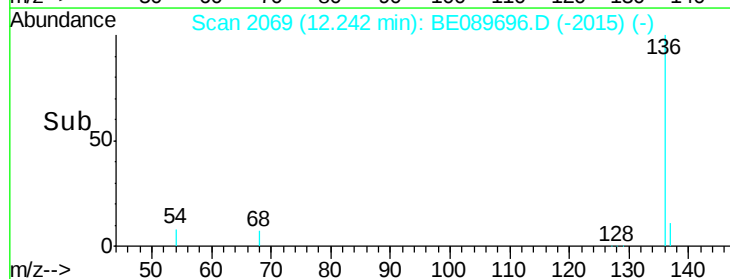
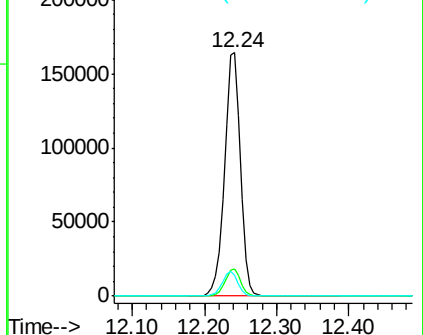
136 100

137 11.0 8.7 13.1

54 8.5 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: 6.81 ng

RT: 10.60 min Scan# 1666

Delta R.T. -0.00 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

Instrument :

BNA_E

ClientSampleId :

MW-2

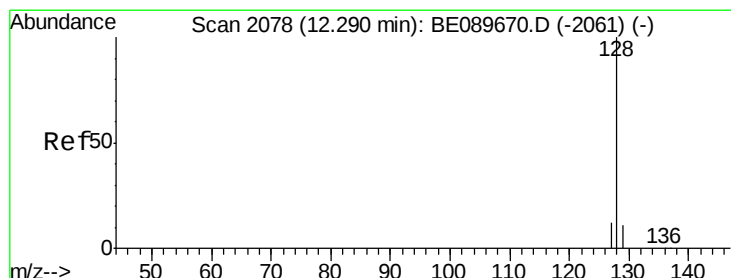
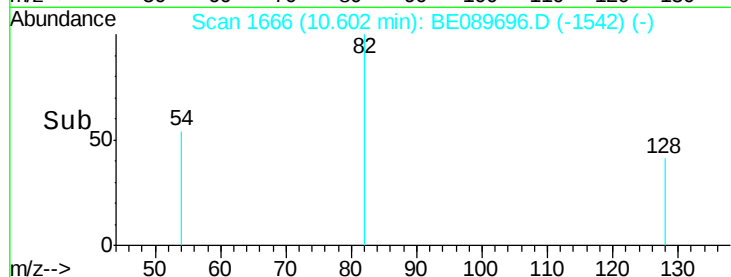
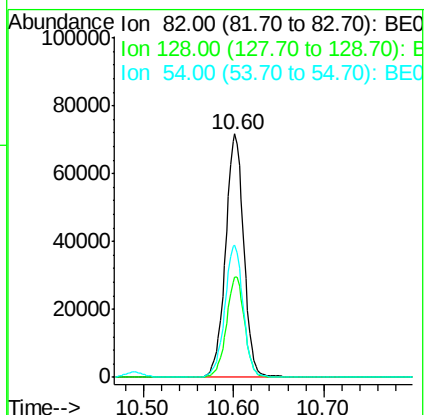
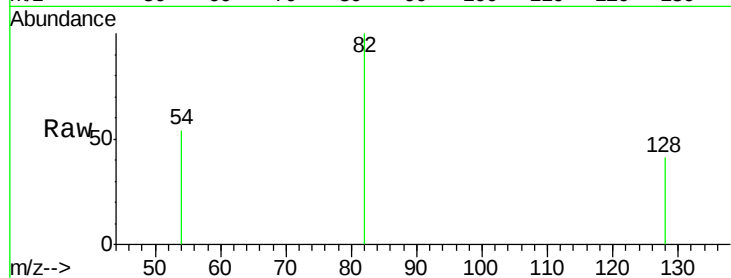
Tgt Ion: 82 Resp: 99837

Ion Ratio Lower Upper

82 100

128 41.1 30.6 46.0

54 54.4 43.6 65.4



#6

Naphthalene

Concen: 0.11 ng

RT: 12.28 min Scan# 2077

Delta R.T. -0.01 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

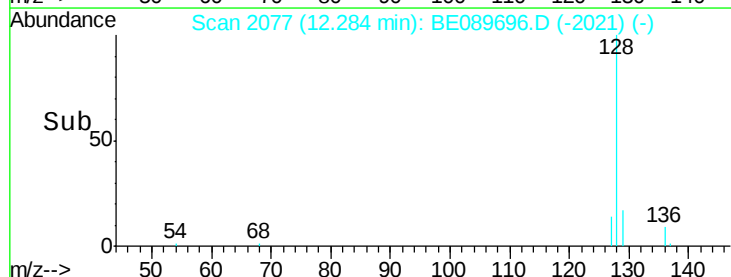
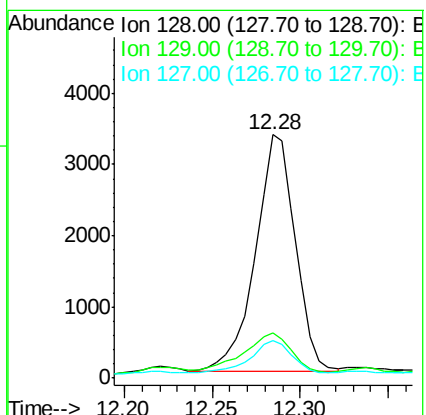
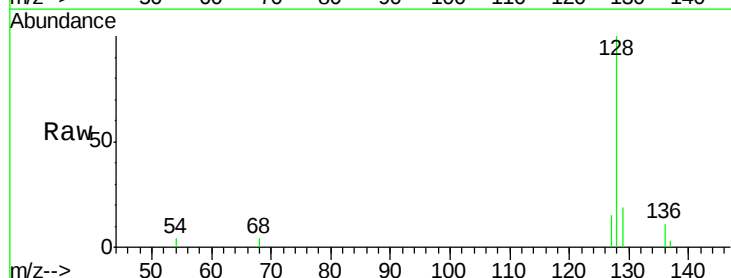
Tgt Ion: 128 Resp: 5242

Ion Ratio Lower Upper

128 100

129 18.7 8.9 13.3#

127 15.3 9.7 14.5#





#7

2-Methylnaphthalene

Concen: 1.25 ng

RT: 13.94 min Scan# 2416

Delta R.T. -0.00 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

Instrument :

BNA_E

ClientSampleId :

MW-2

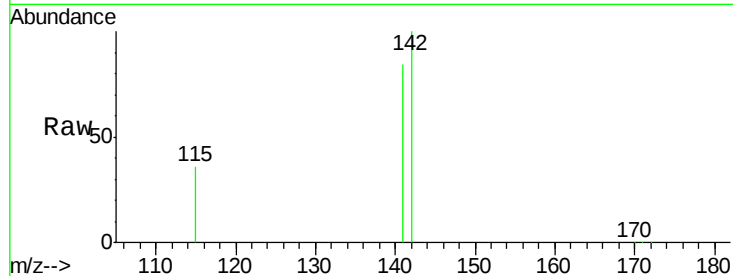
Tgt Ion:142 Resp: 34292

Ion Ratio Lower Upper

142 100

141 83.7 66.0 99.0

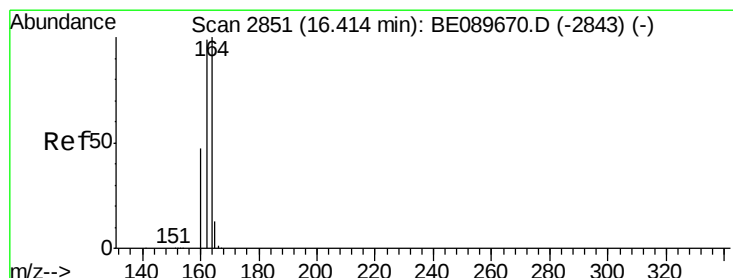
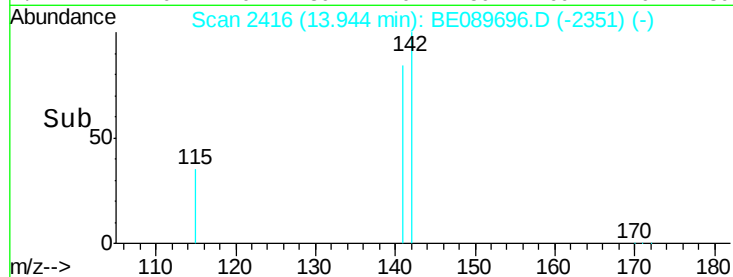
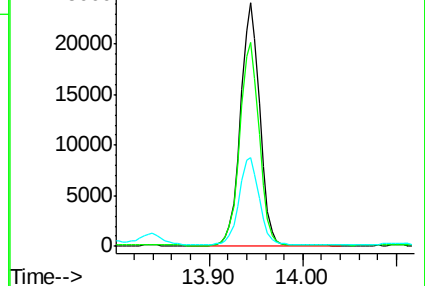
115 36.3 27.4 41.0



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# 2851

Delta R.T. -0.00 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

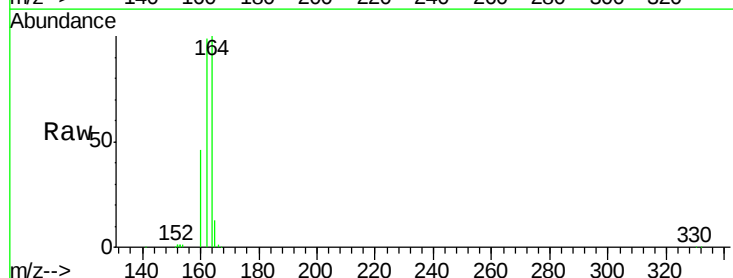
Tgt Ion:164 Resp: 118404

Ion Ratio Lower Upper

164 100

162 98.6 79.4 119.2

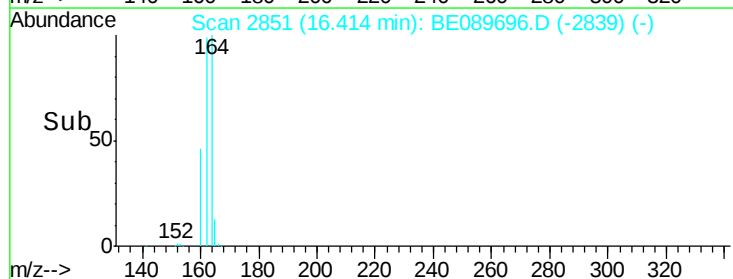
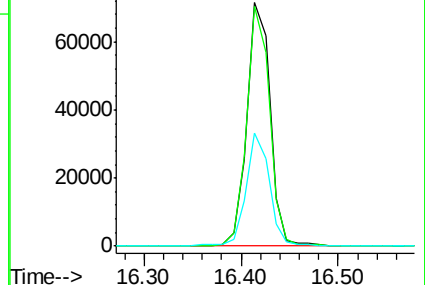
160 46.4 37.6 56.4



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: 7.88 ng

RT: 14.87 min Scan# 2620

Delta R.T. -0.00 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

Instrument :

BNA_E

ClientSampleId :

MW-2

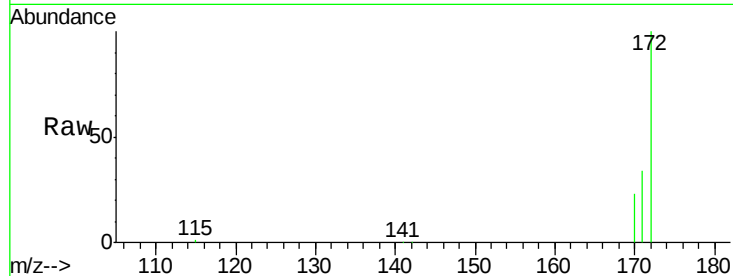
Tgt Ion:172 Resp: 207615

Ion Ratio Lower Upper

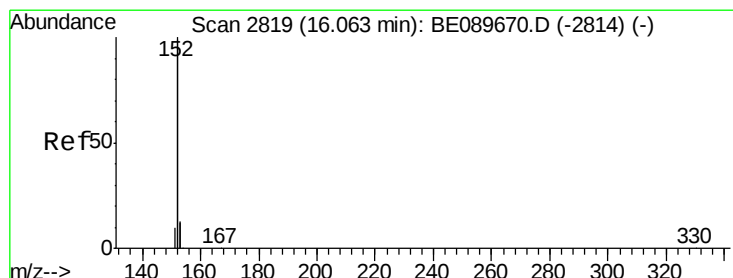
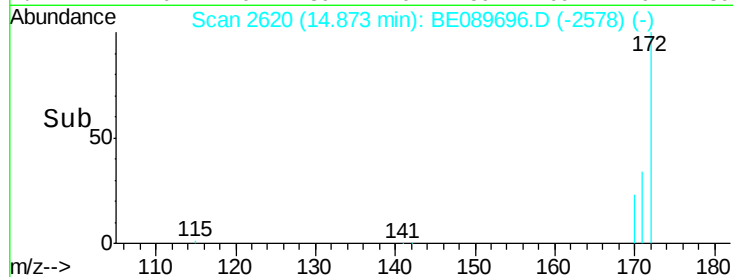
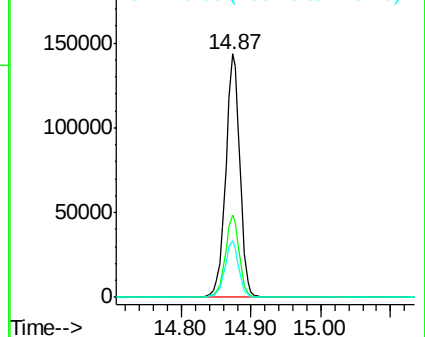
172 100

171 33.8 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: 0.07 ng

RT: 16.10 min Scan# 2822

Delta R.T. 0.03 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

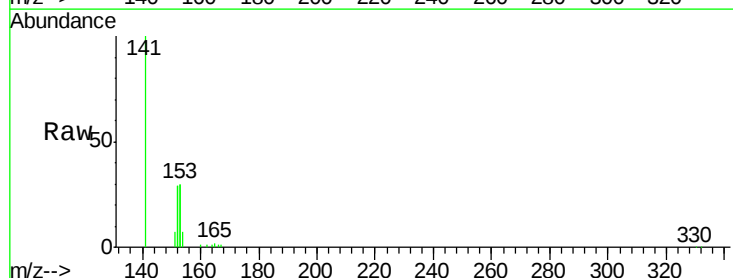
Tgt Ion:152 Resp: 11233

Ion Ratio Lower Upper

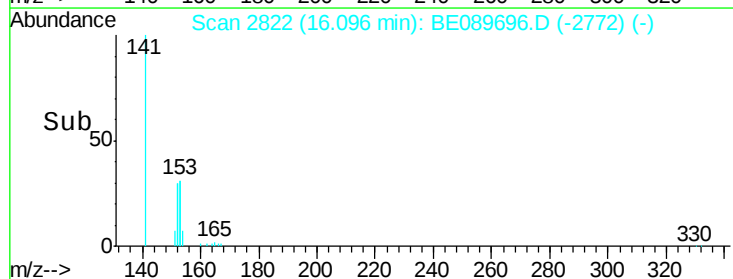
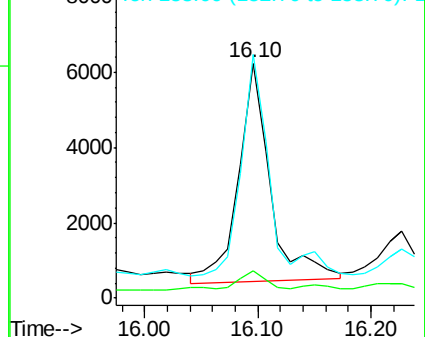
152 100

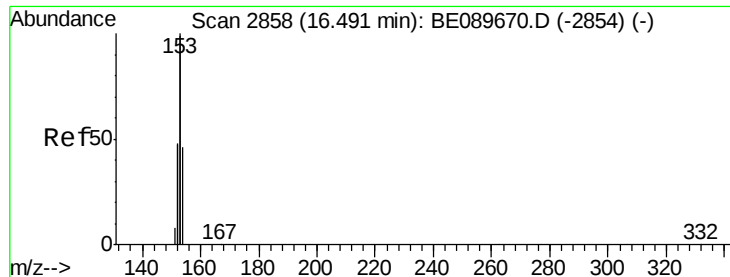
151 6.1 3.8 5.6#

153 81.3 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: 0.15 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

Instrument :

BNA_E

ClientSampleId :

MW-2

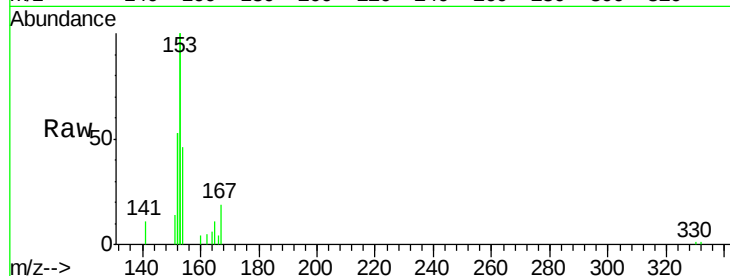
Tgt Ion:154 Resp: 3977

Ion Ratio Lower Upper

154 100

153 696.1 345.8 518.8#

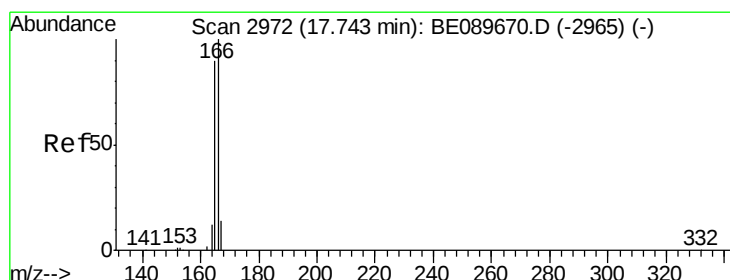
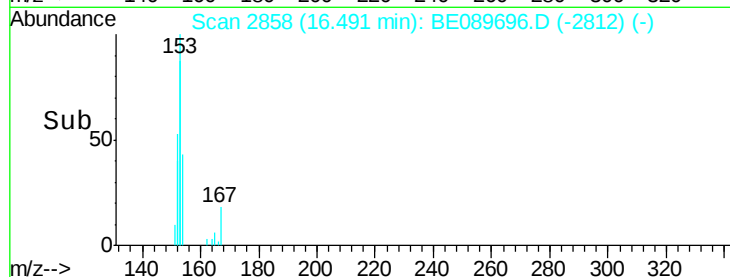
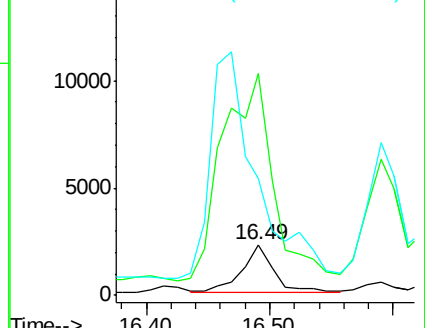
152 0.0 168.6 252.8#



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: 0.55 ng

RT: 17.74 min Scan# 2972

Delta R.T. -0.00 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

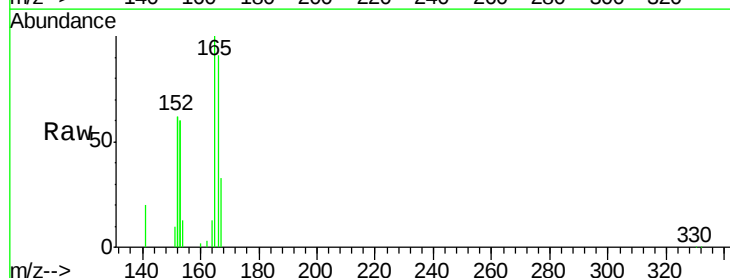
Tgt Ion:166 Resp: 16277

Ion Ratio Lower Upper

166 100

165 121.0 73.6 110.4#

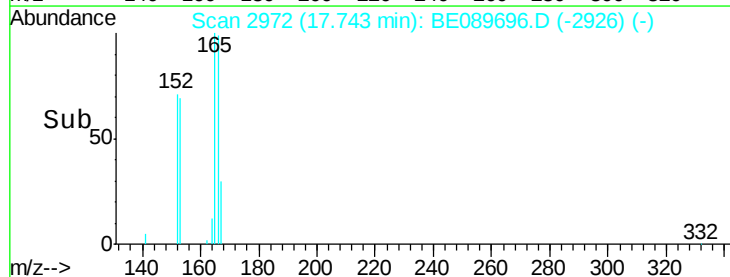
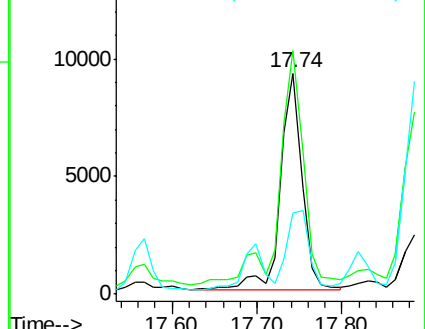
167 33.7 10.6 16.0#

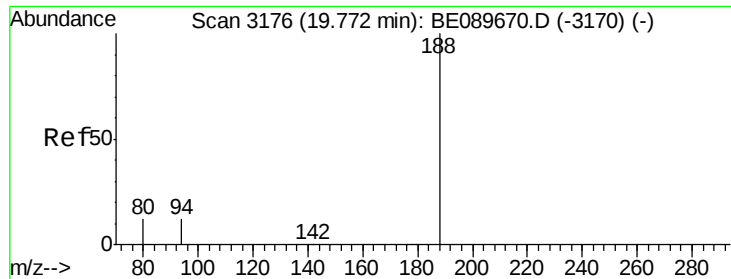


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

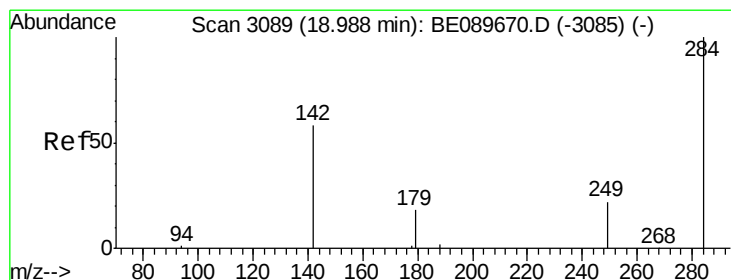
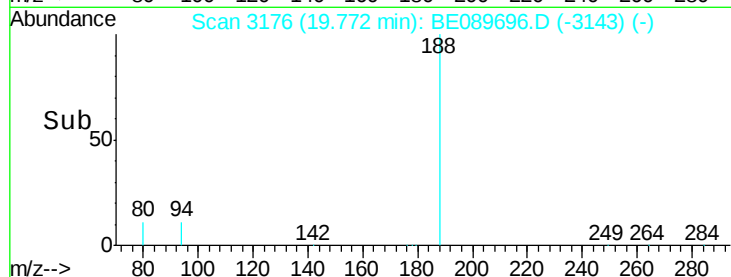
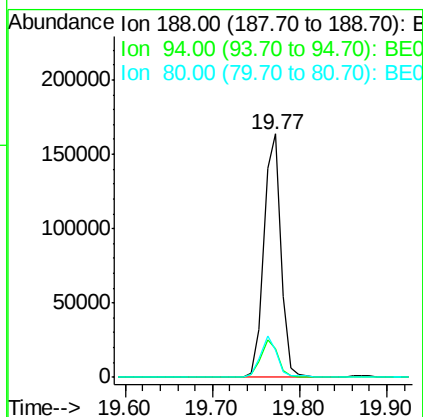
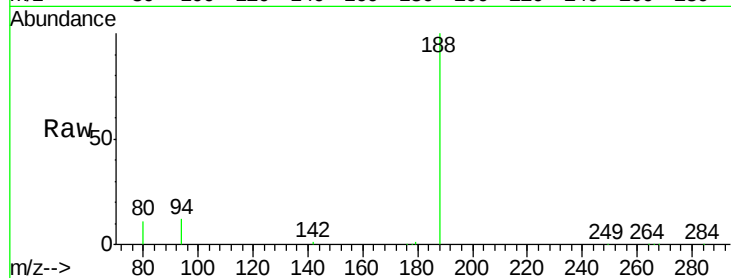




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. -0.00 min
Lab File: BE089696.D
Acq: 26 Feb 2015 18:12

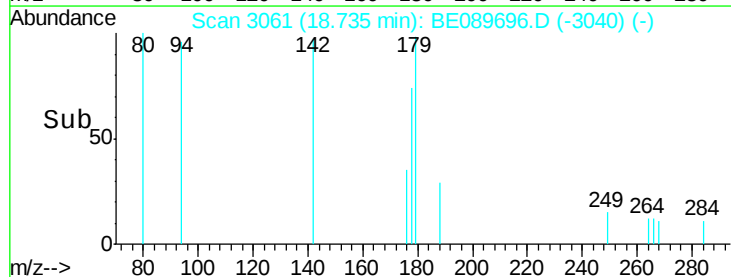
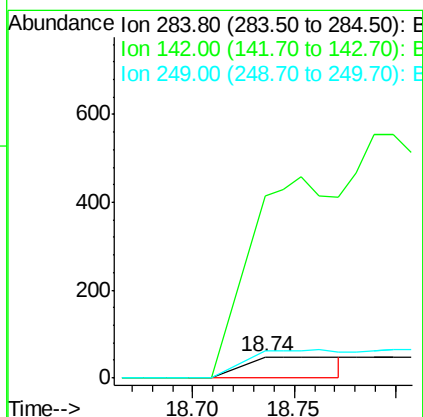
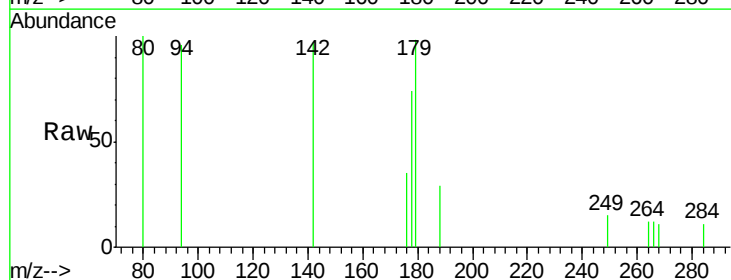
Instrument :
BNA_E
ClientSampled :
MW-2

Tgt Ion:188 Resp: 218038
Ion Ratio Lower Upper
188 100
94 11.7 9.4 14.2
80 11.4 9.5 14.3



#14
Hexachlorobenzene
Concen: 0.03 ng
RT: 18.74 min Scan# 3061
Delta R.T. -0.25 min
Lab File: BE089696.D
Acq: 26 Feb 2015 18:12

Tgt Ion:284 Resp: 173
Ion Ratio Lower Upper
284 100
142 0.0 55.4 83.2#
249 0.0 27.2 40.8#

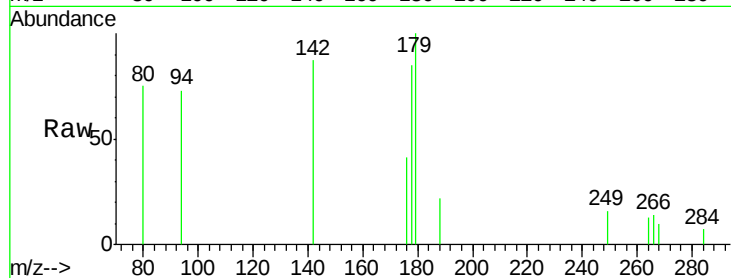




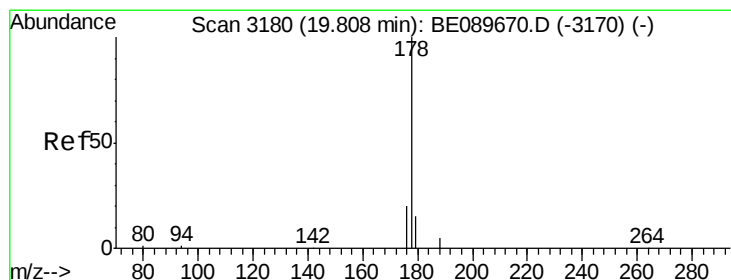
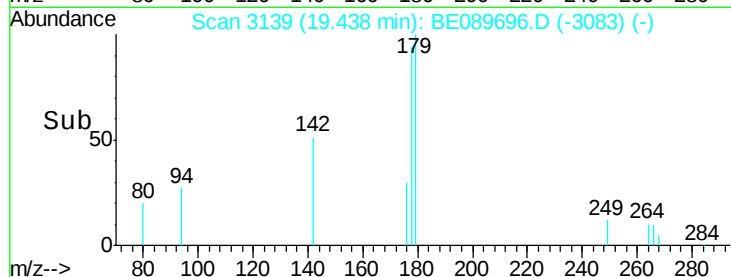
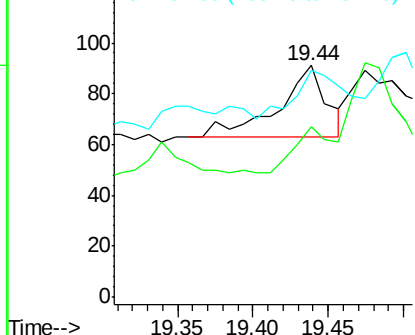
#15
 Pentachlorophenol
 Concen: 0.12 ng
 RT: 19.44 min Scan# 3139
 Delta R.T. 0.00 min
 Lab File: BE089696.D
 Acq: 26 Feb 2015 18:12

Instrument :
 BNA_E
 ClientSampleId :
 MW-2

Tgt Ion:266 Resp: 62
 Ion Ratio Lower Upper
 266 100
 268 73.6 56.3 84.5
 264 97.8 51.8 77.8#

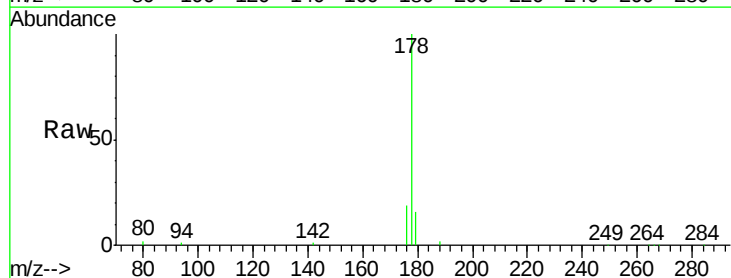


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

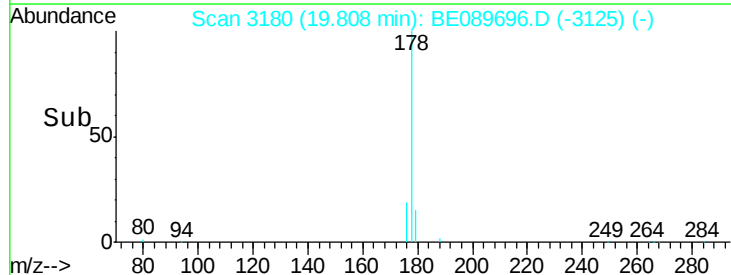
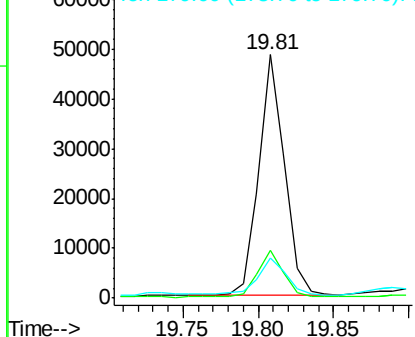


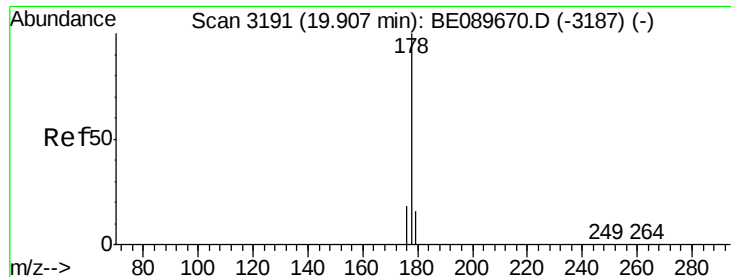
#16
 Phenanthrene
 Concen: 1.24 ng
 RT: 19.81 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: BE089696.D
 Acq: 26 Feb 2015 18:12

Tgt Ion:178 Resp: 57619
 Ion Ratio Lower Upper
 178 100
 176 19.4 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: 1.46 ng

RT: 19.81 min Scan# 3180

Delta R.T. -0.10 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

Instrument :

BNA_E

ClientSampleId :

MW-2

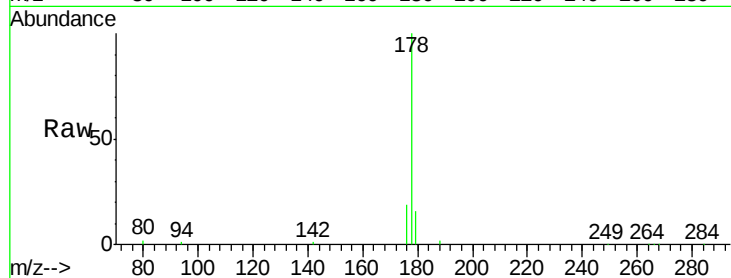
Tgt Ion:178 Resp: 57619

Ion Ratio Lower Upper

178 100

176 19.4 14.8 22.2

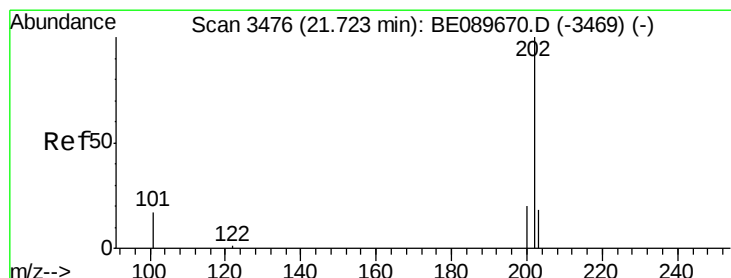
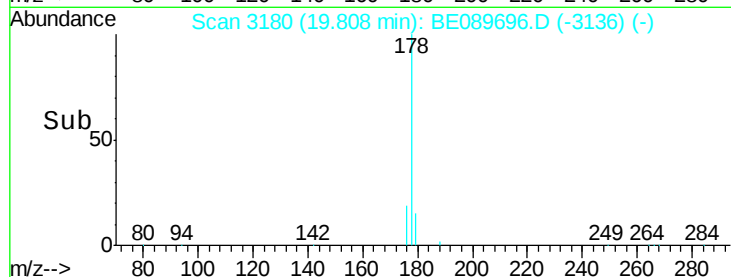
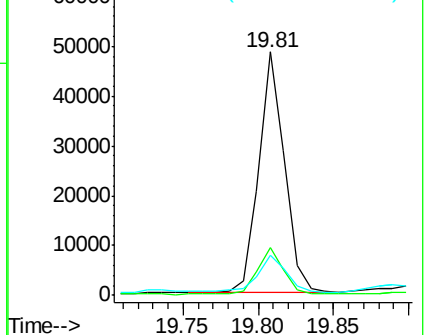
179 16.8 12.2 18.2



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: 0.06 ng

RT: 21.72 min Scan# 3475

Delta R.T. -0.01 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

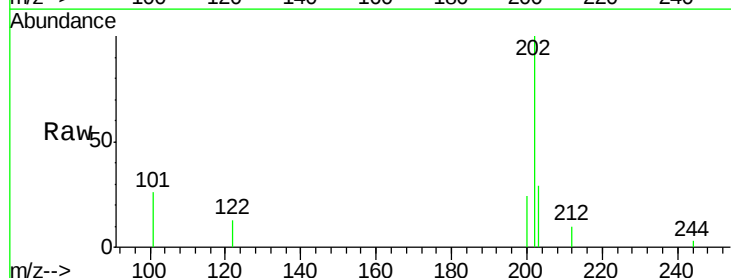
Tgt Ion:202 Resp: 2400

Ion Ratio Lower Upper

202 100

101 25.3 14.9 22.3#

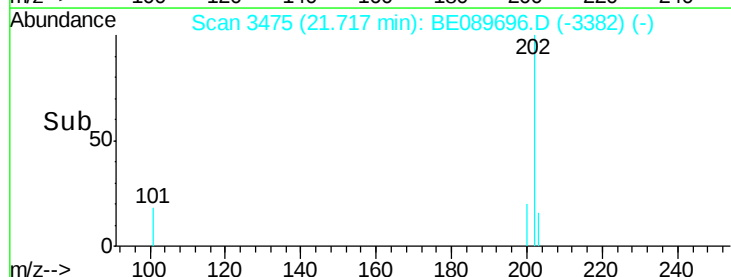
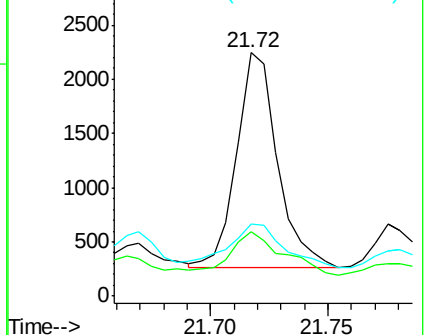
203 28.6 13.8 20.6#

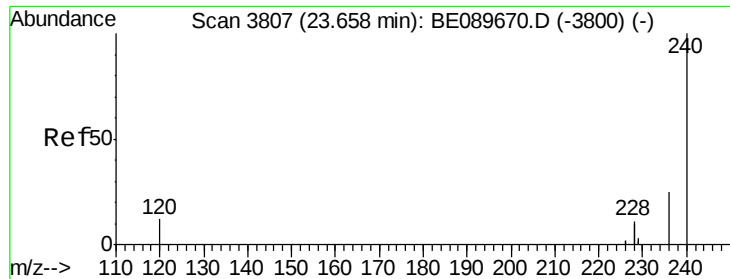


Abundance Ion 202.00 (201.70 to 202.70): E

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. -0.01 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

Instrument :

BNA_E

ClientSampleId :

MW-2

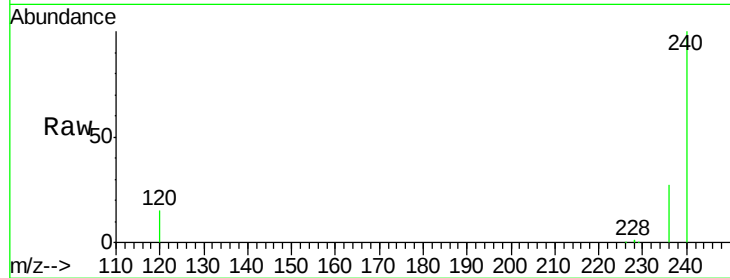
Tgt Ion:240 Resp: 182198

Ion Ratio Lower Upper

240 100

120 15.5 9.4 14.0#

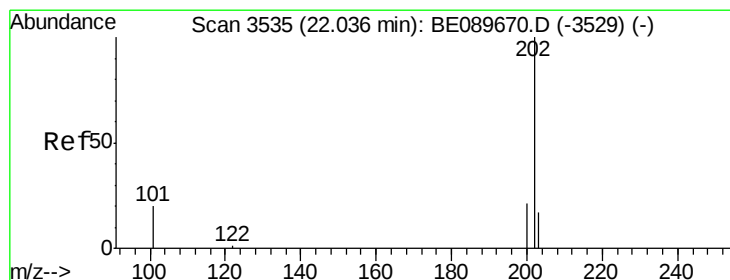
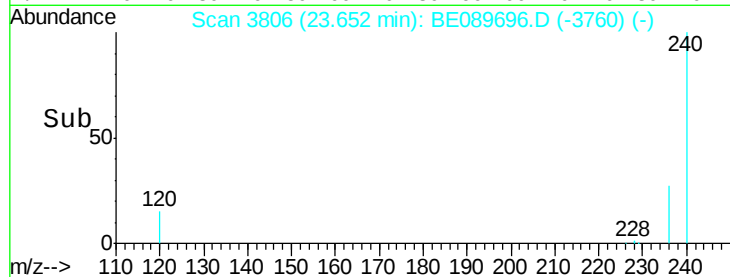
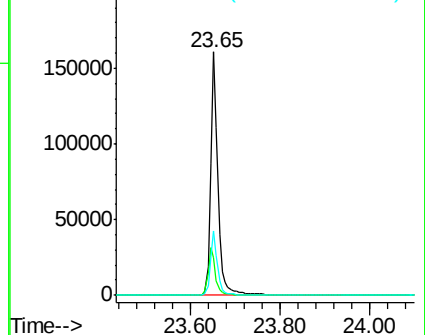
236 26.7 19.9 29.9



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: 0.14 ng

RT: 22.04 min Scan# 3535

Delta R.T. -0.00 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

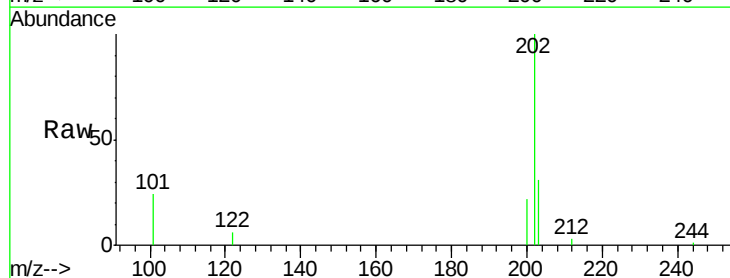
Tgt Ion:202 Resp: 5950

Ion Ratio Lower Upper

202 100

200 20.3 16.4 24.6

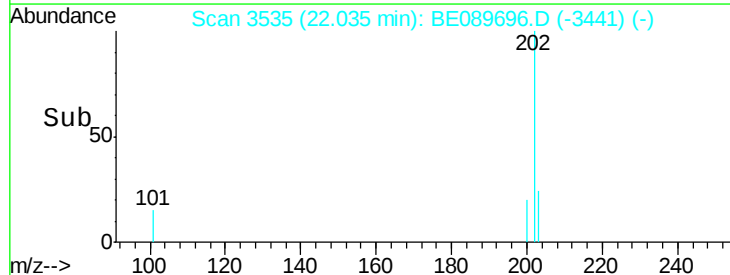
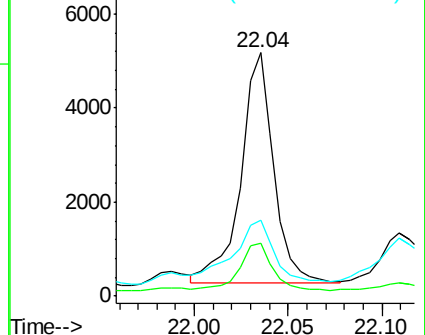
203 33.8 13.9 20.9#



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: 10.68 ng

RT: 22.30 min Scan# 3585

Delta R.T. -0.00 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

Instrument :

BNA_E

ClientSampleId :

MW-2

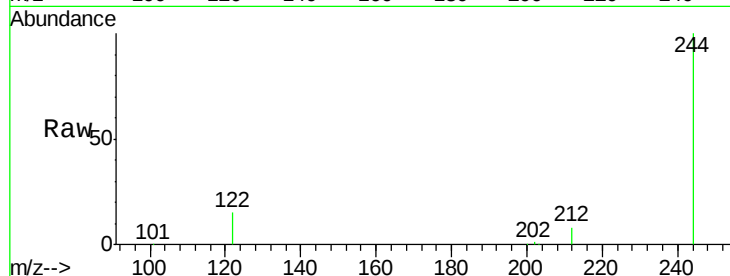
Tgt Ion:244 Resp: 228218

Ion Ratio Lower Upper

244 100

212 8.0 7.0 10.6

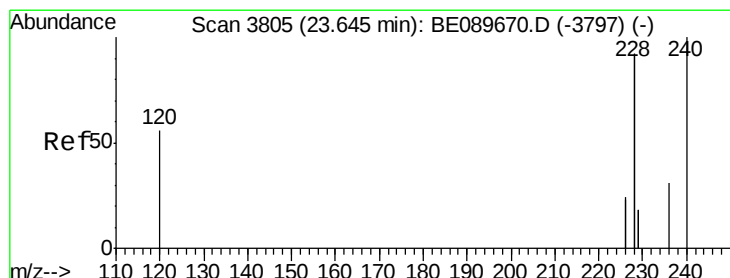
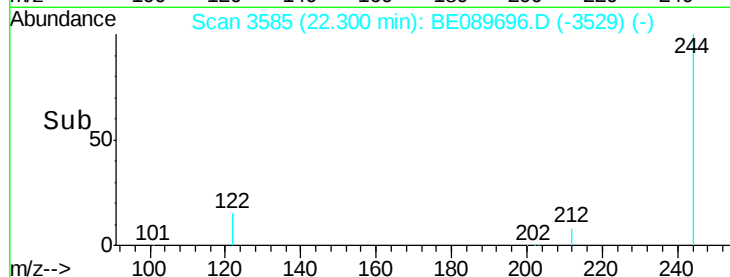
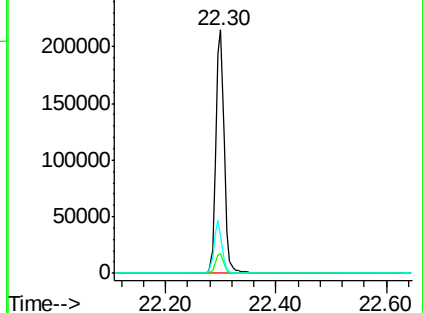
122 15.2 15.4 23.0#



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: 0.04 ng

RT: 23.65 min Scan# 3805

Delta R.T. 0.00 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

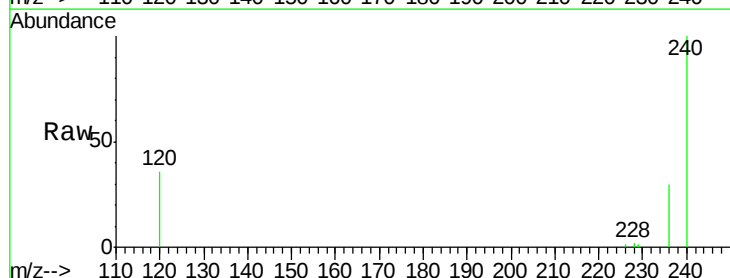
Tgt Ion:228 Resp: 4781

Ion Ratio Lower Upper

228 100

226 29.5 20.6 31.0

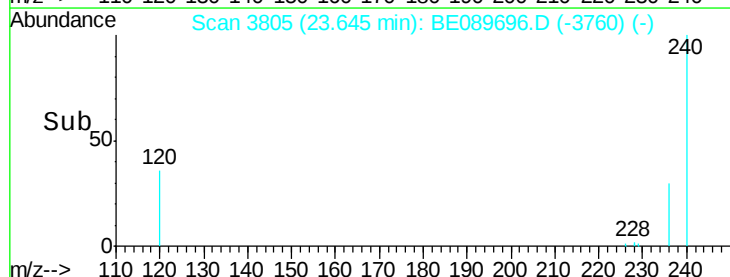
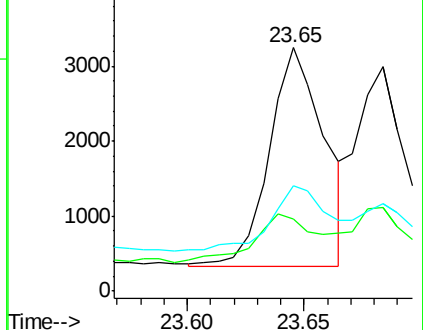
229 43.3 15.8 23.6#



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: 0.03 ng

RT: 23.68 min Scan# 3811

Delta R.T. 0.00 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

Instrument :

BNA_E

ClientSampleId :

MW-2

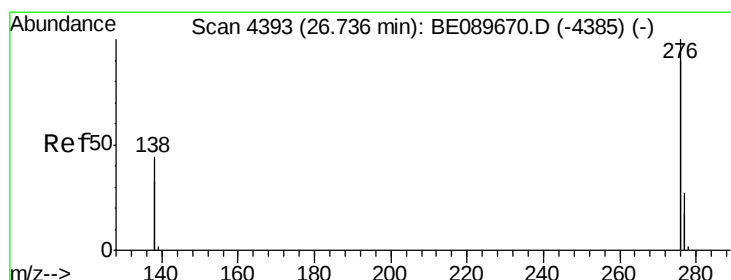
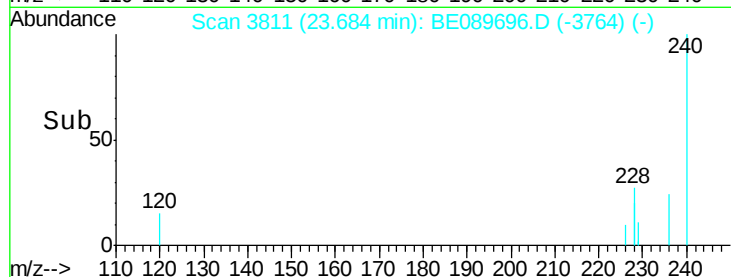
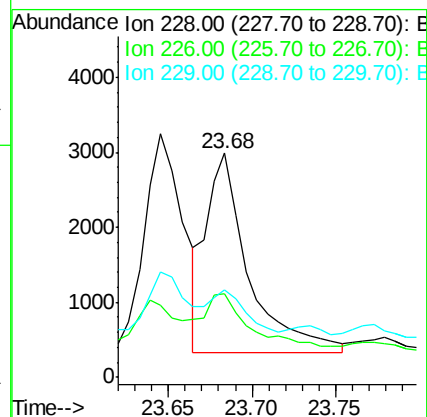
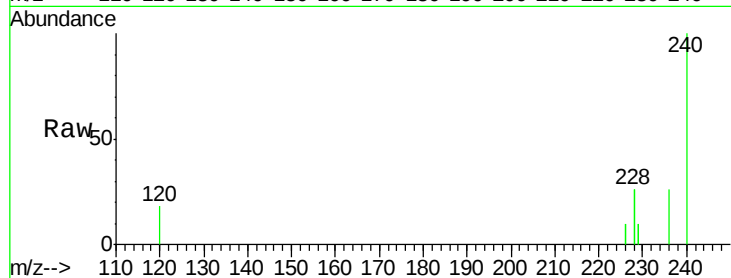
Tgt Ion:228 Resp: 4702

Ion Ratio Lower Upper

228 100

226 37.2 23.6 35.4#

229 39.3 15.3 22.9#



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.06 ng

RT: 26.74 min Scan# 4393

Delta R.T. 0.00 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

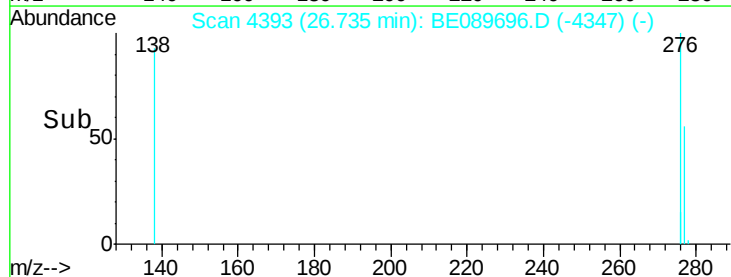
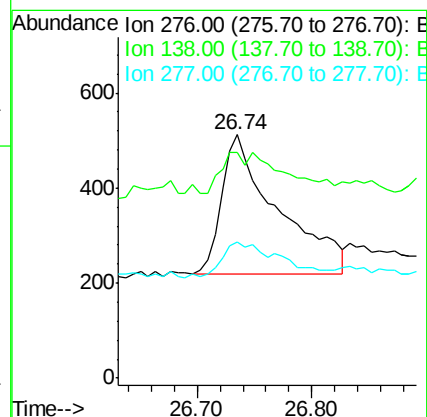
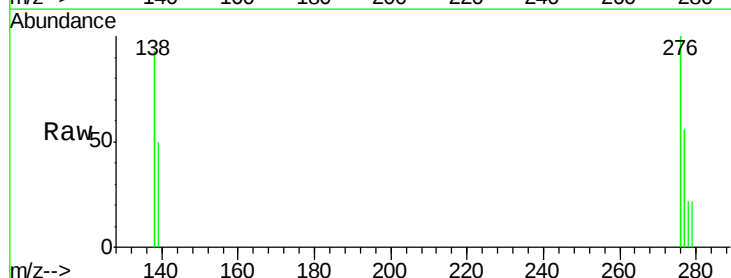
Tgt Ion:276 Resp: 986

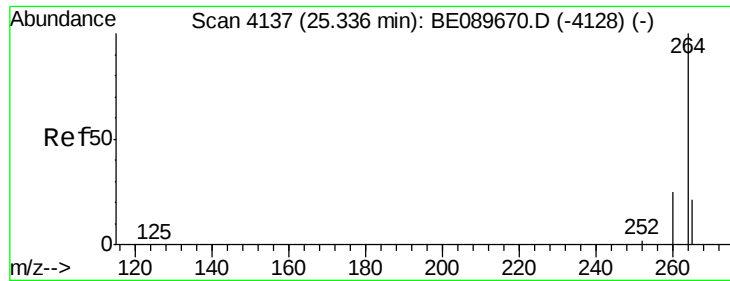
Ion Ratio Lower Upper

276 100

138 12.9 0.0 0.0#

277 26.5 5.2 7.8#

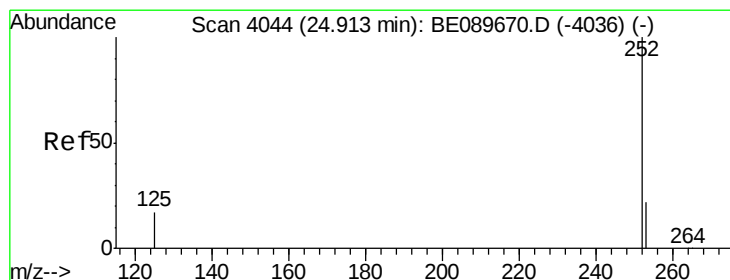
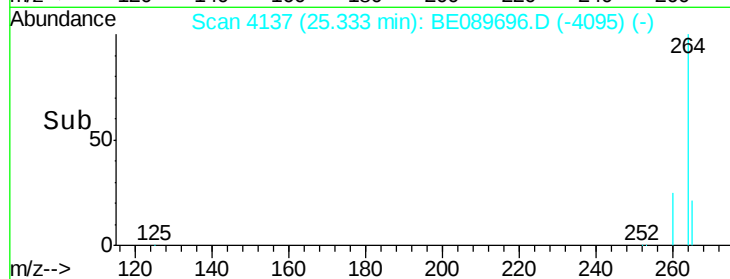
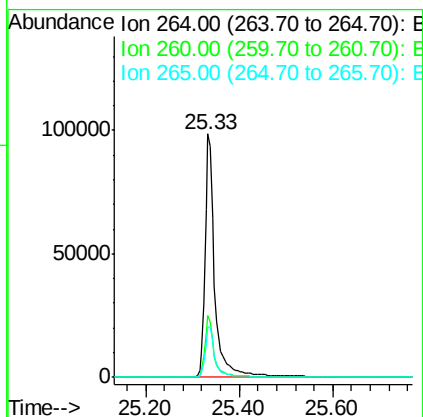
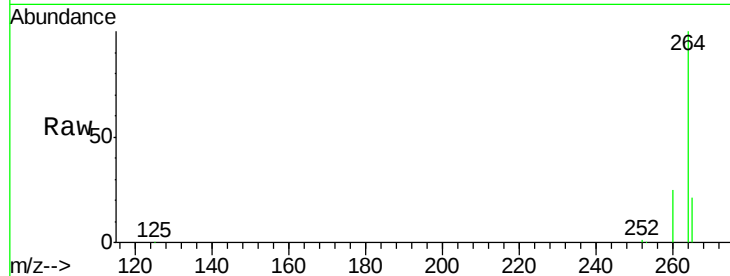




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.33 min Scan# 4137
 Delta R.T. -0.00 min
 Lab File: BE089696.D
 Acq: 26 Feb 2015 18:12

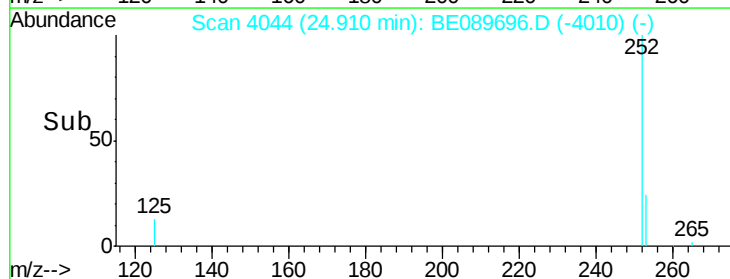
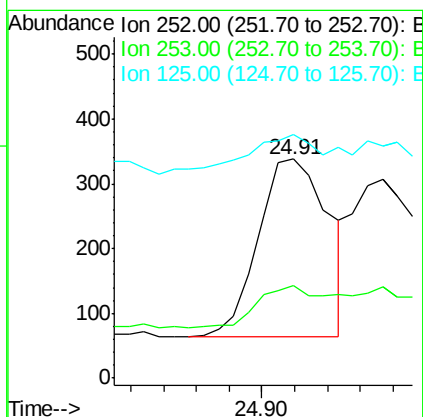
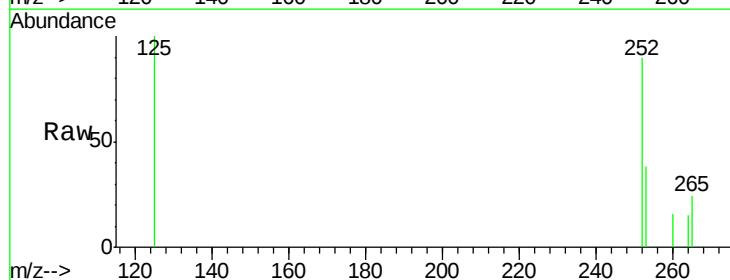
Instrument :
 BNA_E
 ClientSampleId :
 MW-2

Tgt Ion: 264 Resp: 142611
 Ion Ratio Lower Upper
 264 100
 260 25.3 20.2 30.4
 265 20.9 17.0 25.4



#26
 Benzo(b)fluoranthene
 Concen: 0.06 ng
 RT: 24.91 min Scan# 4044
 Delta R.T. -0.00 min
 Lab File: BE089696.D
 Acq: 26 Feb 2015 18:12

Tgt Ion: 252 Resp: 409
 Ion Ratio Lower Upper
 252 100
 253 42.6 18.6 27.8#
 125 111.2 15.0 22.6#





#27

Benzo(k)fluoranthene

Concen: 0.08 ng

RT: 24.94 min Scan# 4050

Delta R.T. -0.00 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

Instrument :

BNA_E

ClientSampleId :

MW-2

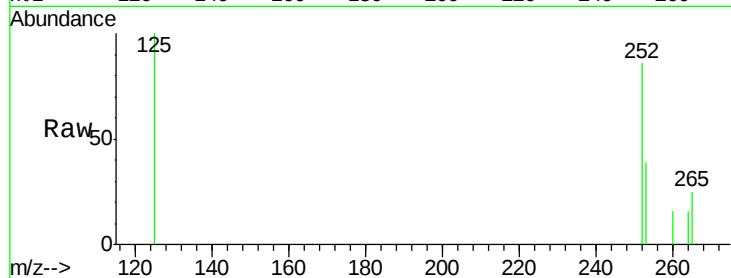
Tgt Ion: 252 Resp: 368

Ion Ratio Lower Upper

252 100

253 45.9 18.0 27.0#

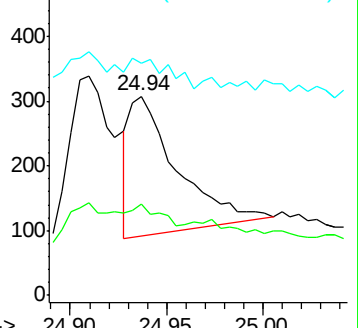
125 116.6 14.3 21.5#



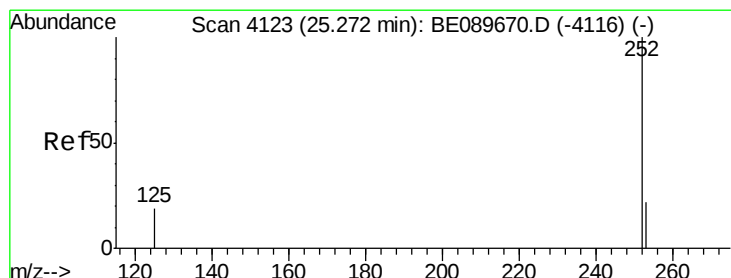
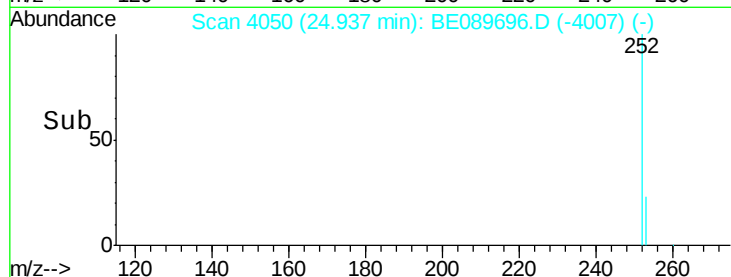
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#28

Benzo(a)pyrene

Concen: 0.03 ng

RT: 25.27 min Scan# 4123

Delta R.T. -0.00 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

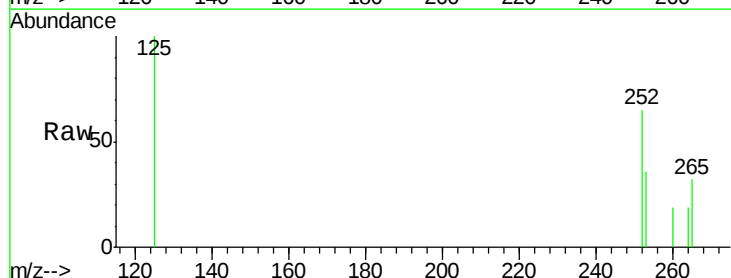
Tgt Ion: 252 Resp: 202

Ion Ratio Lower Upper

252 100

253 55.3 18.8 28.2#

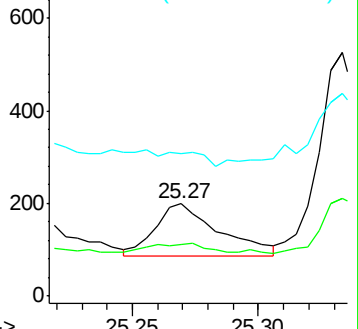
125 154.8 16.6 24.8#



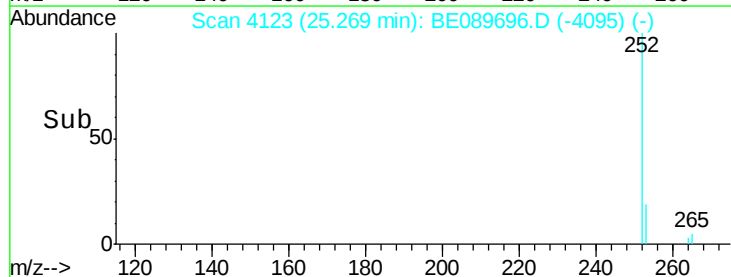
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





#29

Dibenzo(a,h)anthracene

Concen: 0.10 ng

RT: 26.76 min Scan# 4397

Delta R.T. -0.01 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

Instrument :

BNA_E

ClientSampleId :

MW-2

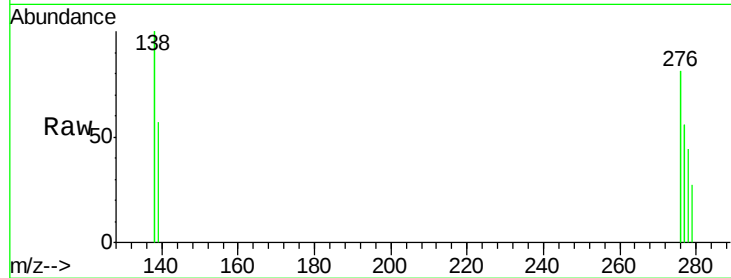
Tgt Ion: 278 Resp: 140

Ion Ratio Lower Upper

278 100

139 130.3 30.4 45.6#

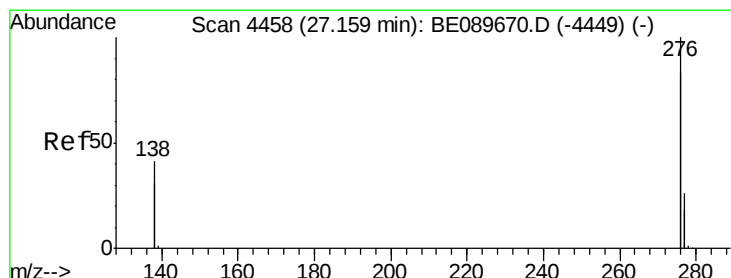
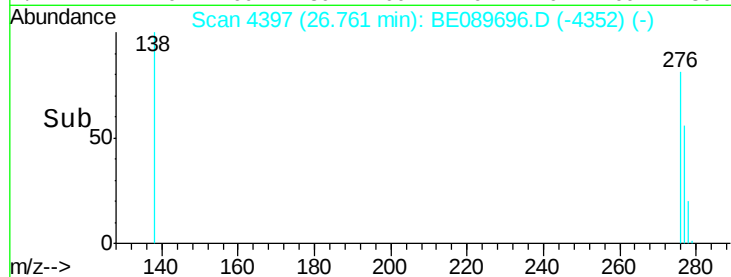
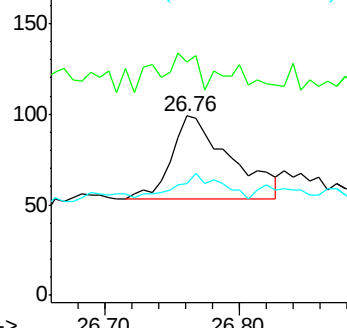
279 62.6 22.0 33.0#



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: 0.11 ng

RT: 27.15 min Scan# 4457

Delta R.T. -0.01 min

Lab File: BE089696.D

Acq: 26 Feb 2015 18:12

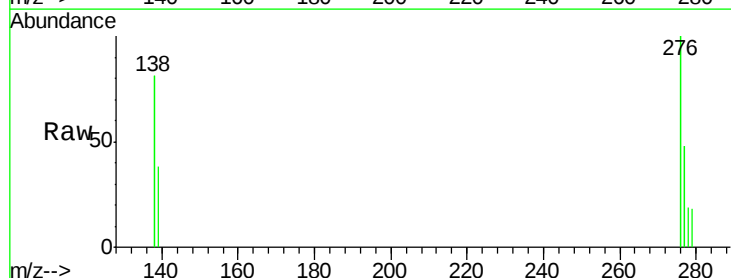
Tgt Ion: 276 Resp: 1437

Ion Ratio Lower Upper

276 100

277 48.2 21.0 31.6#

138 81.1 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

