

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089820.D
 Acq On : 24 Mar 2015 18:54
 Operator : TP/JJ
 Sample : PB82216BS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB82216BS

Quant Time: Mar 25 02:29:29 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE032415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 24 18:03:12 2015
 Response via : Initial Calibration

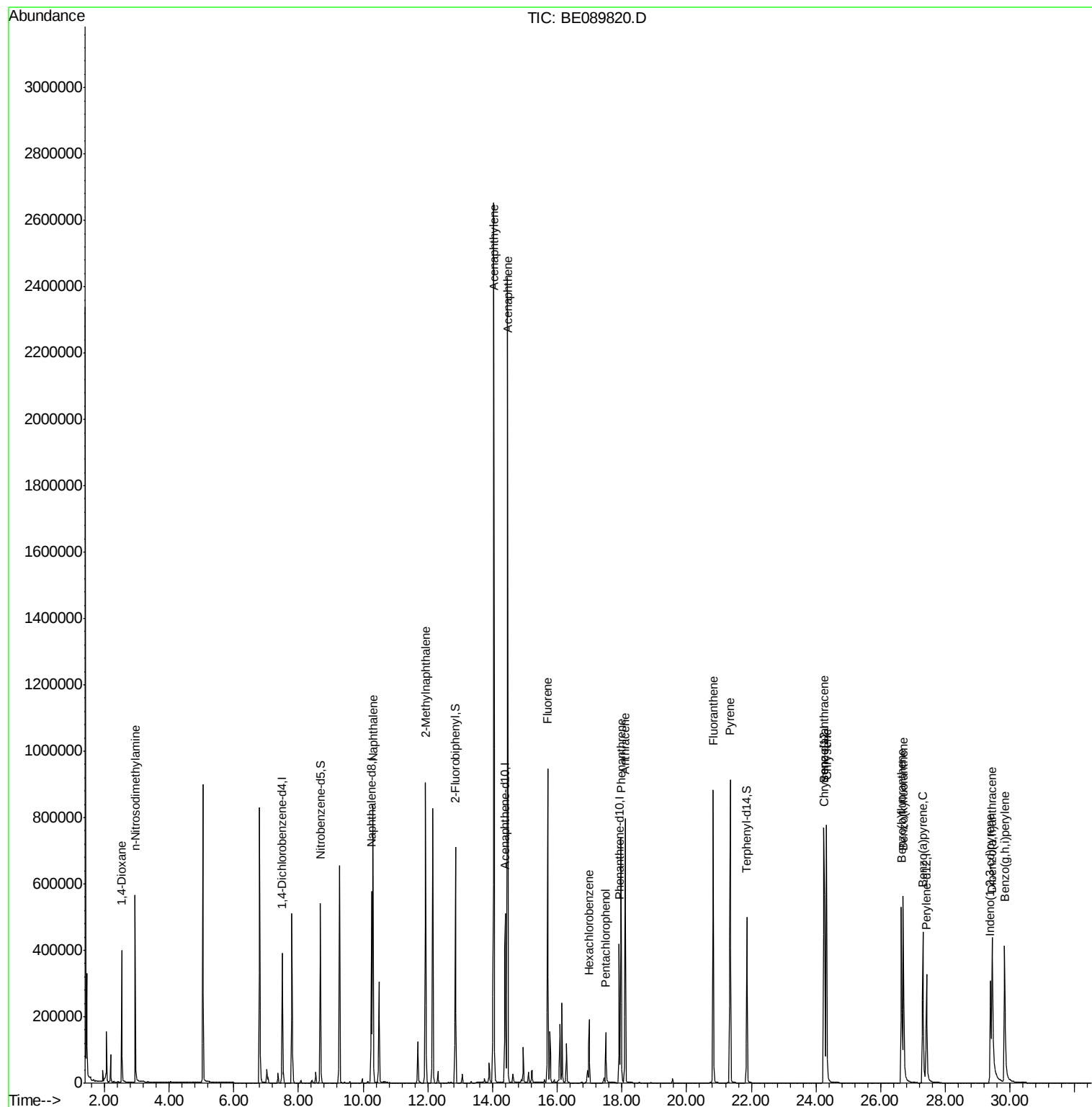
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	171235	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	717362	5.00	ng	0.00
8) Acenaphthene-d10	14.40	164	322643	5.00	ng	0.01
13) Phenanthrene-d10	17.92	188	551269	5.00	ng	0.00
19) Chrysene-d12	24.26	240	529463	5.00	ng	0.00
25) Perylene-d12	27.41	264	443133	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.68	82	446050	8.52	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	678104	8.98	ng	0.00
21) Terphenyl-d14	21.86	244	664454	8.51	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.54	88	167289	7.61	ng	# 89
3) n-Nitrosodimethylamine	2.94	42	258079	7.92	ng	# 77
6) Naphthalene	10.31	128	1017349	7.17	ng	96
7) 2-Methylnaphthalene	11.93	142	617618	7.84	ng	99
10) Acenaphthylene	14.04	152	3601434	7.80	ng	99
11) Acenaphthene	14.47	154	520451	7.36	ng	85
12) Fluorene	15.71	166	660778	7.71	ng	94
14) Hexachlorobenzene	16.99	284	138809	7.58	ng	95
15) Pentachlorophenol	17.50	266	110031	12.89	ng	99
16) Phenanthrene	17.97	178	913641	7.54	ng	100
17) Anthracene	18.10	178	927340	8.56	ng	99
18) Fluoranthene	20.82	202	961936	8.80	ng	99
20) Pyrene	21.35	202	1014465	7.55	ng	97
22) Benzo(a)anthracene	24.24	228	853061	8.61	ng	97
23) Chrysene	24.32	228	903599	8.36	ng	99
24) Indeno(1,2,3-cd)pyrene	29.39	276	430913	4.16	ng	# 68
26) Benzo(b)fluoranthene	26.64	252	717784	7.53	ng	98
27) Benzo(k)fluoranthene	26.70	252	925483	10.19	ng	# 94
28) Benzo(a)pyrene	27.30	252	708983	7.93	ng	# 89
29) Dibenzo(a,h)anthracene	29.45	278	598117	7.11	ng	# 79
30) Benzo(g,h,i)perylene	29.83	276	714575	7.65	ng	# 89

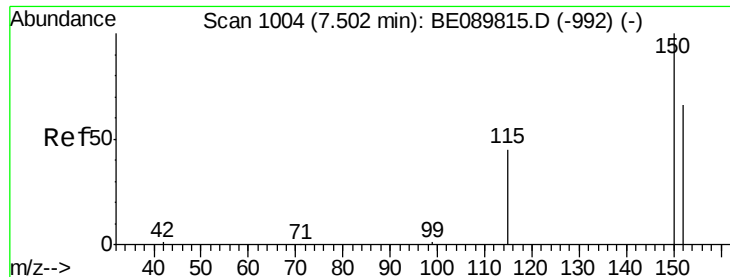
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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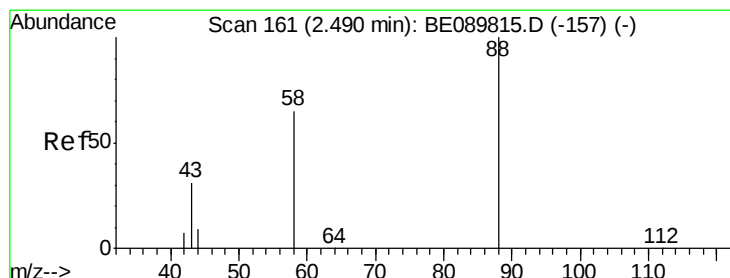
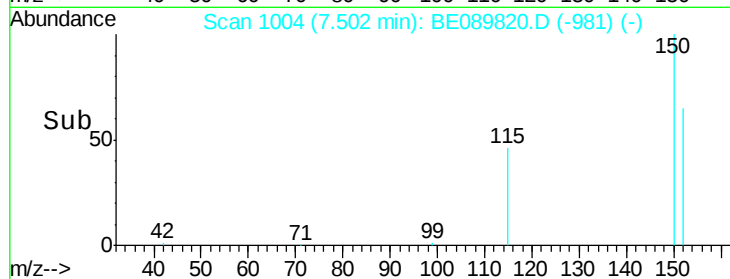
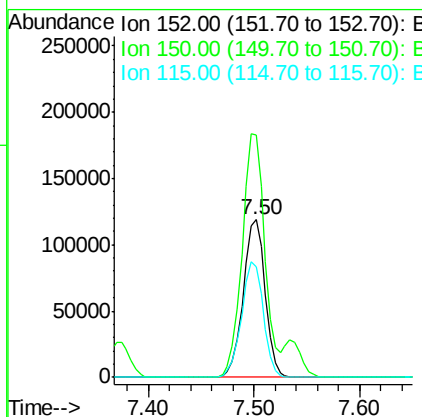
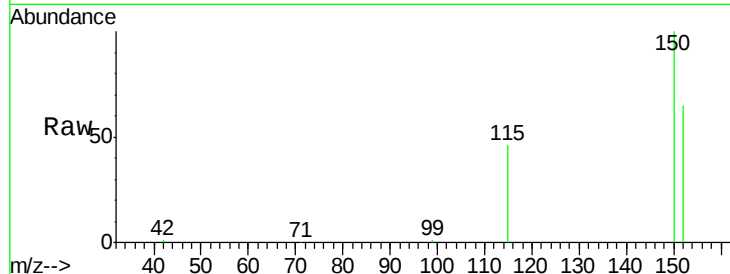




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 7.50 min Scan# 1004
 Delta R.T. 0.00 min
 Lab File: BE089820.D
 Acq: 24 Mar 2015 18:54

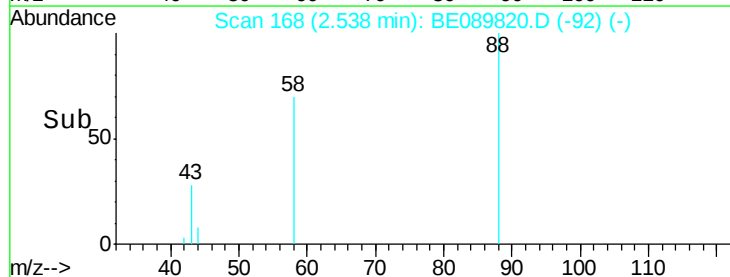
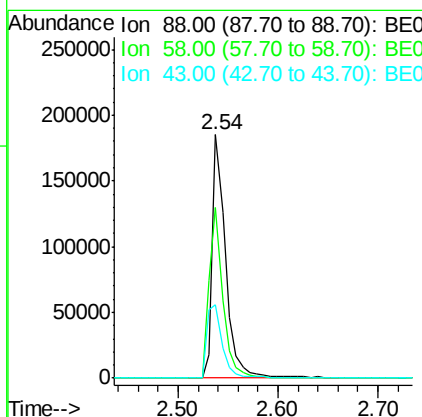
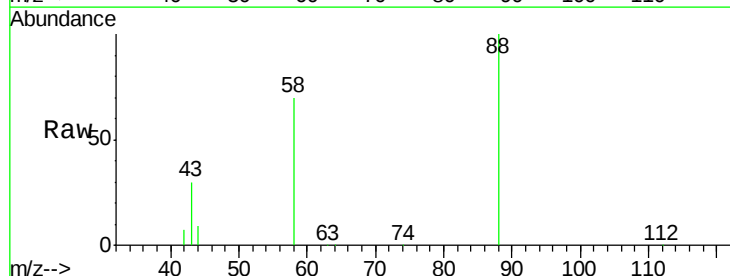
Instrument :
 BNA_E
 ClientSampleId :
 PB82216BS

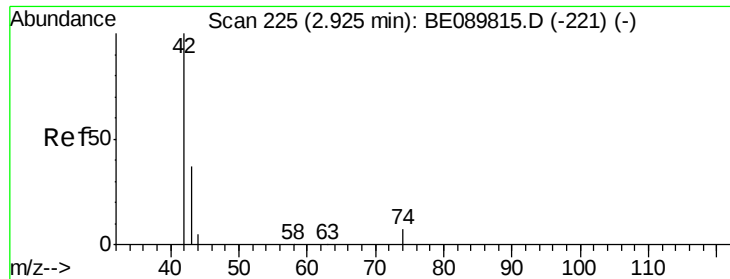
Tgt Ion: 152 Resp: 171235
 Ion Ratio Lower Upper
 152 100
 150 154.0 125.5 188.3
 115 70.3 58.0 87.0



#2
 1,4-Dioxane
 Concen: 7.61 ng
 RT: 2.54 min Scan# 168
 Delta R.T. 0.01 min
 Lab File: BE089820.D
 Acq: 24 Mar 2015 18:54

Tgt Ion: 88 Resp: 167289
 Ion Ratio Lower Upper
 88 100
 58 73.8 48.6 72.8#
 43 35.4 28.6 43.0





#3

n-Nitrosodimethylamine

Concen: 7.92 ng

RT: 2.94 min Scan# 228

Delta R.T. -0.05 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB82216BS

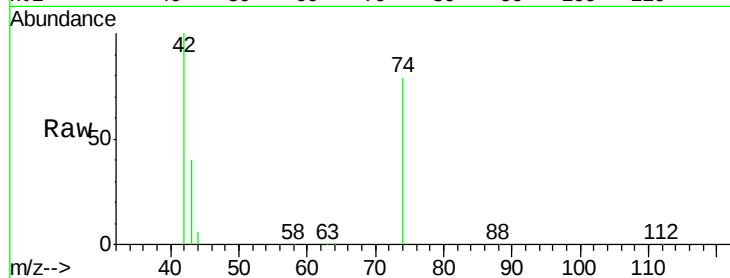
Tgt Ion: 42 Resp: 258079

Ion Ratio Lower Upper

42 100

74 108.0 68.7 103.1#

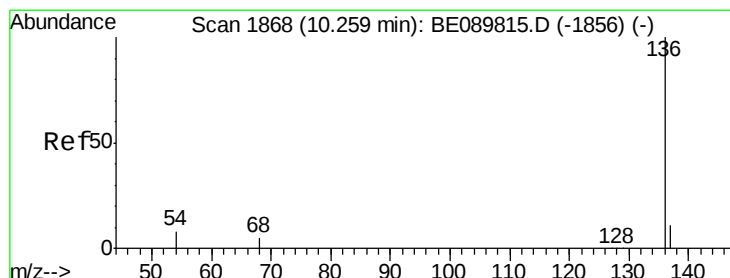
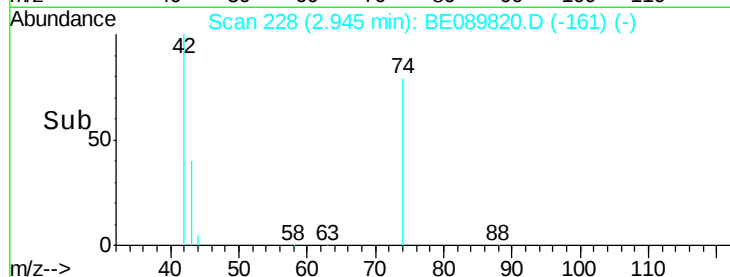
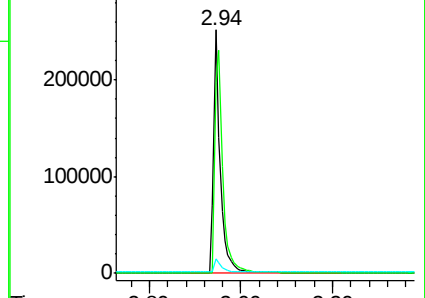
44 5.7 6.2 9.4#



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# 1868

Delta R.T. 0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

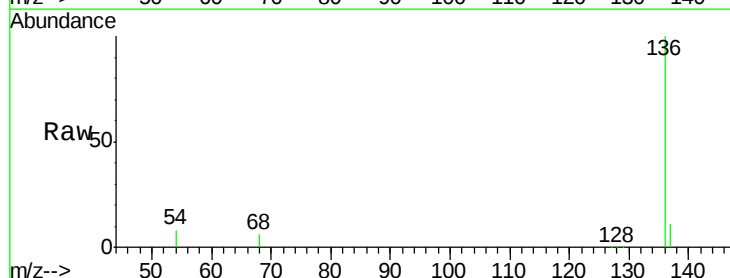
Tgt Ion: 136 Resp: 717362

Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

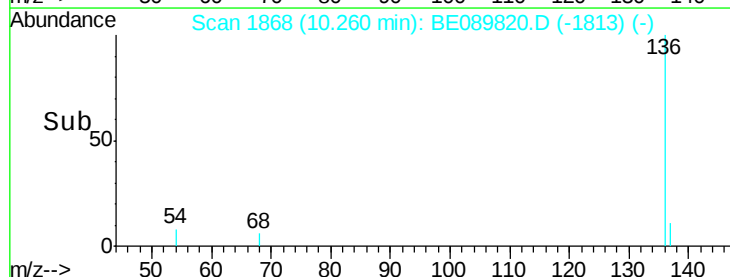
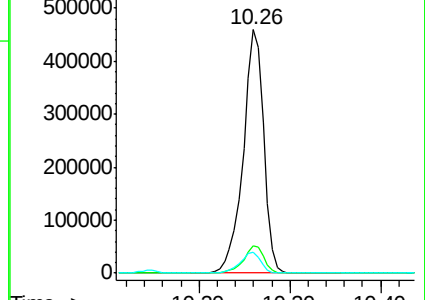
54 8.5 7.0 10.4

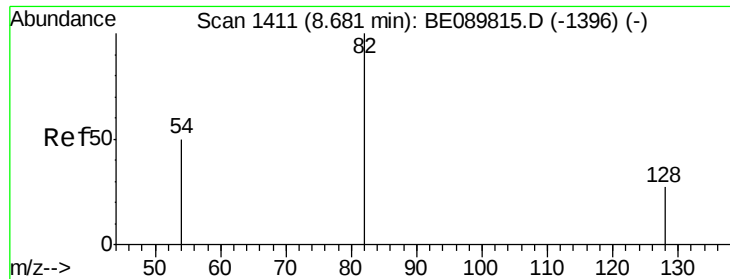


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 8.52 ng

RT: 8.68 min Scan# 1411

Delta R.T. -0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB82216BS

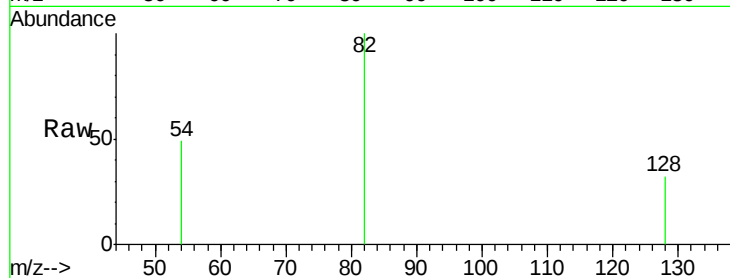
Tgt Ion: 82 Resp: 446050

Ion Ratio Lower Upper

82 100

128 31.5 24.6 37.0

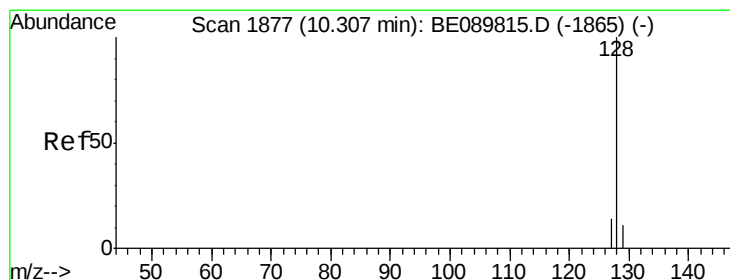
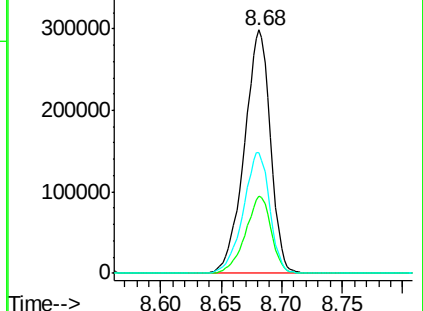
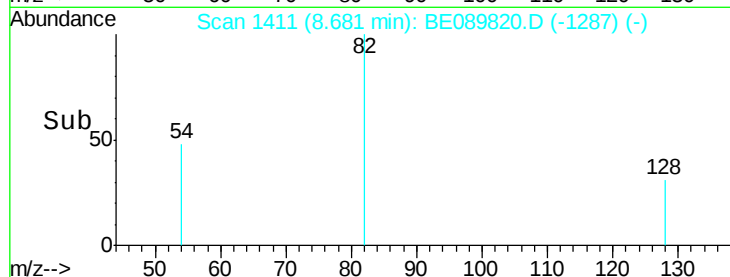
54 49.4 43.0 64.6



Abundance Ion 82.00 (81.70 to 82.70): BE089820.D (-1287) (-)

Ion 128.00 (127.70 to 128.70): BE089820.D (-1287) (-)

Ion 54.00 (53.70 to 54.70): BE089820.D (-1287) (-)



#6

Naphthalene

Concen: 7.17 ng

RT: 10.31 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

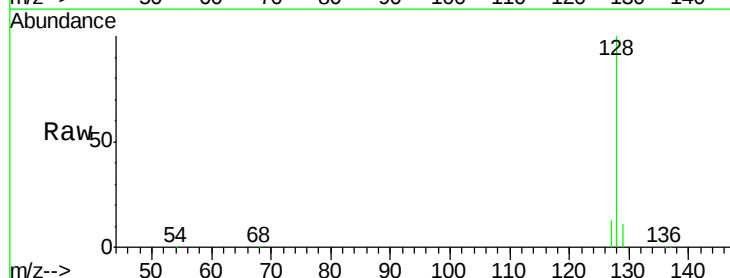
Tgt Ion: 128 Resp: 1017349

Ion Ratio Lower Upper

128 100

129 11.2 10.0 15.0

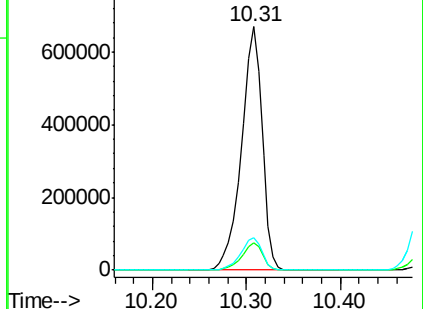
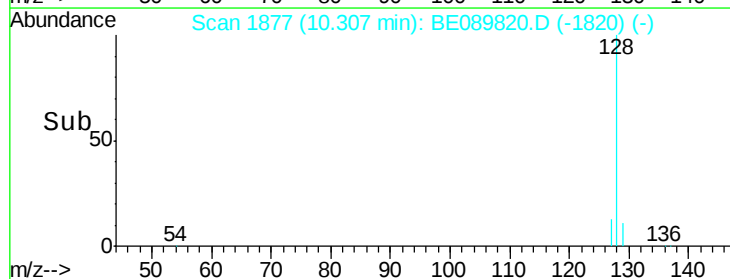
127 13.5 12.5 18.7

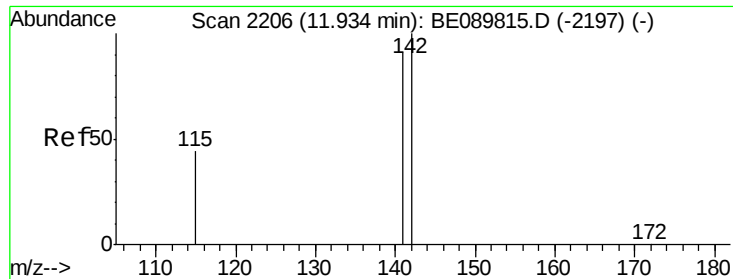


Abundance Ion 128.00 (127.70 to 128.70): BE089820.D (-1820) (-)

Ion 129.00 (128.70 to 129.70): BE089820.D (-1820) (-)

Ion 127.00 (126.70 to 127.70): BE089820.D (-1820) (-)





#7

2-Methylnaphthalene

Concen: 7.84 ng

RT: 11.93 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB82216BS

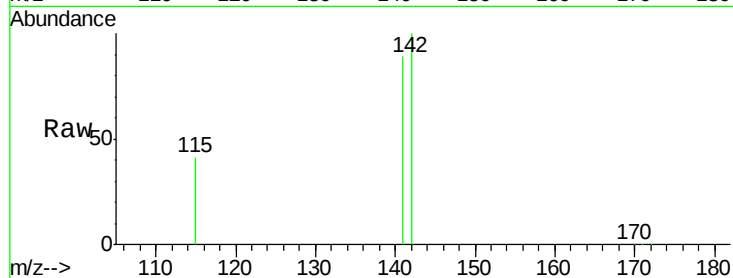
Tgt Ion:142 Resp: 617618

Ion Ratio Lower Upper

142 100

141 89.5 72.8 109.2

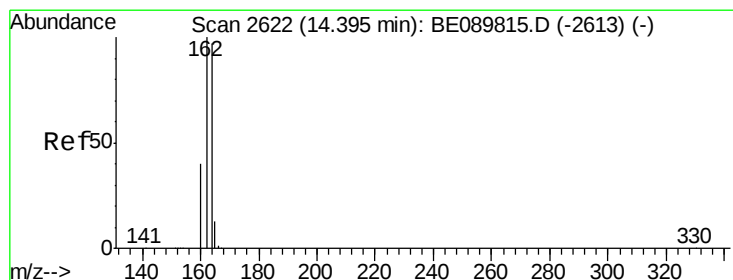
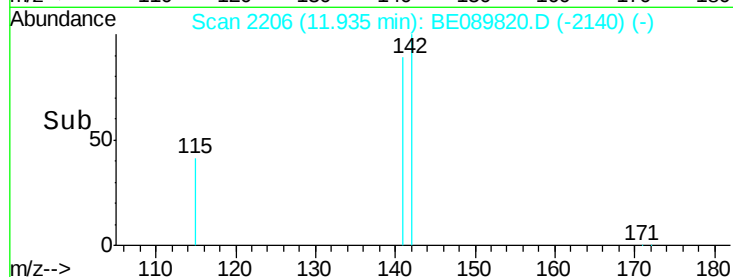
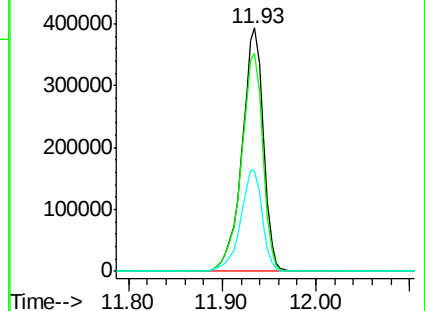
115 41.0 32.9 49.3



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: 14.40 min Scan# 2622

Delta R.T. 0.01 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

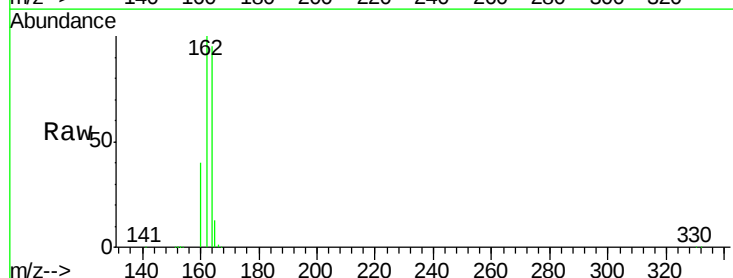
Tgt Ion:164 Resp: 322643

Ion Ratio Lower Upper

164 100

162 105.2 87.6 131.4

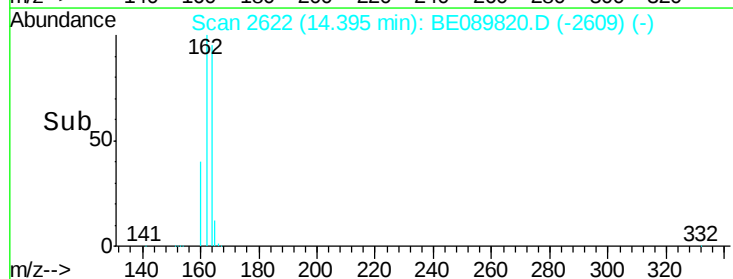
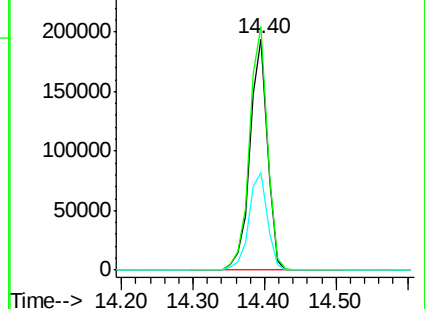
160 42.4 36.7 55.1

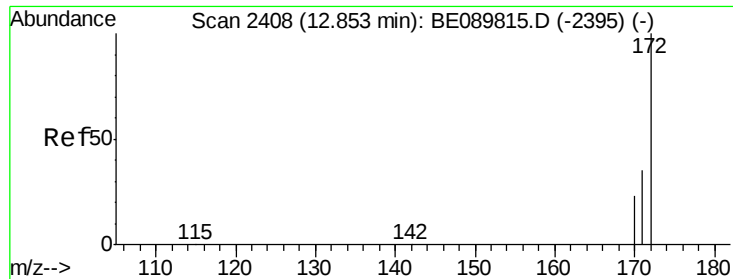


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 8.98 ng

RT: 12.85 min Scan# 2408

Delta R.T. 0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

Instrument :

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ClientSampleId :

PB82216BS

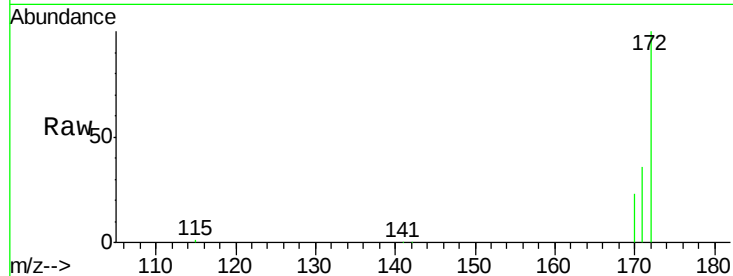
Tgt Ion:172 Resp: 678104

Ion Ratio Lower Upper

172 100

171 35.7 30.8 46.2

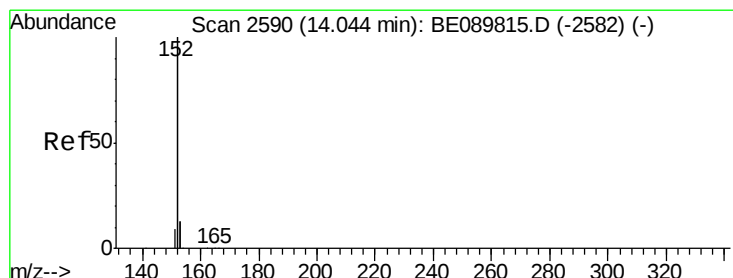
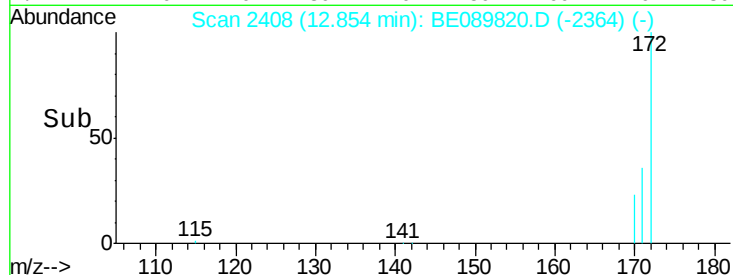
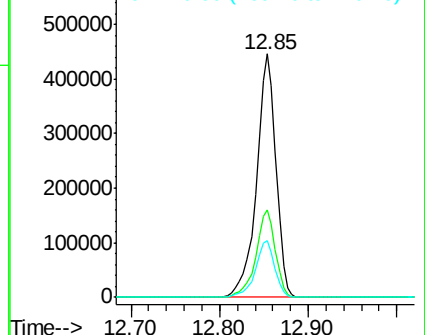
170 23.1 21.0 31.4



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: 7.80 ng

RT: 14.04 min Scan# 2590

Delta R.T. -0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

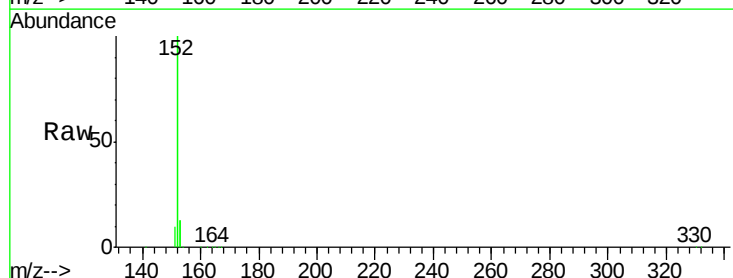
Tgt Ion:152 Resp: 3601434

Ion Ratio Lower Upper

152 100

151 5.1 3.9 5.9

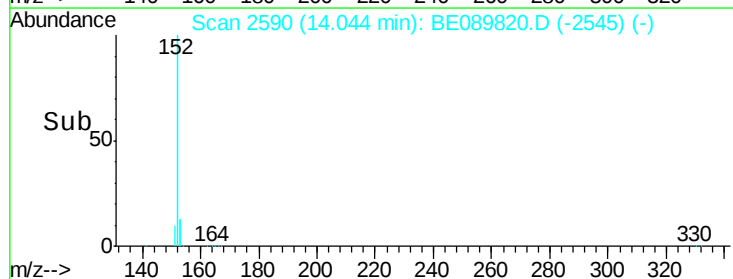
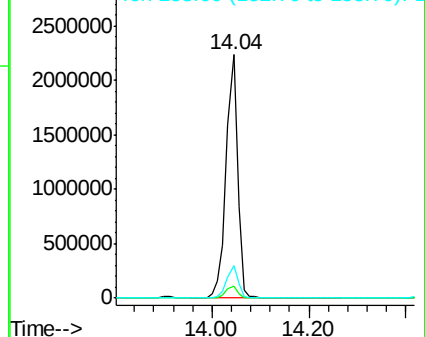
153 13.2 11.0 16.4

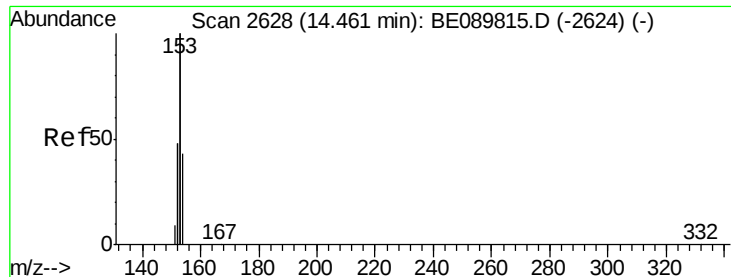


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 7.36 ng

RT: 14.47 min Scan# 2629

Delta R.T. 0.01 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

Instrument :

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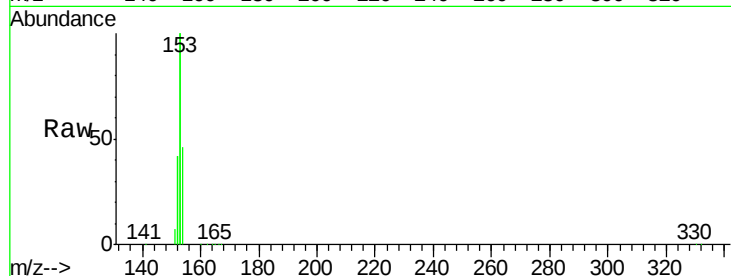
Tgt Ion:154 Resp: 520451

Ion Ratio Lower Upper

154 100

153 462.1 401.5 602.3

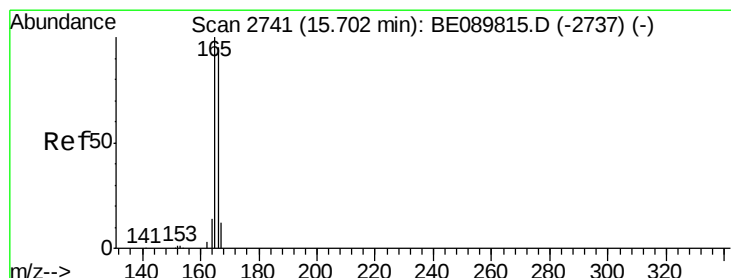
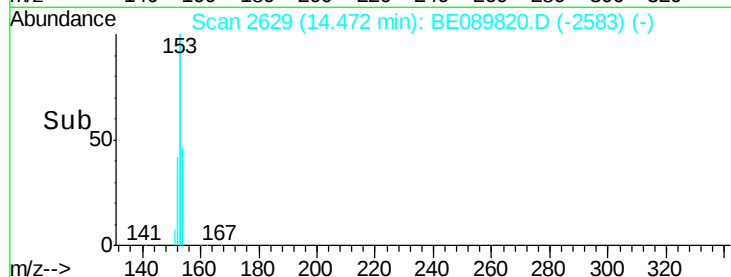
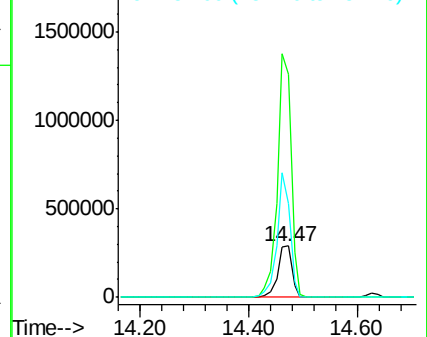
152 220.1 198.6 298.0



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: 7.71 ng

RT: 15.71 min Scan# 2742

Delta R.T. -0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

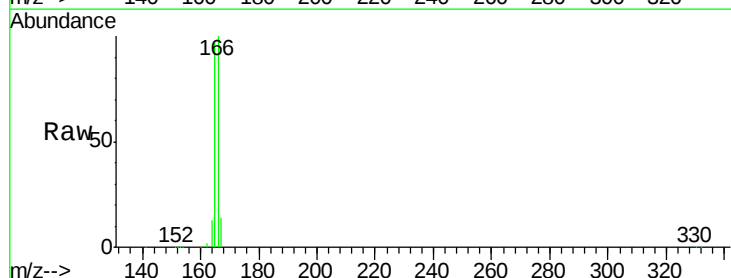
Tgt Ion:166 Resp: 660778

Ion Ratio Lower Upper

166 100

165 99.9 85.1 127.7

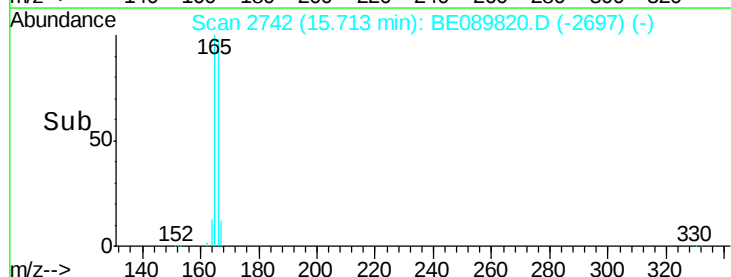
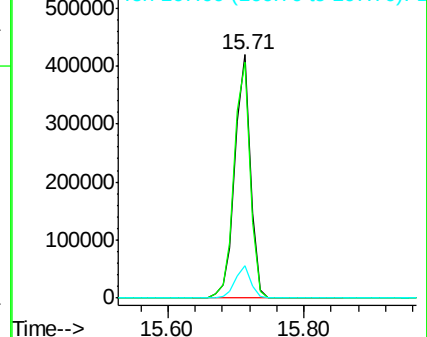
167 13.3 12.2 18.4

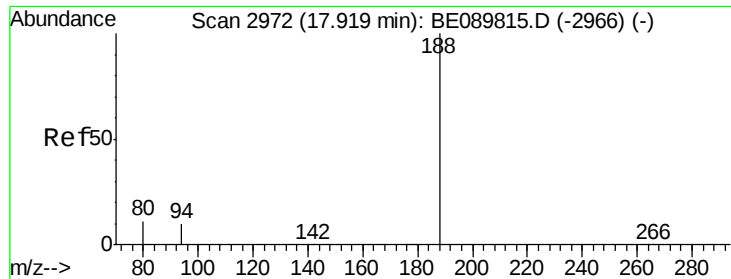


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

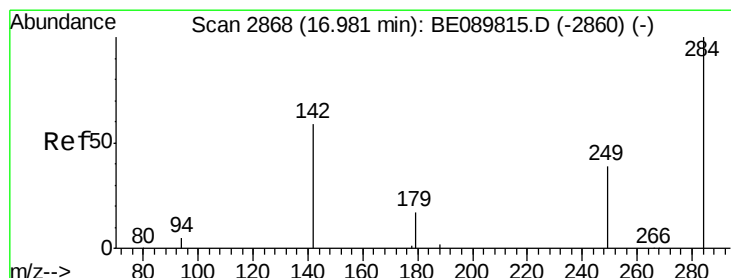
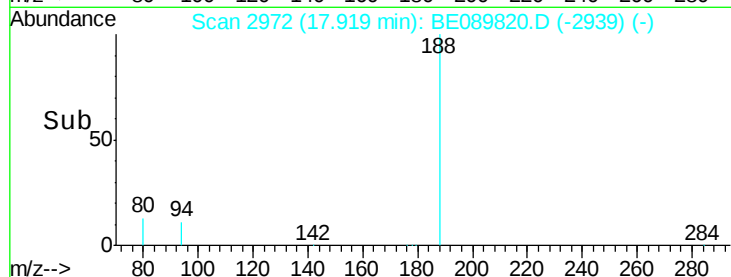
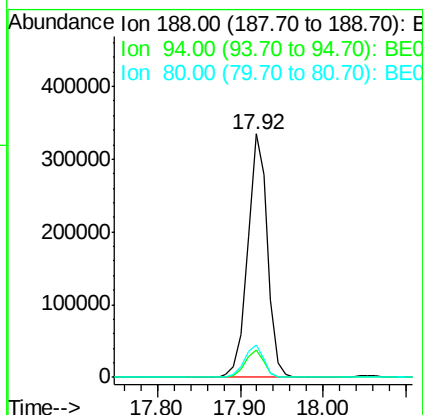
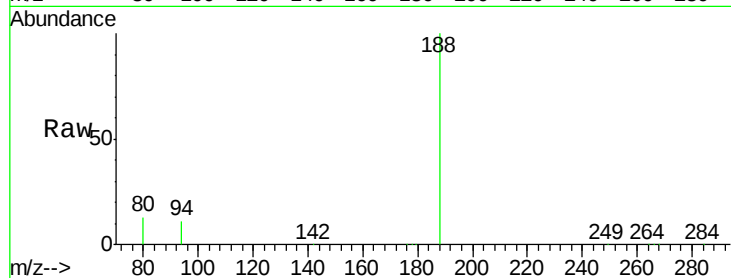




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.92 min Scan# 2972
Delta R.T. -0.00 min
Lab File: BE089820.D
Acq: 24 Mar 2015 18:54

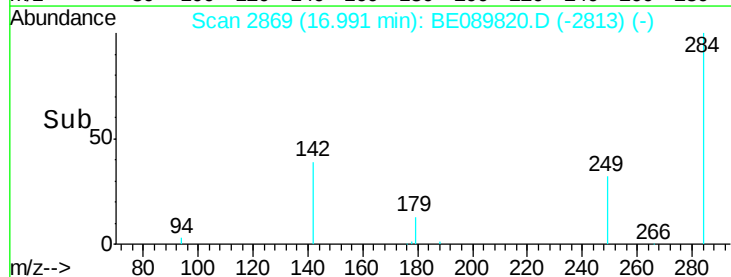
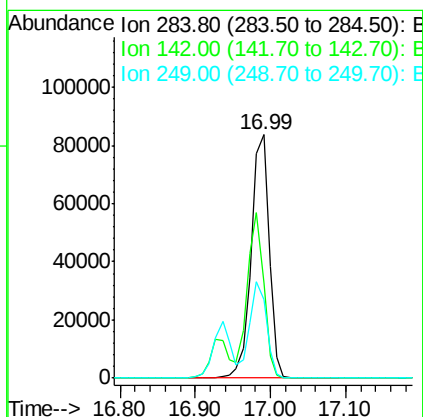
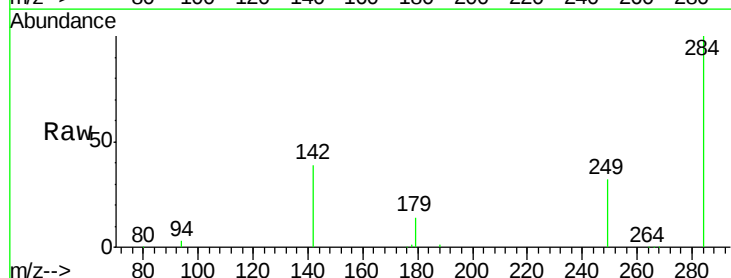
Instrument :
BNA_E
ClientSampleId :
PB82216BS

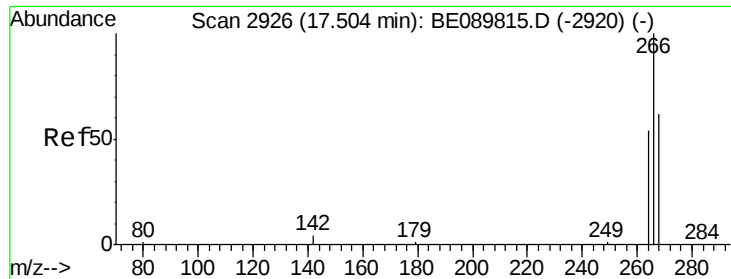
Tgt Ion:188 Resp: 551269
Ion Ratio Lower Upper
188 100
94 11.2 8.5 12.7
80 13.1 10.0 15.0



#14
Hexachlorobenzene
Concen: 7.58 ng
RT: 16.99 min Scan# 2869
Delta R.T. 0.01 min
Lab File: BE089820.D
Acq: 24 Mar 2015 18:54

Tgt Ion:284 Resp: 138809
Ion Ratio Lower Upper
284 100
142 61.2 53.3 79.9
249 37.6 31.1 46.7

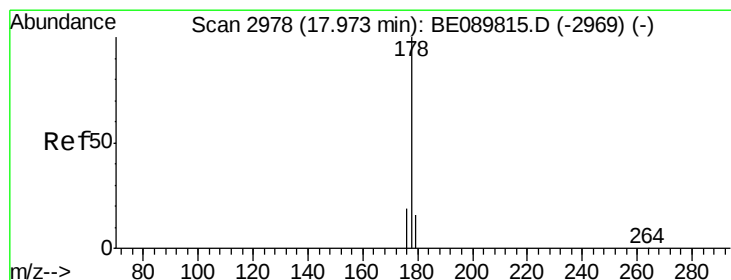
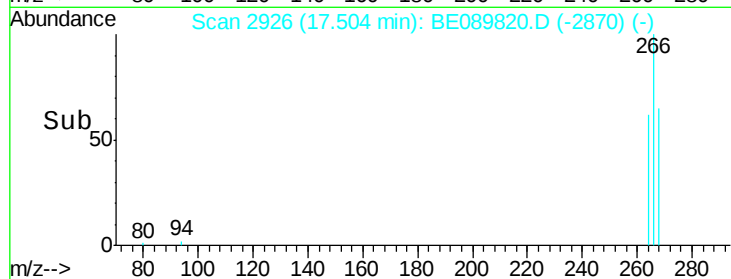
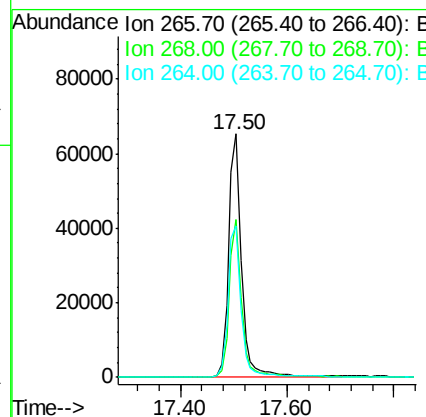
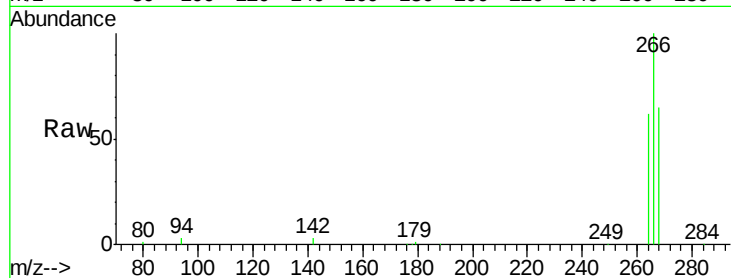




#15
 Pentachlorophenol
 Concen: 12.89 ng
 RT: 17.50 min Scan# 2926
 Delta R.T. 0.00 min
 Lab File: BE089820.D
 Acq: 24 Mar 2015 18:54

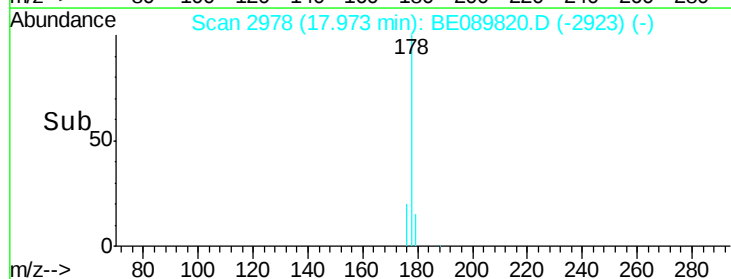
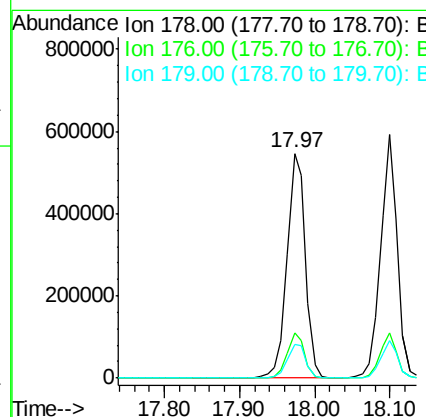
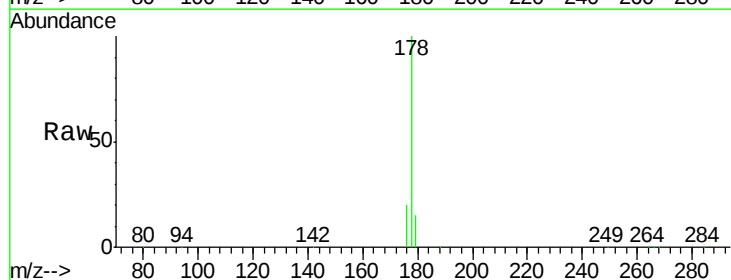
Instrument :
 BNA_E
 ClientSampleId :
 PB82216BS

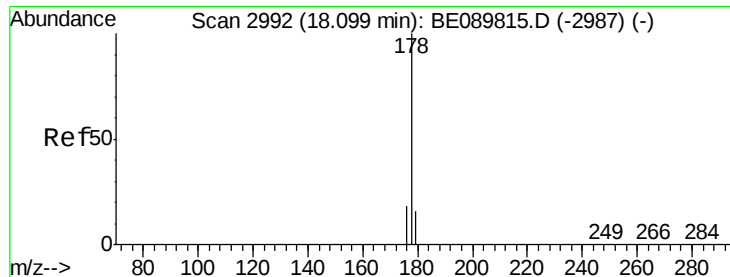
Tgt Ion:266 Resp: 110031
 Ion Ratio Lower Upper
 266 100
 268 64.8 51.6 77.4
 264 62.1 50.2 75.2



#16
 Phenanthrene
 Concen: 7.54 ng
 RT: 17.97 min Scan# 2978
 Delta R.T. -0.00 min
 Lab File: BE089820.D
 Acq: 24 Mar 2015 18:54

Tgt Ion:178 Resp: 913641
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.4 23.0
 179 15.4 12.2 18.4





#17

Anthracene

Concen: 8.56 ng

RT: 18.10 min Scan# 2992

Delta R.T. -0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB82216BS

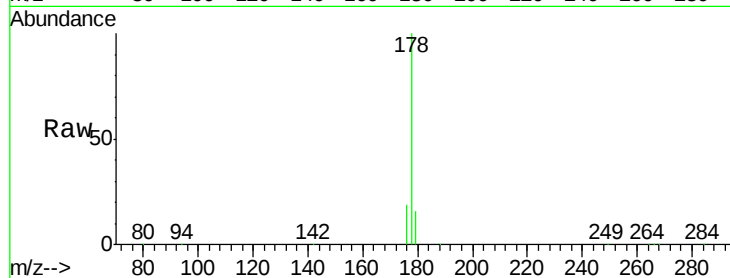
Tgt Ion:178 Resp: 927340

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

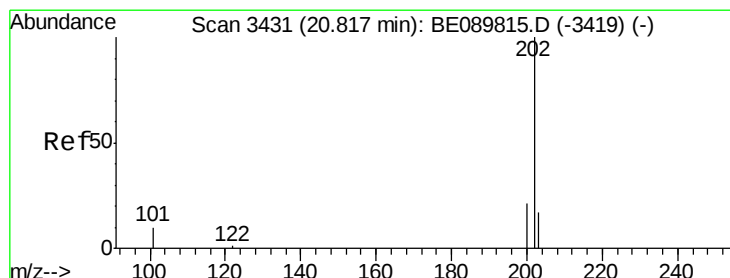
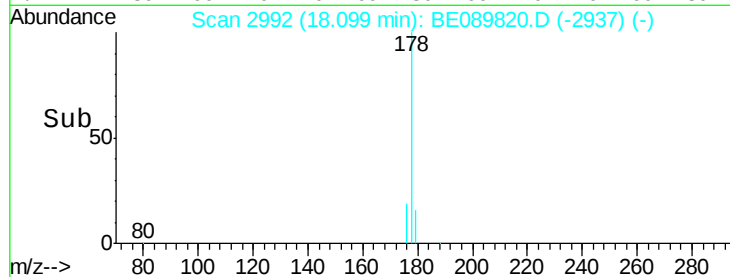
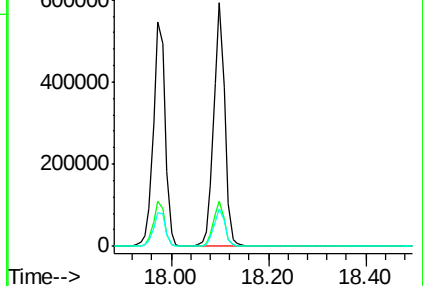
179 15.3 12.1 18.1



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

Fluoranthene

Concen: 8.80 ng

RT: 20.82 min Scan# 3432

Delta R.T. -0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

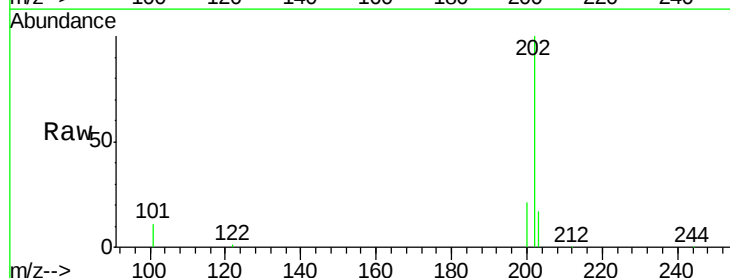
Tgt Ion:202 Resp: 961936

Ion Ratio Lower Upper

202 100

101 10.3 8.2 12.2

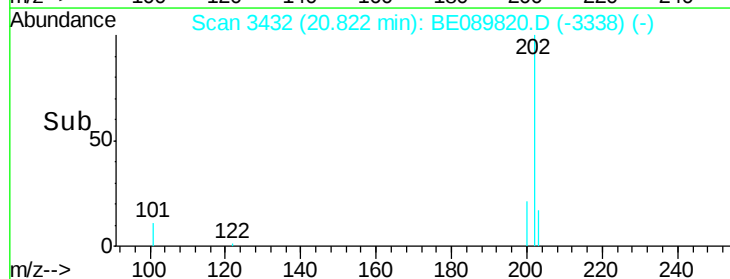
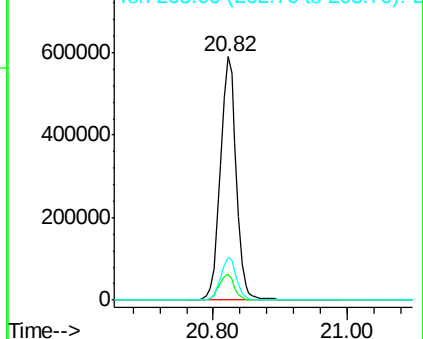
203 17.5 14.2 21.4

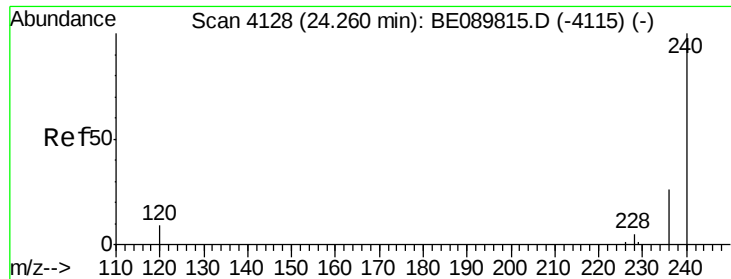


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 24.26 min Scan# 4129

Delta R.T. 0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB82216BS

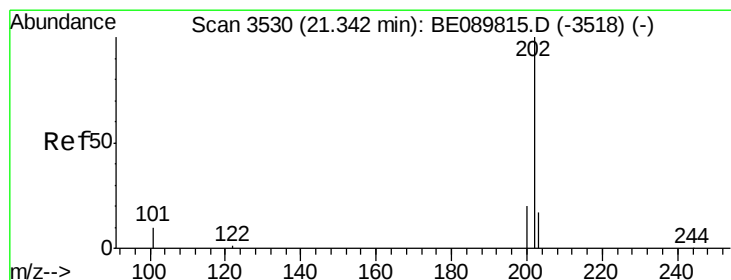
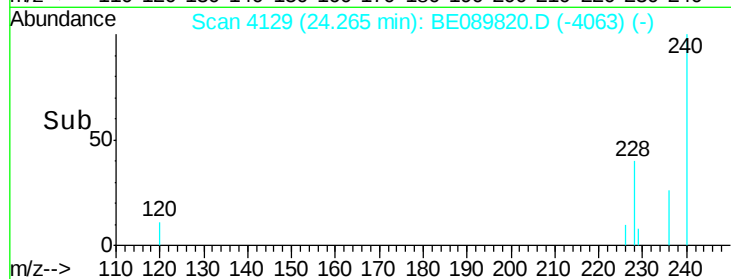
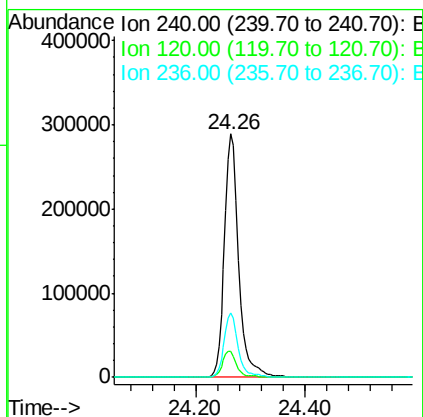
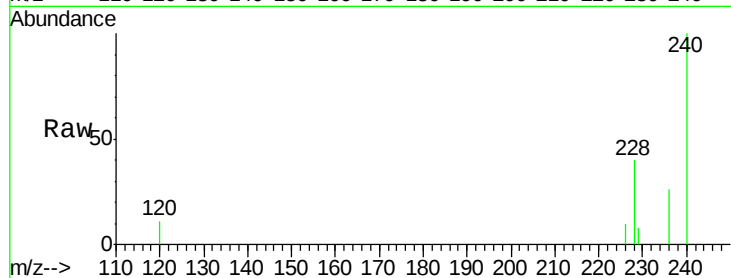
Tgt Ion:240 Resp: 529463

Ion Ratio Lower Upper

240 100

120 10.8 7.5 11.3

236 26.4 20.5 30.7



#20

Pyrene

Concen: 7.55 ng

RT: 21.35 min Scan# 3531

Delta R.T. -0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

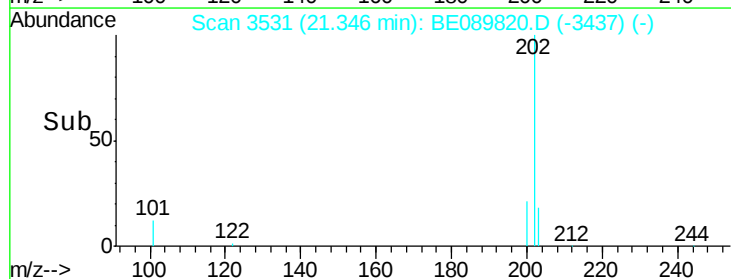
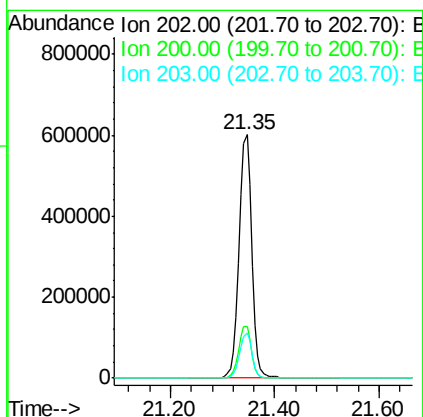
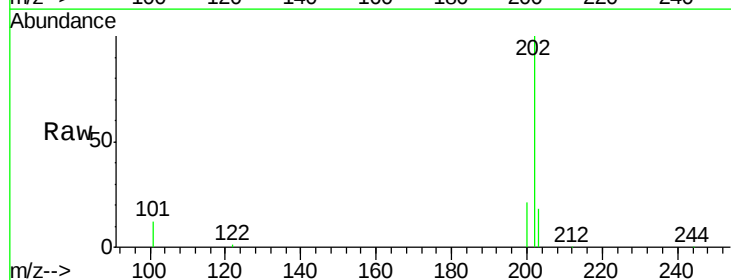
Tgt Ion:202 Resp: 1014465

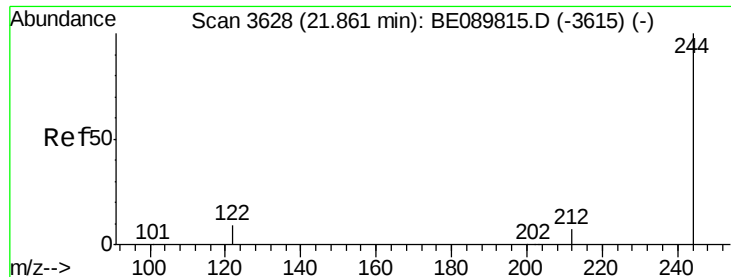
Ion Ratio Lower Upper

202 100

200 21.1 15.9 23.9

203 18.1 13.6 20.4





#21

Terphenyl-d14

Concen: 8.51 ng

RT: 21.86 min Scan# 3628

Delta R.T. -0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

Instrument :

BNA_E

ClientSampled :

PB82216BS

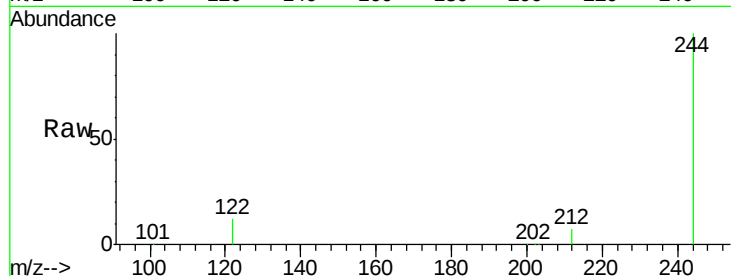
Tgt Ion:244 Resp: 664454

Ion Ratio Lower Upper

244 100

212 7.3 7.3 10.9

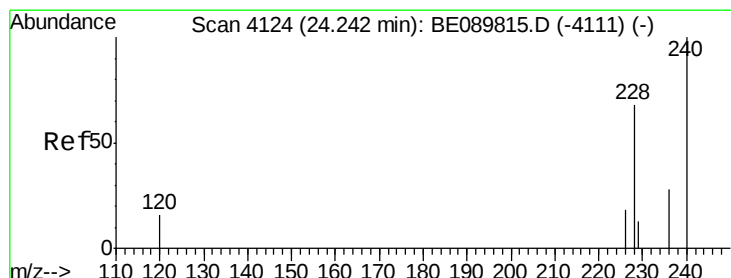
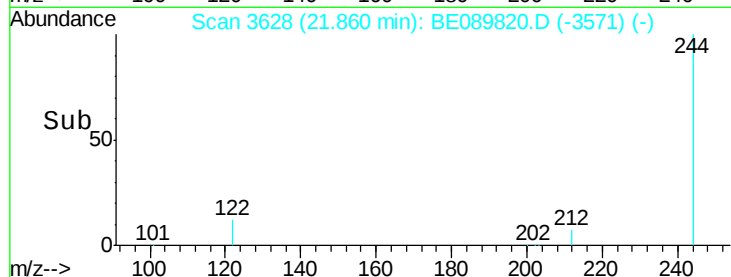
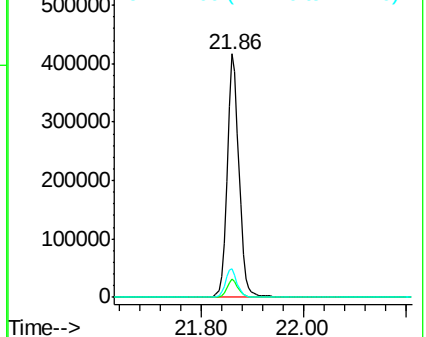
122 11.7 10.5 15.7



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: 8.61 ng

RT: 24.24 min Scan# 4124

Delta R.T. -0.01 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

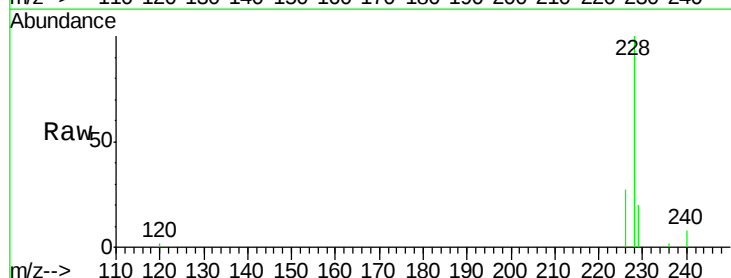
Tgt Ion:228 Resp: 853061

Ion Ratio Lower Upper

228 100

226 27.0 19.8 29.8

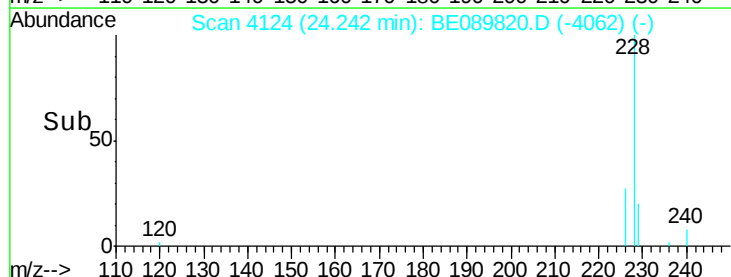
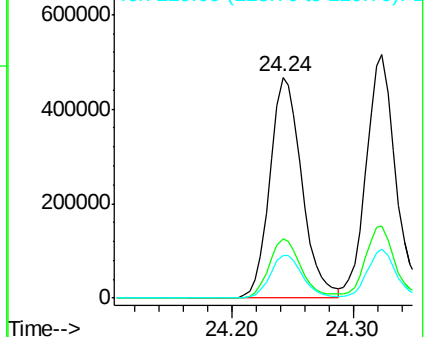
229 19.5 16.3 24.5

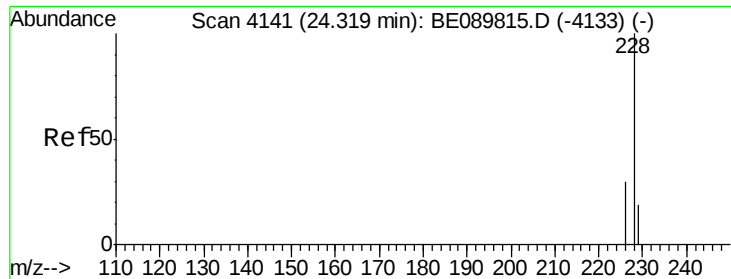


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 8.36 ng

RT: 24.32 min Scan# 4142

Delta R.T. 0.01 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB82216BS

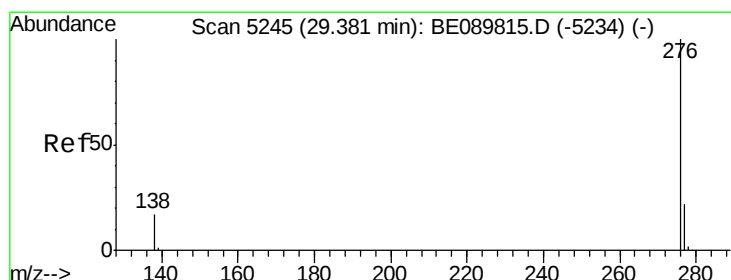
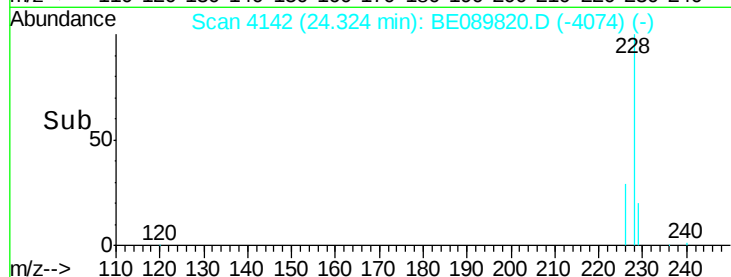
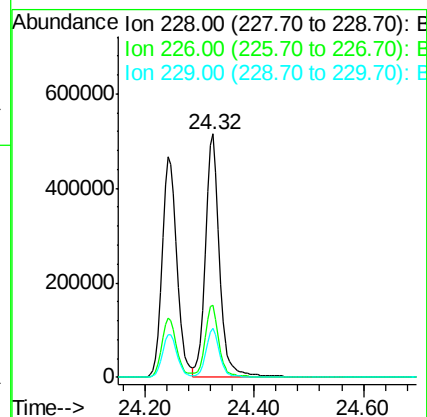
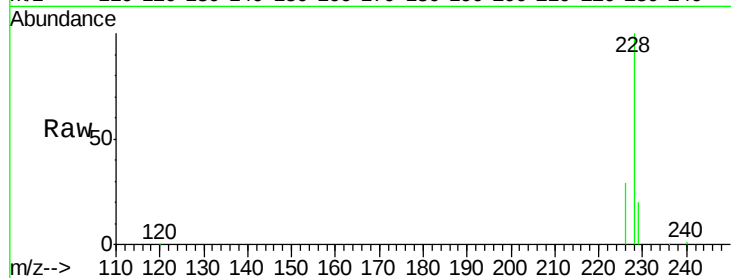
Tgt Ion:228 Resp: 903599

Ion Ratio Lower Upper

228 100

226 29.4 23.0 34.4

229 20.0 15.8 23.6



#24

Indeno(1,2,3-cd)pyrene

Concen: 4.16 ng

RT: 29.39 min Scan# 5247

Delta R.T. 0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

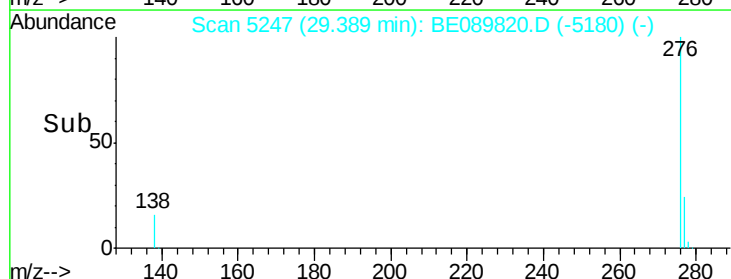
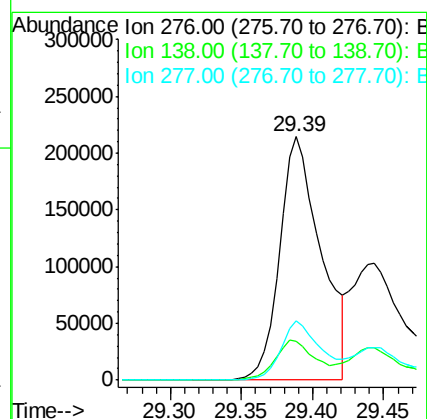
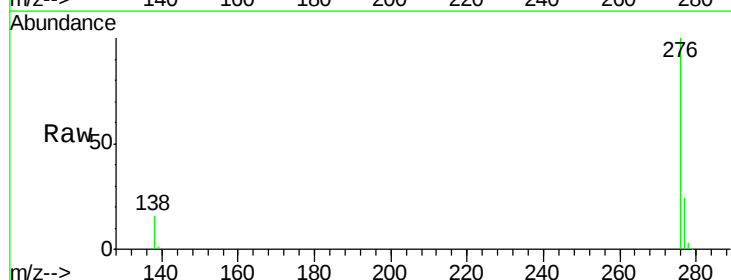
Tgt Ion:276 Resp: 430913

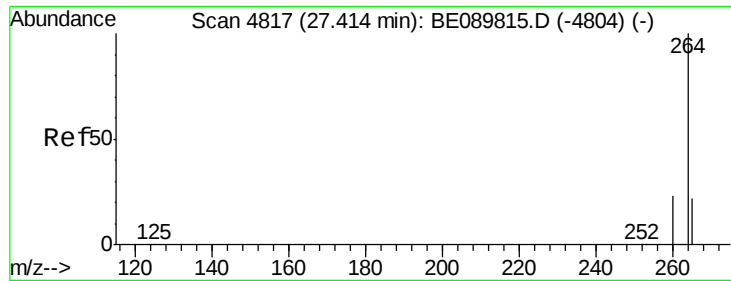
Ion Ratio Lower Upper

276 100

138 15.6 4.3 6.5#

277 23.7 9.0 13.4#





#25

Perylene-d12

Concen: 5.00 ng

RT: 27.41 min Scan# 4817

Delta R.T. -0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB82216BS

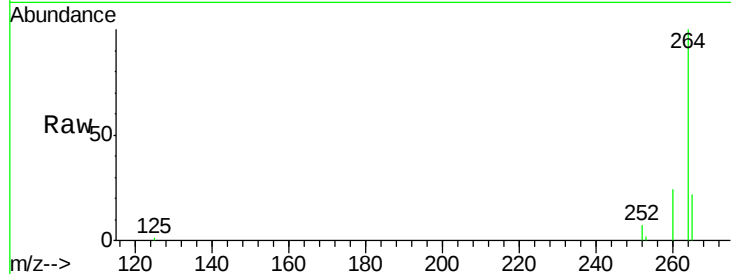
Tgt Ion:264 Resp: 443133

Ion Ratio Lower Upper

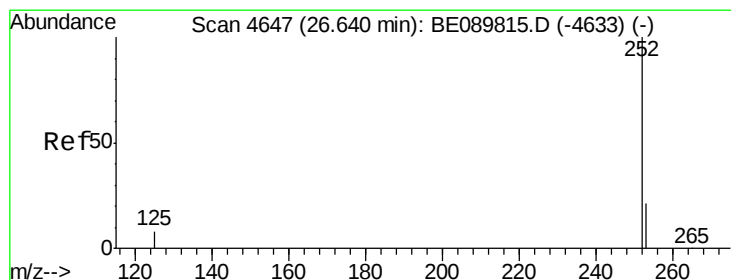
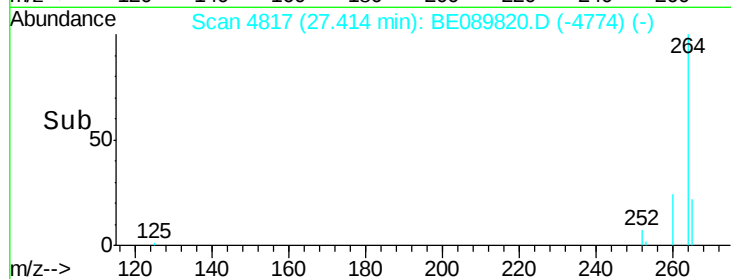
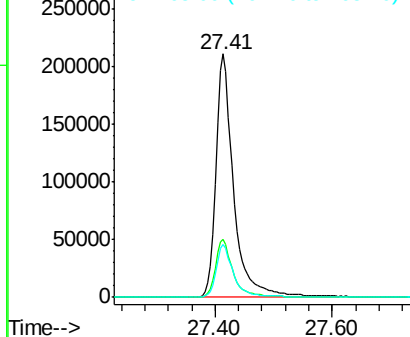
264 100

260 24.0 18.2 27.2

265 21.8 17.3 25.9



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#26

Benzo(b)fluoranthene

Concen: 7.53 ng

RT: 26.64 min Scan# 4647

Delta R.T. 0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

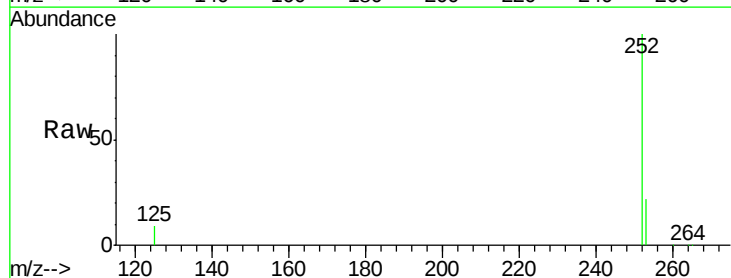
Tgt Ion:252 Resp: 717784

Ion Ratio Lower Upper

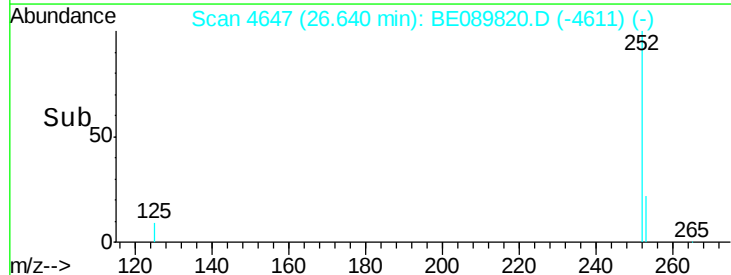
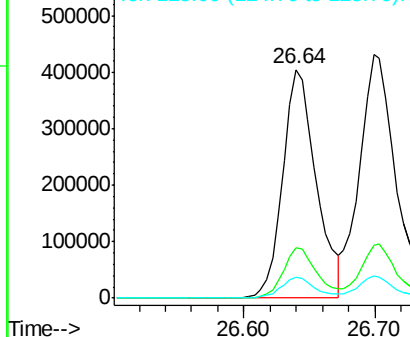
252 100

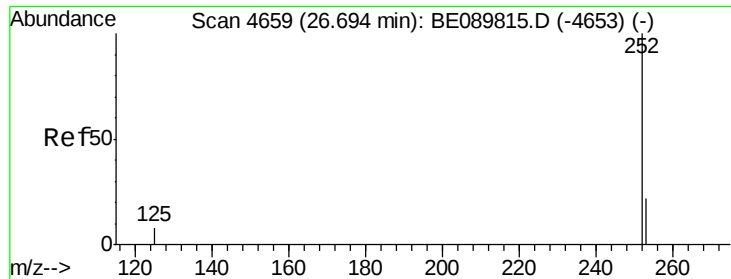
253 21.8 17.8 26.6

125 9.2 8.7 13.1



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





#27

Benzo(k)fluoranthene

Concen: 10.19 ng

RT: 26.70 min Scan# 4660

Delta R.T. -0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

Instrument :

BNA_E

ClientSampled :

PB82216BS

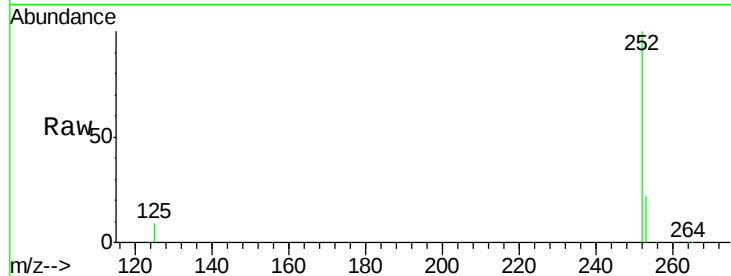
Tgt Ion:252 Resp: 925483

Ion Ratio Lower Upper

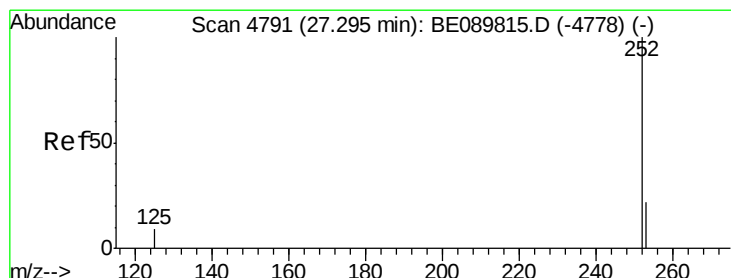
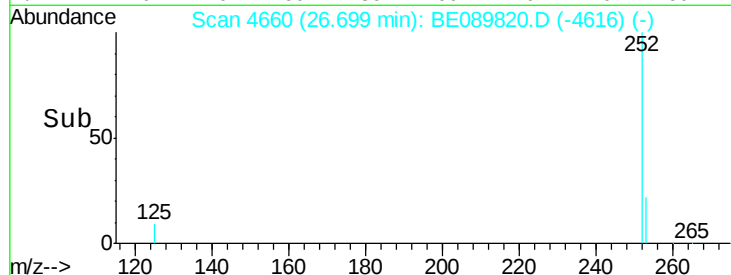
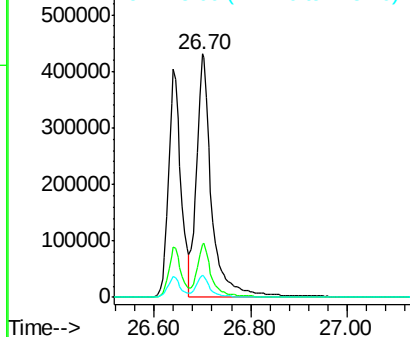
252 100

253 21.7 18.6 28.0

125 9.3 10.8 16.2#



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



#28

Benzo(a)pyrene

Concen: 7.93 ng

RT: 27.30 min Scan# 4792

Delta R.T. 0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

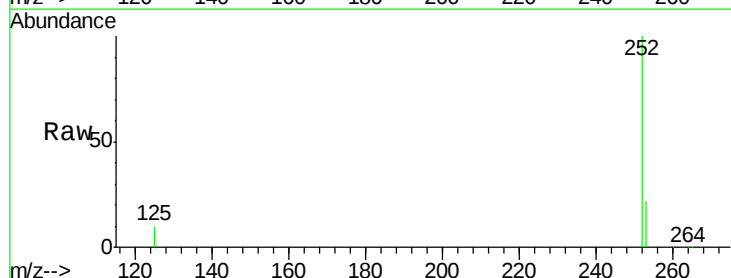
Tgt Ion:252 Resp: 708983

Ion Ratio Lower Upper

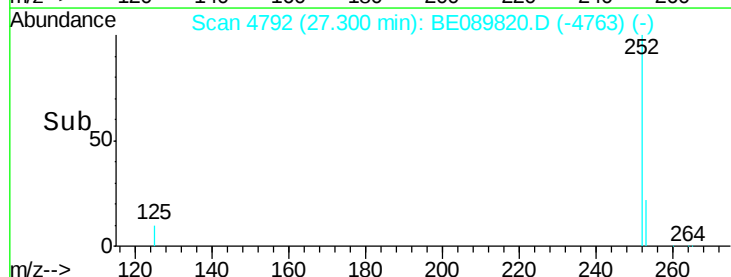
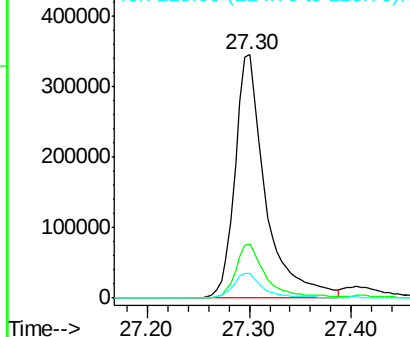
252 100

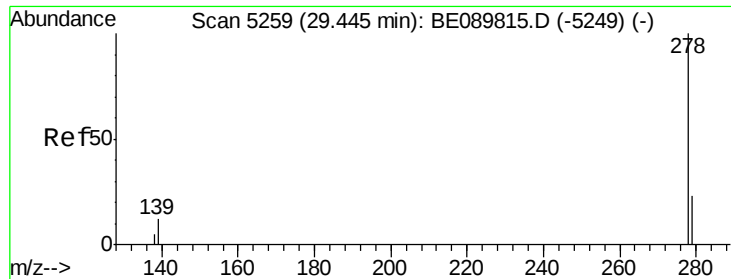
253 22.3 21.0 31.4

125 10.0 13.3 19.9#



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





#29

Dibenzo(a,h)anthracene

Concen: 7.11 ng

RT: 29.45 min Scan# 5260

Delta R.T. 0.00 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

Instrument :

BNA_E

ClientSampleId :

PB82216BS

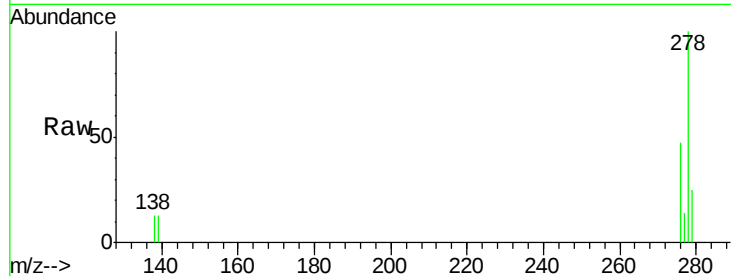
Tgt Ion: 278 Resp: 598117

Ion Ratio Lower Upper

278 100

139 13.1 20.0 30.0#

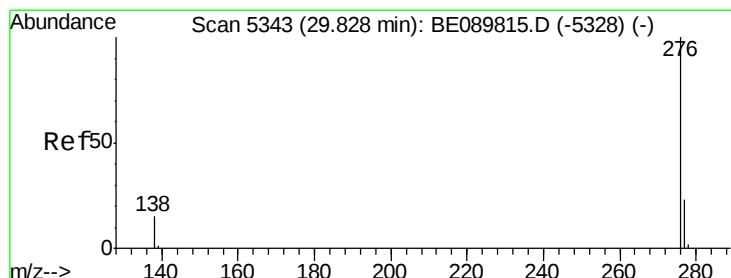
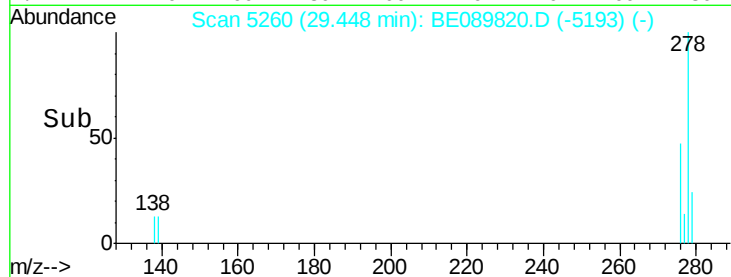
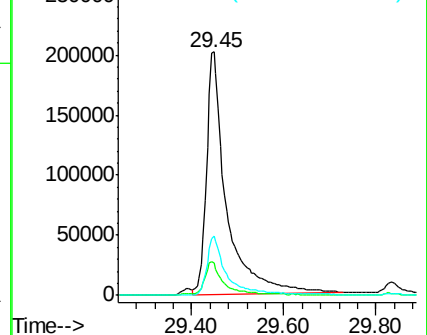
279 24.5 28.9 43.3#



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: 7.65 ng

RT: 29.83 min Scan# 5344

Delta R.T. 0.01 min

Lab File: BE089820.D

Acq: 24 Mar 2015 18:54

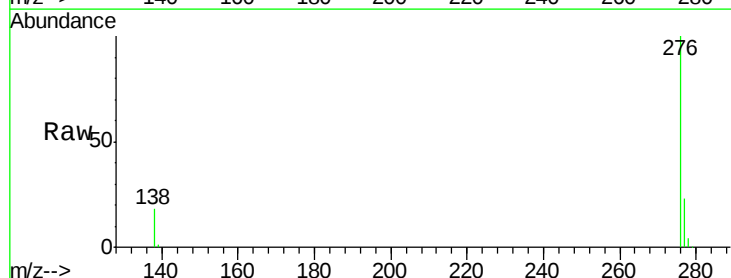
Tgt Ion: 276 Resp: 714575

Ion Ratio Lower Upper

276 100

277 23.3 19.2 28.8

138 18.2 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

