

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
 Data File : BE089637.D
 Acq On : 19 Feb 2015 5:24
 Operator : TP/IZ
 Sample : MDL-06-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 19 08:13:07 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 13:01:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	38325	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	151472	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	73332	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	142372	5.00	ng	0.00
19) Chrysene-d12	23.66	240	127632	5.00	ng	0.00
25) Perylene-d12	25.34	264	106650	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	69208	10.51	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	181954	9.26	ng	0.00
21) Terphenyl-d14	22.30	244	218258	11.89	ng	0.00

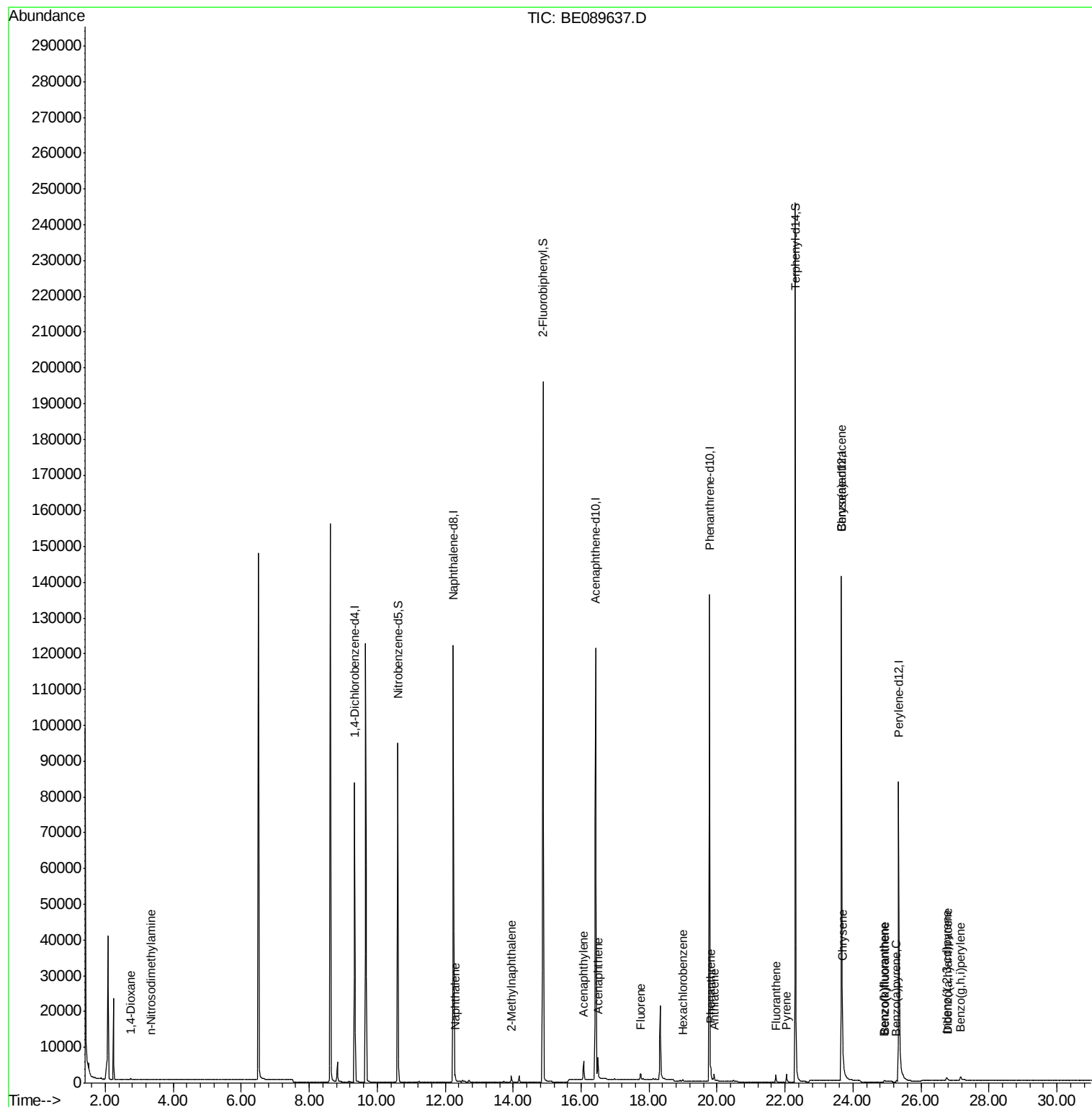
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.74	88	301	0.06	ng	# 85
3) n-Nitrosodimethylamine	3.35	42	7	0.00	ng	# 1
6) Naphthalene	12.29	128	2415	0.07	ng	# 93
7) 2-Methylnaphthalene	13.95	142	1294	0.06	ng	98
10) Acenaphthylene	16.07	152	7145	0.06	ng	99
11) Acenaphthene	16.50	154	1317	0.07	ng	87
12) Fluorene	17.75	166	1478	0.07	ng	97
14) Hexachlorobenzene	19.00	284	463	0.08	ng	93
15) Pentachlorophenol	19.45	266	22	Below Cal	#	64
16) Phenanthrene	19.82	178	2497	0.07	ng	99
17) Anthracene	19.91	178	1805	0.06	ng	100
18) Fluoranthene	21.72	202	1840	0.06	ng	99
20) Pyrene	22.04	202	1951	0.06	ng	99
22) Benzo(a)anthracene	23.65	228	6610	0.06	ng	# 95
23) Chrysene	23.69	228	10797	0.09	ng	96
24) Indeno(1,2,3-cd)pyrene	26.75	276	1958	0.19	ng	95
26) Benzo(b)fluoranthene	24.91	252	457	0.29	ng	# 76
27) Benzo(k)fluoranthene	24.94	252	752	0.02	ng	# 79
28) Benzo(a)pyrene	25.27	252	505	0.26	ng	# 72
29) Dibenzo(a,h)anthracene	26.77	278	288	0.24	ng	# 52
30) Benzo(g,h,i)perylene	27.16	276	2496	0.16	ng	# 68

(#) = 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: BE089637.D

Acq: 19 Feb 2015 5:24

Instrument :

BNA_E

ClientSampleId :

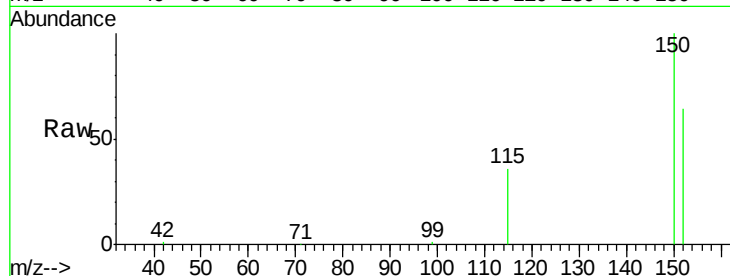
Tgt Ion: 152 Resp: 38325

Ion Ratio Lower Upper

152 100

150 157.3 122.4 183.6

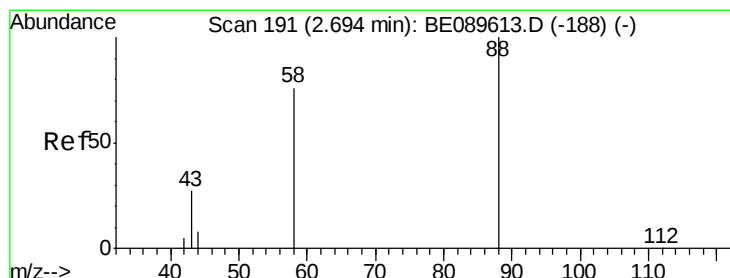
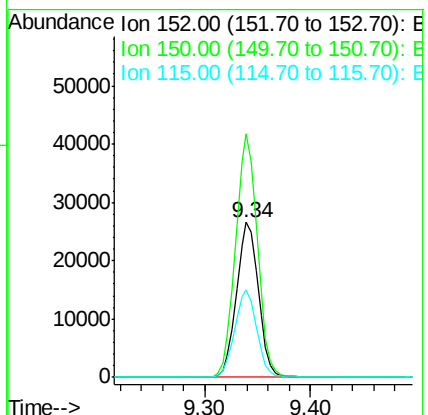
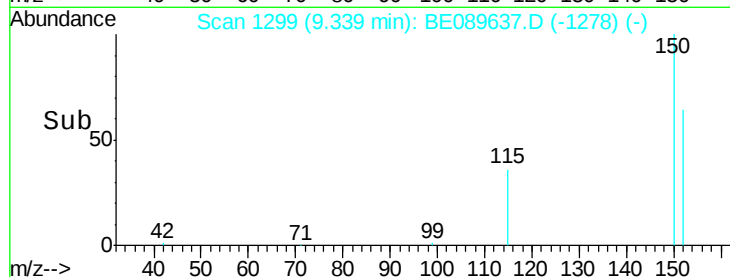
115 56.6 44.2 66.2



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: 0.06 ng

RT: 2.74 min Scan# 198

Delta R.T. 0.05 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

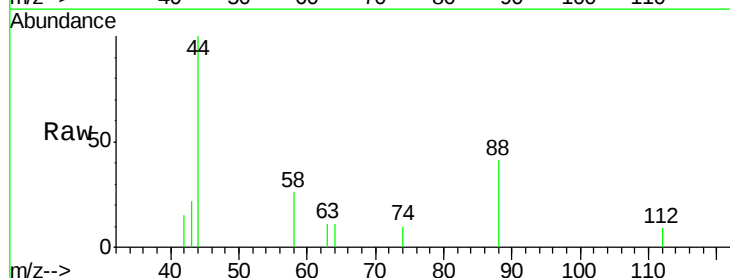
Tgt Ion: 88 Resp: 301

Ion Ratio Lower Upper

88 100

58 66.4 54.6 81.8

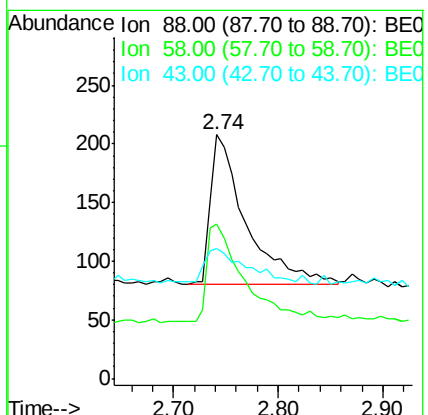
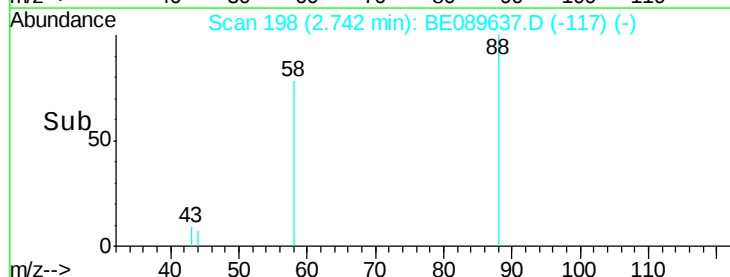
43 0.0 20.6 30.8#

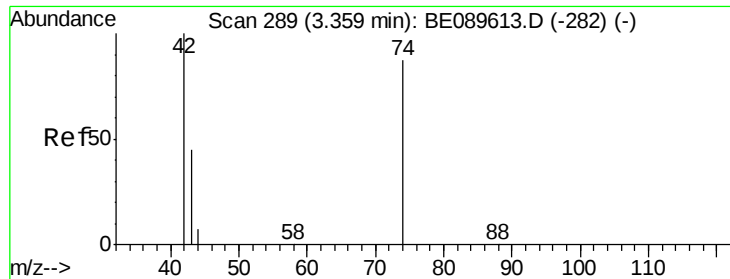


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



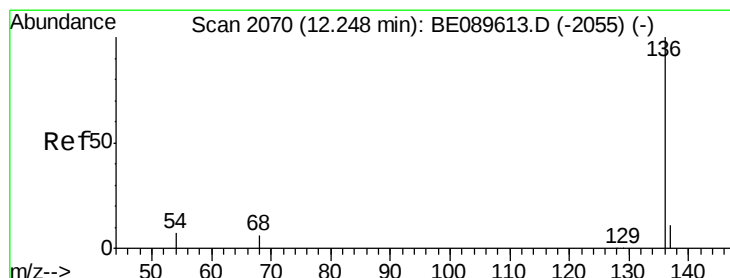
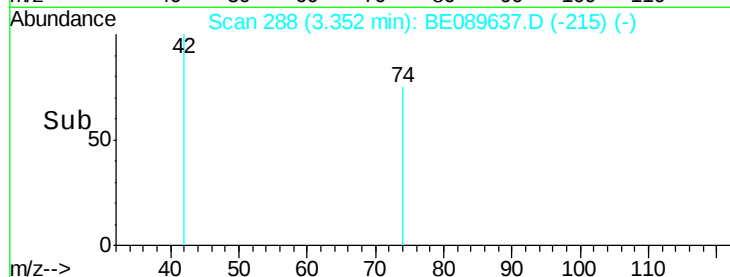
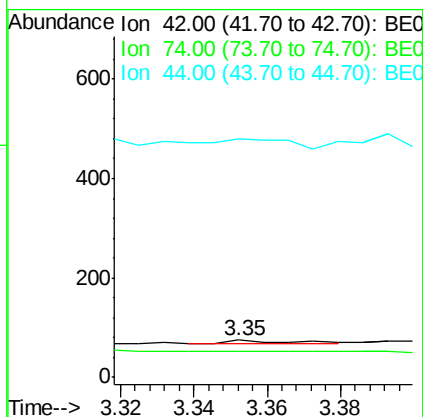
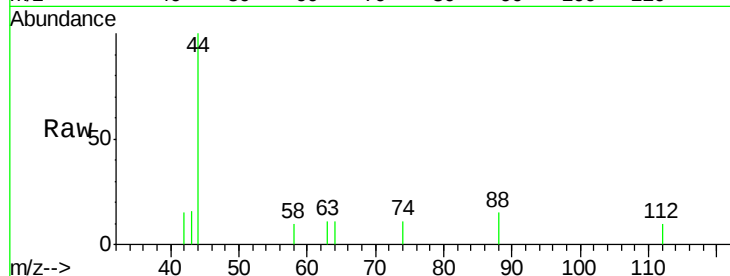


#3

n-Nitrosodimethylamine
 Concen: 0.00 ng
 RT: 3.35 min Scan# 288
 Delta R.T. -0.01 min
 Lab File: BE089637.D
 Acq: 19 Feb 2015 5:24

Instrument :
 BNA_E
 ClientSampleId :

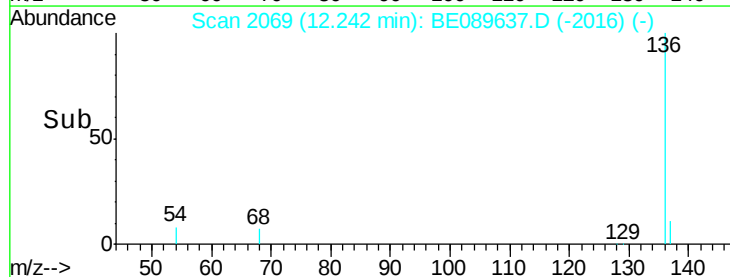
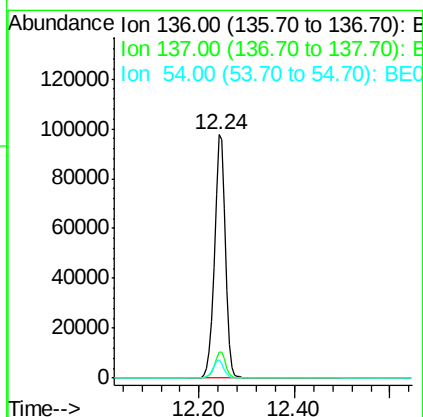
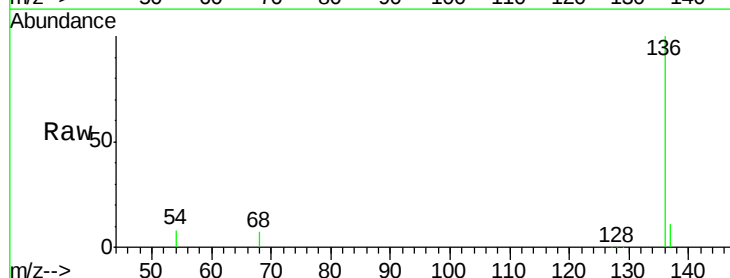
Tgt Ion: 42 Resp: 7
 Ion Ratio Lower Upper
 42 100
 74 0.0 121.4 182.0#
 44 328.6 4.5 6.7#

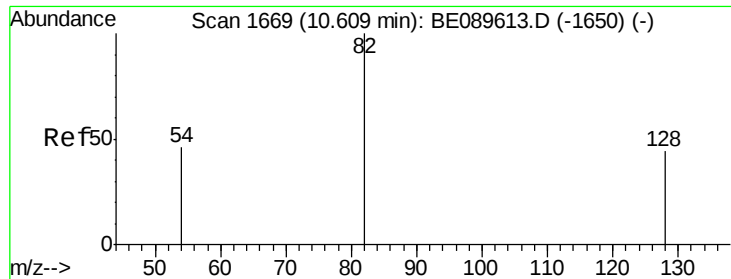


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. -0.01 min
 Lab File: BE089637.D
 Acq: 19 Feb 2015 5:24

Tgt Ion: 136 Resp: 151472
 Ion Ratio Lower Upper
 136 100
 137 10.7 8.9 13.3
 54 7.6 5.3 7.9





#5

Nitrobenzene-d5

Concen: 10.51 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

Instrument :

BNA_E

ClientSampleId :

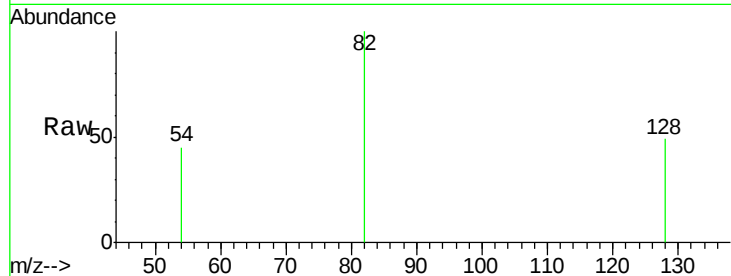
Tgt Ion: 82 Resp: 69208

Ion Ratio Lower Upper

82 100

128 48.5 35.5 53.3

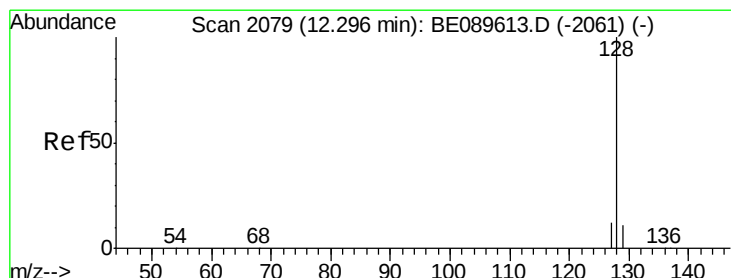
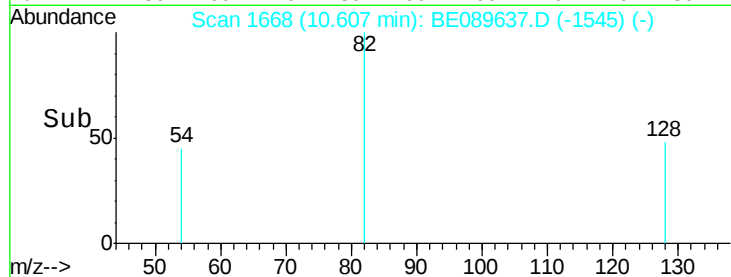
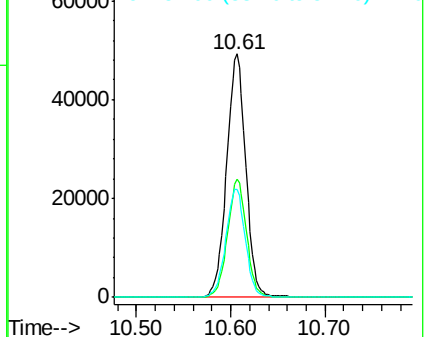
54 44.6 37.5 56.3



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 0.07 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.01 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

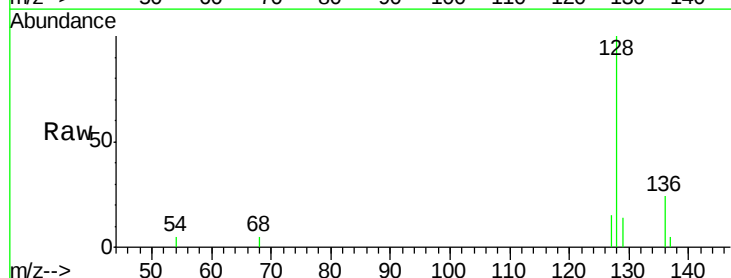
Tgt Ion: 128 Resp: 2415

Ion Ratio Lower Upper

128 100

129 13.7 8.9 13.3#

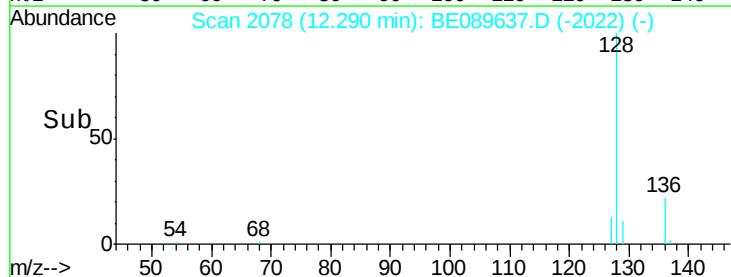
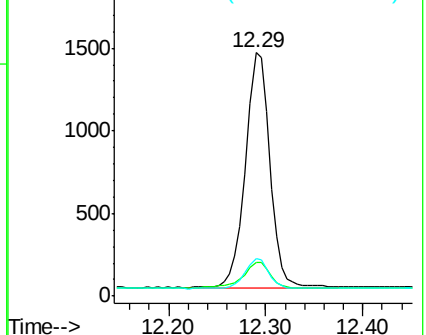
127 15.3 9.8 14.8#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.06 ng

RT: 13.95 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

Instrument :

BNA_E

ClientSampleId :

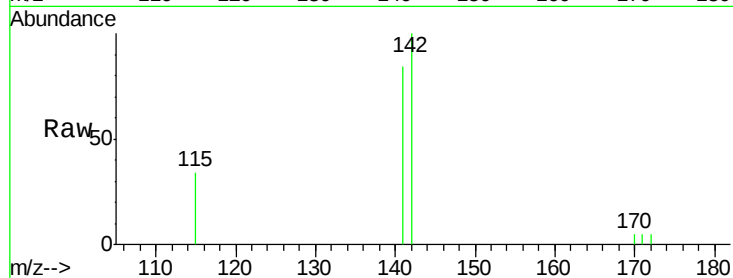
Tgt Ion:142 Resp: 1294

Ion Ratio Lower Upper

142 100

141 84.4 68.3 102.5

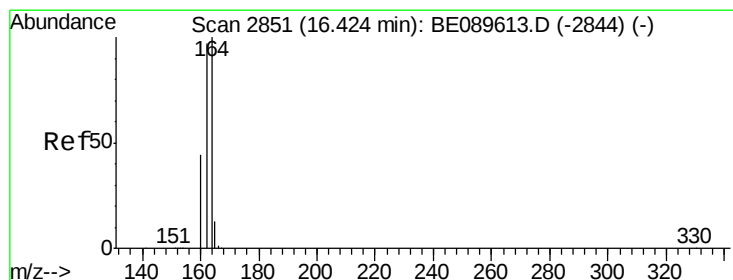
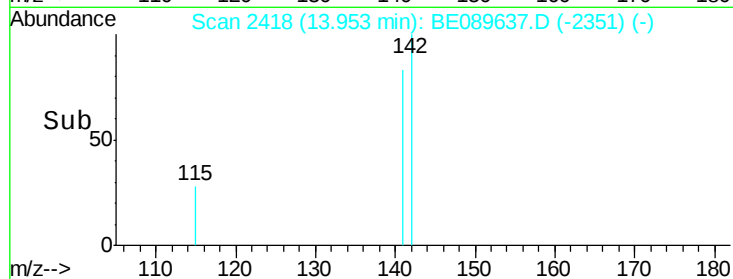
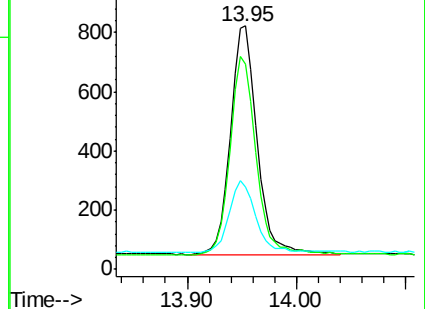
115 33.7 25.1 37.7



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# 2851

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

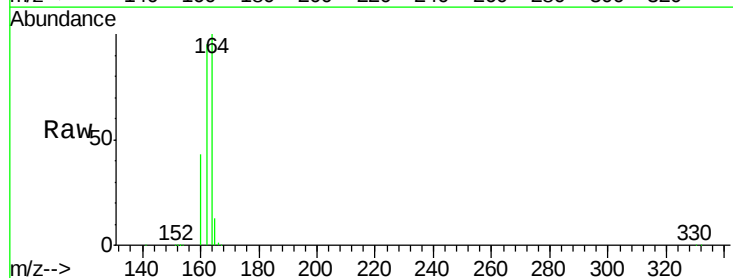
Tgt Ion:164 Resp: 73332

Ion Ratio Lower Upper

164 100

162 95.5 77.5 116.3

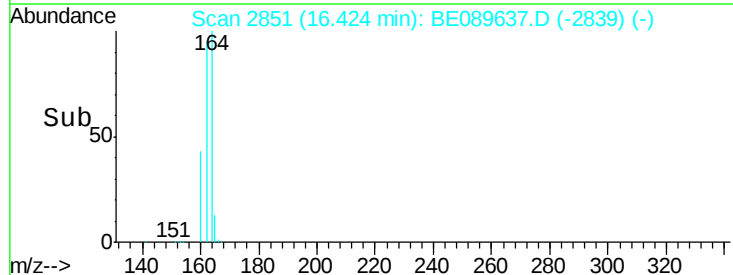
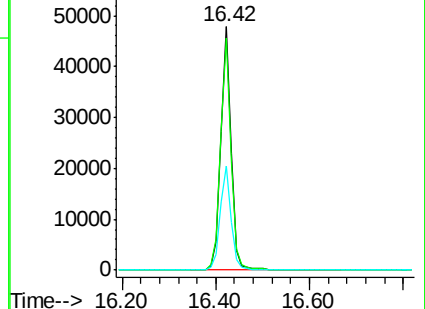
160 42.7 35.5 53.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 9.26 ng

RT: 14.88 min Scan# 2621

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

Instrument :

BNA_E

ClientSampleId :

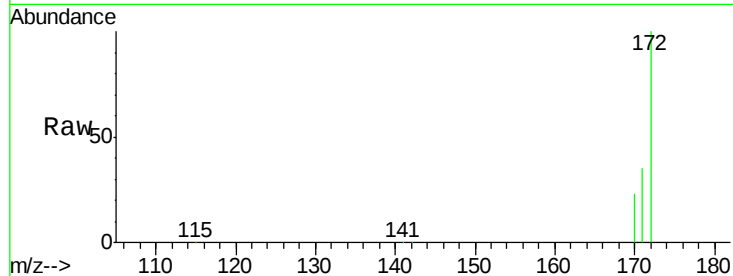
Tgt Ion:172 Resp: 181954

Ion Ratio Lower Upper

172 100

171 34.7 26.9 40.3

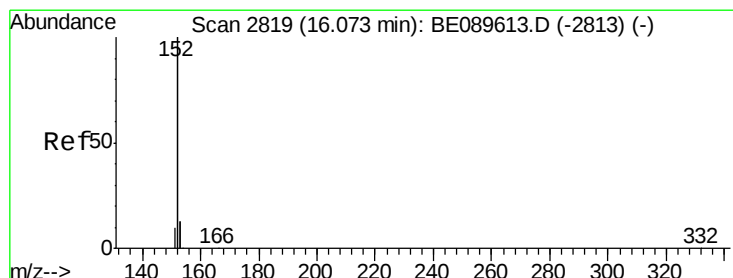
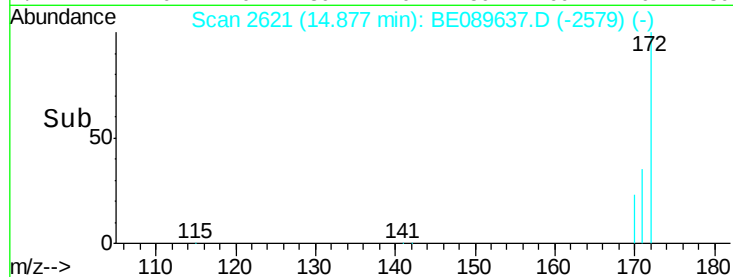
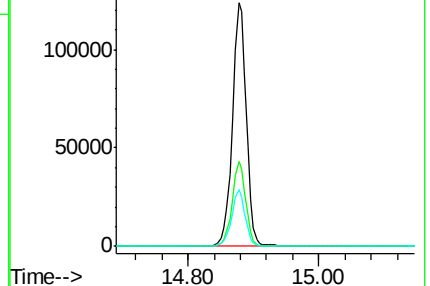
170 23.2 17.4 26.0



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: 0.06 ng

RT: 16.07 min Scan# 2819

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

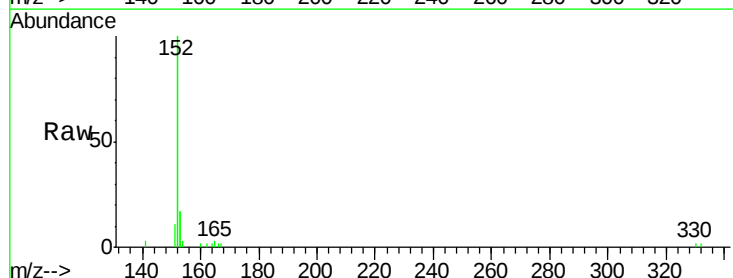
Tgt Ion:152 Resp: 7145

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

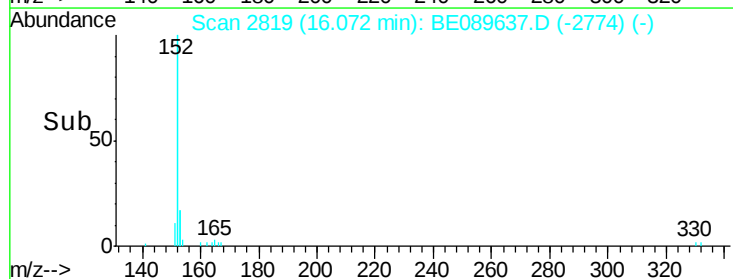
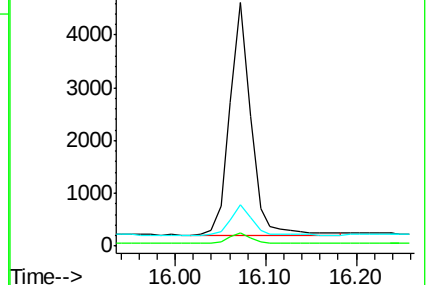
153 13.8 10.5 15.7

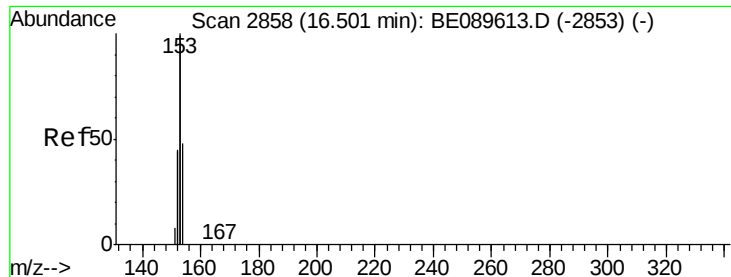


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.07 ng

RT: 16.50 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

Instrument :

BNA_E

ClientSampleId :

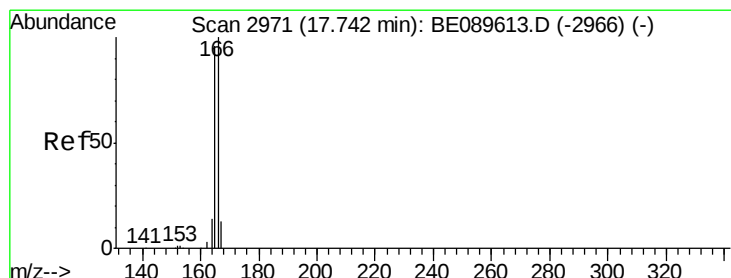
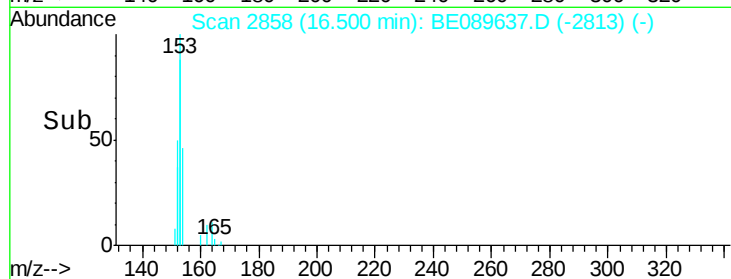
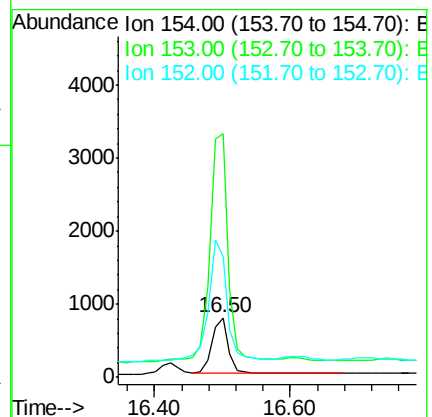
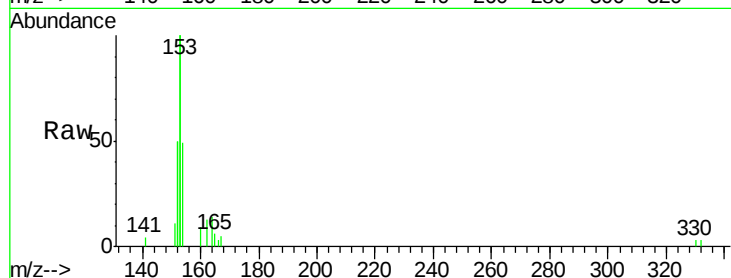
Tgt Ion:154 Resp: 1317

Ion Ratio Lower Upper

154 100

153 456.0 348.9 523.3

152 245.7 166.6 249.8



#12

Fluorene

Concen: 0.07 ng

RT: 17.75 min Scan# 2972

Delta R.T. 0.01 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

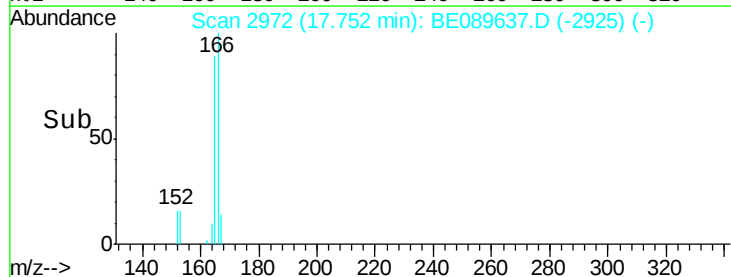
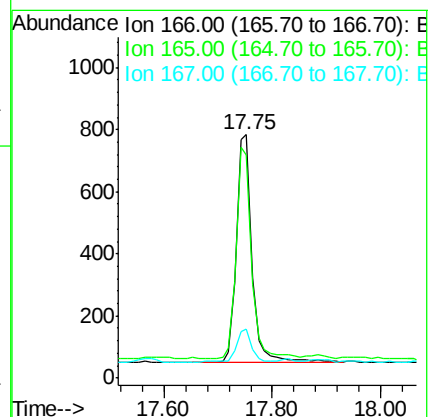
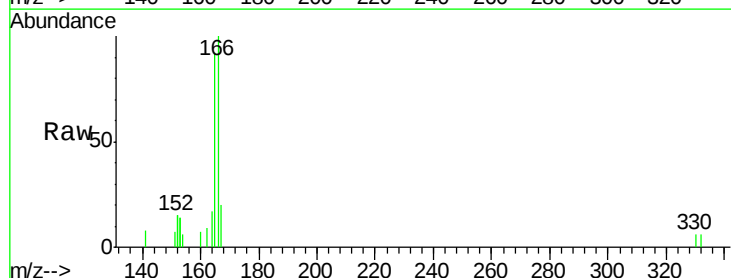
Tgt Ion:166 Resp: 1478

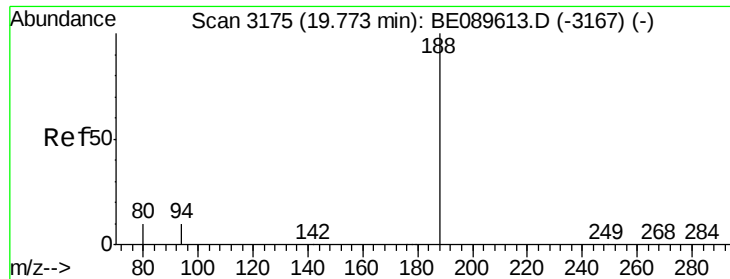
Ion Ratio Lower Upper

166 100

165 90.1 74.7 112.1

167 14.3 10.5 15.7





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3175

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

Instrument :

BNA_E

ClientSampleId :

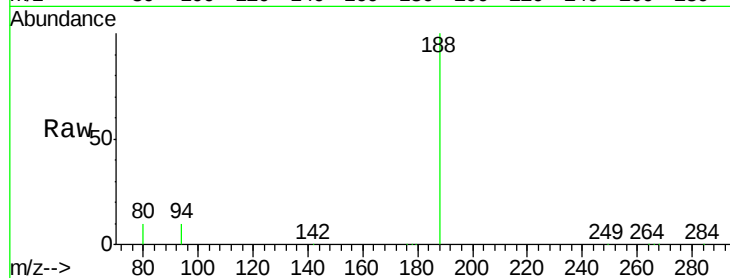
Tgt Ion:188 Resp: 142372

Ion Ratio Lower Upper

188 100

94 10.2 8.2 12.4

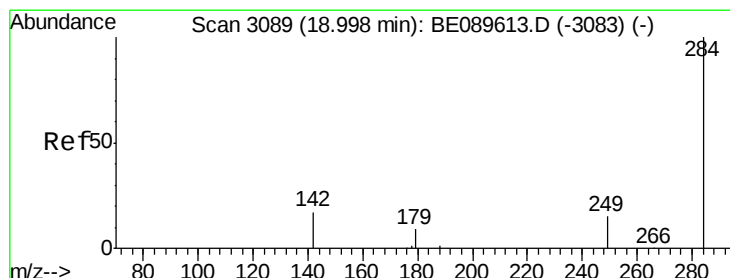
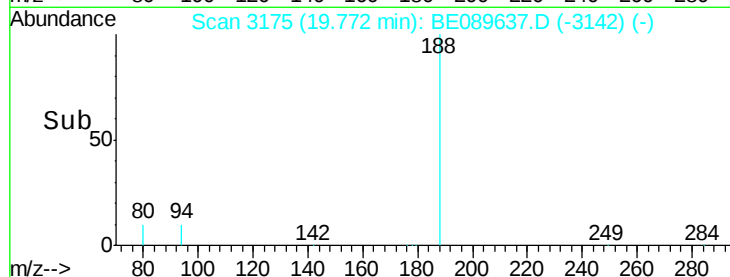
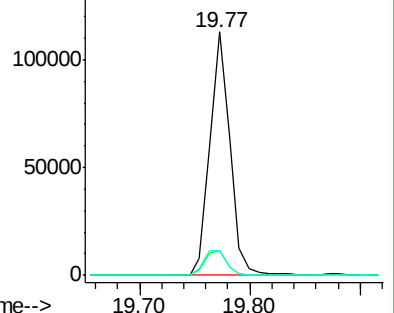
80 10.1 8.1 12.1



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: 19.00 min Scan# 3089

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

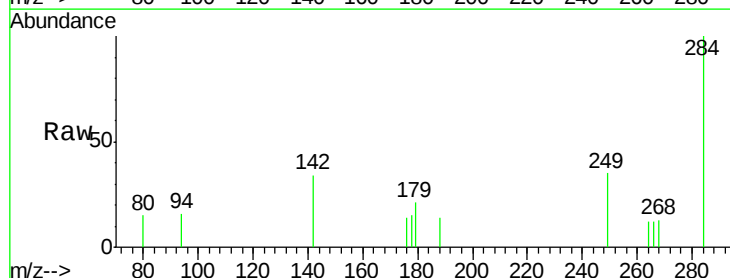
Tgt Ion:284 Resp: 463

Ion Ratio Lower Upper

284 100

142 46.4 32.3 48.5

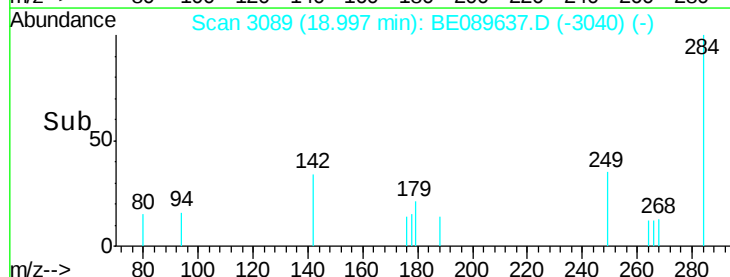
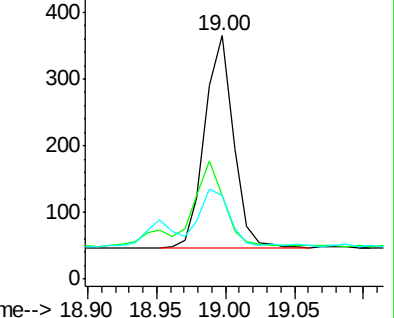
249 29.6 22.3 33.5



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

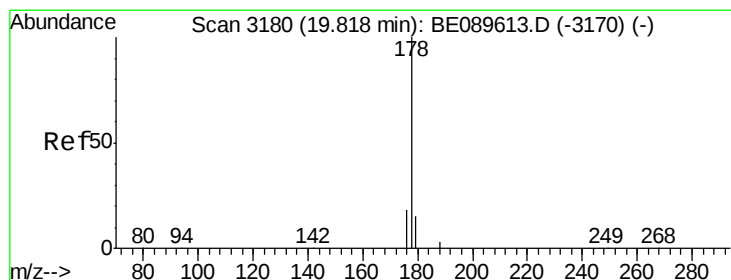
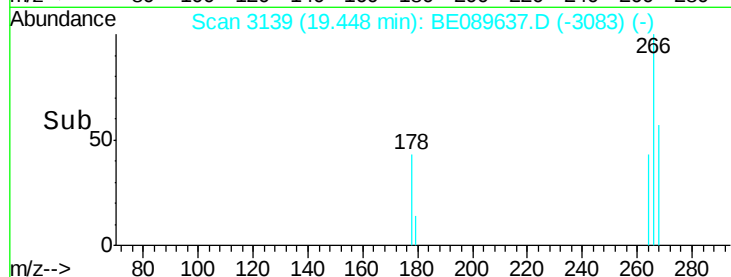
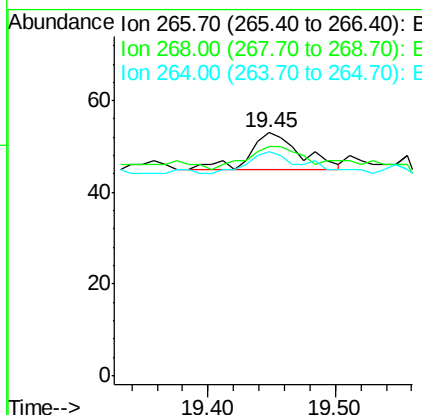
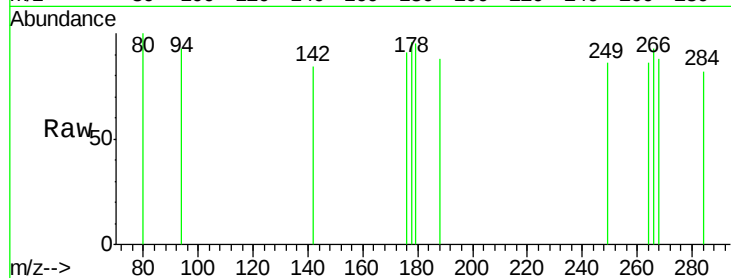




#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 19.45 min Scan# 3139
 Delta R.T. 0.01 min
 Lab File: BE089637.D
 Acq: 19 Feb 2015 5:24

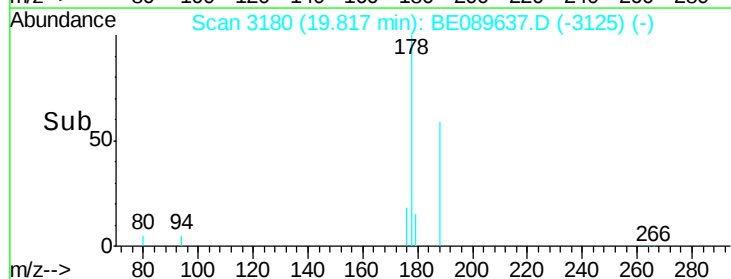
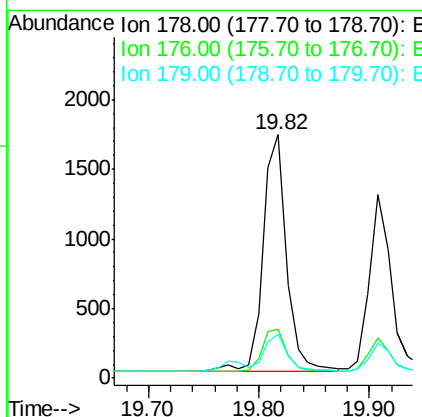
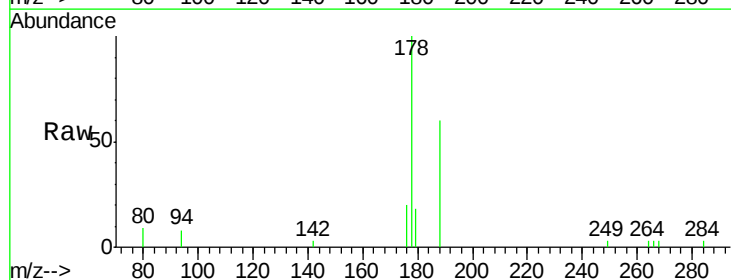
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 266 Resp: 22
 Ion Ratio Lower Upper
 266 100
 268 94.3 52.6 79.0#
 264 92.5 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.07 ng
 RT: 19.82 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: BE089637.D
 Acq: 19 Feb 2015 5:24

Tgt Ion: 178 Resp: 2497
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.1 22.7
 179 14.8 12.3 18.5

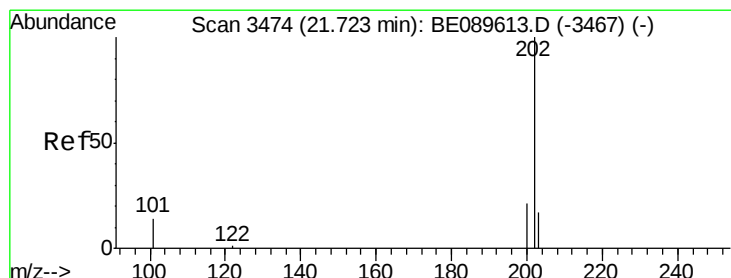
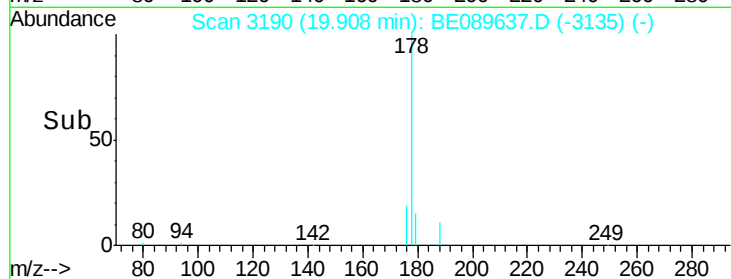
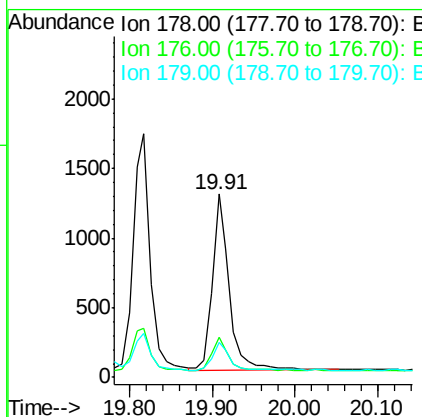
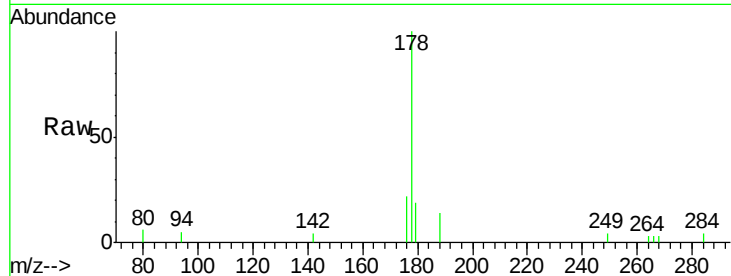




#17
 Anthracene
 Concen: 0.06 ng
 RT: 19.91 min Scan# 3190
 Delta R.T. -0.00 min
 Lab File: BE089637.D
 Acq: 19 Feb 2015 5:24

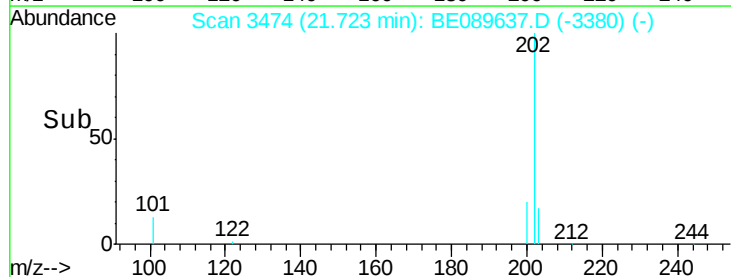
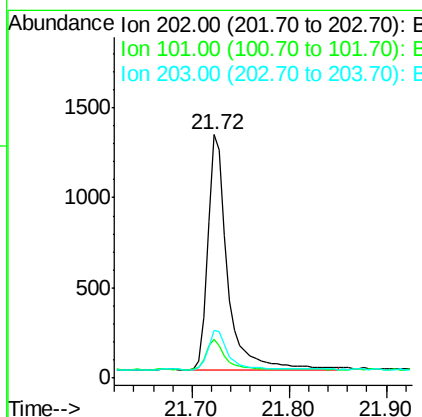
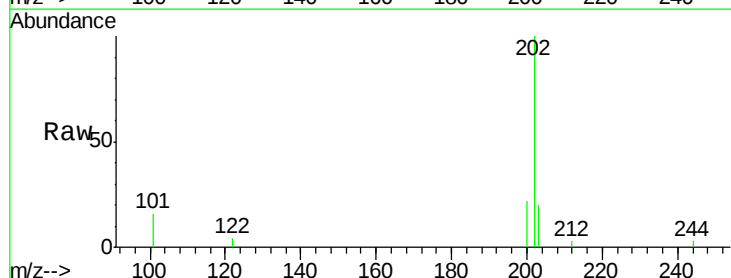
Instrument :
 BNA_E
 ClientSampleId :

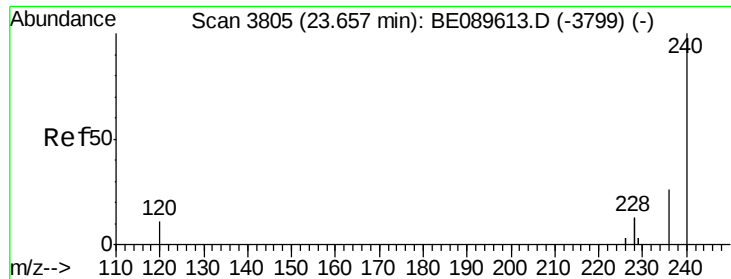
Tgt Ion:178 Resp: 1805
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.6 22.0
 179 15.4 12.3 18.5



#18
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.72 min Scan# 3474
 Delta R.T. 0.00 min
 Lab File: BE089637.D
 Acq: 19 Feb 2015 5:24

Tgt Ion:202 Resp: 1840
 Ion Ratio Lower Upper
 202 100
 101 12.6 10.4 15.6
 203 16.8 13.9 20.9





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3805

Delta R.T. 0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

Instrument :

BNA_E

ClientSampleId :

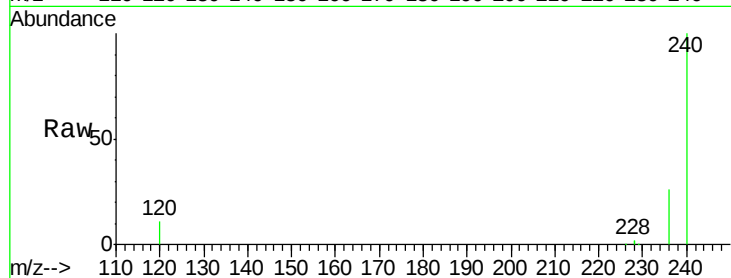
Tgt Ion:240 Resp: 127632

Ion Ratio Lower Upper

240 100

120 10.9 9.0 13.4

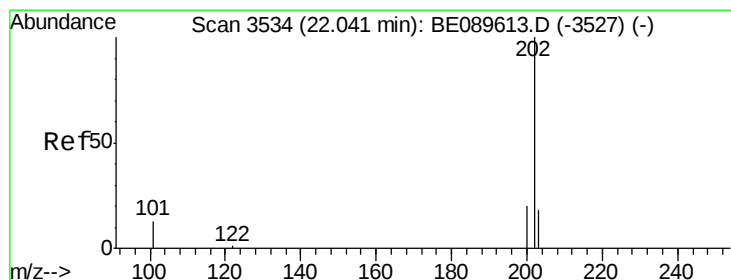
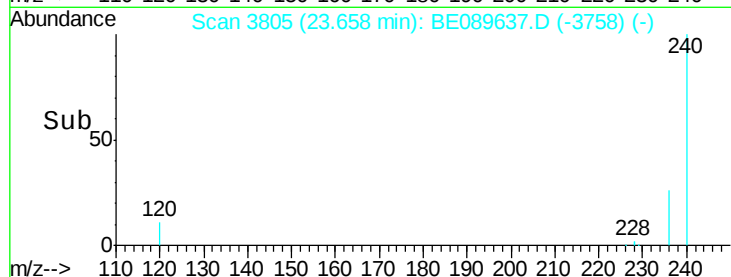
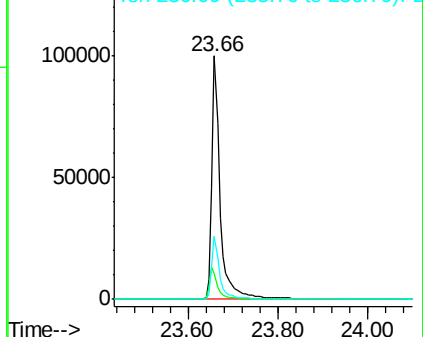
236 25.8 21.0 31.6



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: 0.06 ng

RT: 22.04 min Scan# 3534

Delta R.T. 0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

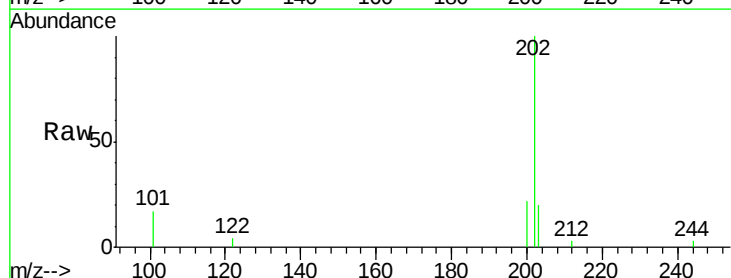
Tgt Ion:202 Resp: 1951

Ion Ratio Lower Upper

202 100

200 20.3 16.3 24.5

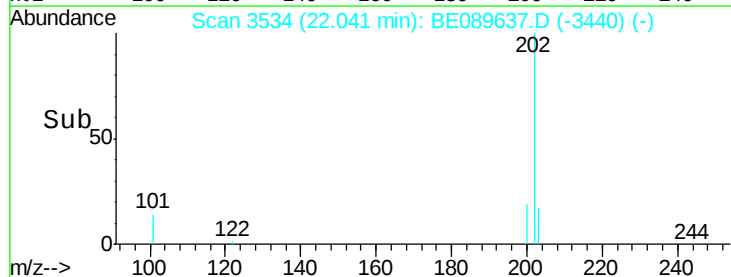
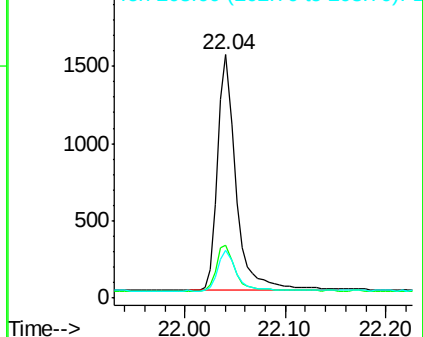
203 17.7 13.8 20.8



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: 11.89 ng

RT: 22.30 min Scan# 3583

Delta R.T. 0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

Instrument :

BNA_E

ClientSampleId :

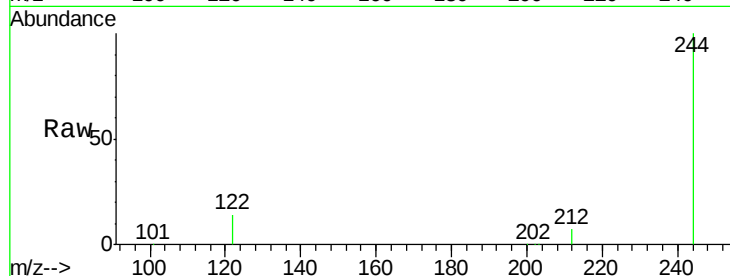
Tgt Ion:244 Resp: 218258

Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.8

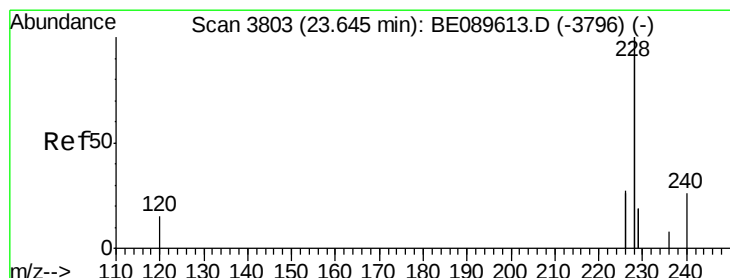
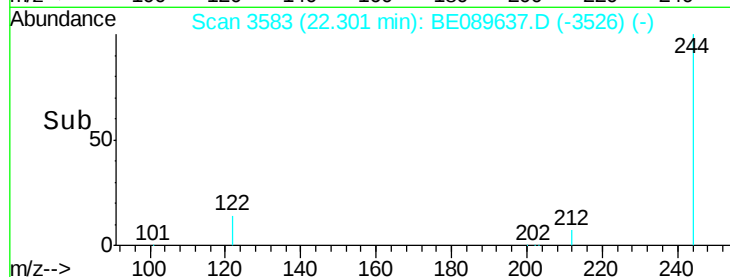
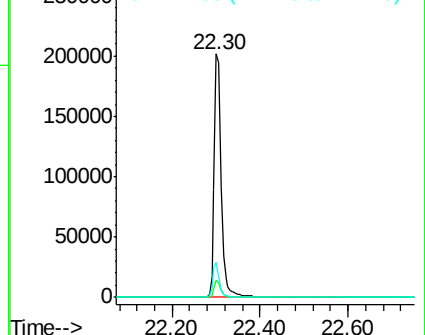
122 14.4 11.8 17.8



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: 0.06 ng

RT: 23.65 min Scan# 3804

Delta R.T. 0.01 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

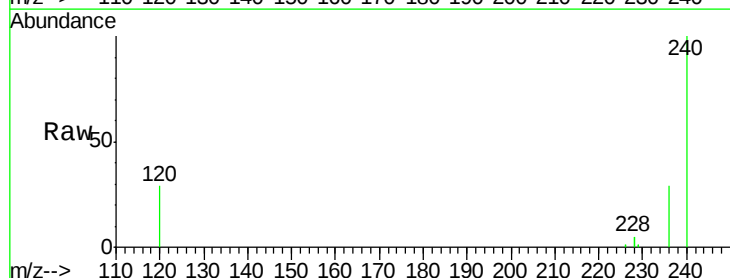
Tgt Ion:228 Resp: 6610

Ion Ratio Lower Upper

228 100

226 25.3 21.2 31.8

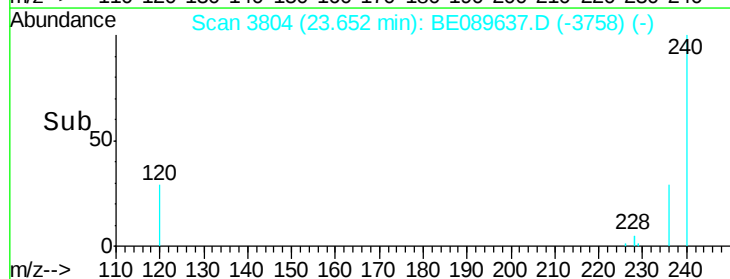
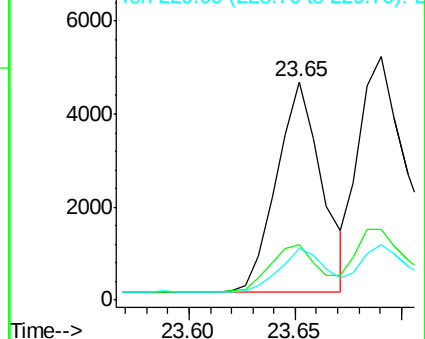
229 23.4 15.2 22.8#



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: 0.09 ng

RT: 23.69 min Scan# 3810

Delta R.T. 0.00 min

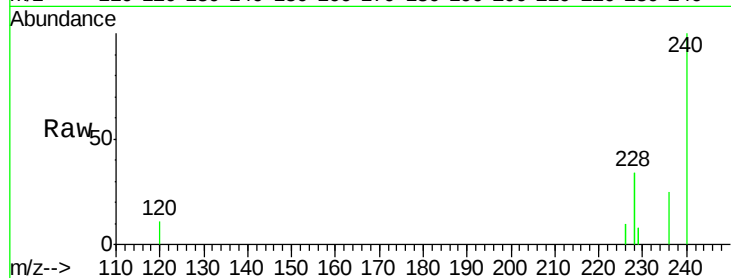
Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

Instrument :

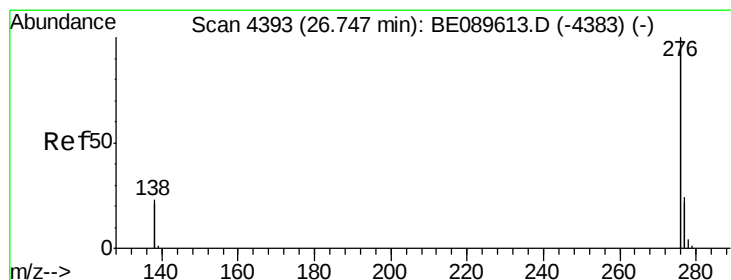
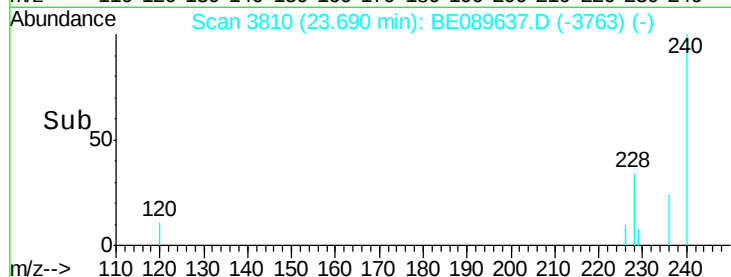
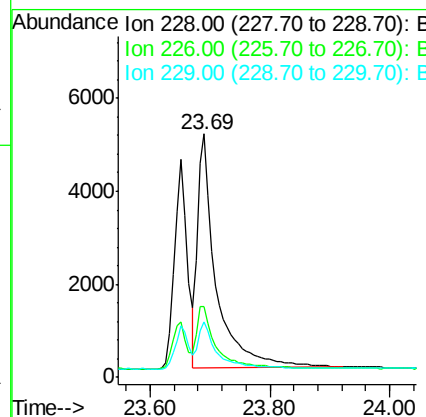
BNA_E

ClientSampleId :



Tgt Ion: 228 Resp: 10797

Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.2	33.4
229	23.0	16.0	24.0



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.19 ng

RT: 26.75 min Scan# 4393

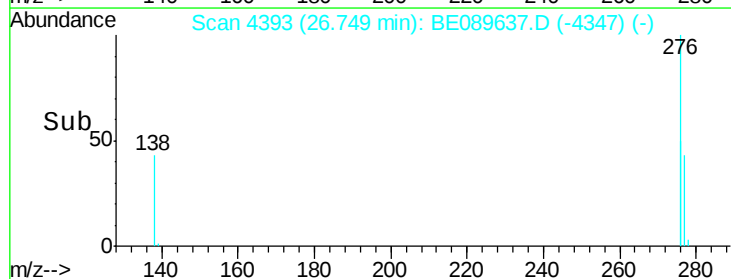
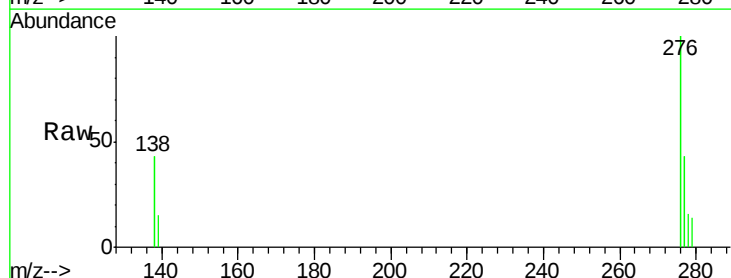
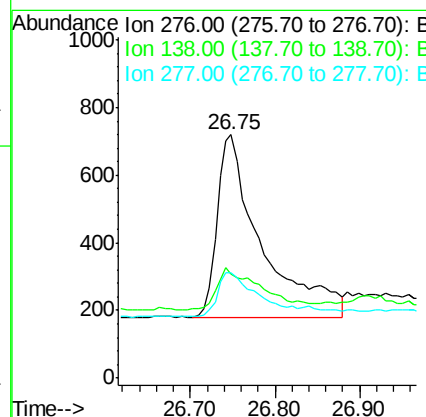
Delta R.T. 0.00 min

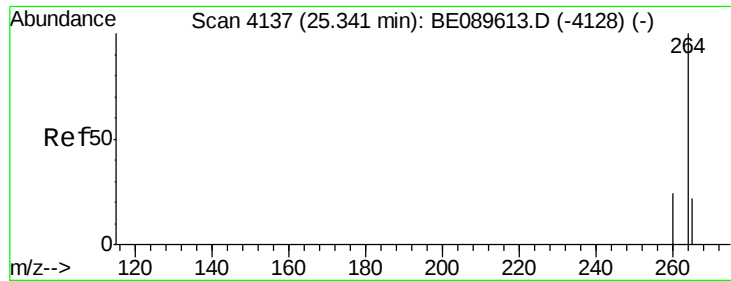
Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

Tgt Ion: 276 Resp: 1958

Ion	Ratio	Lower	Upper
276	100		
138	24.4	21.4	32.2
277	22.2	19.9	29.9

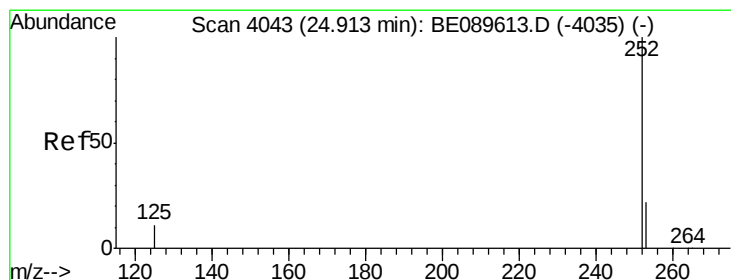
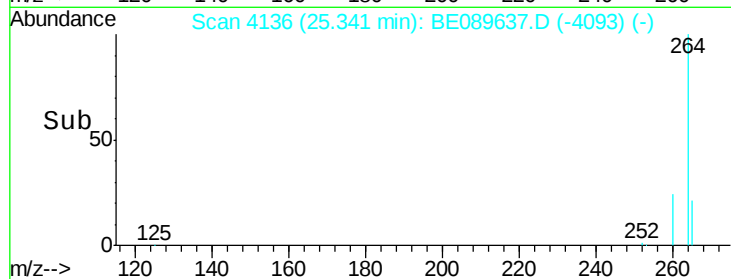
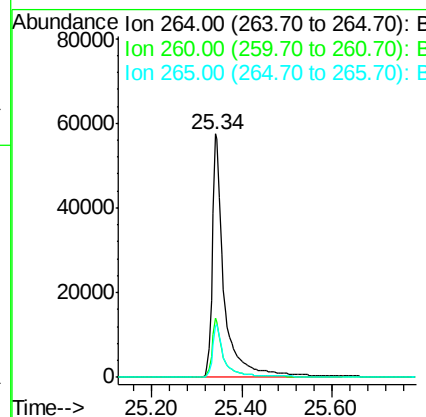
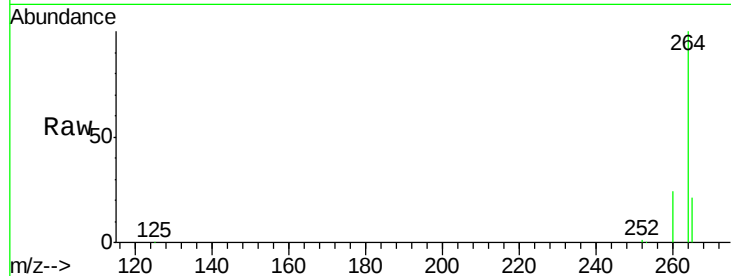




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4136
 Delta R.T. -0.00 min
 Lab File: BE089637.D
 Acq: 19 Feb 2015 5:24

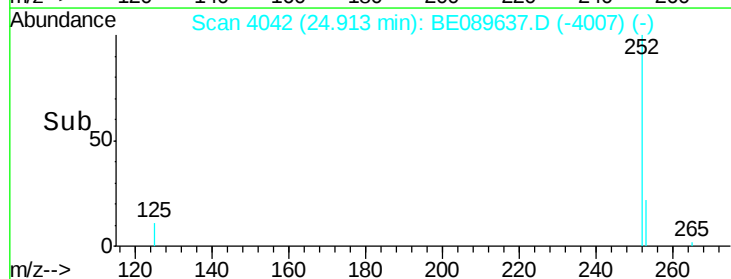
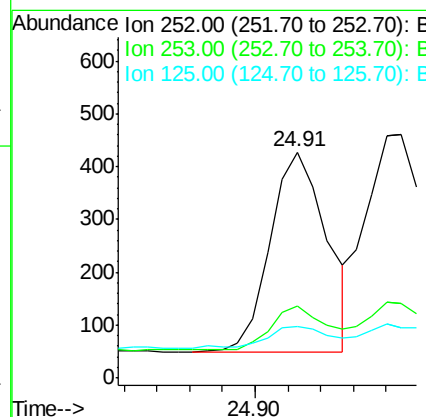
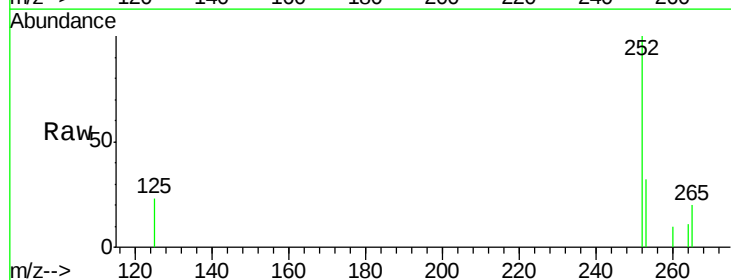
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 264 Resp: 106650
 Ion Ratio Lower Upper
 264 100
 260 24.3 19.0 28.6
 265 21.0 17.4 26.0



#26
 Benzo(b)fluoranthene
 Concen: 0.29 ng
 RT: 24.91 min Scan# 4042
 Delta R.T. 0.00 min
 Lab File: BE089637.D
 Acq: 19 Feb 2015 5:24

Tgt Ion: 252 Resp: 457
 Ion Ratio Lower Upper
 252 100
 253 32.0 17.6 26.4#
 125 22.9 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.02 ng

RT: 24.94 min Scan# 4049

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

Instrument :

BNA_E

ClientSampleId :

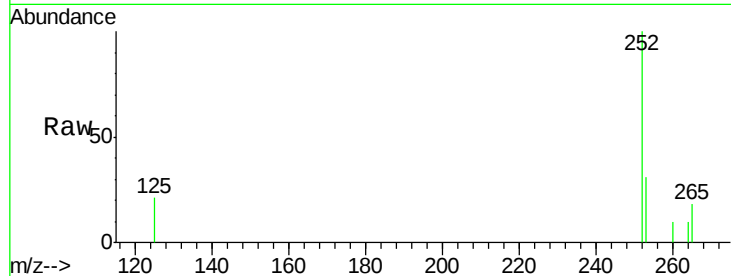
Tgt Ion: 252 Resp: 752

Ion Ratio Lower Upper

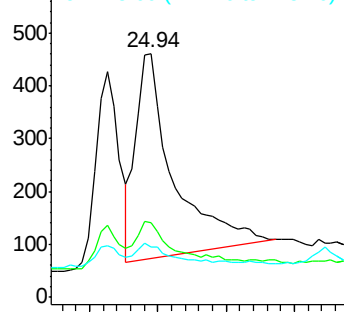
252 100

253 30.8 17.7 26.5#

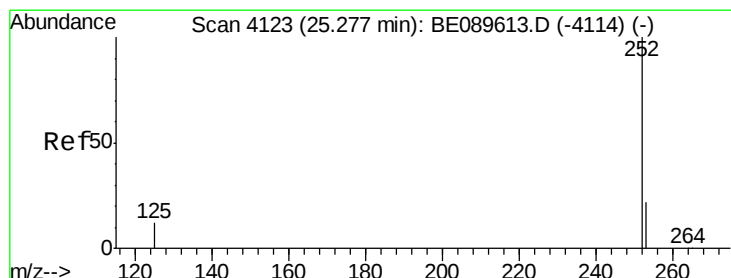
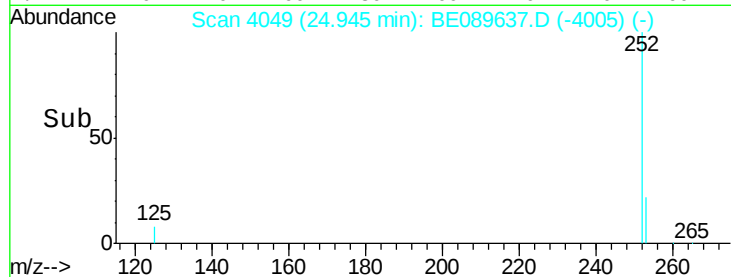
125 20.6 8.8 13.2#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->



#28

Benzo(a)pyrene

Concen: 0.26 ng

RT: 25.27 min Scan# 4121

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

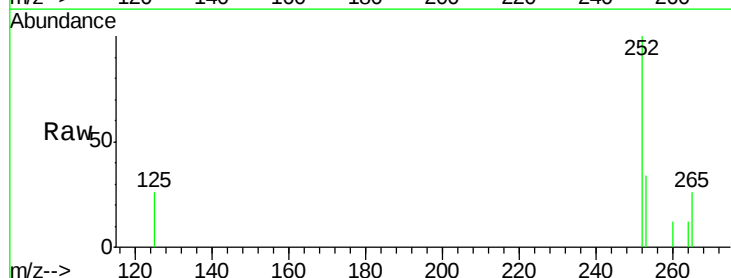
Tgt Ion: 252 Resp: 505

Ion Ratio Lower Upper

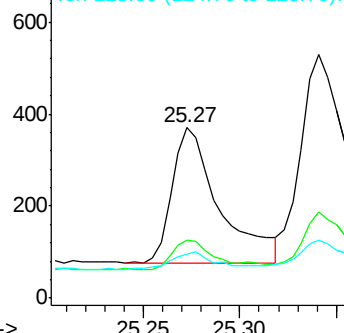
252 100

253 33.8 18.1 27.1#

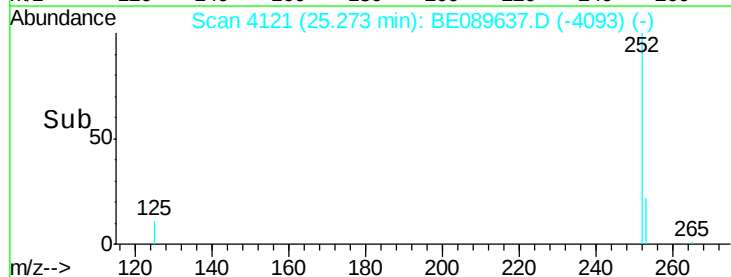
125 25.9 9.6 14.4#

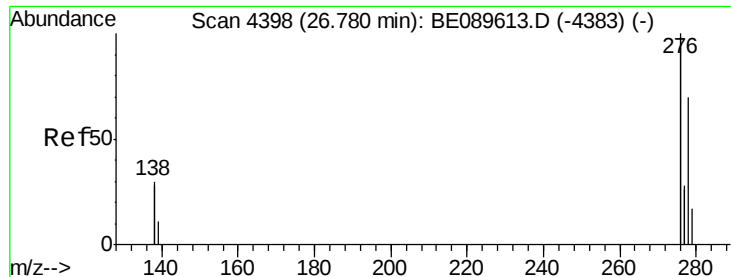


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->





#29

Dibenzo(a,h)anthracene

Concen: 0.24 ng

RT: 26.77 min Scan# 4397

Delta R.T. -0.00 min

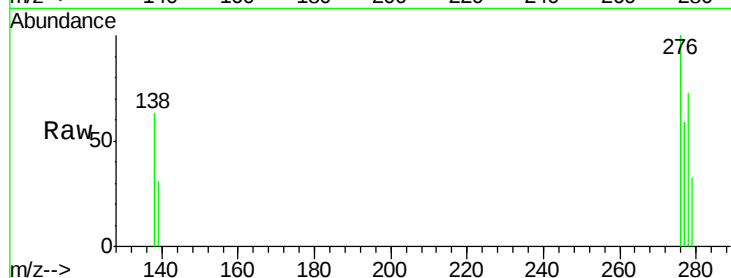
Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

Instrument :

BNA_E

ClientSampleId :



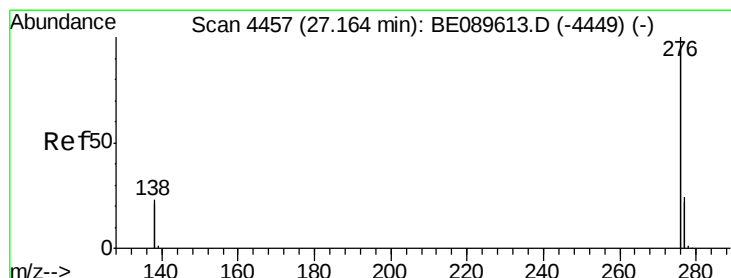
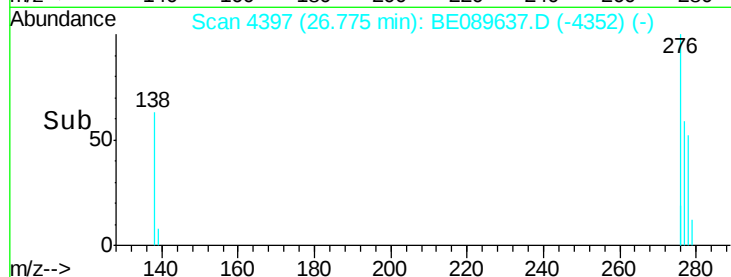
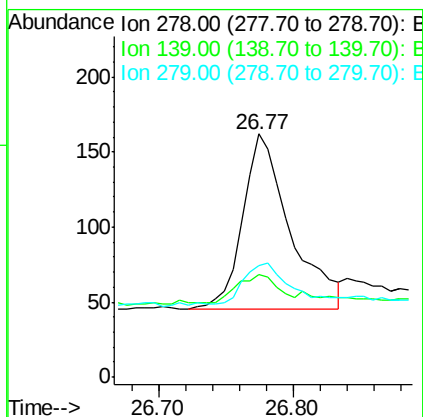
Tgt Ion: 278 Resp: 288

Ion Ratio Lower Upper

278 100

139 42.0 13.7 20.5#

279 45.7 19.7 29.5#



#30

Benzo(g,h,i)perylene

Concen: 0.16 ng

RT: 27.16 min Scan# 4456

Delta R.T. -0.00 min

Lab File: BE089637.D

Acq: 19 Feb 2015 5:24

Tgt Ion: 276 Resp: 2496

Ion Ratio Lower Upper

276 100

277 38.1 19.1 28.7#

138 41.0 18.7 28.1#

