

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021715\
 Data File : BE089586.D
 Acq On : 17 Feb 2015 2:59
 Operator : TP/IZ
 Sample : SSTDICC002
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 17 10:54:44 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE021715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 17 10:44:47 2015
 Response via : Initial Calibration

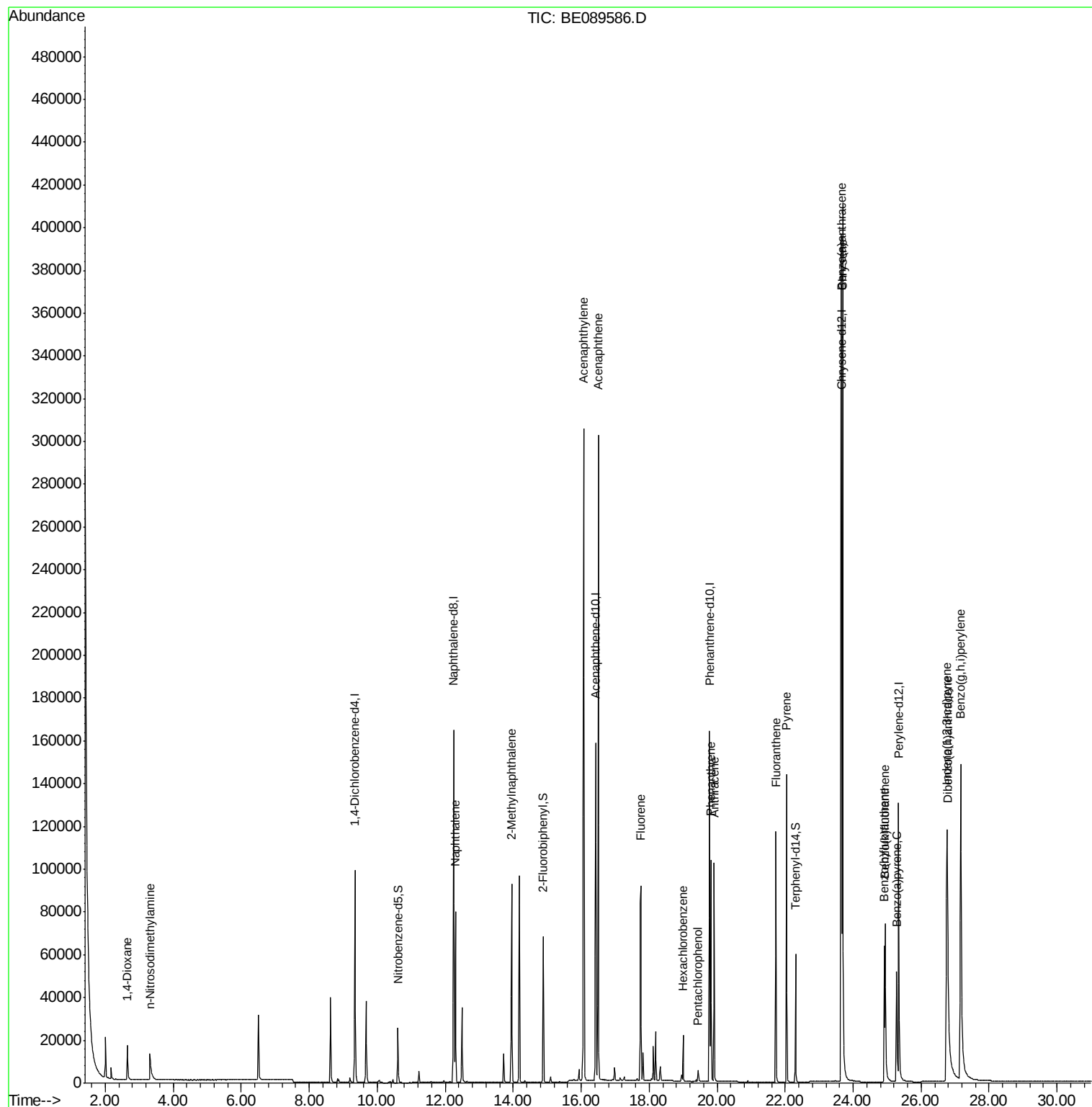
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	42633	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	181064	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	91480	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	159574	5.00	ng	0.00
19) Chrysene-d12	23.66	240	139657	5.00	ng	0.00
25) Perylene-d12	25.34	264	119071	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	18052	2.20	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	59313	2.03	ng	0.00
21) Terphenyl-d14	22.31	244	51763	1.98	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	2.65	88	12025	2.09	ng	99
3) n-Nitrosodimethylamine	3.30	42	12494	2.17	ng	# 97
6) Naphthalene	12.30	128	90276	1.99	ng	99
7) 2-Methylnaphthalene	13.95	142	60113	2.05	ng	98
10) Acenaphthylene	16.07	152	375519	2.15	ng	100
11) Acenaphthene	16.50	154	57775	2.02	ng	99
12) Fluorene	17.75	166	66728	2.09	ng	100
14) Hexachlorobenzene	19.00	284	17035	1.91	ng	99
15) Pentachlorophenol	19.44	266	4520	1.71	ng	95
16) Phenanthrene	19.82	178	95836	2.00	ng	100
17) Anthracene	19.91	178	86393	2.20	ng	100
18) Fluoranthene	21.73	202	86171	2.15	ng	100
20) Pyrene	22.04	202	94203	2.12	ng	100
22) Benzo(a)anthracene	23.64	228	303366	2.10	ng	98
23) Chrysene	23.69	228	336135	1.98	ng	97
24) Indeno(1,2,3-cd)pyrene	26.75	276	299412	2.40	ng	100
26) Benzo(b)fluoranthene	24.92	252	57790	2.40	ng	98
27) Benzo(k)fluoranthene	24.95	252	86185	2.18	ng	99
28) Benzo(a)pyrene	25.28	252	55352	2.37	ng	99
29) Dibenzo(a,h)anthracene	26.78	278	59214	2.48	ng	99
30) Benzo(g,h,i)perylene	27.16	276	265939	2.28	ng	99

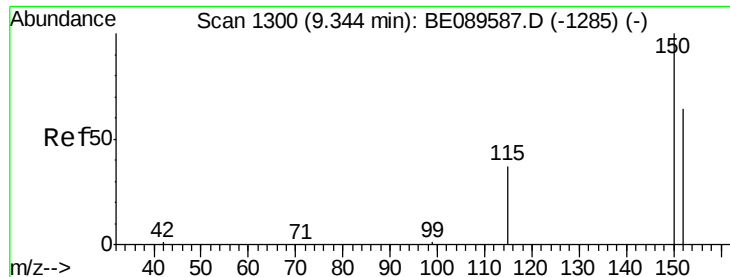
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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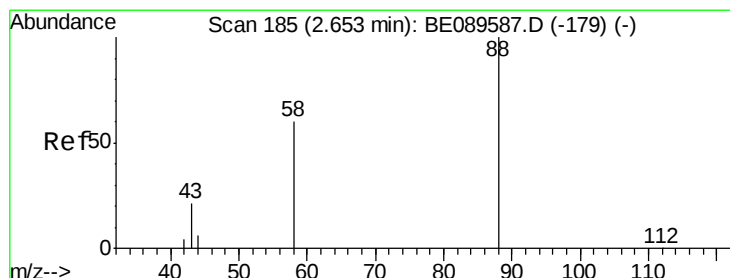
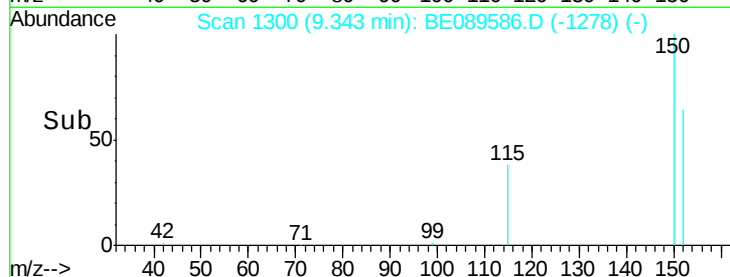
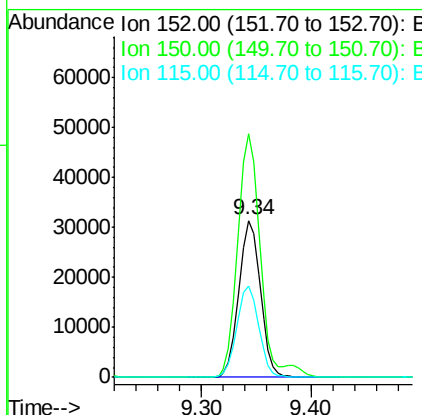
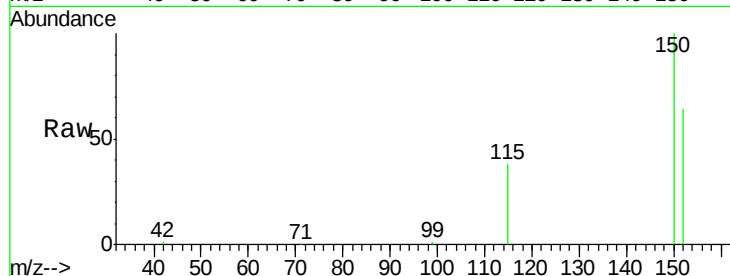




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 9.34 min Scan# 1300
 Delta R.T. -0.00 min
 Lab File: BE089586.D
 Acq: 17 Feb 2015 2:59

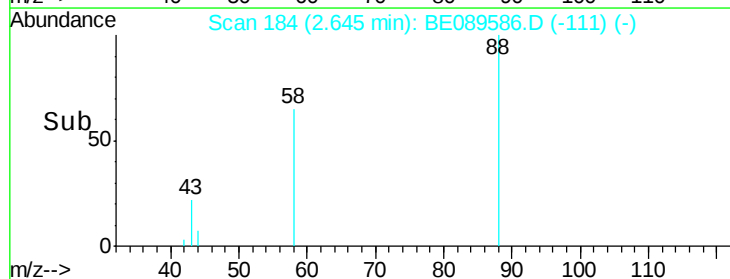
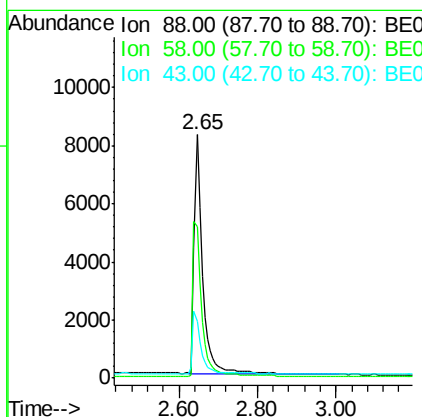
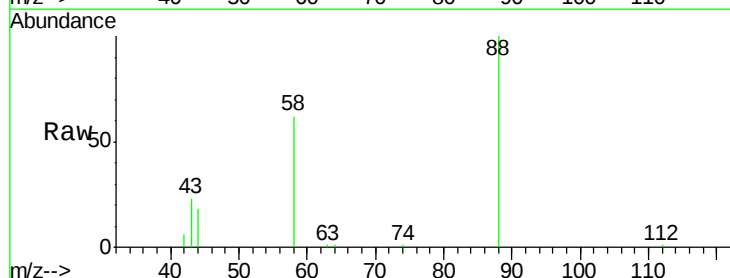
Instrument :
 BNA_E
 ClientSampleId :

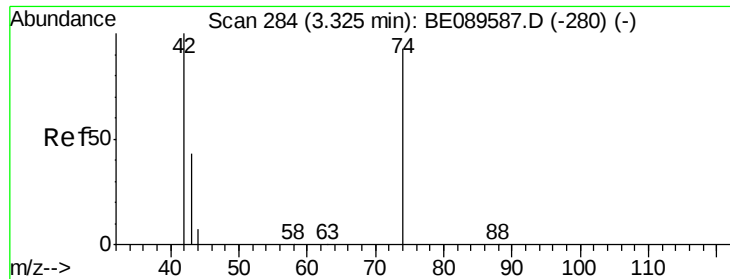
Tot Ion:152 Resp: 42633
 Ion Ratio Lower Upper
 152 100
 150 155.3 125.3 187.9
 115 58.6 47.0 70.4



#2
 1,4-Dioxane
 Concen: 2.09 ng
 RT: 2.65 min Scan# 184
 Delta R.T. -0.01 min
 Lab File: BE089586.D
 Acq: 17 Feb 2015 2:59

Tgt Ion: 88 Resp: 12025
 Ion Ratio Lower Upper
 88 100
 58 67.0 53.0 79.4
 43 24.1 19.9 29.9



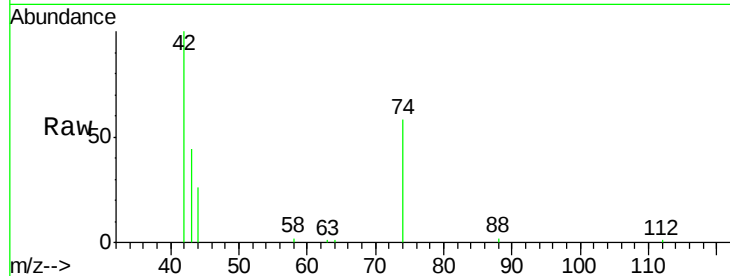


#3

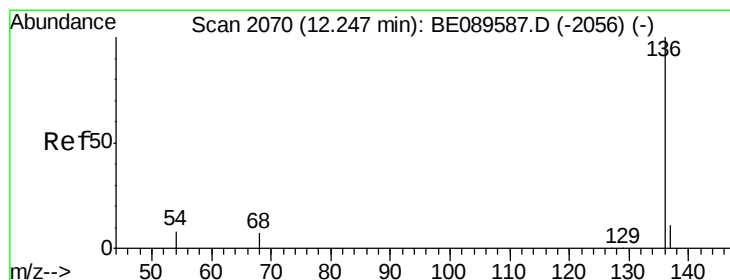
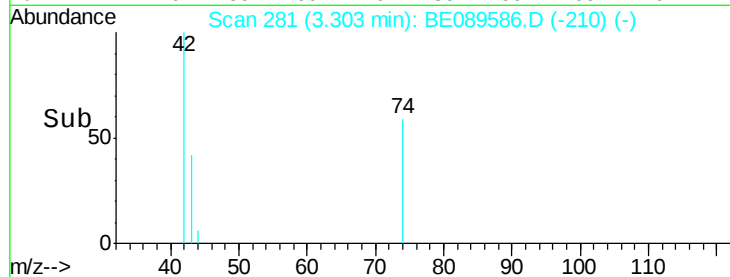
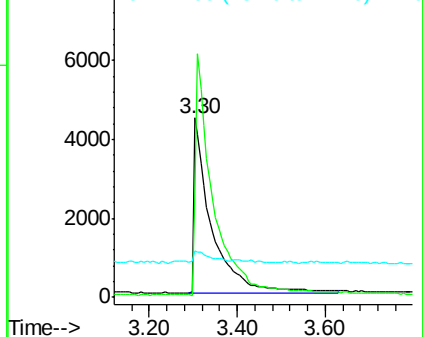
n-Nitrosodimethylamine
 Concen: 2.17 ng
 RT: 3.30 min Scan# 281
 Delta R.T. -0.02 min
 Lab File: BE089586.D
 Acq: 17 Feb 2015 2:59

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion: 42 Resp: 12494
 Ion Ratio Lower Upper
 42 100
 74 139.6 114.2 171.4
 44 6.5 3.6 5.4#



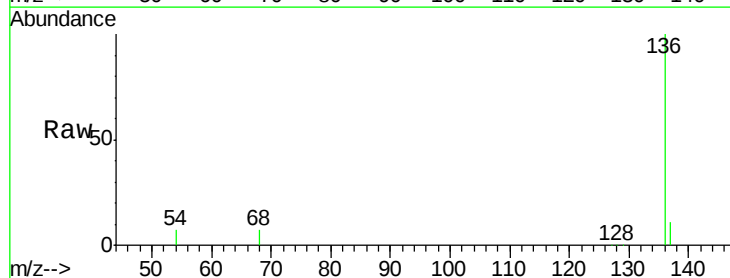
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



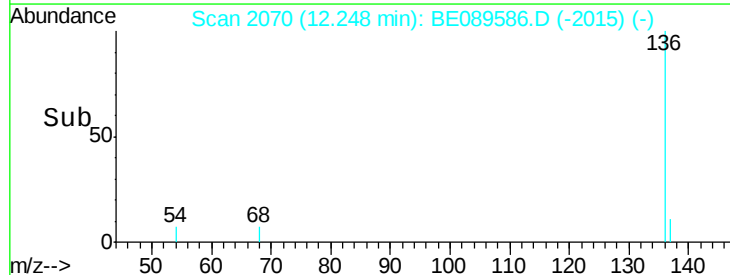
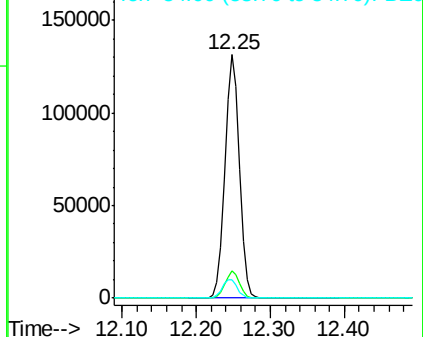
#4

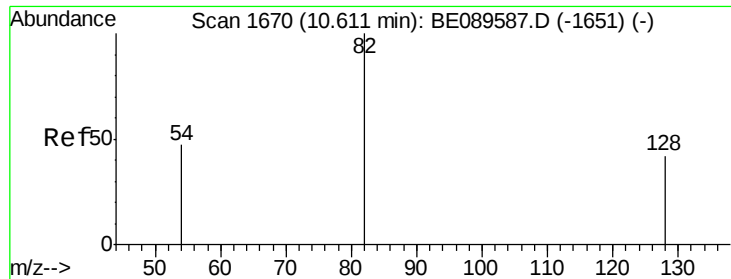
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.25 min Scan# 2070
 Delta R.T. 0.00 min
 Lab File: BE089586.D
 Acq: 17 Feb 2015 2:59

Tgt Ion: 136 Resp: 181064
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.7 13.1
 54 7.5 6.2 9.2



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: 2.20 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

Instrument :

BNA_E

ClientSampleId :

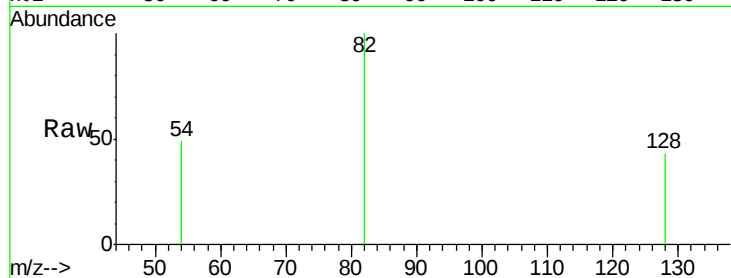
Tot Ion: 82 Resp: 18052

Ion Ratio Lower Upper

82 100

128 43.3 34.2 51.2

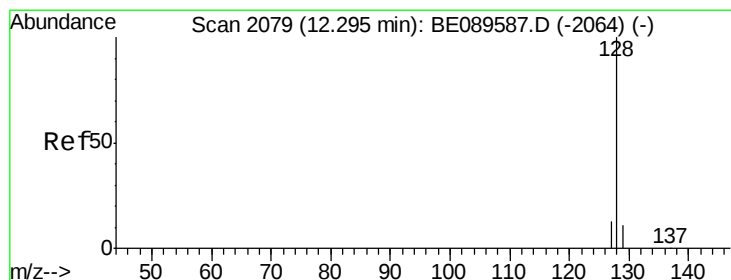
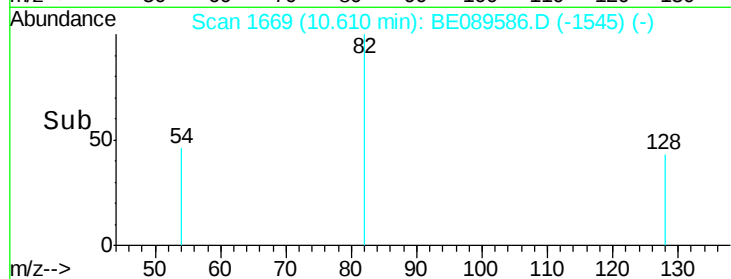
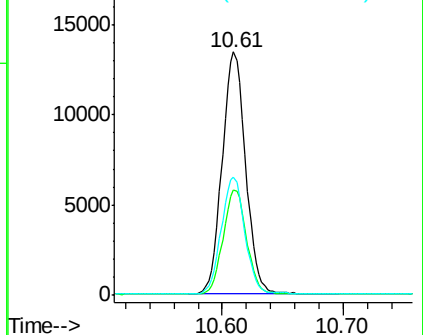
54 48.7 38.4 57.6



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: 1.99 ng

RT: 12.30 min Scan# 2079

Delta R.T. 0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

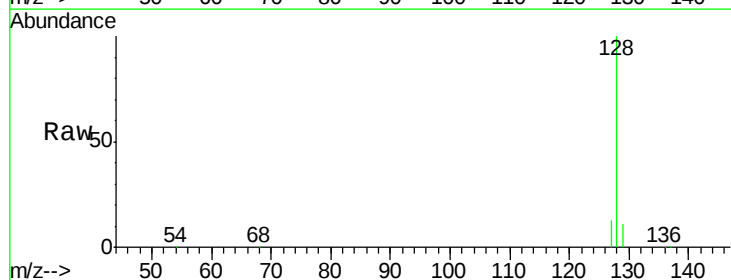
Tgt Ion: 128 Resp: 90276

Ion Ratio Lower Upper

128 100

129 11.1 8.7 13.1

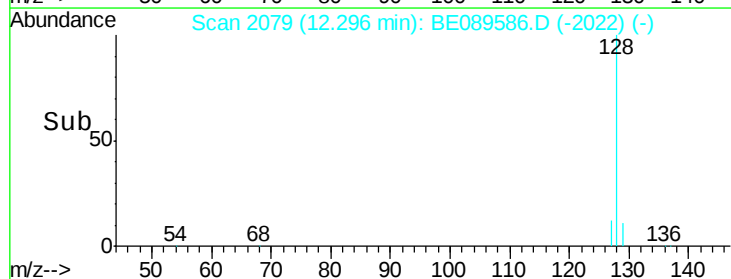
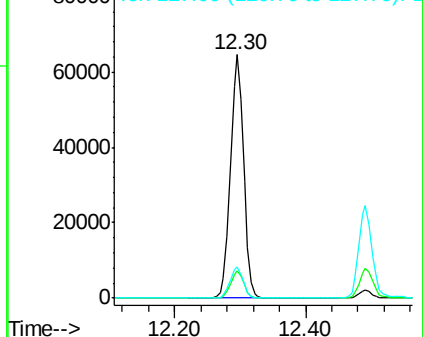
127 12.5 10.2 15.4

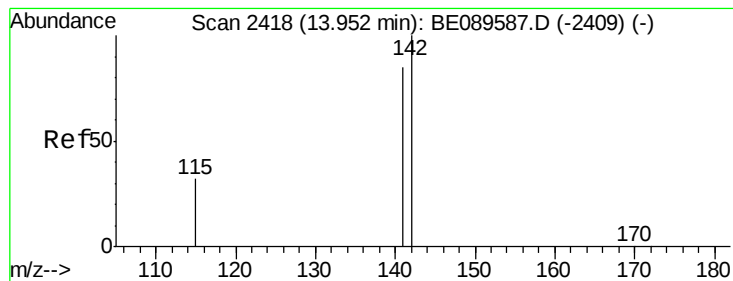


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 2.05 ng

RT: 13.95 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

Instrument :

BNA_E

ClientSampleId :

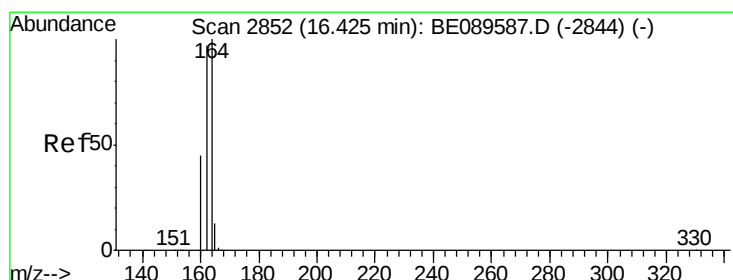
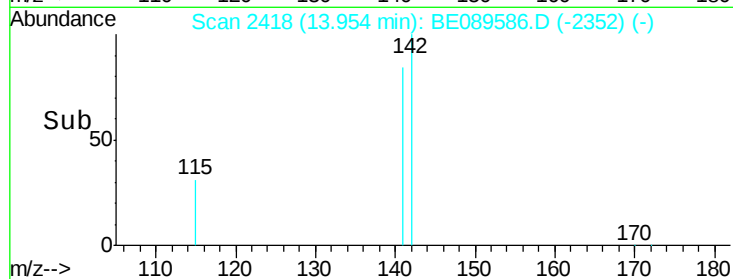
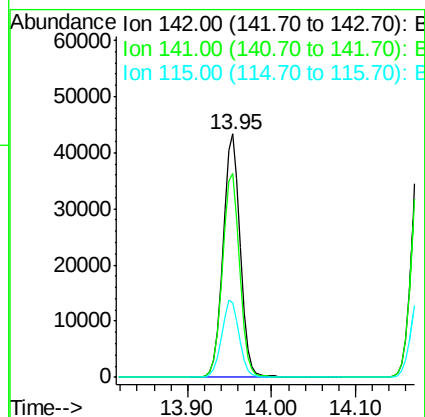
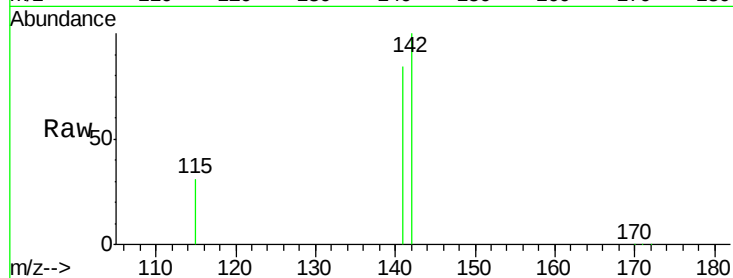
Tot Ion:142 Resp: 60113

Ion Ratio Lower Upper

142 100

141 83.8 68.1 102.1

115 30.8 25.8 38.8



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2851

Delta R.T. -0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

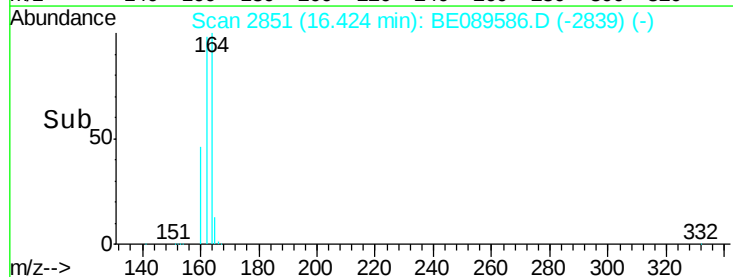
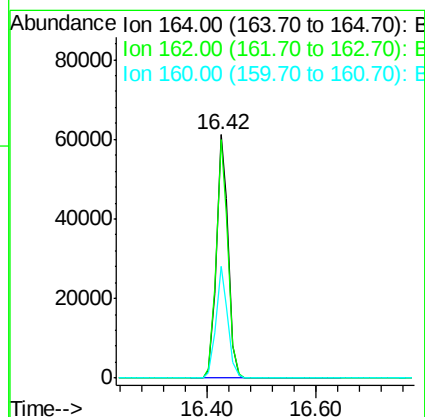
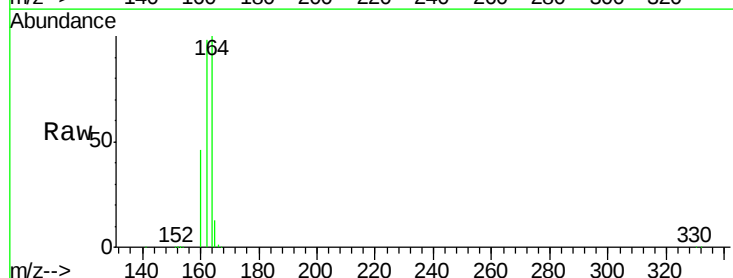
Tgt Ion:164 Resp: 91480

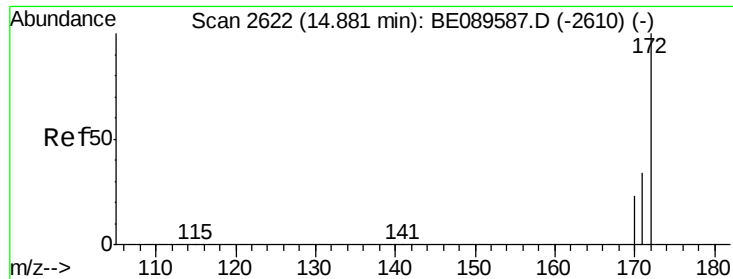
Ion Ratio Lower Upper

164 100

162 97.9 77.8 116.8

160 46.1 35.8 53.6





#9

2-Fluorobiphenyl

Concen: 2.03 ng

RT: 14.88 min Scan# 2622

Delta R.T. 0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

Instrument :

BNA_E

ClientSampleId :

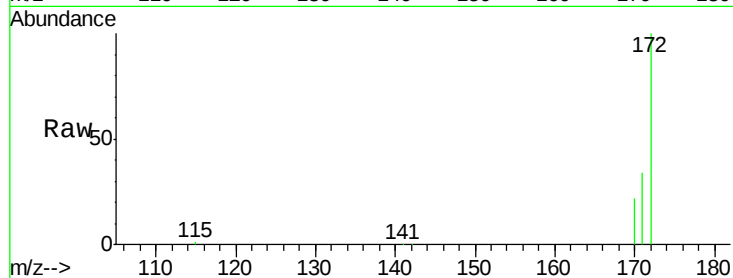
Tot Ion:172 Resp: 59313

Ion Ratio Lower Upper

172 100

171 34.0 27.4 41.0

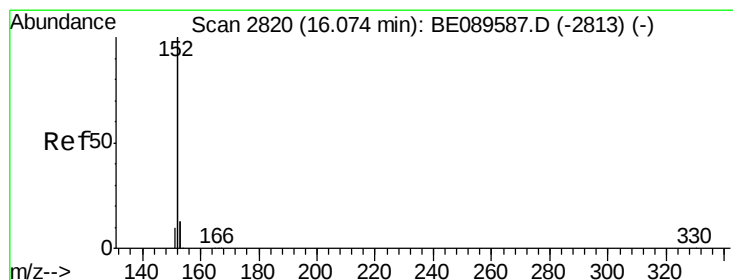
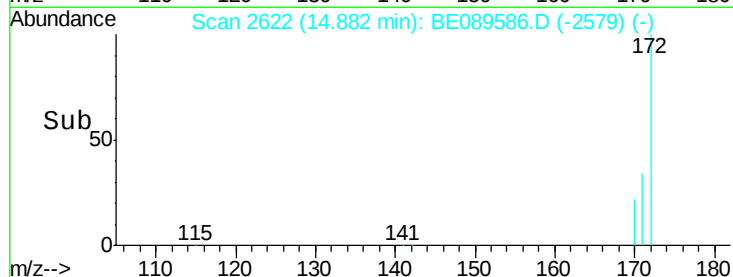
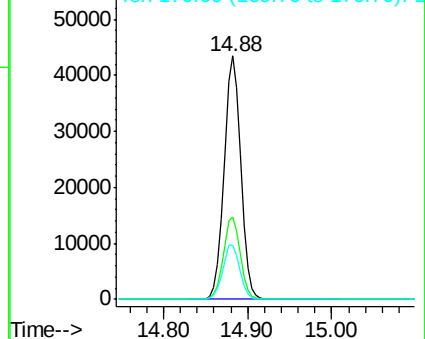
170 22.4 18.6 27.8



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: 2.15 ng

RT: 16.07 min Scan# 2819

Delta R.T. -0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

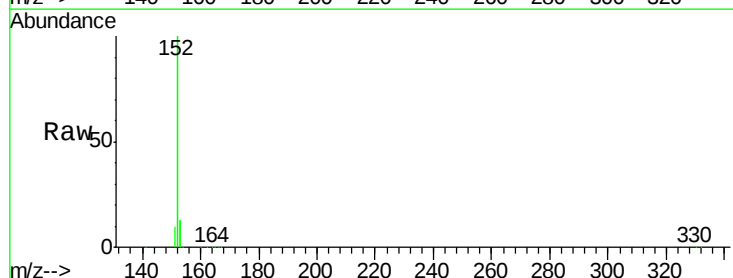
Tgt Ion:152 Resp: 375519

Ion Ratio Lower Upper

152 100

151 4.9 3.8 5.8

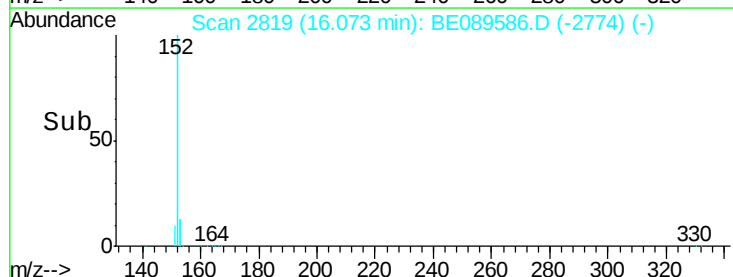
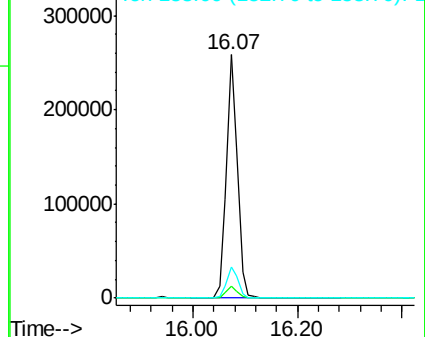
153 13.1 10.4 15.6

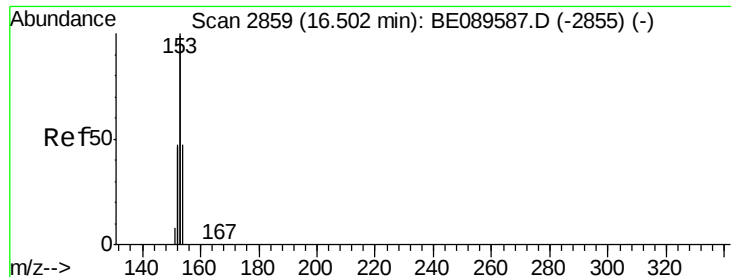


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 2.02 ng

RT: 16.50 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

Instrument :

BNA_E

ClientSampleId :

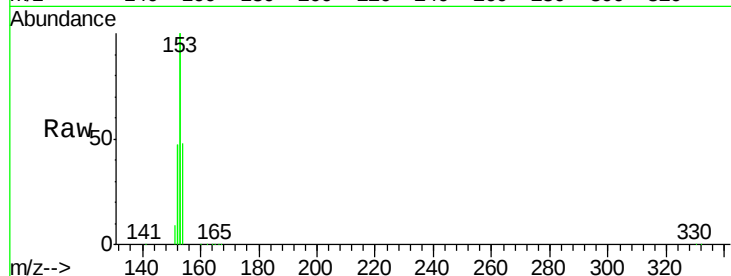
Tot Ion:154 Resp: 57775

Ion Ratio Lower Upper

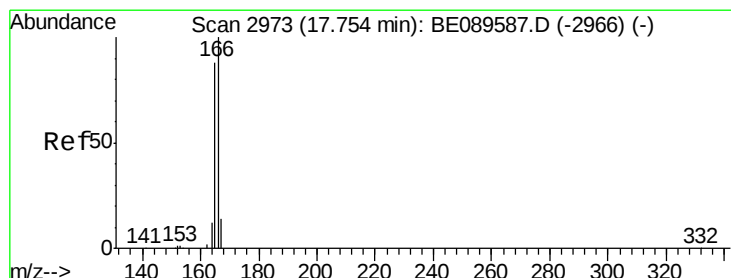
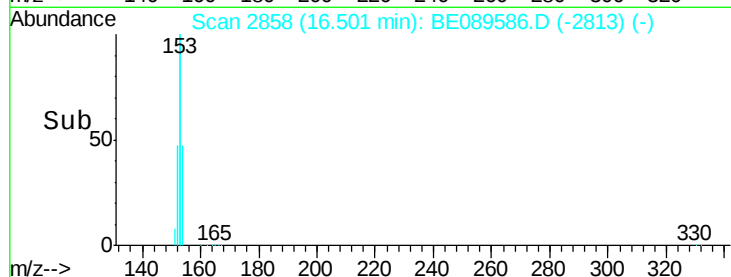
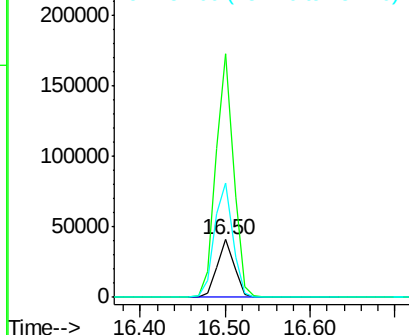
154 100

153 430.4 346.6 519.8

152 209.8 169.0 253.6



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: 2.09 ng

RT: 17.75 min Scan# 2972

Delta R.T. -0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

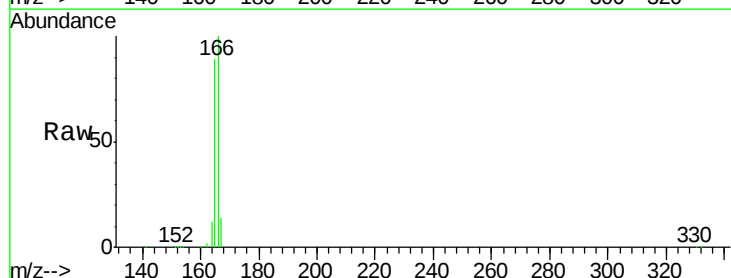
Tgt Ion:166 Resp: 66728

Ion Ratio Lower Upper

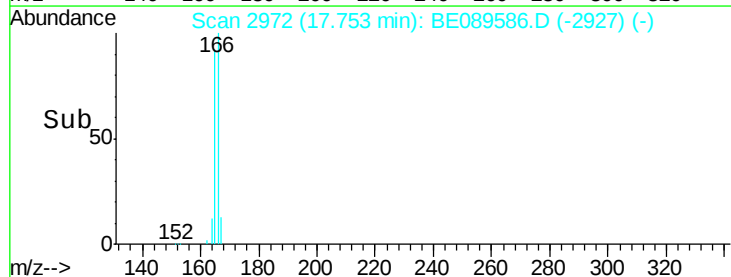
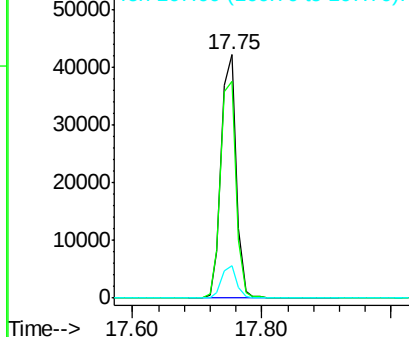
166 100

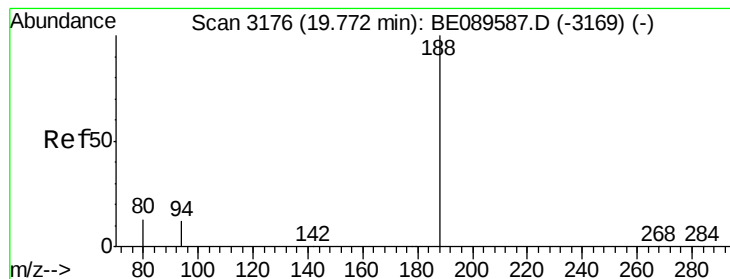
165 92.3 73.8 110.6

167 13.1 10.6 15.8



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3175

Delta R.T. 0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

Instrument :

BNA_E

ClientSampleId :

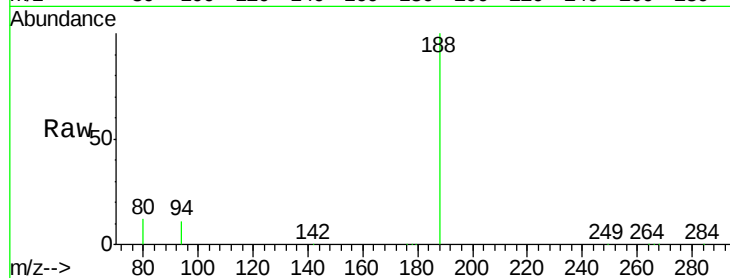
Tot Ion:188 Resp: 159574

Ion Ratio Lower Upper

188 100

94 11.3 9.8 14.8

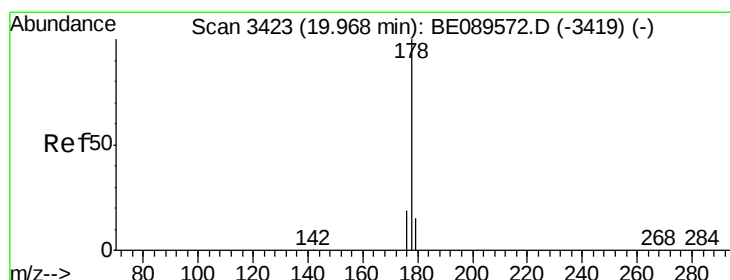
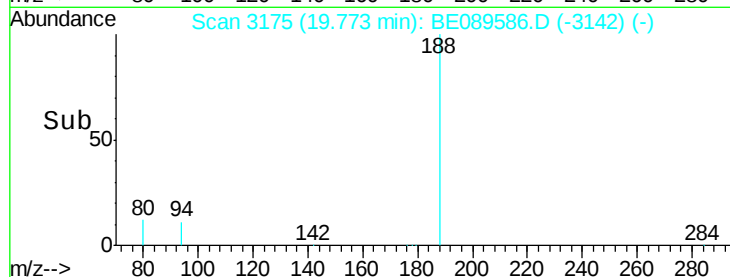
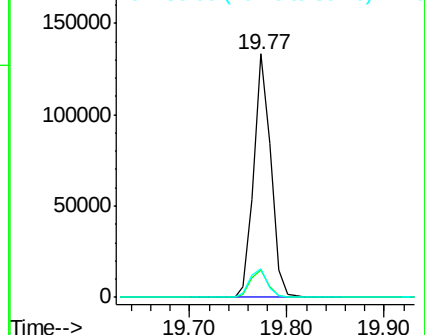
80 11.6 10.2 15.4



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: 1.91 ng

RT: 19.00 min Scan# 3089

Delta R.T. 0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

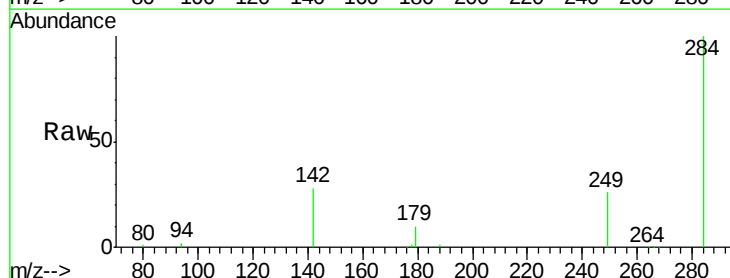
Tgt Ion:284 Resp: 17035

Ion Ratio Lower Upper

284 100

142 42.6 33.1 49.7

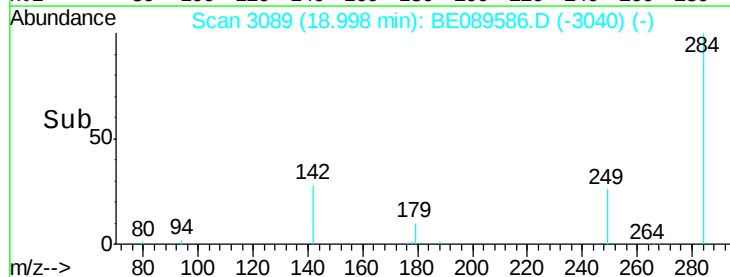
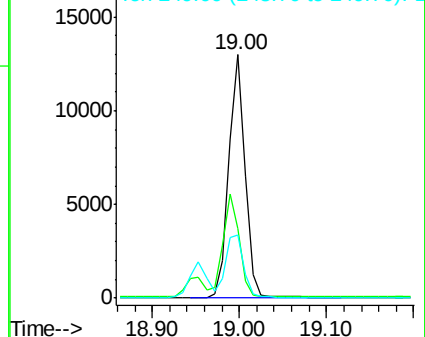
249 28.4 22.8 34.2

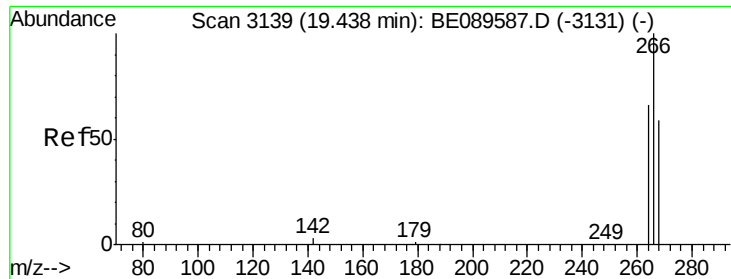


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

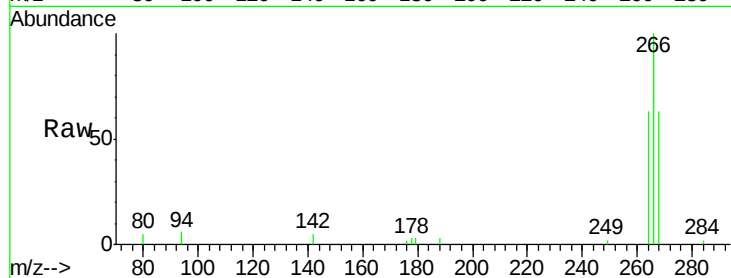




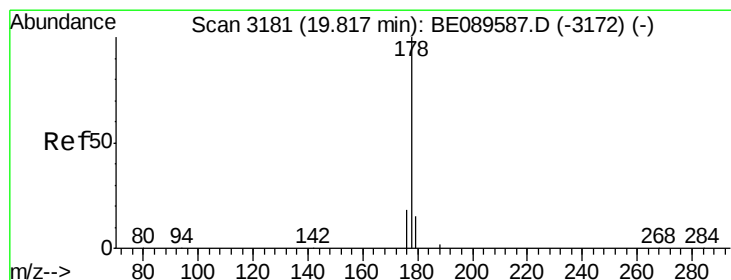
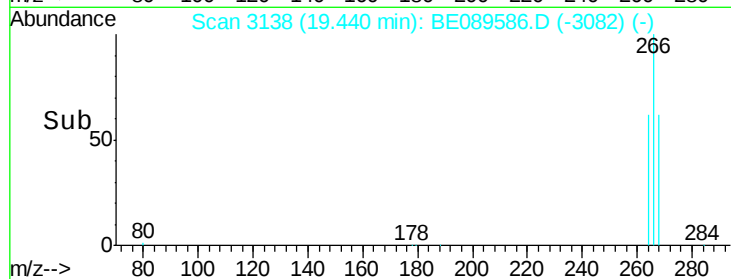
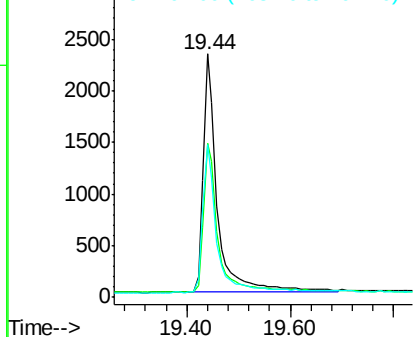
#15
 Pentachlorophenol
 Concen: 1.71 ng
 RT: 19.44 min Scan# 3138
 Delta R.T. 0.00 min
 Lab File: BE089586.D
 Acq: 17 Feb 2015 2:59

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:266 Resp: 4520
 Ion Ratio Lower Upper
 266 100
 268 63.3 48.8 73.2
 264 62.7 53.9 80.9

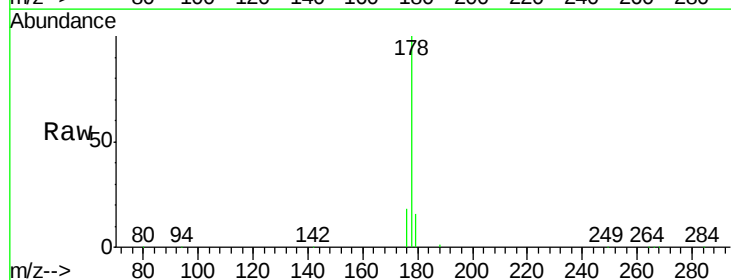


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

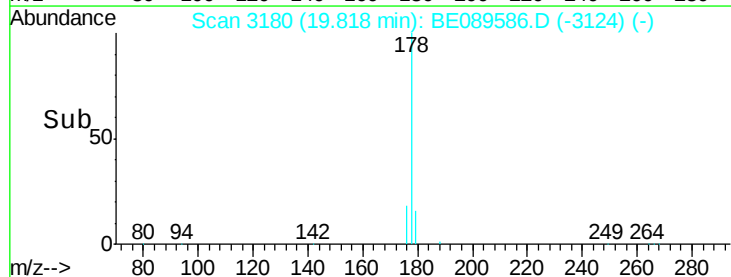
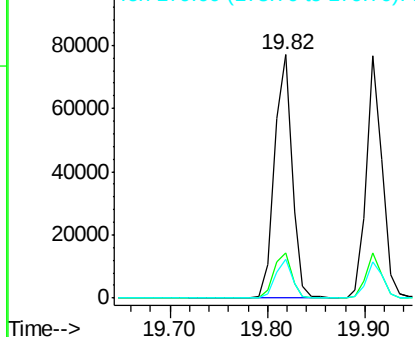


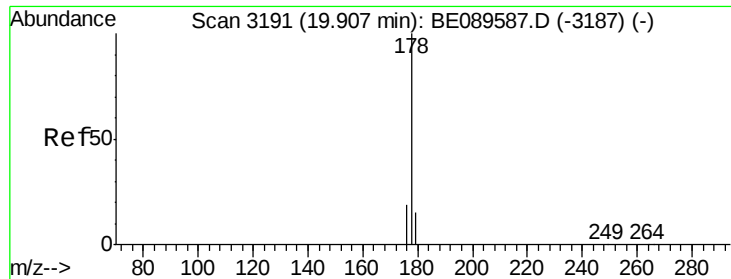
#16
 Phenanthrene
 Concen: 2.00 ng
 RT: 19.82 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: BE089586.D
 Acq: 17 Feb 2015 2:59

Tgt Ion:178 Resp: 95836
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.2 22.8
 179 15.5 12.4 18.6



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

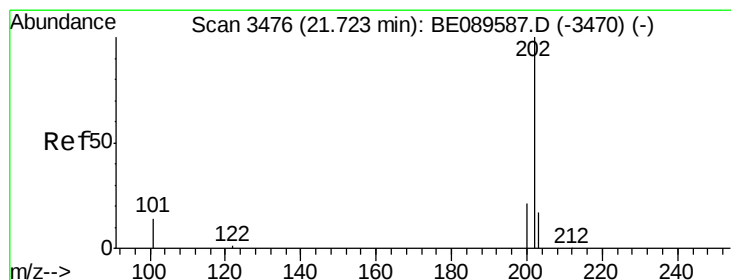
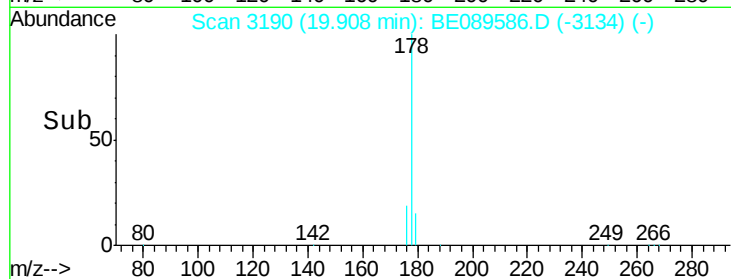
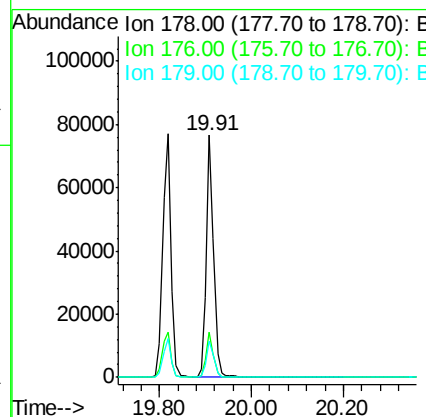
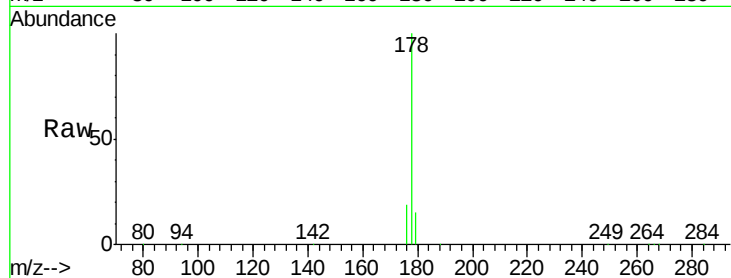




#17
 Anthracene
 Concen: 2.20 ng
 RT: 19.91 min Scan# 3190
 Delta R.T. 0.00 min
 Lab File: BE089586.D
 Acq: 17 Feb 2015 2:59

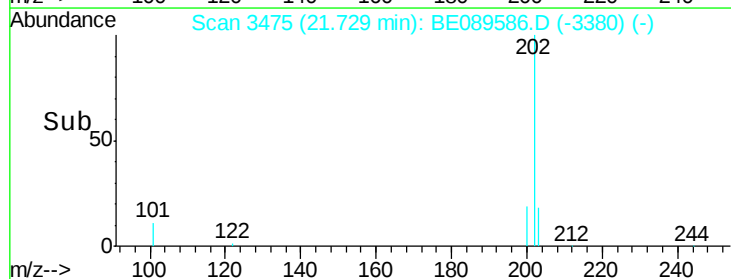
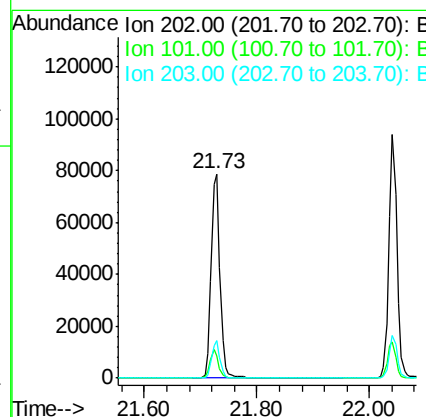
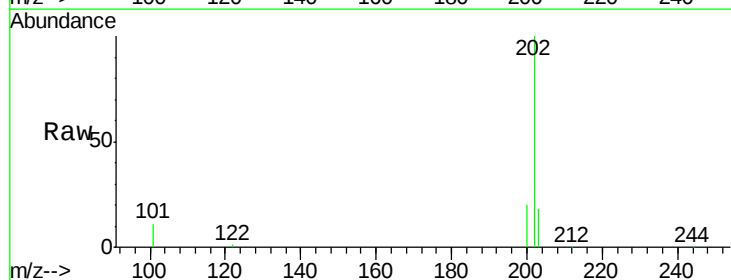
Instrument :
 BNA_E
 ClientSampleId :

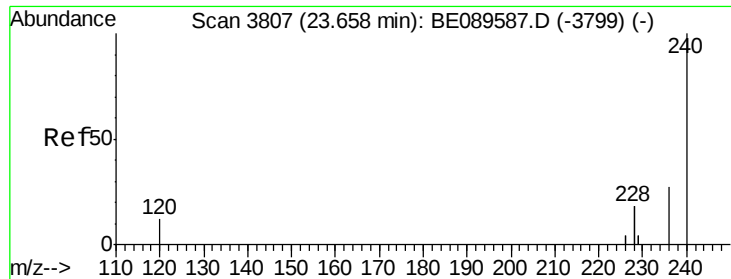
Tot Ion:178 Resp: 86393
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.7 22.1
 179 15.2 12.2 18.2



#18
 Fluoranthene
 Concen: 2.15 ng
 RT: 21.73 min Scan# 3475
 Delta R.T. 0.01 min
 Lab File: BE089586.D
 Acq: 17 Feb 2015 2:59

Tgt Ion:202 Resp: 86171
 Ion Ratio Lower Upper
 202 100
 101 13.0 10.3 15.5
 203 17.4 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3806

Delta R.T. 0.01 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

Instrument :

BNA_E

ClientSampleId :

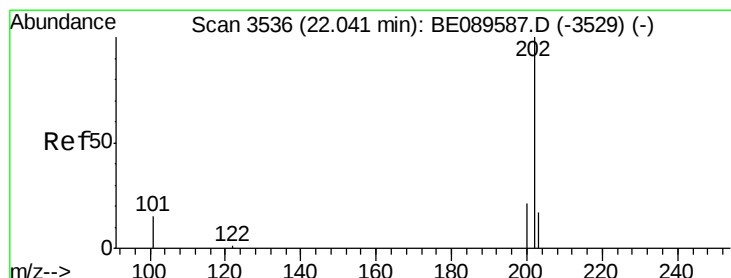
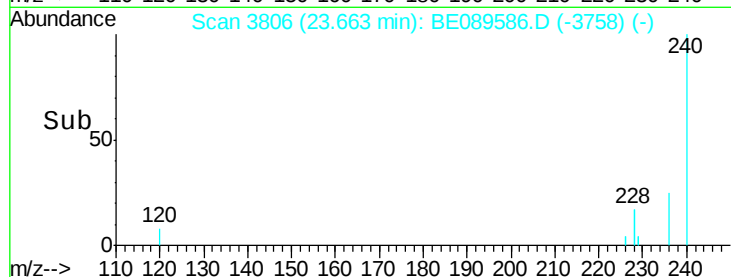
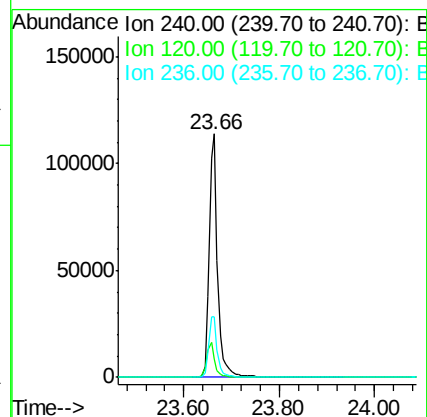
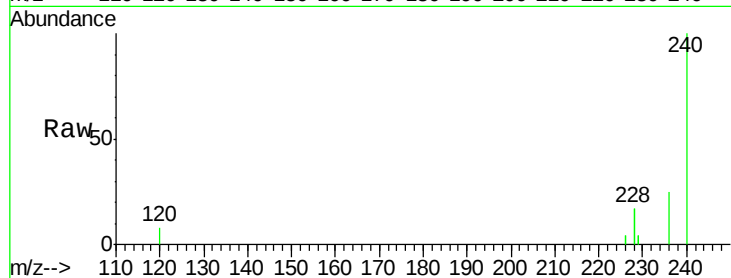
Tot Ion:240 Resp: 139657

Ion Ratio Lower Upper

240 100

120 7.8 9.9 14.9#

236 24.9 21.5 32.3



#20

Pyrene

Concen: 2.12 ng

RT: 22.04 min Scan# 3534

Delta R.T. 0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

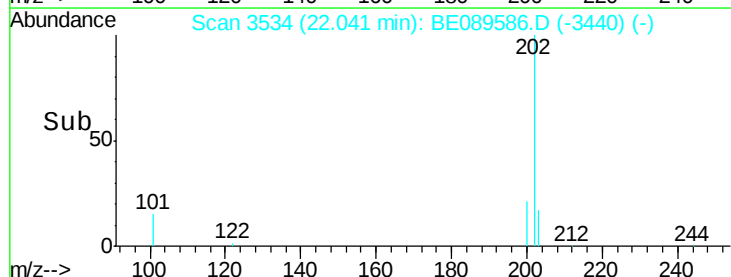
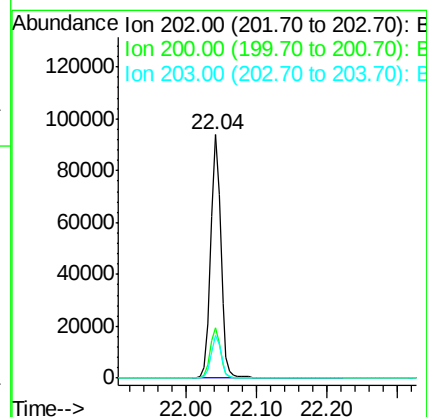
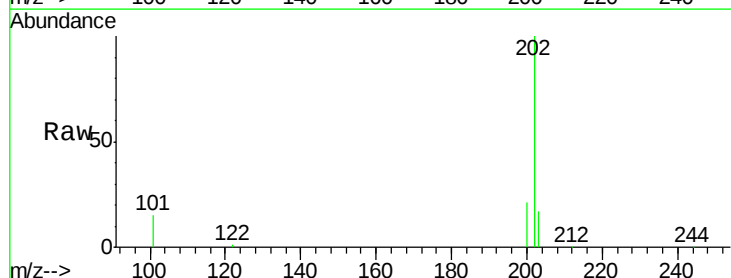
Tgt Ion:202 Resp: 94203

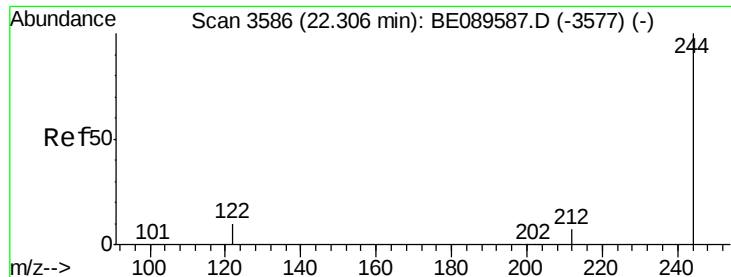
Ion Ratio Lower Upper

202 100

200 20.7 16.5 24.7

203 17.5 13.8 20.8





#21

Terphenyl-d14

Concen: 1.98 ng

RT: 22.31 min Scan# 3584

Delta R.T. 0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

Instrument :

BNA_E

ClientSampleId :

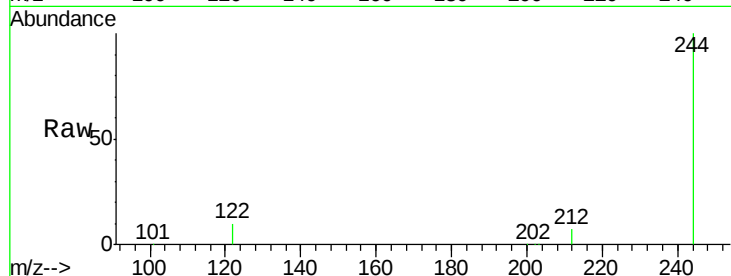
Tot Ion:244 Resp: 51763

Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

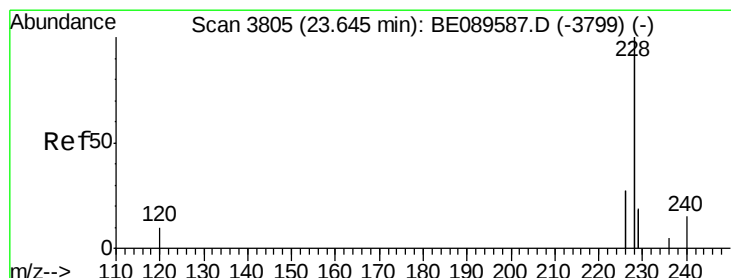
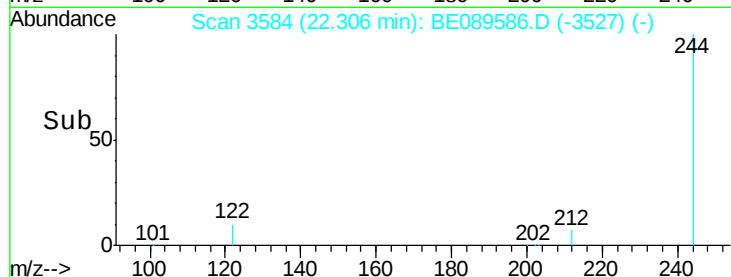
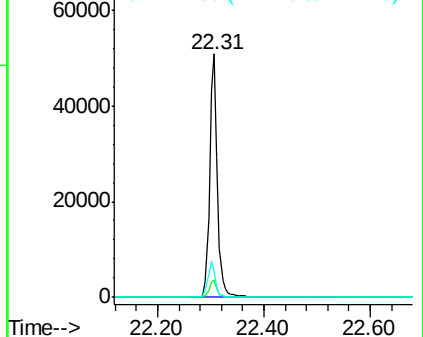
122 10.5 8.6 12.8



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: 2.10 ng

RT: 23.64 min Scan# 3803

Delta R.T. -0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

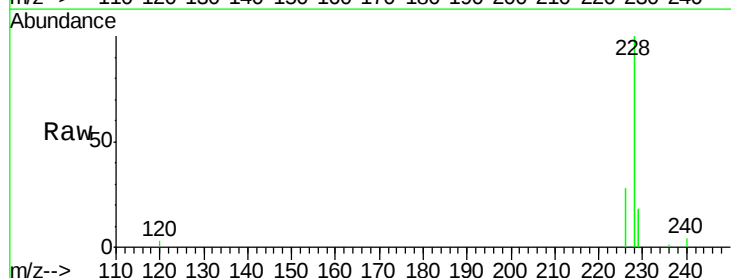
Tgt Ion:228 Resp: 303366

Ion Ratio Lower Upper

228 100

226 28.3 21.5 32.3

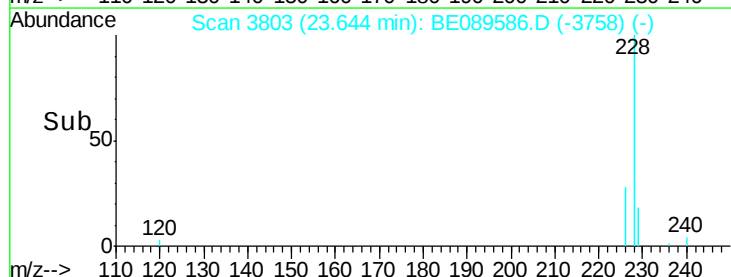
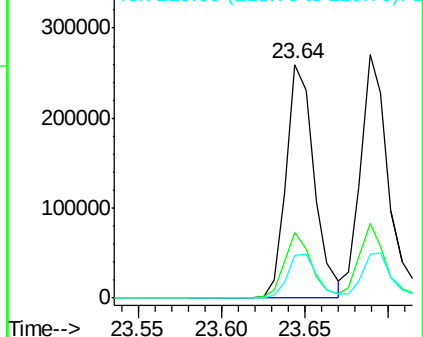
229 18.2 15.0 22.4

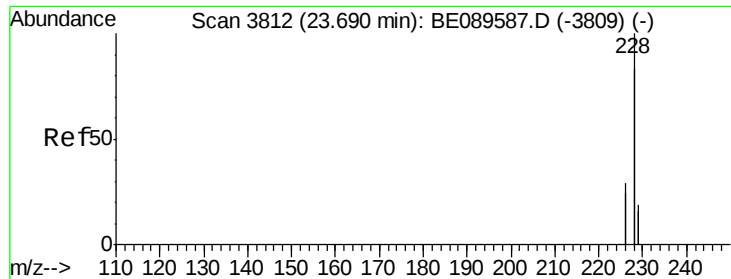


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 1.98 ng

RT: 23.69 min Scan# 3810

Delta R.T. -0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

Instrument :

BNA_E

ClientSampleId :

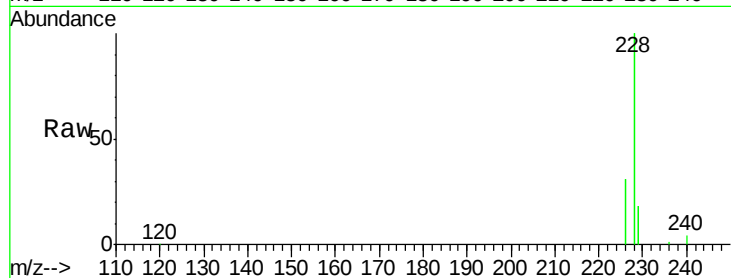
Tot Ion:228 Resp: 336135

Ion Ratio Lower Upper

228 100

226 30.9 23.3 34.9

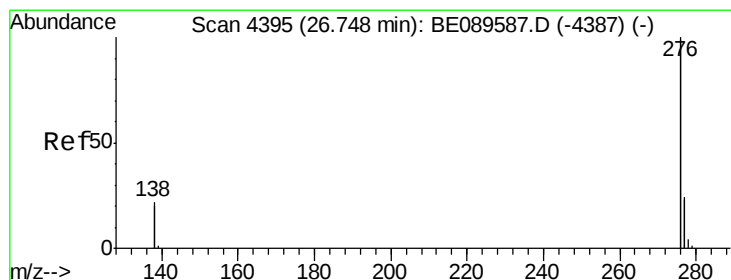
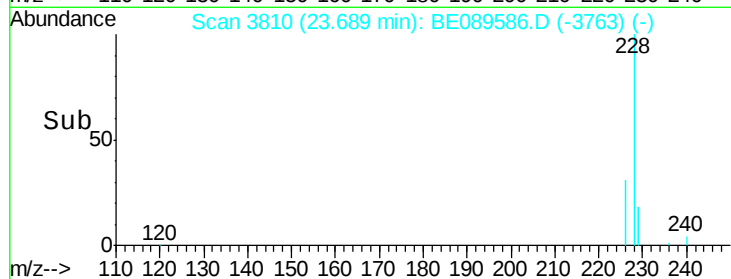
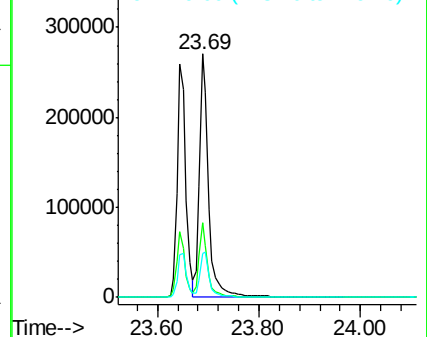
229 18.3 15.4 23.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 2.40 ng

RT: 26.75 min Scan# 4394

Delta R.T. 0.01 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

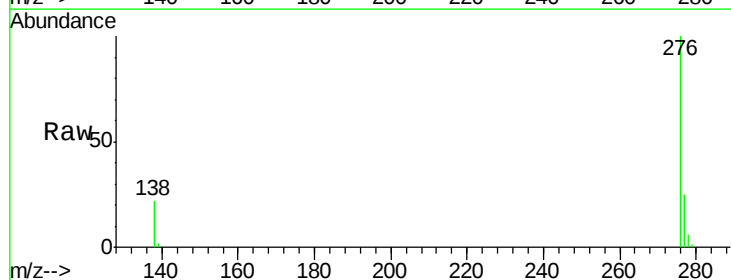
Tgt Ion:276 Resp: 299412

Ion Ratio Lower Upper

276 100

138 26.6 21.0 31.6

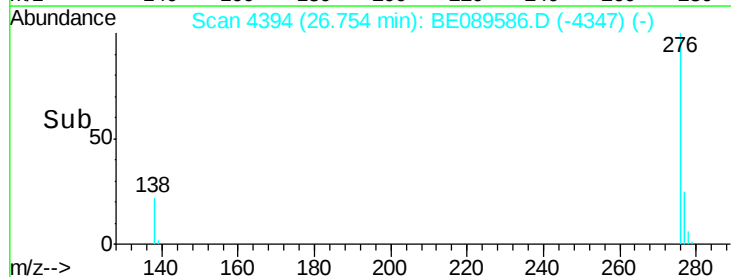
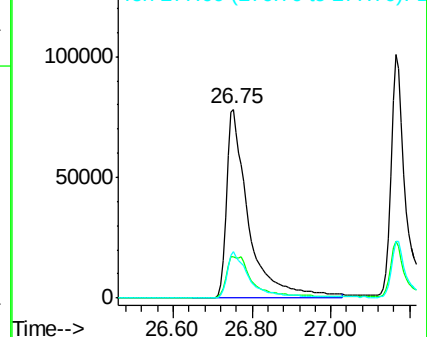
277 24.9 20.0 30.0

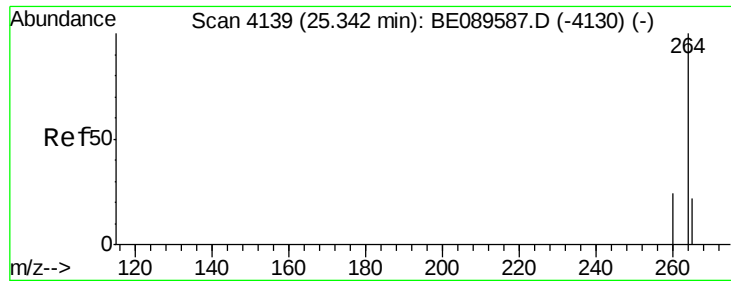


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

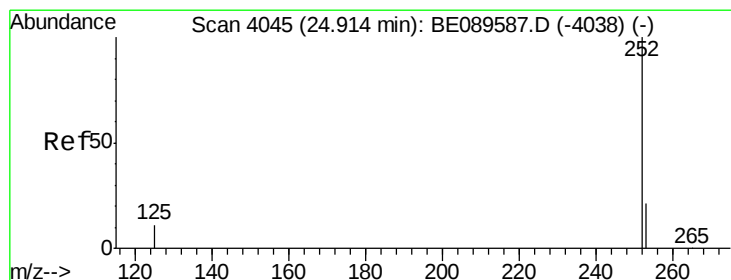
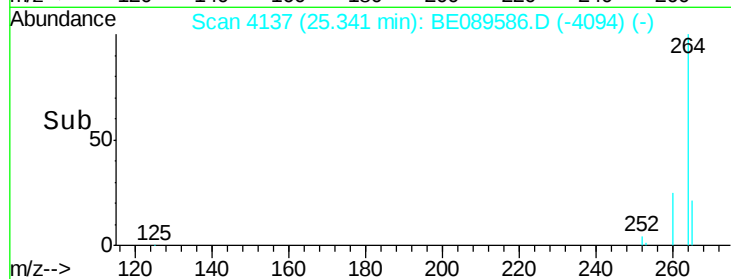
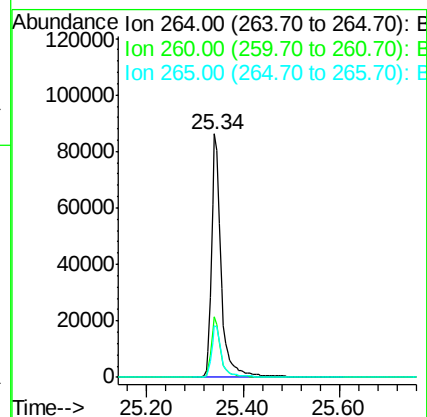
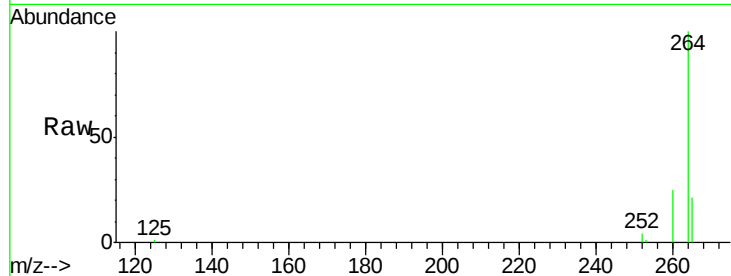




#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4137
Delta R.T. -0.00 min
Lab File: BE089586.D
Acq: 17 Feb 2015 2:59

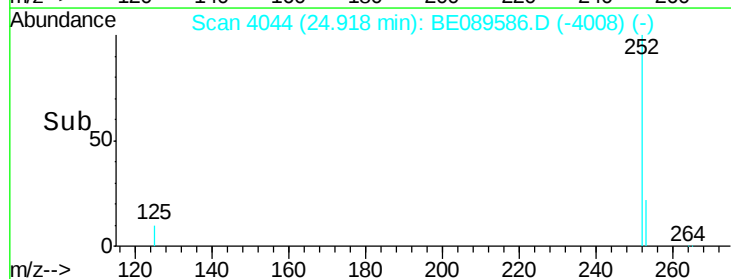
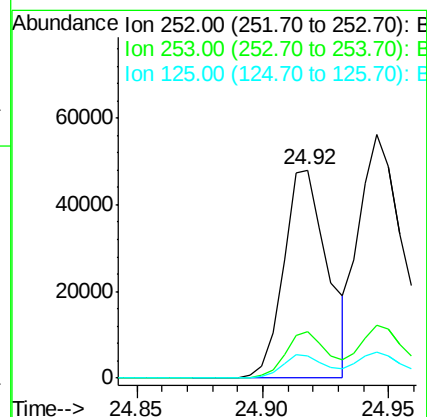
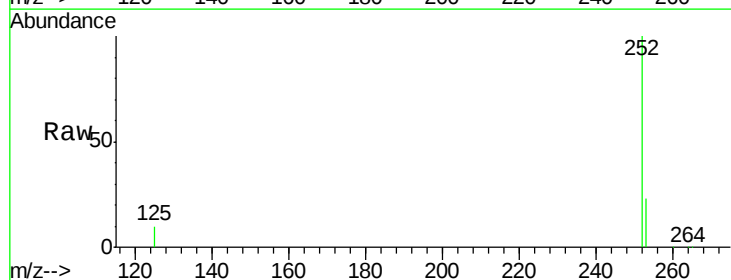
Instrument :
BNA_E
ClientSampleId :

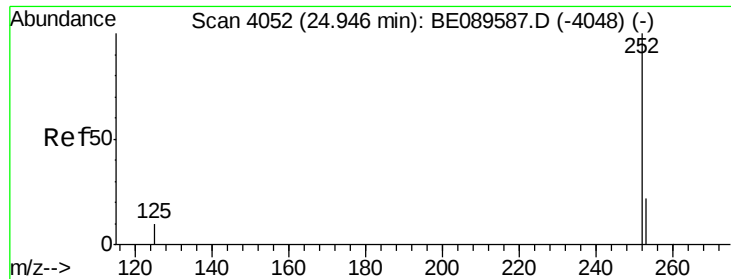
Tot Ion:264 Resp: 119071
Ion Ratio Lower Upper
264 100
260 24.7 19.4 29.0
265 21.3 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 2.40 ng
RT: 24.92 min Scan# 4044
Delta R.T. 0.00 min
Lab File: BE089586.D
Acq: 17 Feb 2015 2:59

Tgt Ion:252 Resp: 57790
Ion Ratio Lower Upper
252 100
253 22.5 17.3 25.9
125 10.5 8.9 13.3

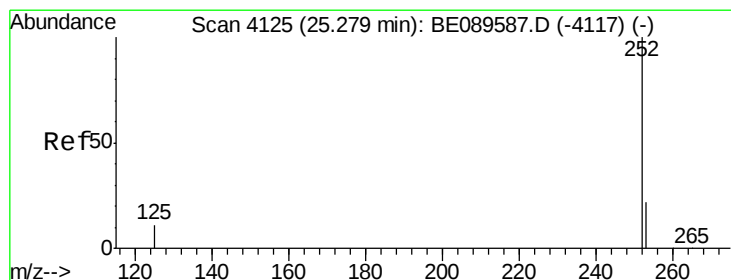
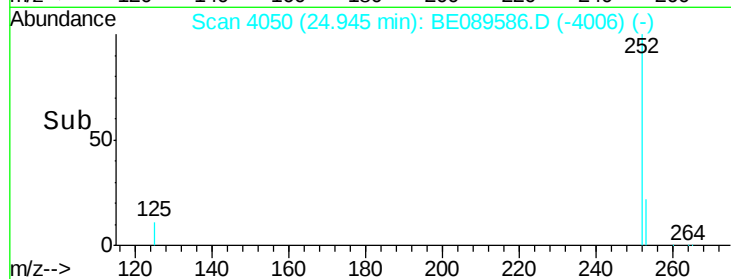
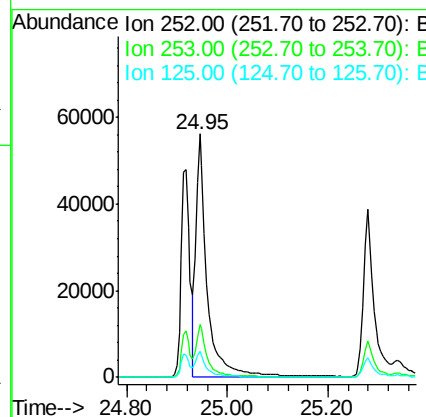
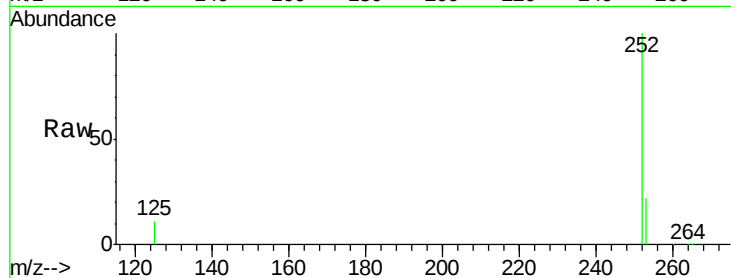




#27
Benzo(k)fluoranthene
Concen: 2.18 ng
RT: 24.95 min Scan# 4050
Delta R.T. -0.00 min
Lab File: BE089586.D
Acq: 17 Feb 2015 2:59

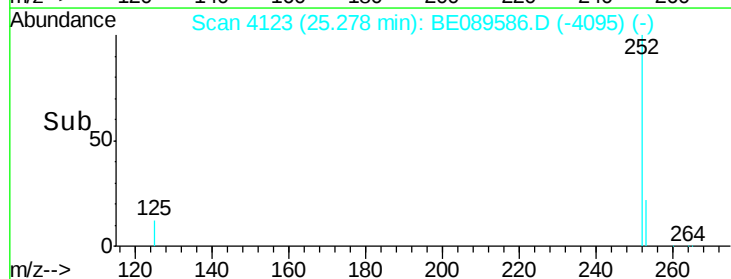
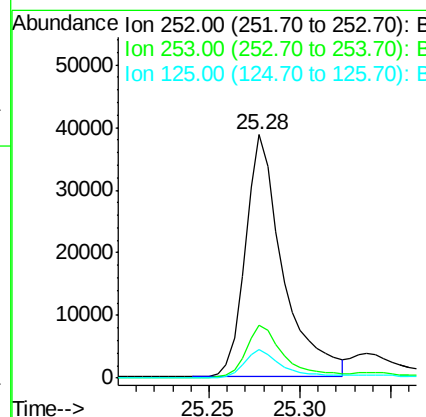
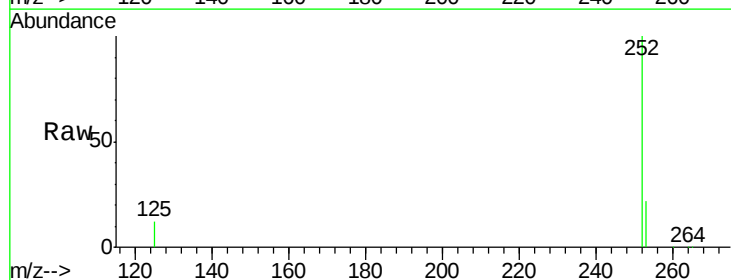
Instrument :
BNA_E
ClientSampleId :

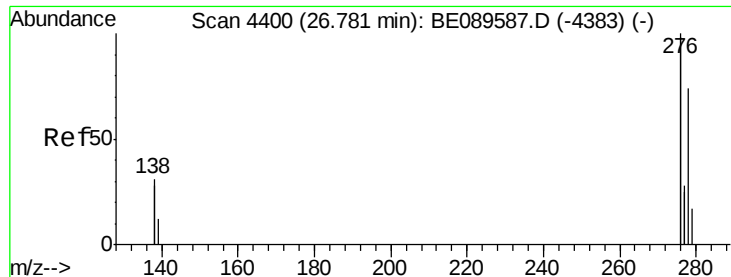
Tot Ion:252 Resp: 86185
Ion Ratio Lower Upper
252 100
253 21.8 17.9 26.9
125 10.8 8.6 13.0



#28
Benzo(a)pyrene
Concen: 2.37 ng
RT: 25.28 min Scan# 4123
Delta R.T. -0.00 min
Lab File: BE089586.D
Acq: 17 Feb 2015 2:59

Tgt Ion:252 Resp: 55352
Ion Ratio Lower Upper
252 100
253 21.7 17.7 26.5
125 11.8 9.6 14.4





#29

Dibenzo(a,h)anthracene

Concen: 2.48 ng

RT: 26.78 min Scan# 4398

Delta R.T. -0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

Instrument :

BNA_E

ClientSampleId :

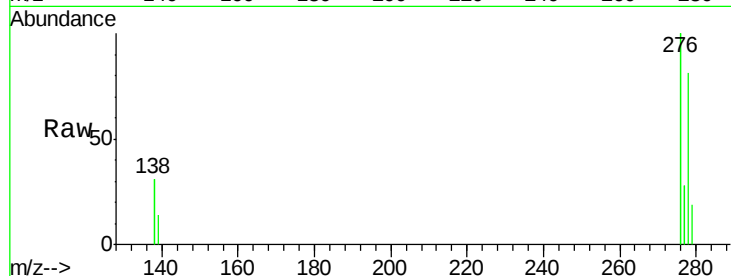
Tot Ion:278 Resp: 59214

Ion Ratio Lower Upper

278 100

139 17.3 13.9 20.9

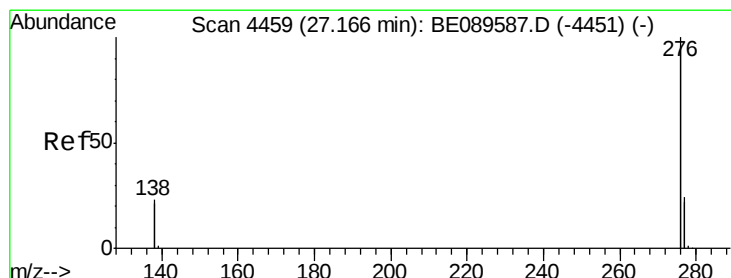
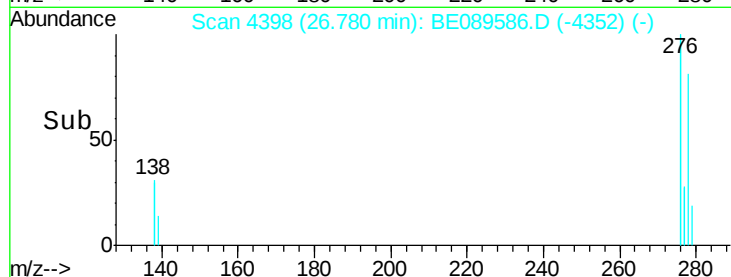
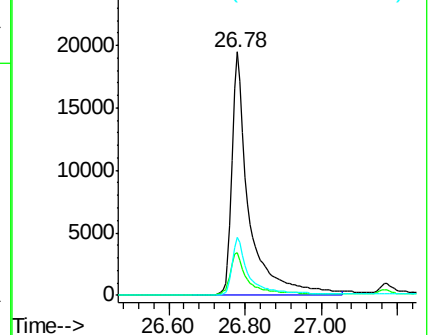
279 23.9 19.5 29.3



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: 2.28 ng

RT: 27.16 min Scan# 4457

Delta R.T. -0.00 min

Lab File: BE089586.D

Acq: 17 Feb 2015 2:59

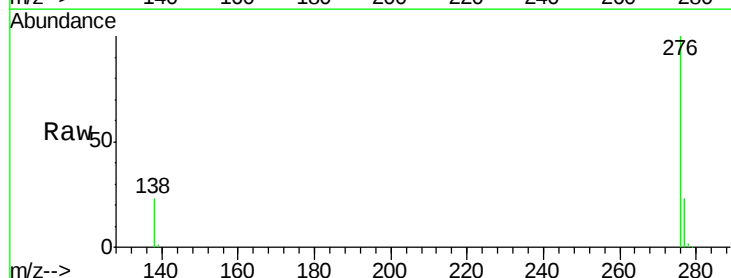
Tgt Ion:276 Resp: 265939

Ion Ratio Lower Upper

276 100

277 23.2 19.1 28.7

138 23.3 18.5 27.7



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

