

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089831.D
 Acq On : 25 Mar 2015 4:15
 Operator : TP/JJ
 Sample : G1575-08
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RW-9V

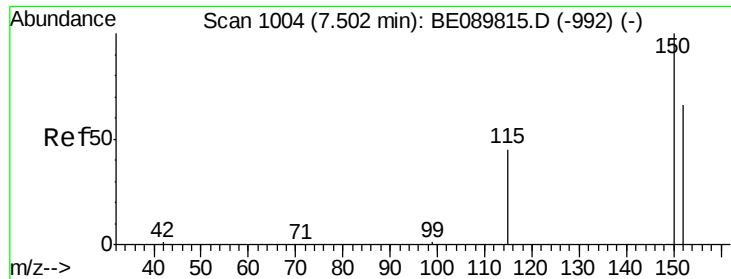
Quant Time: Mar 25 17:05:45 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE032415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 25 16:20:31 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	208412	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	843098	5.00	ng	0.00
8) Acenaphthene-d10	14.39	164	381522	5.00	ng	0.00
13) Phenanthrene-d10	17.93	188	682772	5.00	ng	0.00
19) Chrysene-d12	24.26	240	670968	5.00	ng	0.00
25) Perylene-d12	27.42	264	629295	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) Nitrobenzene-d5	8.68	82	454228	7.42	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	753682	8.44	ng	0.00
21) Terphenyl-d14	21.87	244	913677	9.23	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.19	88	45466	1.69	ng	# 1
3) n-Nitrosodimethylamine	2.94	42	3007	0.08	ng	# 12
6) Naphthalene	10.31	128	2221	0.01	ng	# 77
7) 2-Methylnaphthalene	11.93	142	599	0.01	ng	# 61
10) Acenaphthylene	14.04	152	1131	0.00	ng	# 62
11) Acenaphthene	14.46	154	53	0.00	ng	# 1
12) Fluorene	15.71	166	780	0.01	ng	# 1
14) Hexachlorobenzene	16.99	284	302	0.01	ng	# 32
15) Pentachlorophenol	17.51	266	221	Below Cal		90
16) Phenanthrene	17.97	178	4739	0.03	ng	# 94
17) Anthracene	18.10	178	852	0.01	ng	# 1
18) Fluoranthene	20.83	202	4148	0.03	ng	# 31
20) Pyrene	21.35	202	2295	0.01	ng	# 81
22) Benzo(a)anthracene	24.26	228	2906	0.02	ng	# 83
23) Chrysene	24.32	228	1336	0.01	ng	# 82
24) Indeno(1,2,3-cd)pyrene	29.40	276	913	0.43	ng	# 92
26) Benzo(b)fluoranthene	26.65	252	2143	0.33	ng	# 28
27) Benzo(k)fluoranthene	26.69	252	767	0.01	ng	# 1
28) Benzo(a)pyrene	27.30	252	697	0.30	ng	# 1
29) Dibenzo(a,h)anthracene	29.44	278	71	0.26	ng	# 1
30) Benzo(g,h,i)perylene	29.83	276	1224	0.26	ng	# 38

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.50 min Scan# 1004

Delta R.T. 0.00 min

Lab File: BE089831.D

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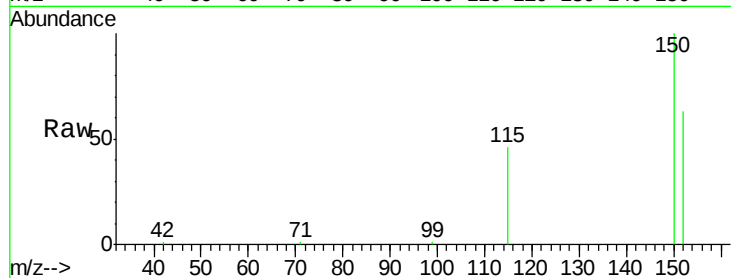
Tgt Ion:152 Resp: 208412

Ion Ratio Lower Upper

152 100

150 157.8 125.5 188.3

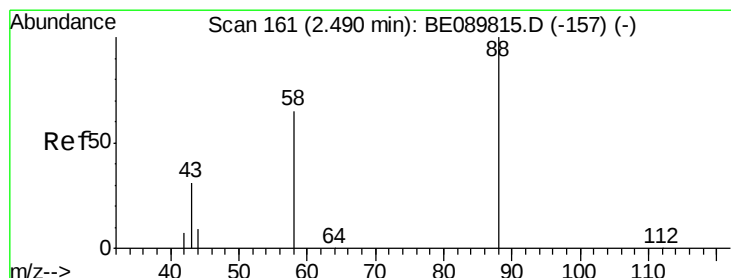
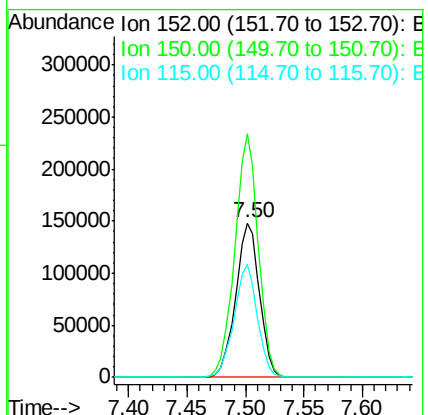
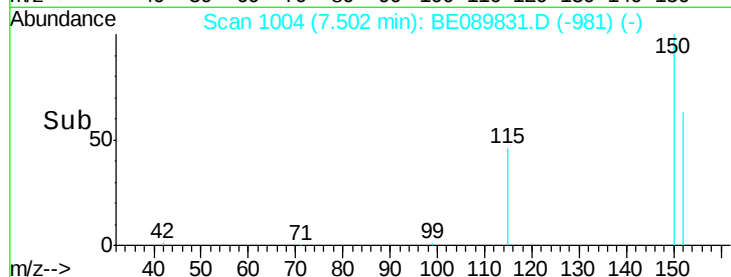
115 72.9 58.0 87.0



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: 1.69 ng

RT: 2.19 min Scan# 117

Delta R.T. -0.33 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

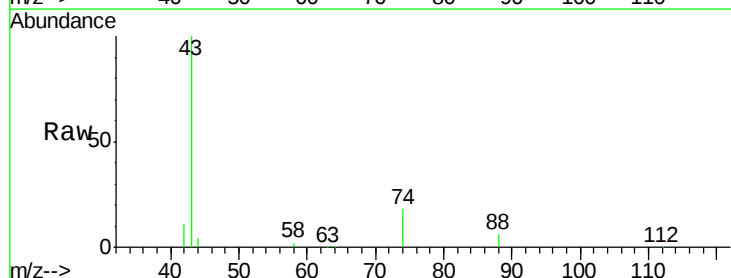
Tgt Ion: 88 Resp: 45466

Ion Ratio Lower Upper

88 100

58 30.5 48.6 72.8#

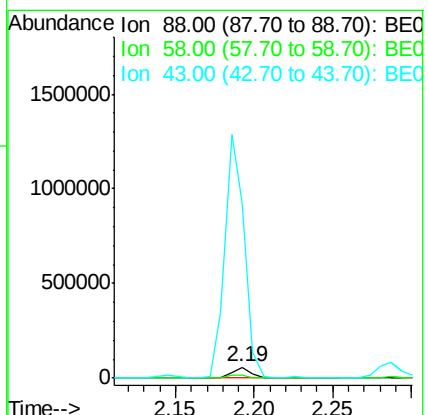
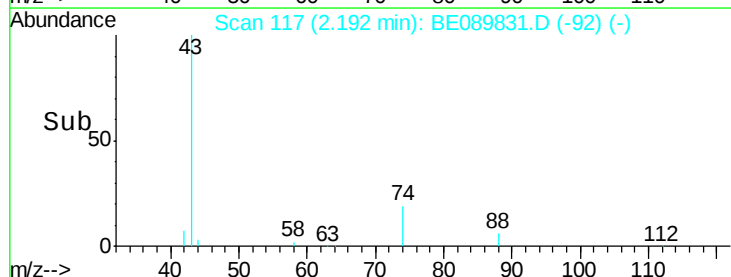
43 2420.6 28.6 43.0#

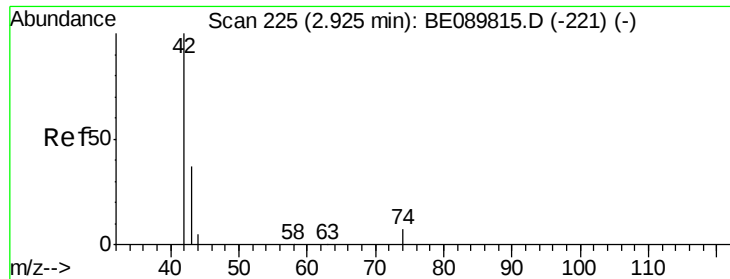


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: 2.94 min Scan# 227

Delta R.T. -0.05 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

Instrument :

BNA_E

ClientSampleId :

RW-9V

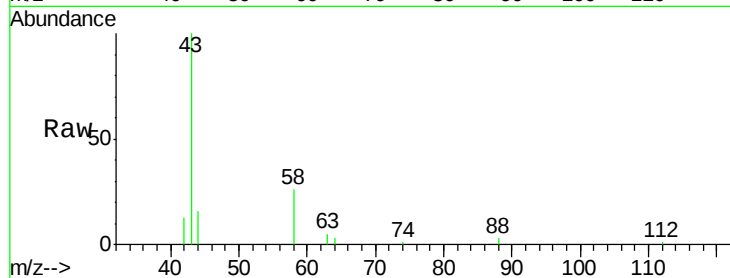
Tgt Ion: 42 Resp: 3007

Ion Ratio Lower Upper

42 100

74 0.0 68.7 103.1#

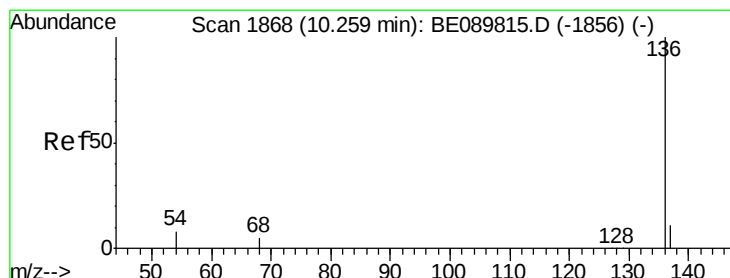
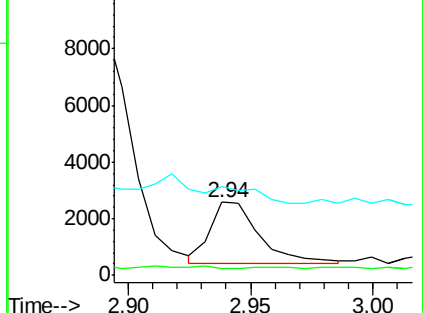
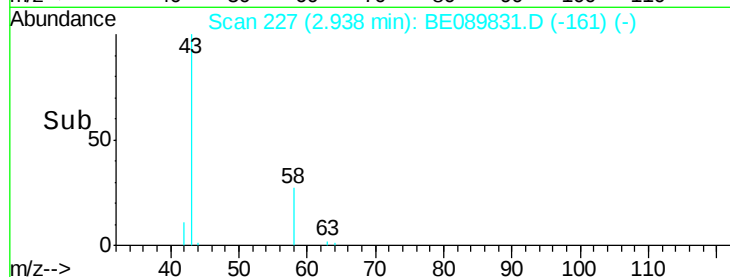
44 0.0 6.2 9.4#



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: 10.26 min Scan# 1869

Delta R.T. 0.01 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

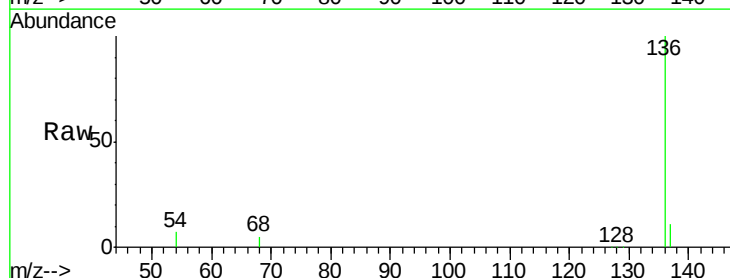
Tgt Ion: 136 Resp: 843098

Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

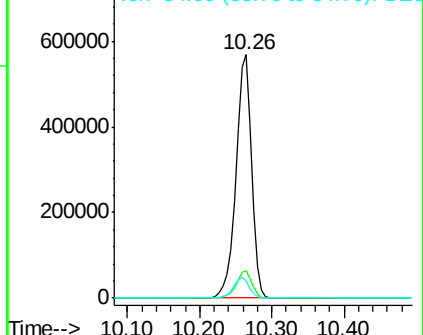
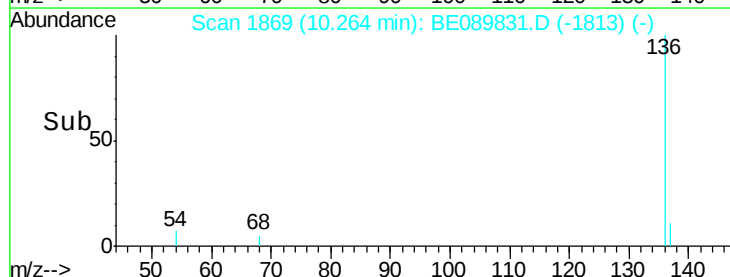
54 7.0 7.0 10.4

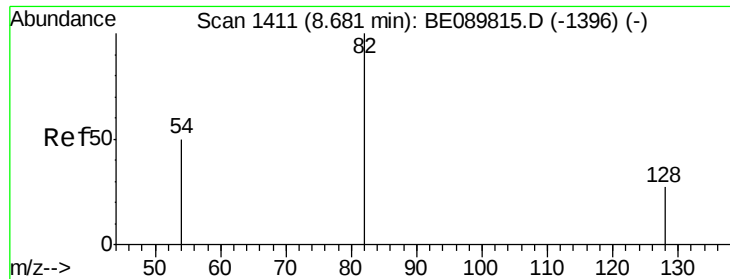


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 7.42 ng

RT: 8.68 min Scan# 1411

Delta R.T. -0.00 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

Instrument :

BNA_E

ClientSampleId :

RW-9V

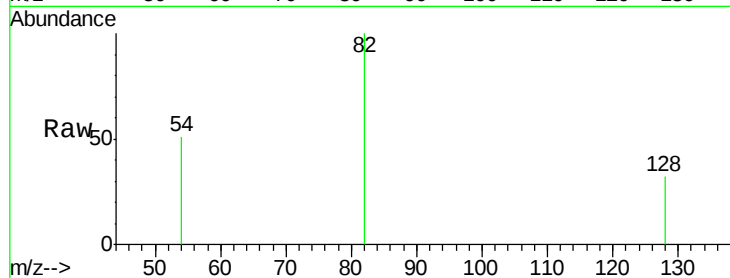
Tgt Ion: 82 Resp: 454228

Ion Ratio Lower Upper

82 100

128 31.8 24.6 37.0

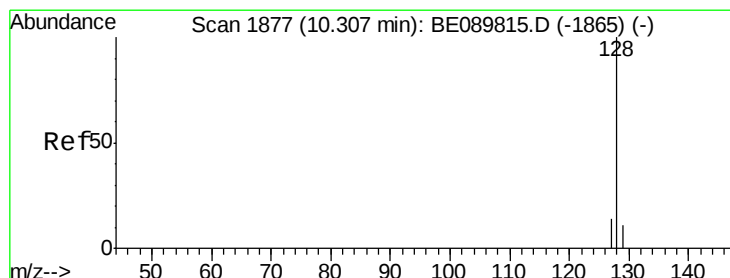
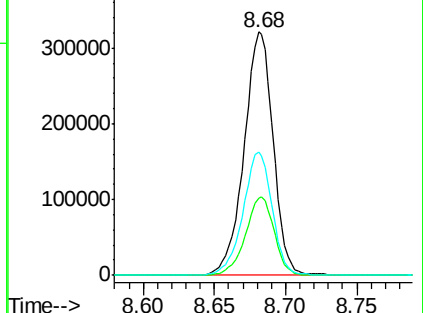
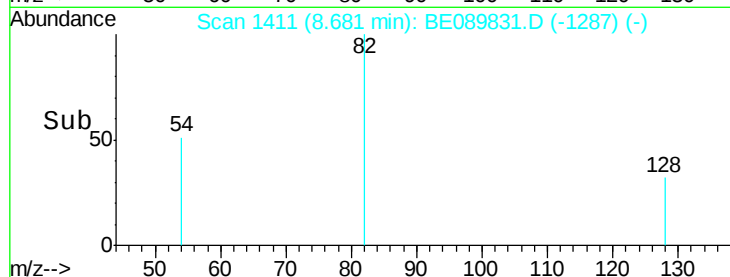
54 50.8 43.0 64.6



Abundance Ion 82.00 (81.70 to 82.70): BE089831.D (-1287) (-)

Ion 128.00 (127.70 to 128.70): BE089831.D (-1287) (-)

Ion 54.00 (53.70 to 54.70): BE089831.D (-1287) (-)



#6

Naphthalene

Concen: 0.01 ng

RT: 10.31 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

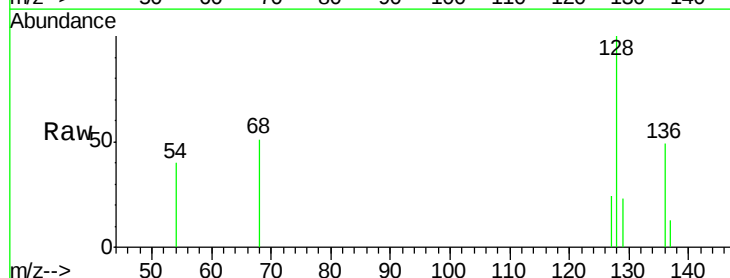
Tgt Ion: 128 Resp: 2221

Ion Ratio Lower Upper

128 100

129 23.0 10.0 15.0#

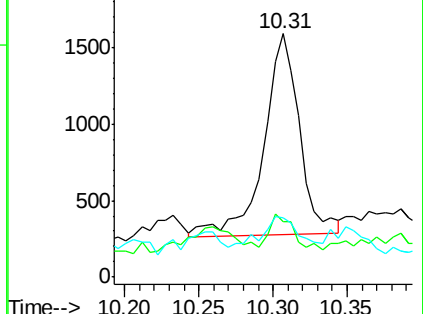
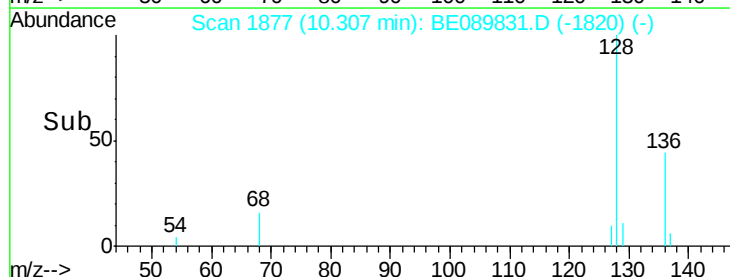
127 24.4 12.5 18.7#

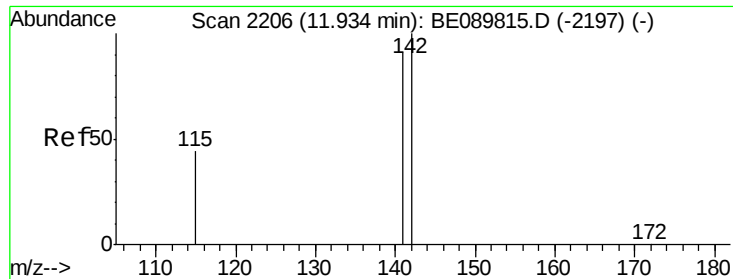


Abundance Ion 128.00 (127.70 to 128.70): BE089831.D (-1820) (-)

Ion 129.00 (128.70 to 129.70): BE089831.D (-1820) (-)

Ion 127.00 (126.70 to 127.70): BE089831.D (-1820) (-)





#7

2-Methylnaphthalene

Concen: 0.01 ng

RT: 11.93 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

Instrument :

BNA_E

ClientSampleId :

RW-9V

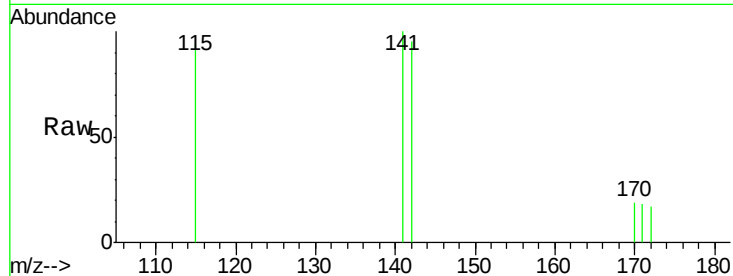
Tgt Ion:142 Resp: 599

Ion Ratio Lower Upper

142 100

141 104.9 72.8 109.2

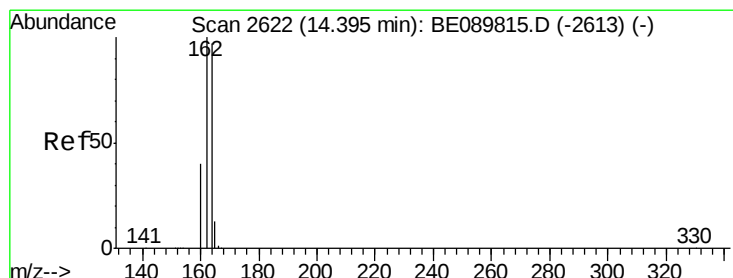
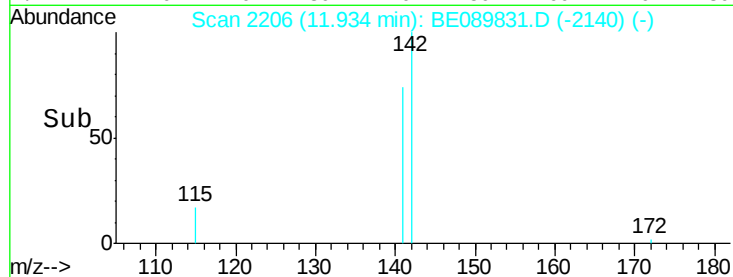
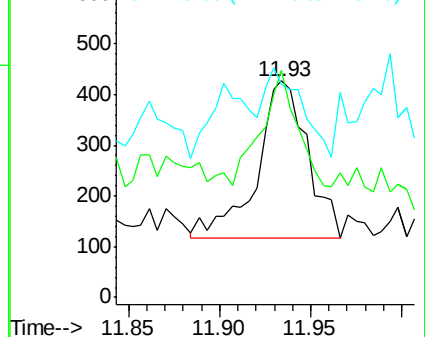
115 98.4 32.9 49.3#



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: 14.39 min Scan# 2622

Delta R.T. 0.01 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

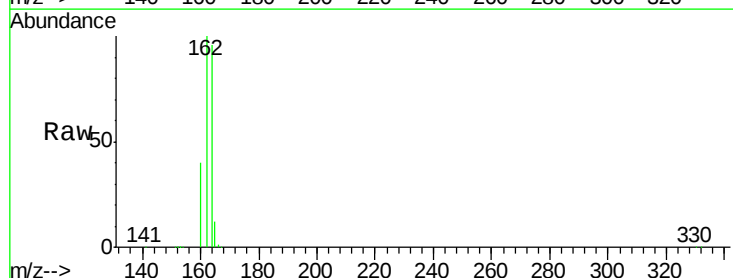
Tgt Ion:164 Resp: 381522

Ion Ratio Lower Upper

164 100

162 104.6 87.6 131.4

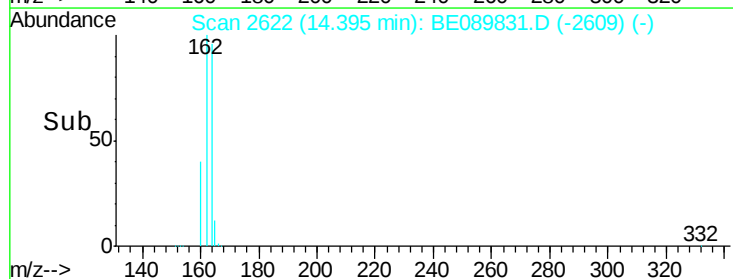
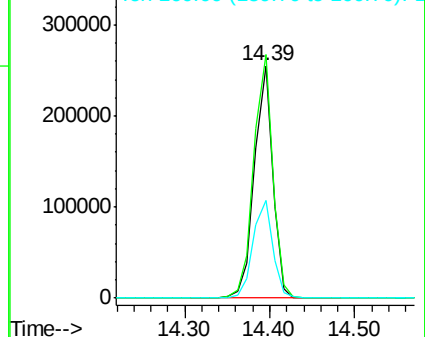
160 42.2 36.7 55.1

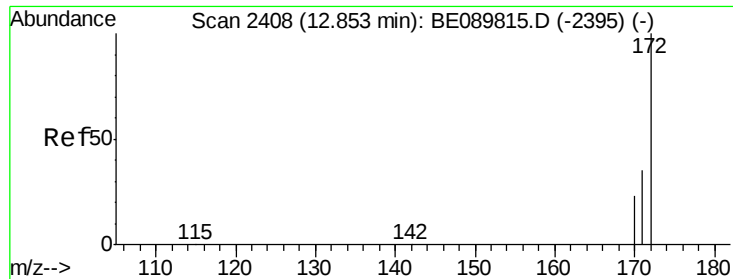


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 8.44 ng

RT: 12.85 min Scan# 2408

Delta R.T. 0.00 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

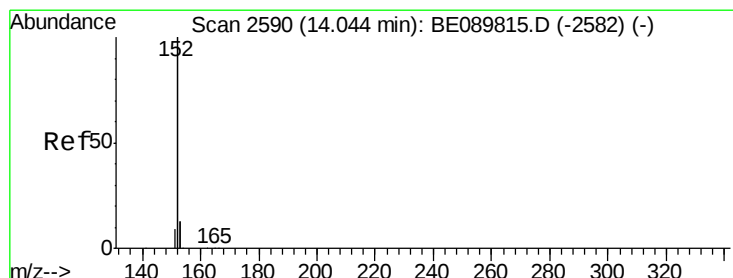
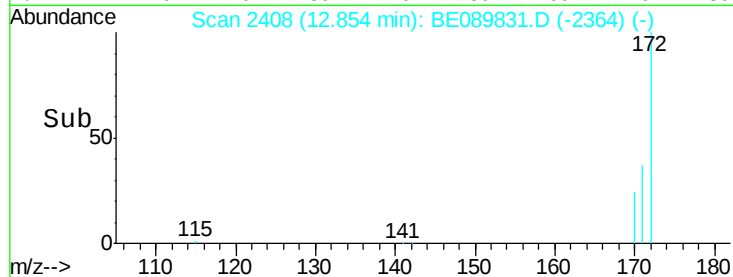
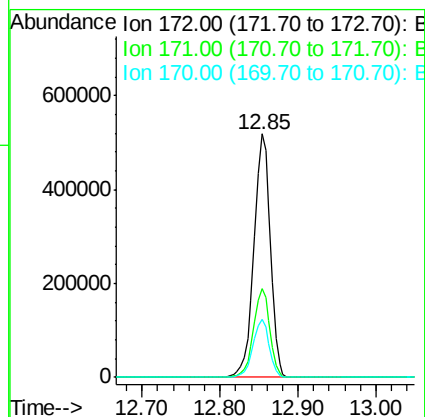
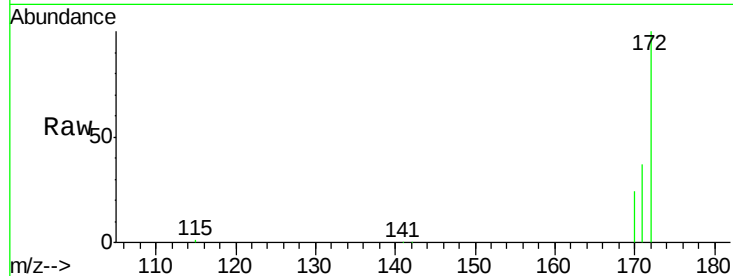
Instrument :

BNA_E

ClientSampleId :

RW-9V

Tgt Ion:	172	Resp:	753682
Ion	Ratio	Lower	Upper
172	100		
171	36.5	30.8	46.2
170	23.7	21.0	31.4



#10

Acenaphthylene

Concen: 0.00 ng

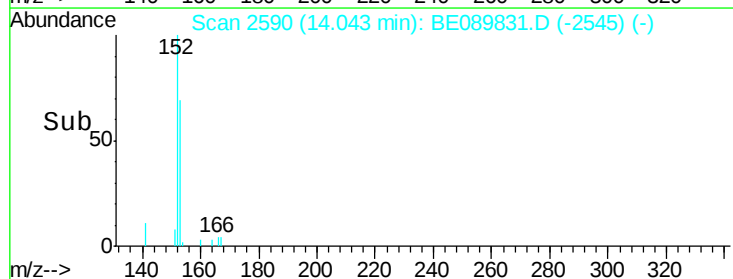
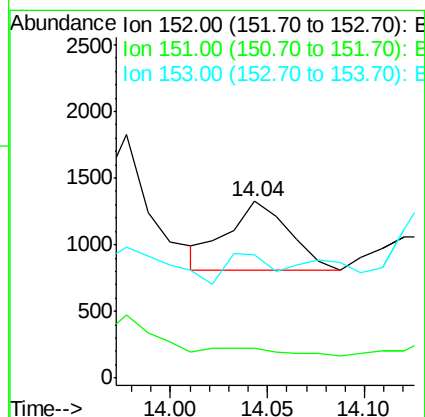
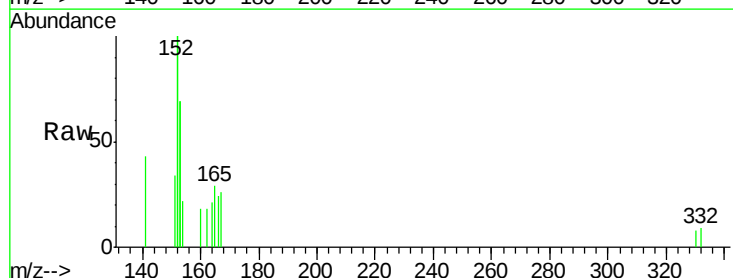
RT: 14.04 min Scan# 2590

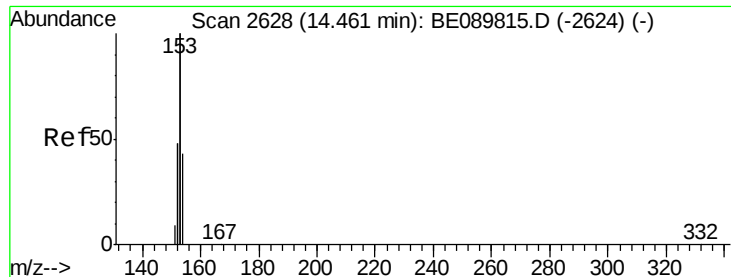
Delta R.T. -0.00 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

Tgt Ion:	152	Resp:	1131
Ion	Ratio	Lower	Upper
152	100		
151	0.0	3.9	5.9#
153	32.4	11.0	16.4#





#11

Acenaphthene

Concen: 0.00 ng

RT: 14.46 min Scan# 2628

Delta R.T. -0.00 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

Instrument :

BNA_E

ClientSampleId :

RW-9V

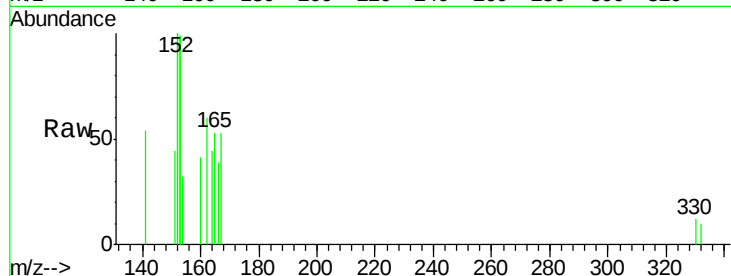
Tgt Ion:154 Resp: 53

Ion Ratio Lower Upper

154 100

153 1645.3 401.5 602.3#

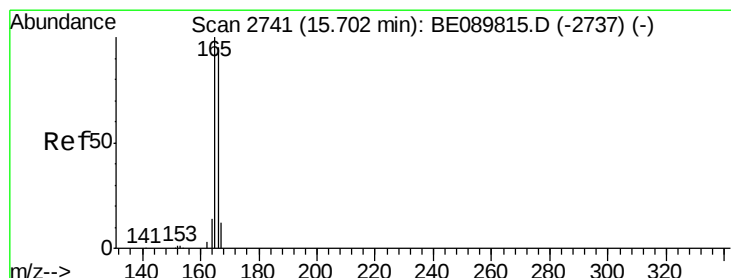
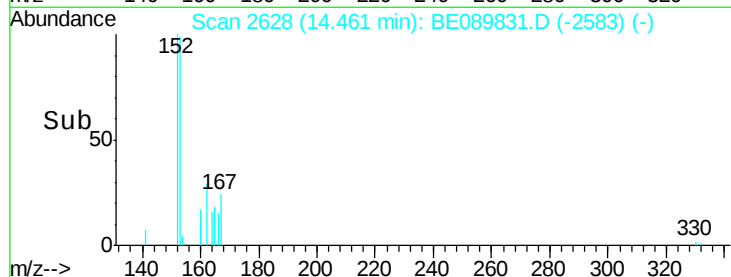
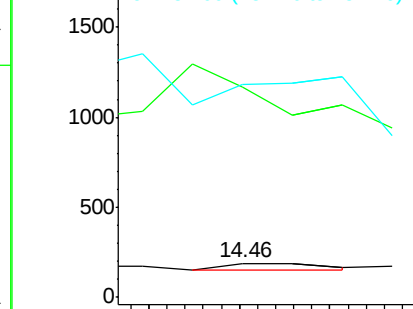
152 0.0 198.6 298.0#



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: 0.01 ng

RT: 15.71 min Scan# 2742

Delta R.T. -0.00 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

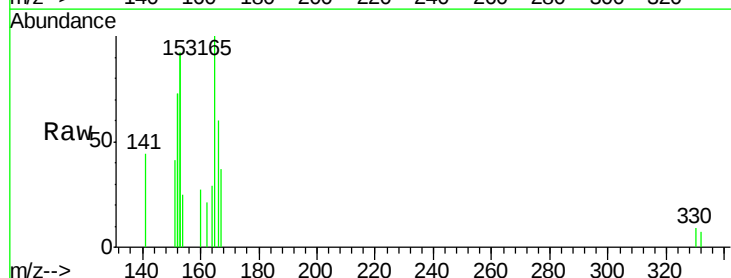
Tgt Ion:166 Resp: 780

Ion Ratio Lower Upper

166 100

165 434.1 85.1 127.7#

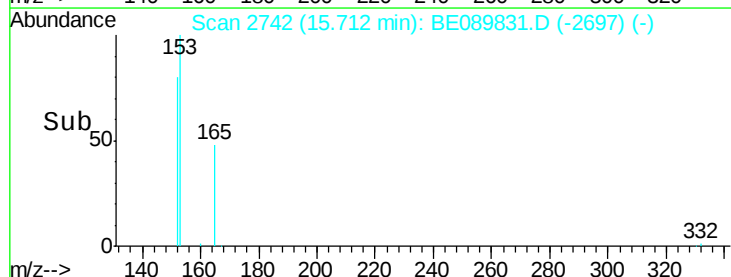
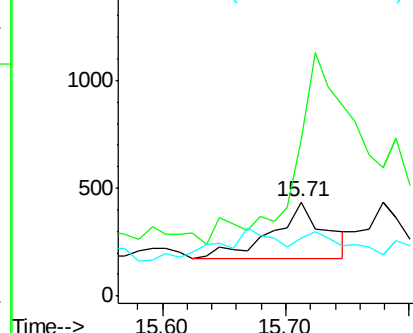
167 41.7 12.2 18.4#

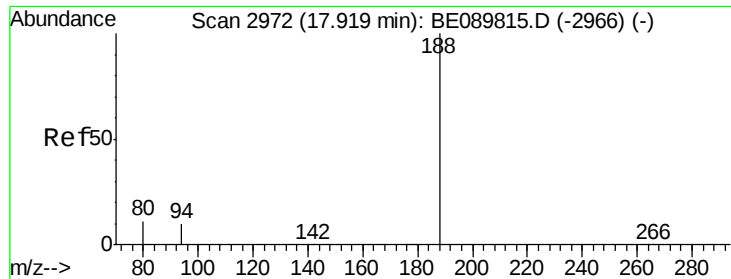


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

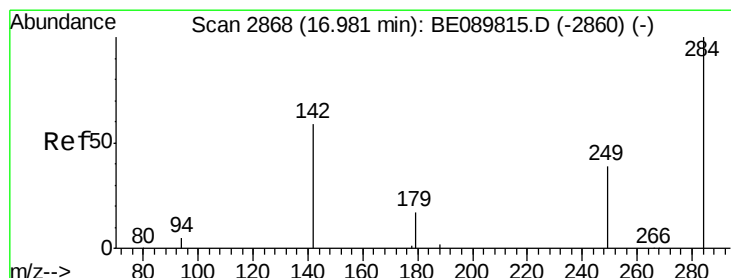
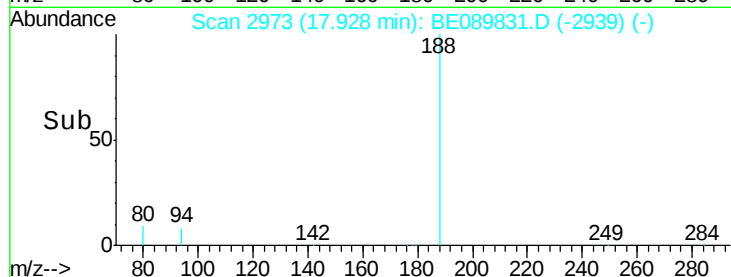
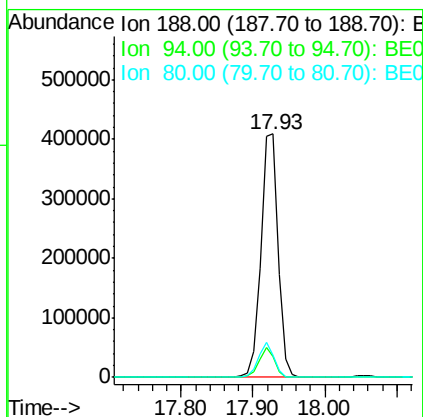
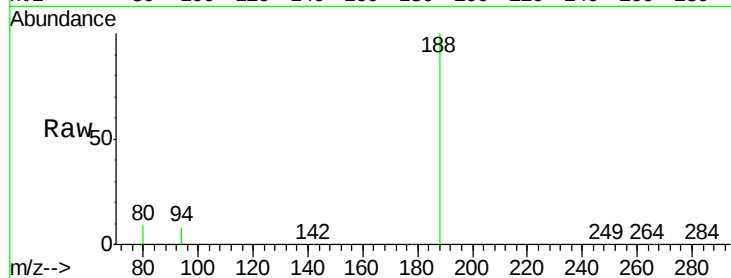




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.93 min Scan# 2973
Delta R.T. 0.01 min
Lab File: BE089831.D
Acq: 25 Mar 2015 4:15

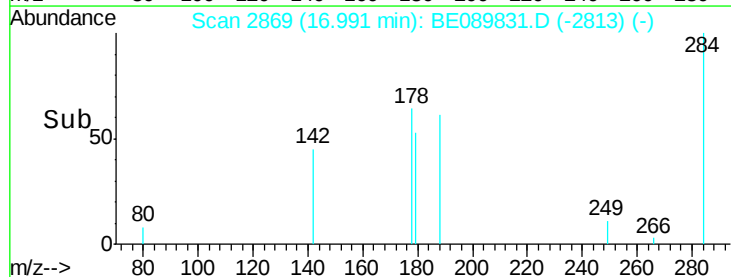
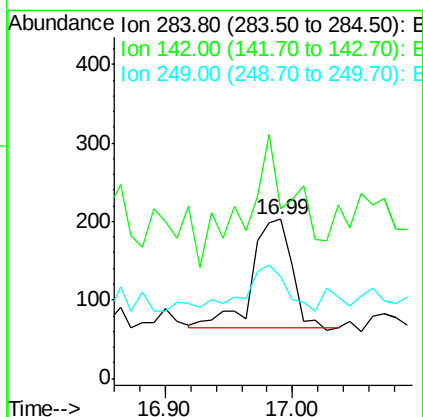
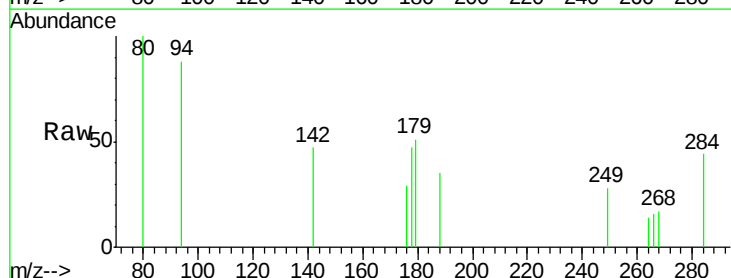
Instrument :
BNA_E
ClientSampleId :
RW-9V

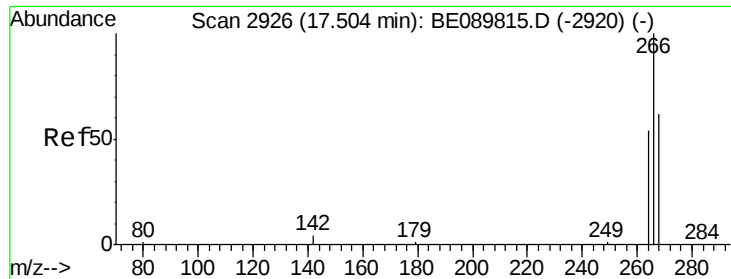
Tgt Ion:188 Resp: 682772
Ion Ratio Lower Upper
188 100
94 8.4 8.5 12.7#
80 9.4 10.0 15.0#



#14
Hexachlorobenzene
Concen: 0.01 ng
RT: 16.99 min Scan# 2869
Delta R.T. 0.01 min
Lab File: BE089831.D
Acq: 25 Mar 2015 4:15

Tgt Ion:284 Resp: 302
Ion Ratio Lower Upper
284 100
142 149.3 53.3 79.9#
249 42.7 31.1 46.7





#15

Pentachlorophenol

Concen: Below Cal

RT: 17.51 min Scan# 2927

Delta R.T. 0.01 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

Instrument :

BNA_E

ClientSampleId :

RW-9V

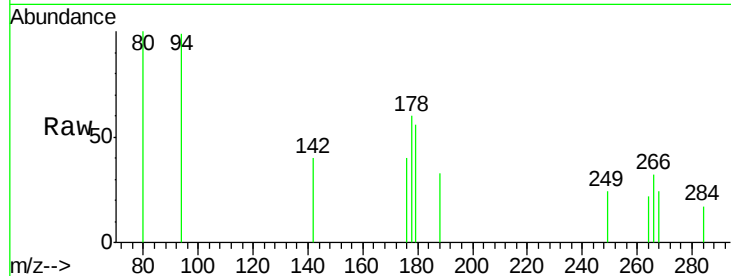
Tgt Ion:266 Resp: 221

Ion Ratio Lower Upper

266 100

268 74.2 51.6 77.4

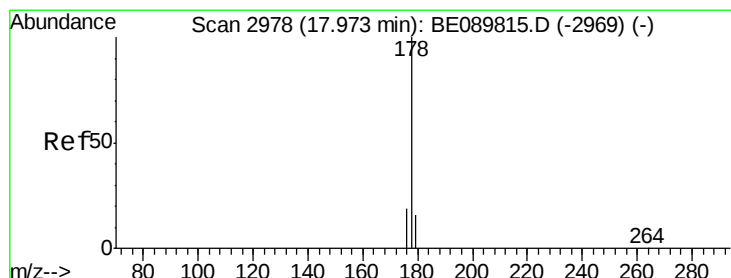
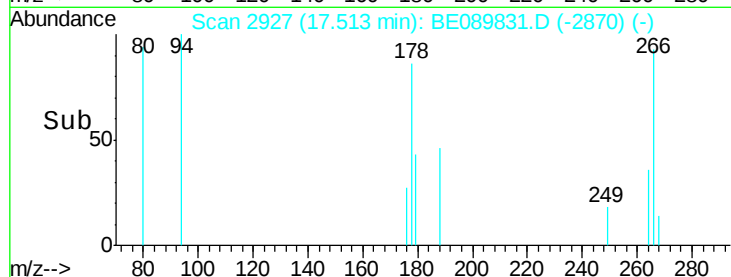
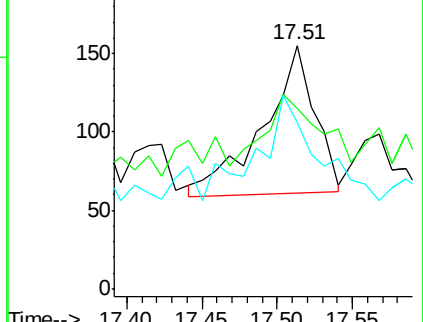
264 68.4 50.2 75.2



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: 0.03 ng

RT: 17.97 min Scan# 2978

Delta R.T. -0.00 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

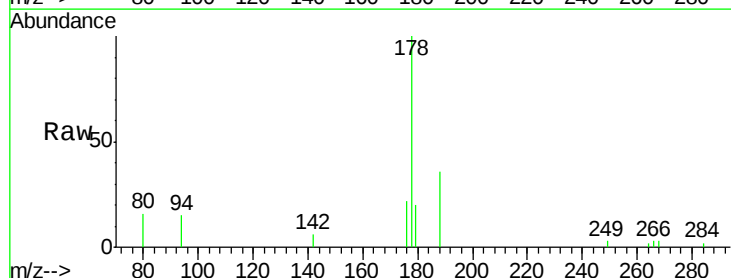
Tgt Ion:178 Resp: 4739

Ion Ratio Lower Upper

178 100

176 23.6 15.4 23.0#

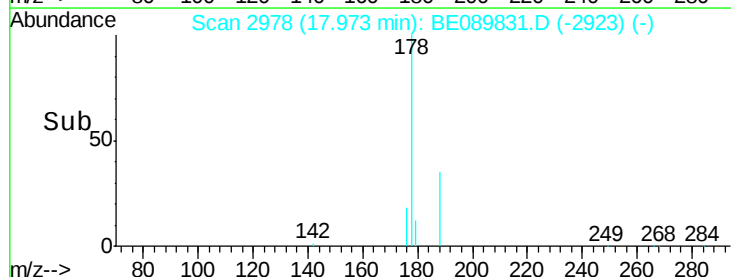
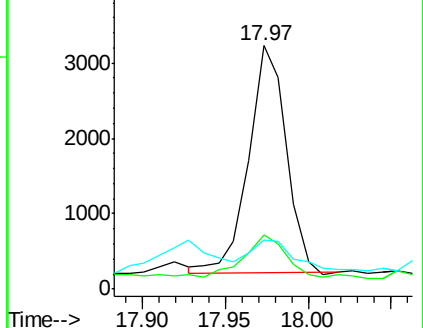
179 15.9 12.2 18.4

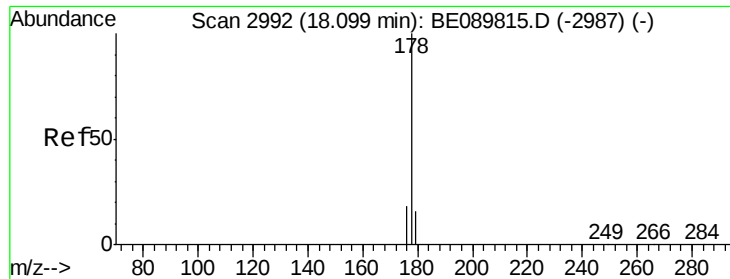


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 0.01 ng

RT: 18.10 min Scan# 2992

Delta R.T. -0.00 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

Instrument :

BNA_E

ClientSampleId :

RW-9V

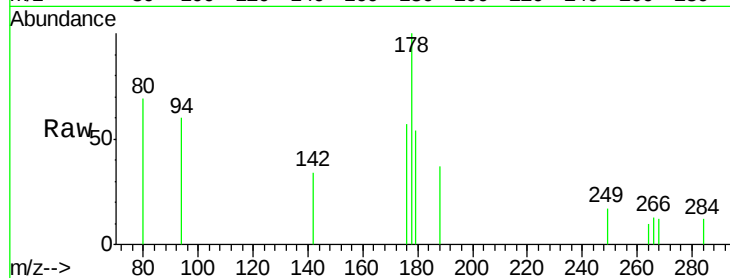
Tgt Ion:178 Resp: 852

Ion Ratio Lower Upper

178 100

176 111.7 14.6 21.8#

179 20.0 12.1 18.1#



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

18.10

600

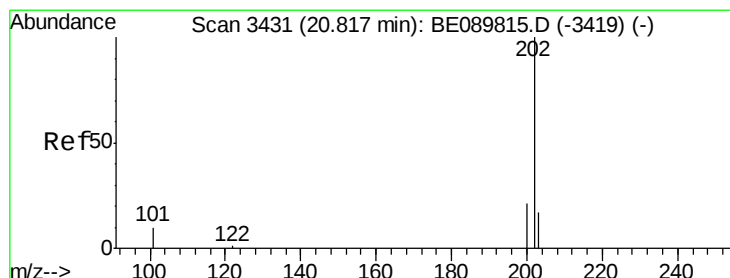
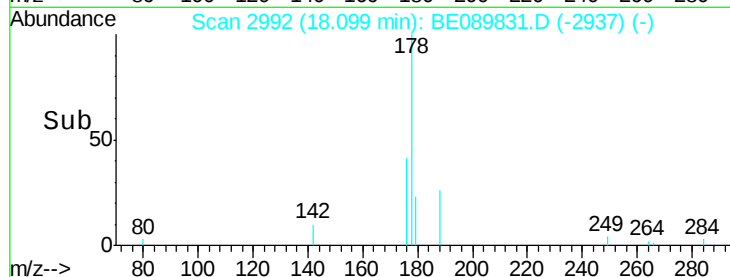
400

200

0

18.05 18.10 18.15 18.20

Time-->



#18

Fluoranthene

Concen: 0.03 ng

RT: 20.83 min Scan# 3433

Delta R.T. 0.01 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

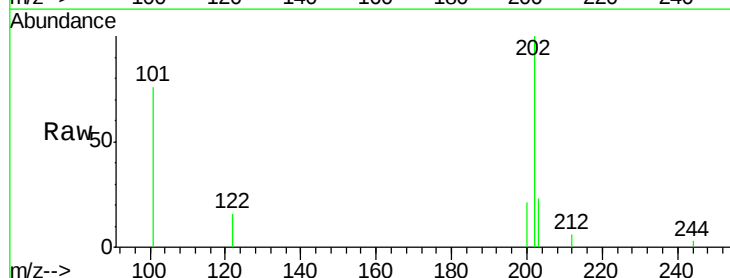
Tgt Ion:202 Resp: 4148

Ion Ratio Lower Upper

202 100

101 77.0 8.2 12.2#

203 20.3 14.2 21.4



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

20.83

3000

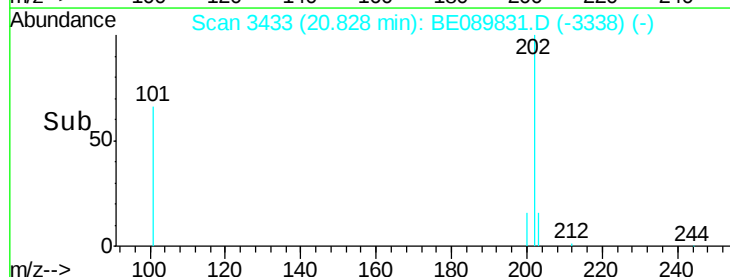
2000

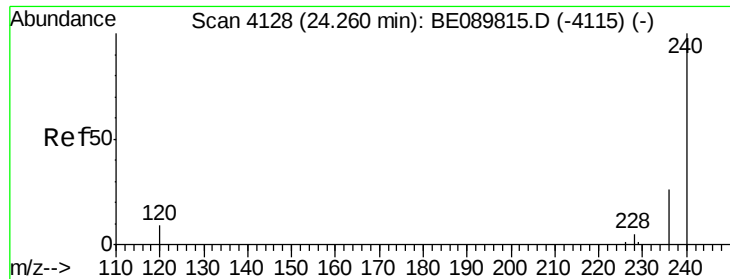
1000

0

20.80 20.83 20.90

Time-->





#19

Chrysene-d12

Concen: 5.00 ng

RT: 24.26 min Scan# 4129

Delta R.T. 0.00 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

Instrument :

BNA_E

ClientSampleId :

RW-9V

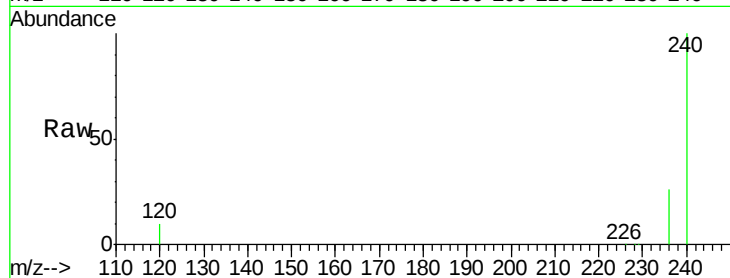
Tgt Ion:240 Resp: 670968

Ion Ratio Lower Upper

240 100

120 10.5 7.5 11.3

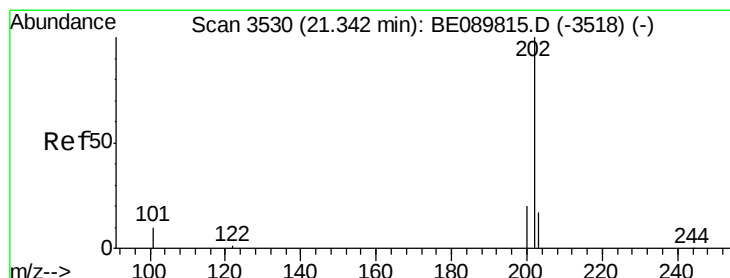
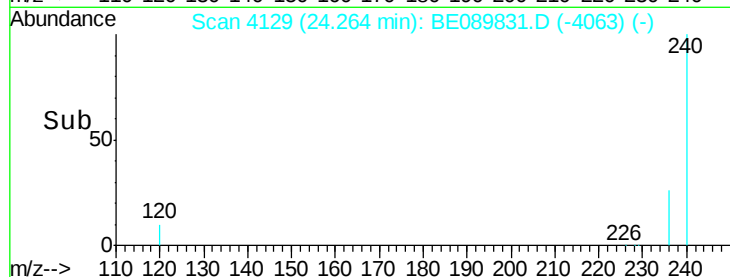
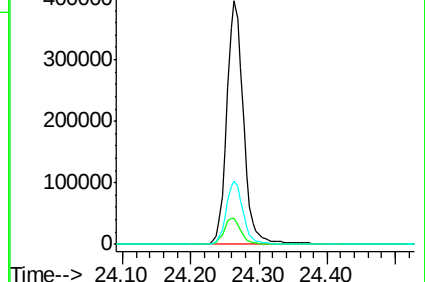
236 26.0 20.5 30.7



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: 0.01 ng

RT: 21.35 min Scan# 3531

Delta R.T. 0.00 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

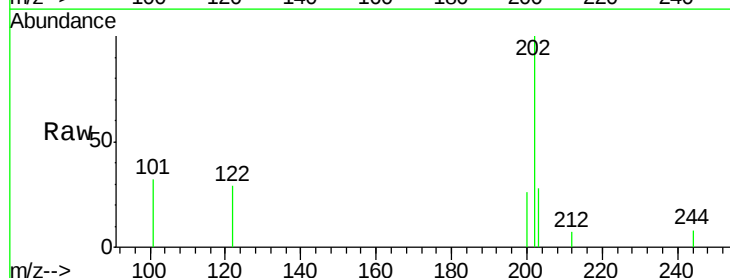
Tgt Ion:202 Resp: 2295

Ion Ratio Lower Upper

202 100

200 23.4 15.9 23.9

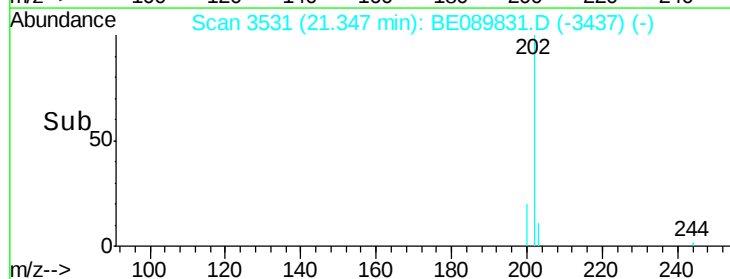
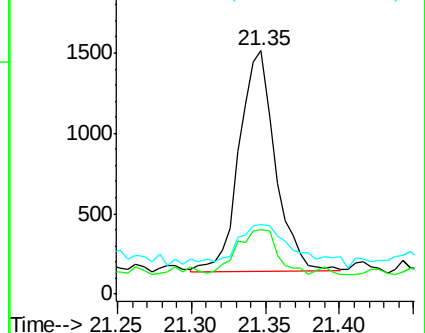
203 30.5 13.6 20.4#

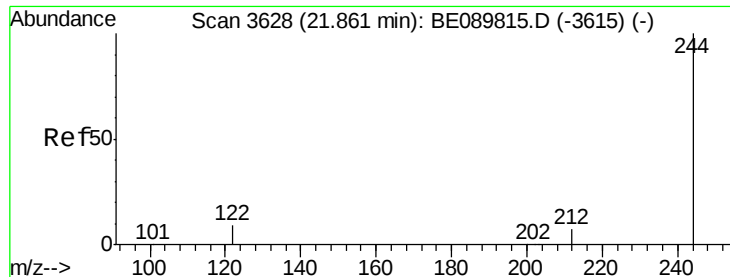


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 9.23 ng

RT: 21.87 min Scan# 3629

Delta R.T. 0.01 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

Instrument :

BNA_E

ClientSampleId :

RW-9V

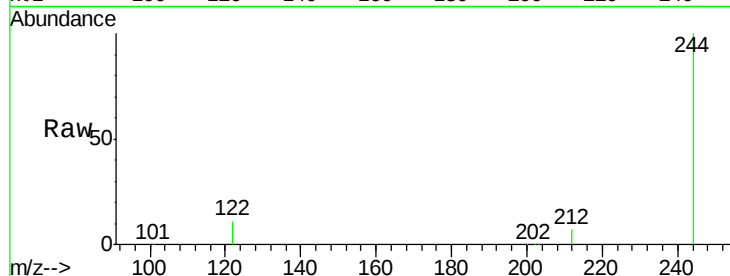
Tgt Ion:244 Resp: 913677

Ion Ratio Lower Upper

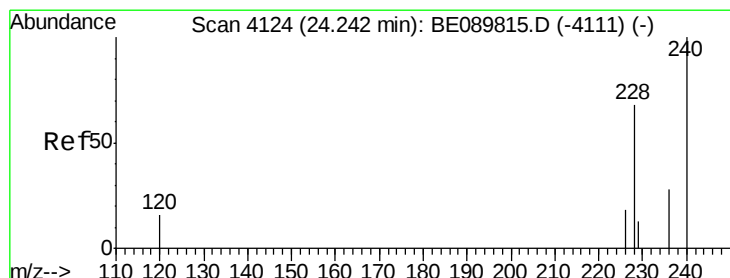
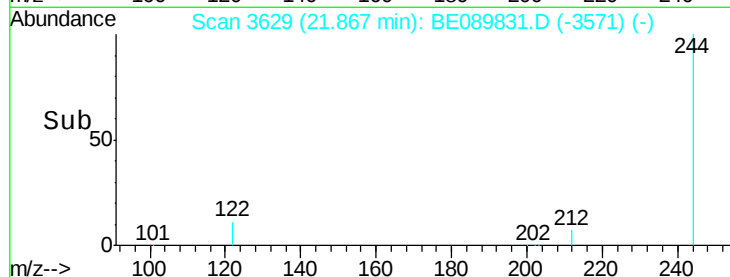
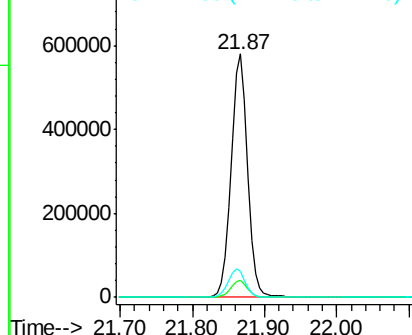
244 100

212 7.2 7.3 10.9#

122 10.8 10.5 15.7



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: 0.02 ng

RT: 24.26 min Scan# 4129

Delta R.T. 0.02 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

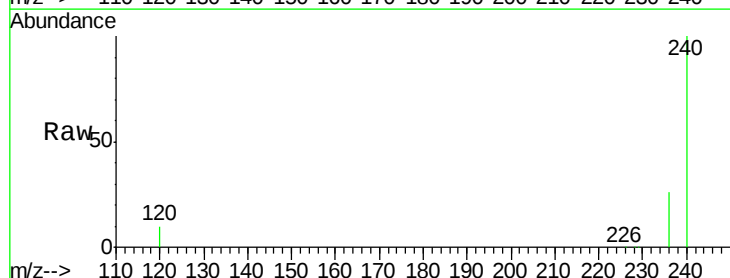
Tgt Ion:228 Resp: 2906

Ion Ratio Lower Upper

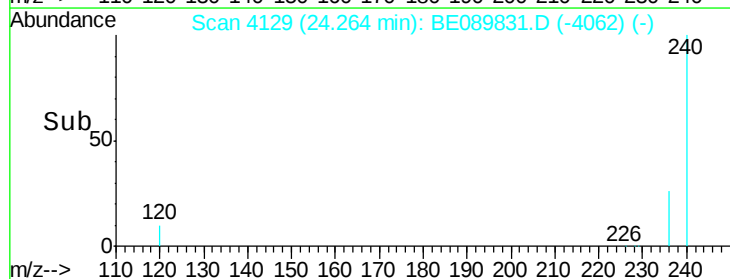
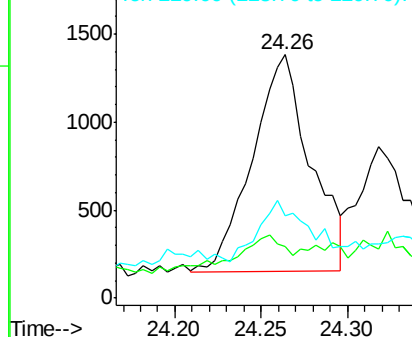
228 100

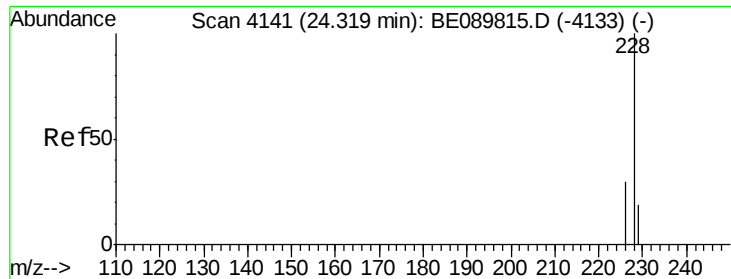
226 21.3 19.8 29.8

229 33.9 16.3 24.5#



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: 0.01 ng

RT: 24.32 min Scan# 4141

Delta R.T. 0.00 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

Instrument :

BNA_E

ClientSampleId :

RW-9V

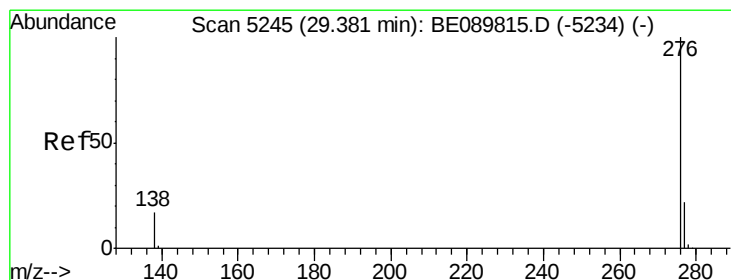
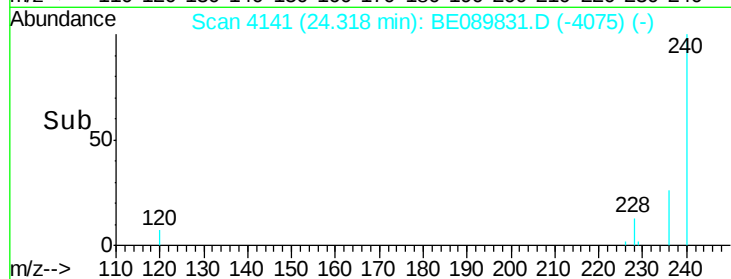
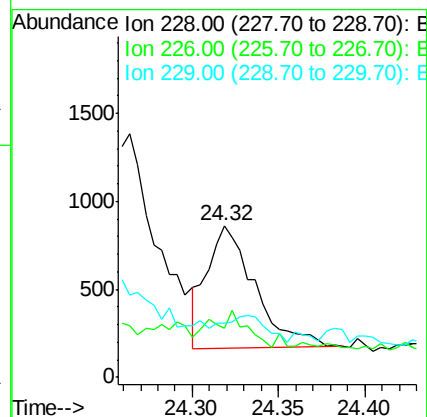
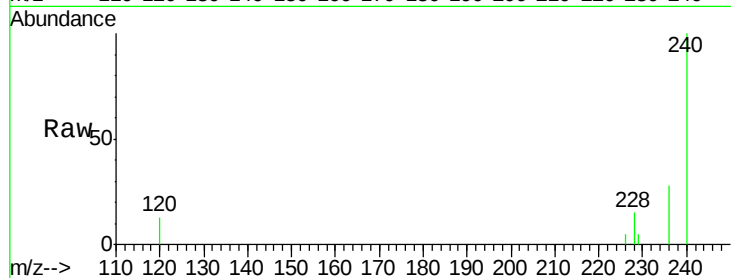
Tgt Ion:228 Resp: 1336

Ion Ratio Lower Upper

228 100

226 32.2 23.0 34.4

229 35.8 15.8 23.6#



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.43 ng

RT: 29.40 min Scan# 5248

Delta R.T. 0.01 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

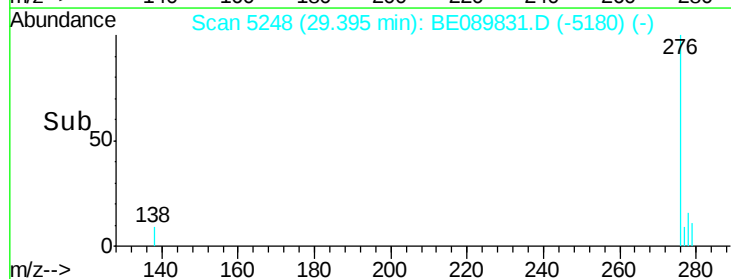
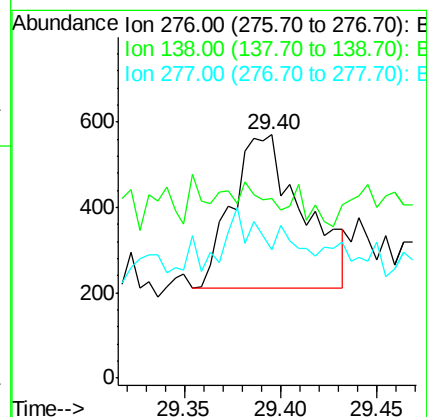
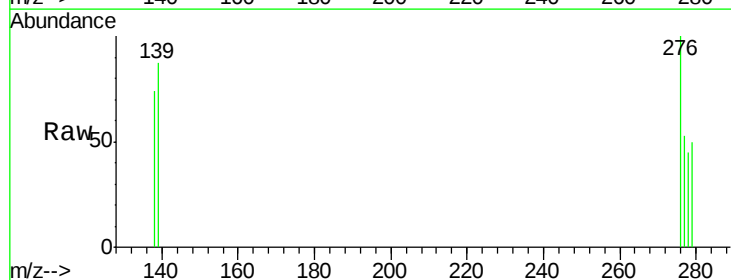
Tgt Ion:276 Resp: 913

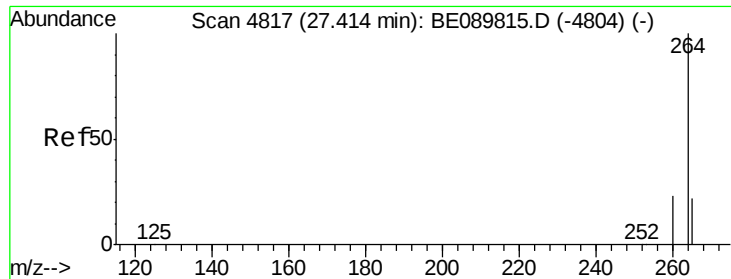
Ion Ratio Lower Upper

276 100

138 0.0 4.3 6.5#

277 12.7 9.0 13.4

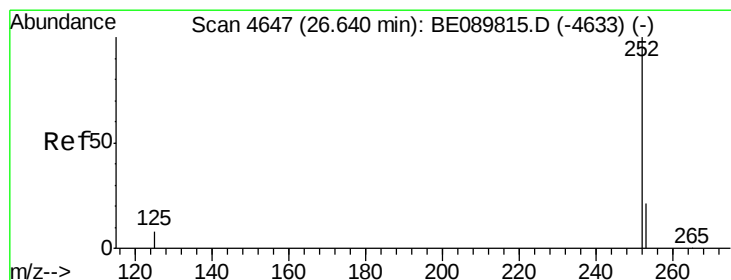
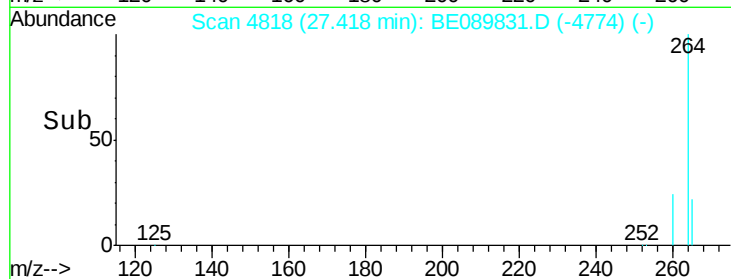
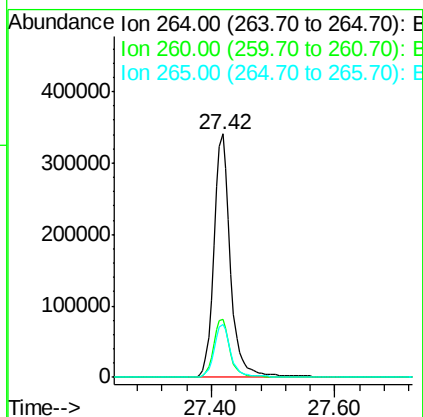
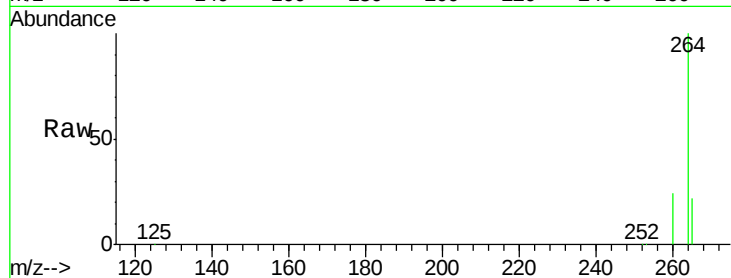




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 27.42 min Scan# 4818
 Delta R.T. 0.00 min
 Lab File: BE089831.D
 Acq: 25 Mar 2015 4:15

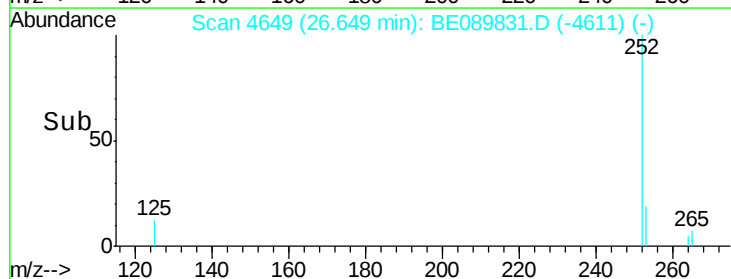
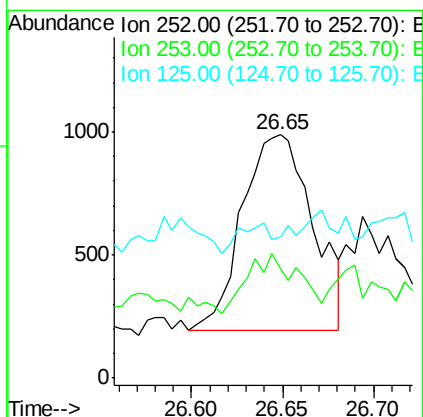
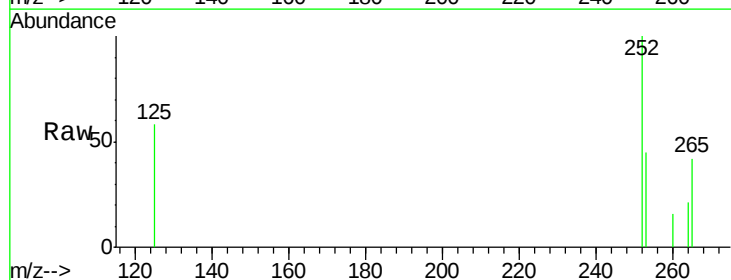
Instrument :
 BNA_E
 ClientSampleId :
 RW-9V

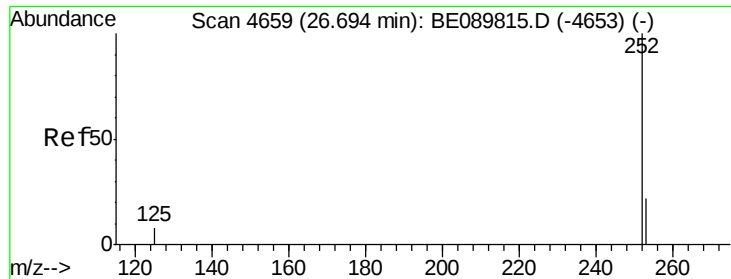
Tgt Ion: 264 Resp: 629295
 Ion Ratio Lower Upper
 264 100
 260 23.8 18.2 27.2
 265 21.7 17.3 25.9



#26
 Benzo(b)fluoranthene
 Concen: 0.33 ng
 RT: 26.65 min Scan# 4649
 Delta R.T. 0.01 min
 Lab File: BE089831.D
 Acq: 25 Mar 2015 4:15

Tgt Ion: 252 Resp: 2143
 Ion Ratio Lower Upper
 252 100
 253 44.6 17.8 26.6#
 125 57.9 8.7 13.1#





#27

Benzo(k)fluoranthene

Concen: 0.01 ng

RT: 26.69 min Scan# 4659

Delta R.T. -0.01 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

Instrument :

BNA_E

ClientSampleId :

RW-9V

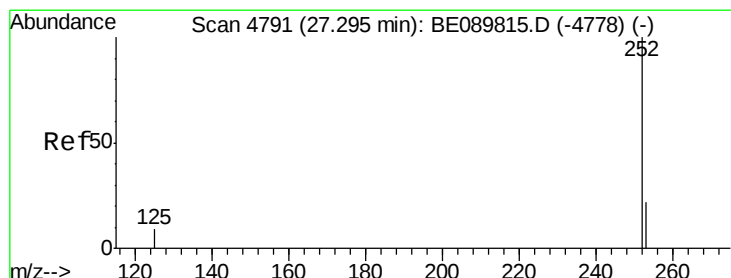
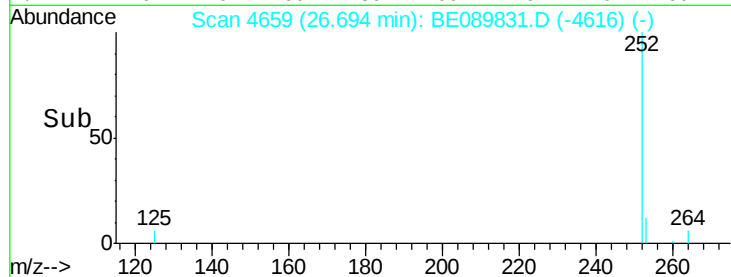
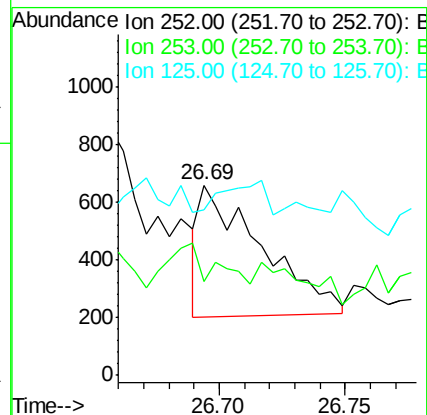
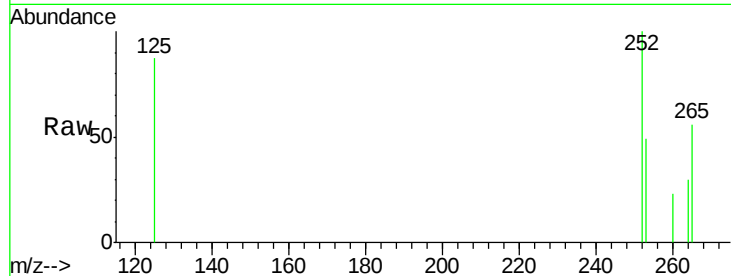
Tgt Ion:252 Resp: 767

Ion Ratio Lower Upper

252 100

253 49.5 18.6 28.0#

125 86.8 10.8 16.2#



#28

Benzo(a)pyrene

Concen: 0.30 ng

RT: 27.30 min Scan# 4792

Delta R.T. -0.00 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

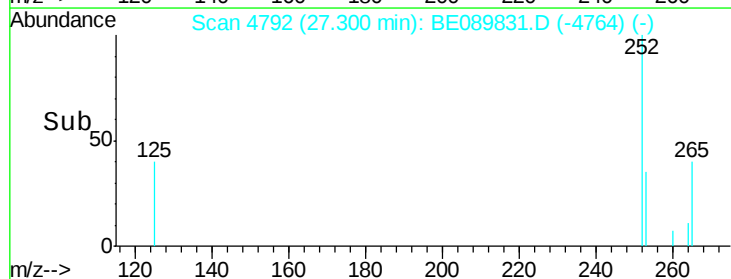
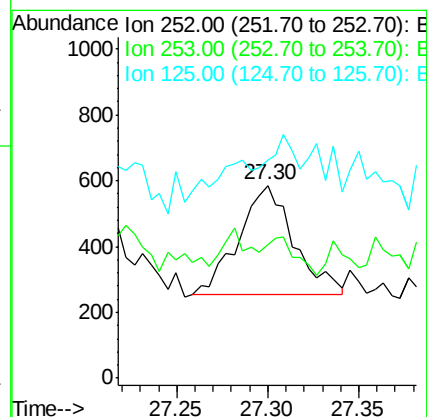
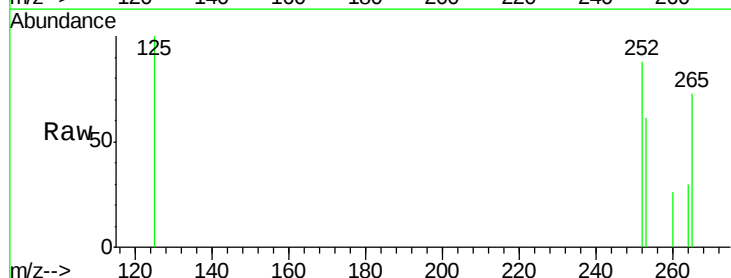
Tgt Ion:252 Resp: 697

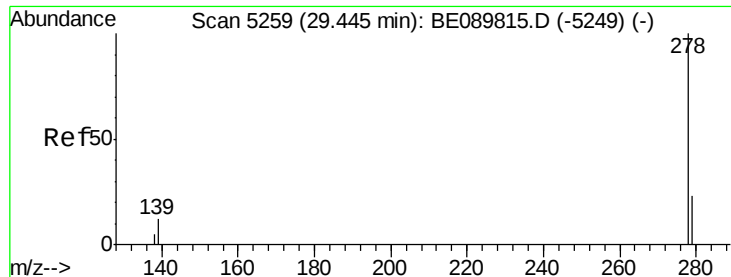
Ion Ratio Lower Upper

252 100

253 69.3 21.0 31.4#

125 113.1 13.3 19.9#





#29

Dibenzo(a,h)anthracene

Concen: 0.26 ng

RT: 29.44 min Scan# 5257

Delta R.T. -0.01 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

Instrument :

BNA_E

ClientSampleId :

RW-9V

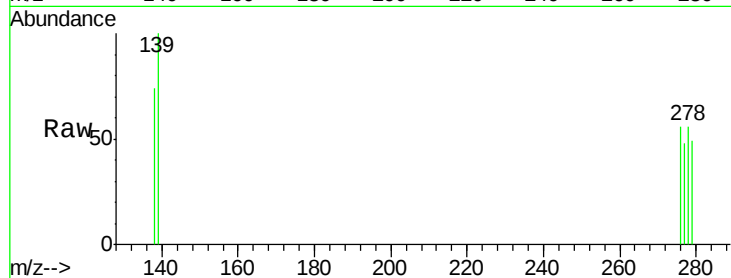
Tgt Ion: 278 Resp: 71

Ion Ratio Lower Upper

278 100

139 179.7 20.0 30.0#

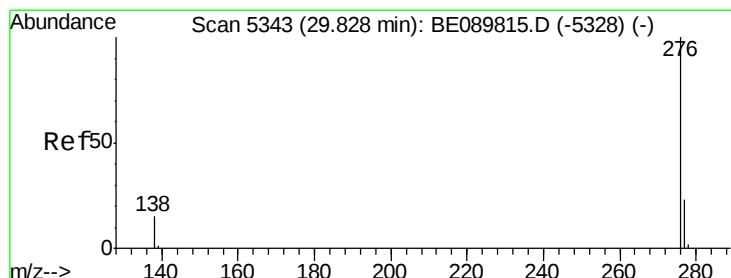
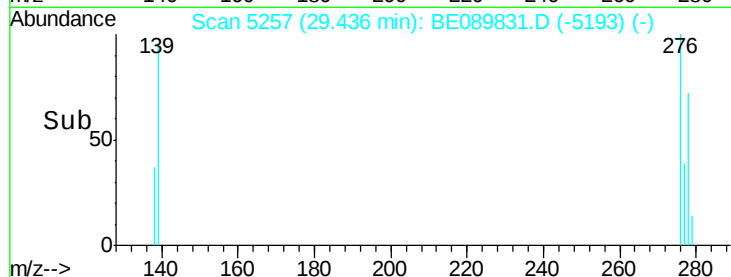
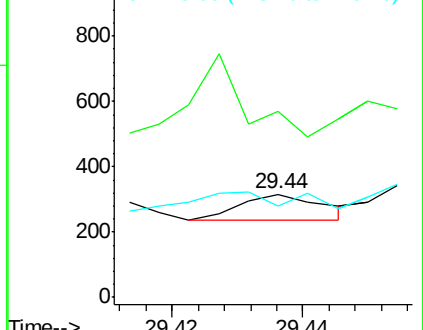
279 88.6 28.9 43.3#



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: 0.26 ng

RT: 29.83 min Scan# 5344

Delta R.T. 0.01 min

Lab File: BE089831.D

Acq: 25 Mar 2015 4:15

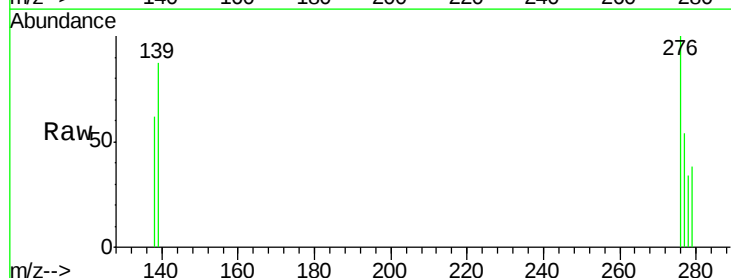
Tgt Ion: 276 Resp: 1224

Ion Ratio Lower Upper

276 100

277 54.1 19.2 28.8#

138 62.3 22.9 34.3#



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

