

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022615\
 Data File : BE089698.D
 Acq On : 26 Feb 2015 19:30
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Quant Time: Feb 27 01:17:28 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 14:06:35 2015
 Response via : Initial Calibration

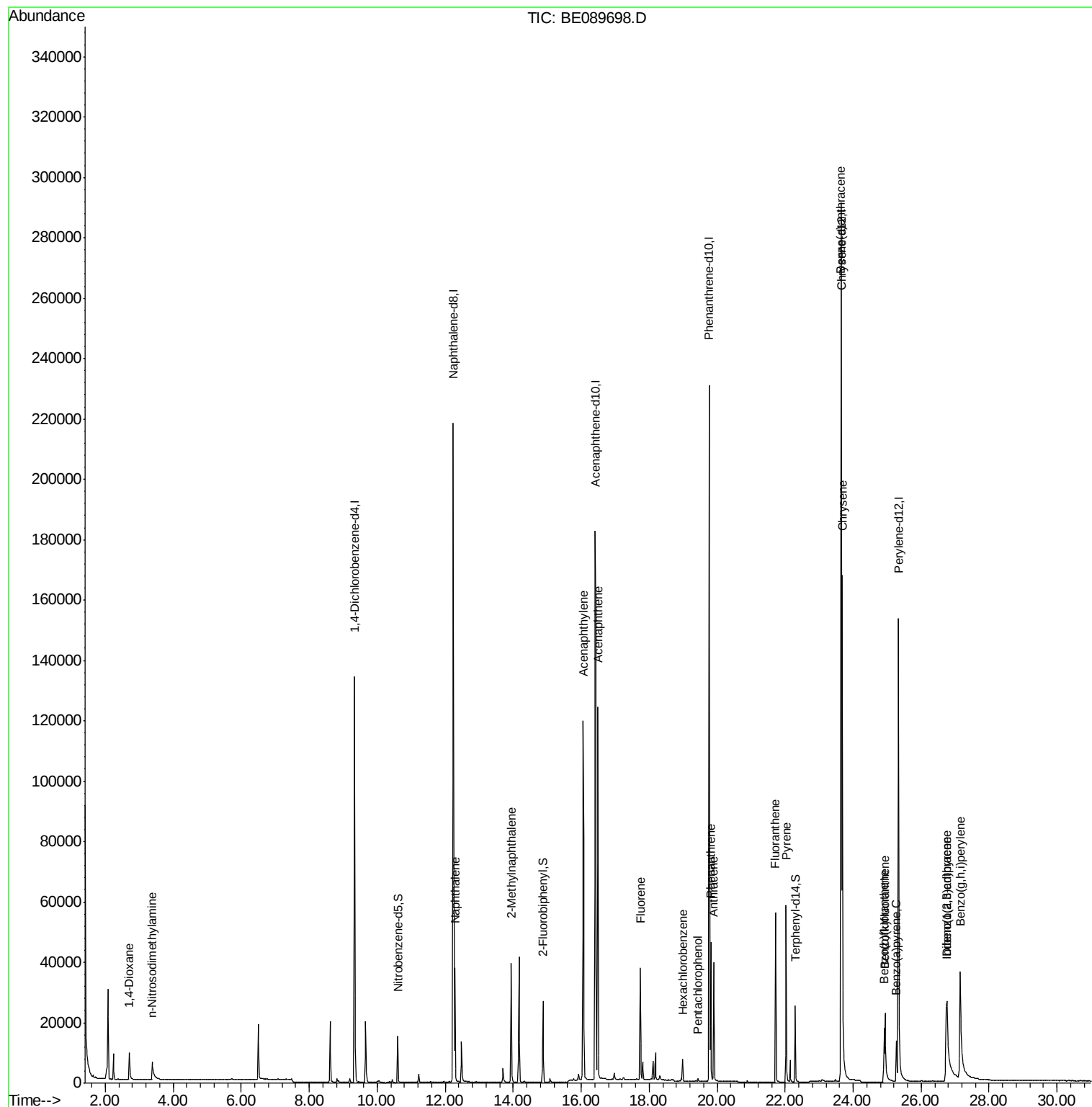
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	59527	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	254474	5.00	ng	0.00
8) Acenaphthene-d10	16.41	164	118367	5.00	ng	0.00
13) Phenanthrene-d10	19.76	188	218752	5.00	ng	0.00
19) Chrysene-d12	23.65	240	184858	5.00	ng	0.00
25) Perylene-d12	25.33	264	149783	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	11483	0.93	ng	0.00
9) 2-Fluorobiphenyl	14.87	172	24416	0.91	ng	0.00
21) Terphenyl-d14	22.30	244	22273	1.03	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.71	88	6227	0.83	ng	97
3) n-Nitrosodimethylamine	3.36	42	8205	0.89	ng	# 98
6) Naphthalene	12.28	128	45032	0.91	ng	99
7) 2-Methylnaphthalene	13.94	142	26494	0.95	ng	100
10) Acenaphthylene	16.06	152	155840	0.92	ng	100
11) Acenaphthene	16.49	154	24085	0.89	ng	99
12) Fluorene	17.74	166	27019	0.91	ng	100
14) Hexachlorobenzene	18.99	284	5037	0.89	ng	97
15) Pentachlorophenol	19.43	266	710	1.29	ng	98
16) Phenanthrene	19.81	178	42026	0.90	ng	100
17) Anthracene	19.90	178	36462	0.92	ng	100
18) Fluoranthene	21.72	202	39102	1.00	ng	98
20) Pyrene	22.03	202	41379	0.93	ng	100
22) Benzo(a)anthracene	23.64	228	130839	1.08	ng	96
23) Chrysene	23.68	228	145335	0.87	ng	98
24) Indeno(1,2,3-cd)pyrene	26.74	276	82696	1.50	ng	# 47
26) Benzo(b)fluoranthene	24.91	252	16900	1.57	ng	97
27) Benzo(k)fluoranthene	24.94	252	35195	1.00	ng	98
28) Benzo(a)pyrene	25.27	252	17333	1.36	ng	96
29) Dibenzo(a,h)anthracene	26.77	278	15765	1.51	ng	# 87
30) Benzo(g,h,i)perylene	27.15	276	77881	1.17	ng	93

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

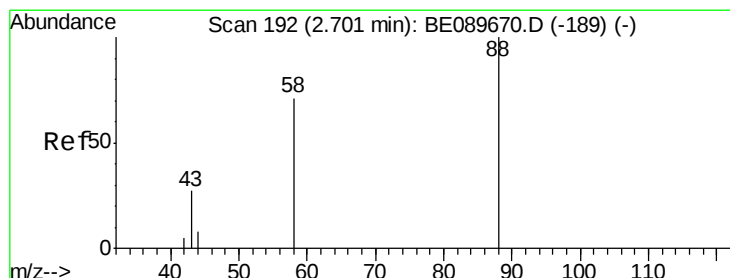
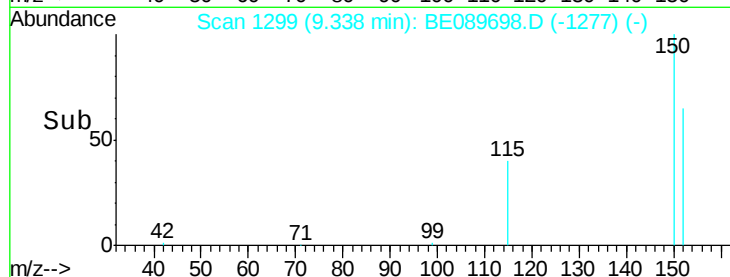
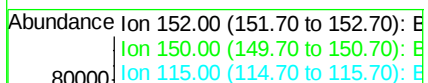
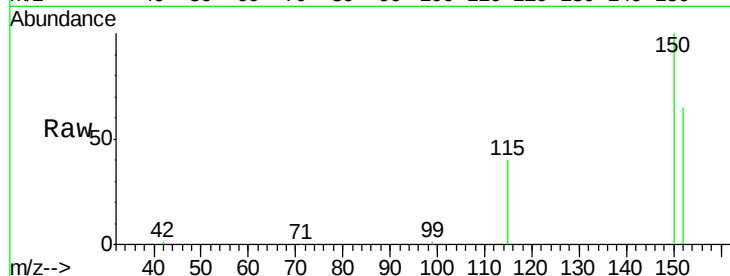
Tgt Ion:152 Resp: 59527

Ion Ratio Lower Upper

152 100

150 153.8 123.4 185.0

115 61.0 50.8 76.2



#2

1,4-Dioxane

Concen: 0.83 ng

RT: 2.71 min Scan# 193

Delta R.T. 0.01 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

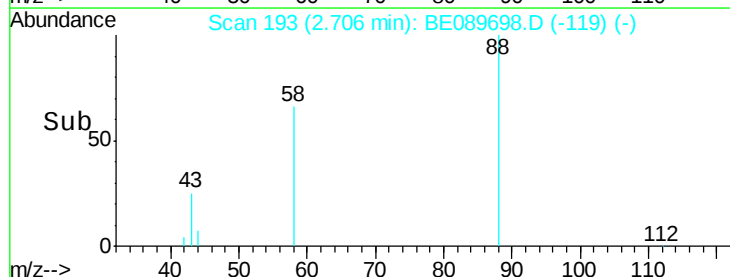
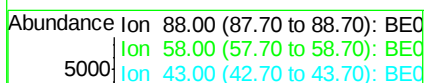
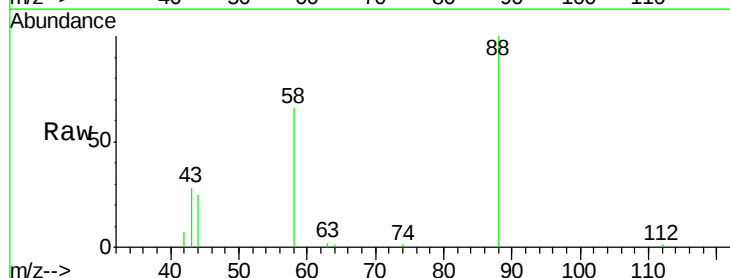
Tgt Ion: 88 Resp: 6227

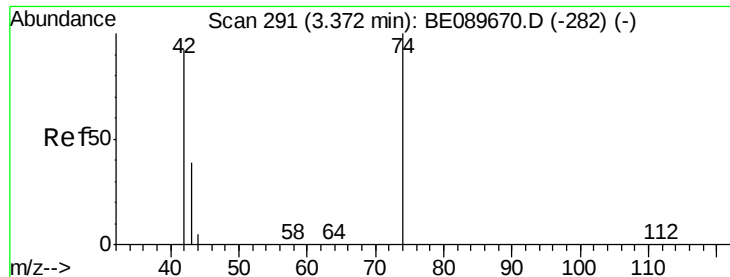
Ion Ratio Lower Upper

88 100

58 74.6 62.4 93.6

43 32.8 26.6 40.0





#3

n-Nitrosodimethylamine

Concen: 0.89 ng

RT: 3.36 min Scan# 290

Delta R.T. -0.01 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

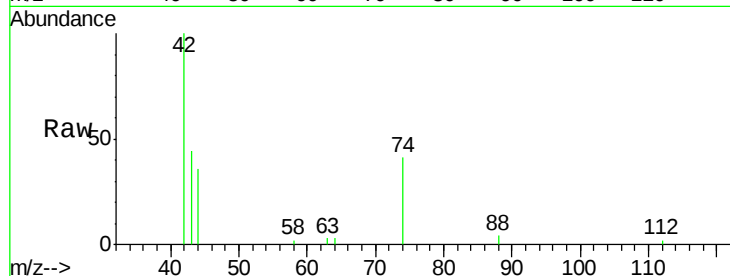
Tgt Ion: 42 Resp: 8205

Ion Ratio Lower Upper

42 100

74 112.1 91.1 136.7

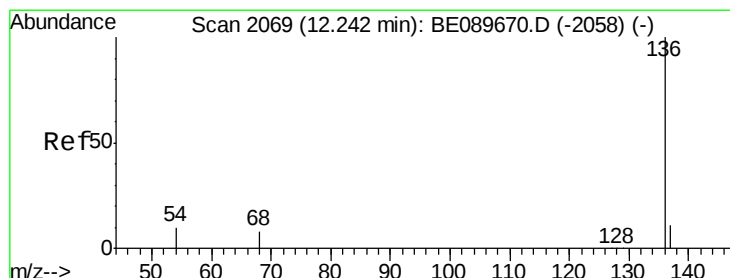
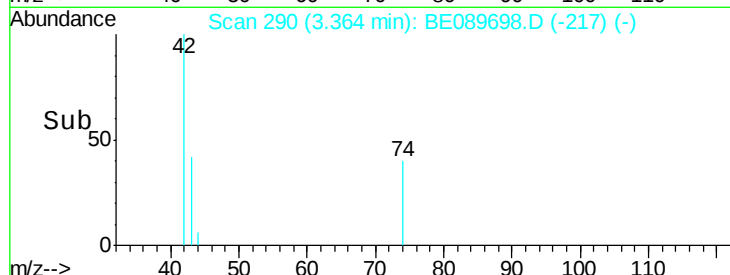
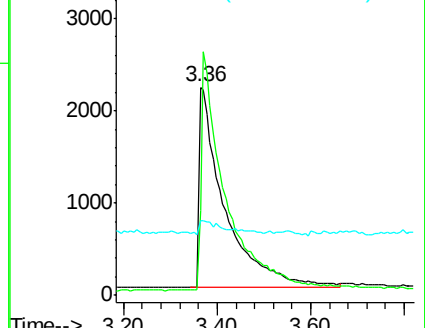
44 4.7 4.7 7.1#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 12.24 min Scan# 2068

Delta R.T. -0.01 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

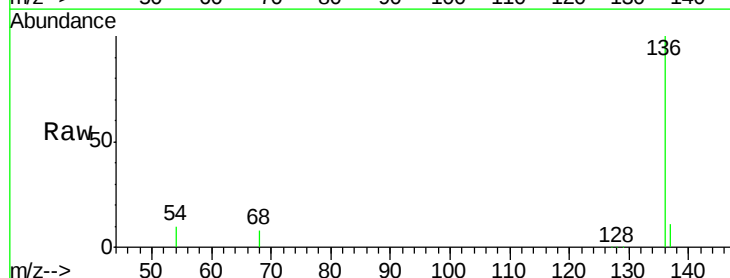
Tgt Ion: 136 Resp: 254474

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

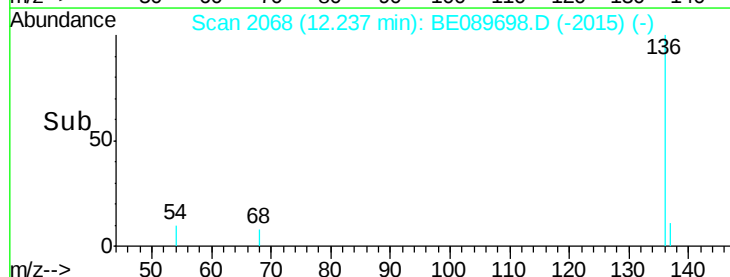
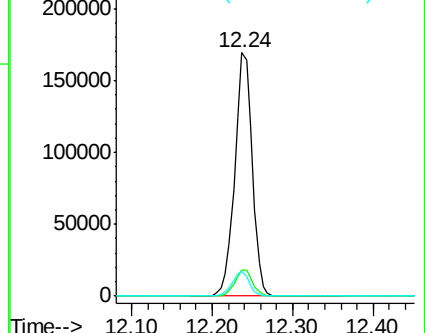
54 10.0 7.8 11.8

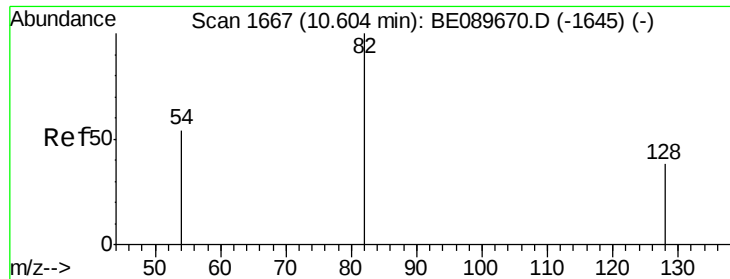


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 0.93 ng

RT: 10.60 min Scan# 1666

Delta R.T. -0.00 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

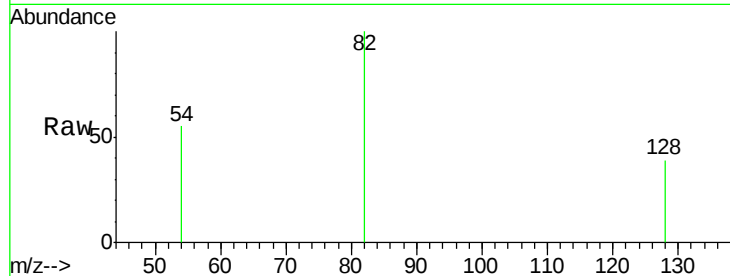
Tgt Ion: 82 Resp: 11483

Ion Ratio Lower Upper

82 100

128 39.4 30.6 46.0

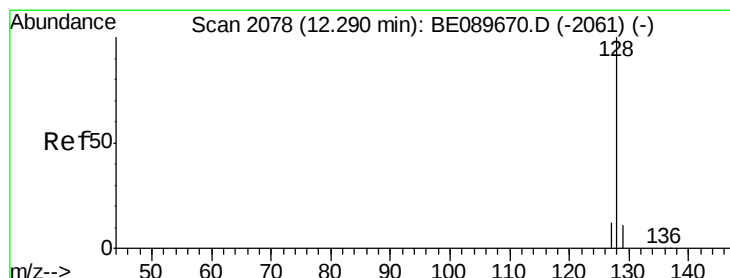
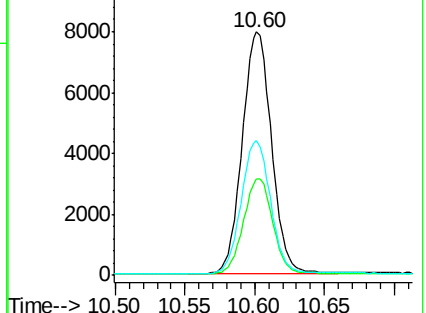
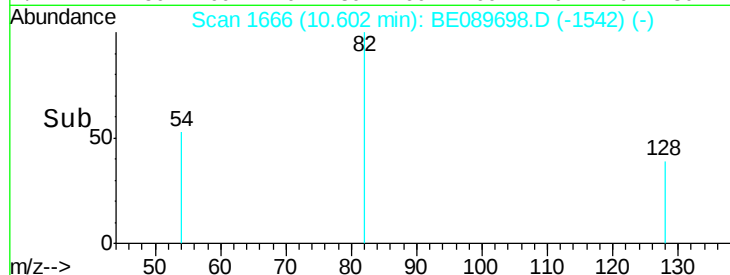
54 55.4 43.6 65.4



Abundance Ion 82.00 (81.70 to 82.70): BE089698.D (-1542) (-)

Ion 128.00 (127.70 to 128.70): BE089698.D (-1542) (-)

Ion 54.00 (53.70 to 54.70): BE089698.D (-1542) (-)



#6

Naphthalene

Concen: 0.91 ng

RT: 12.28 min Scan# 2077

Delta R.T. -0.01 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

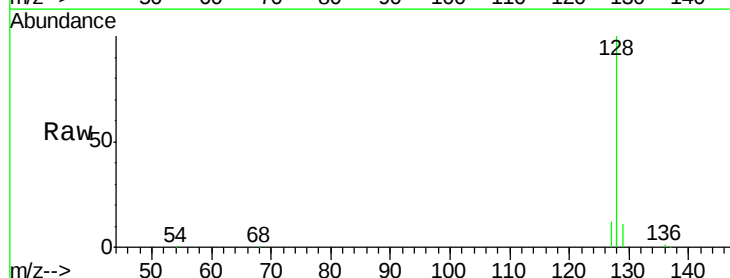
Tgt Ion: 128 Resp: 45032

Ion Ratio Lower Upper

128 100

129 10.9 8.9 13.3

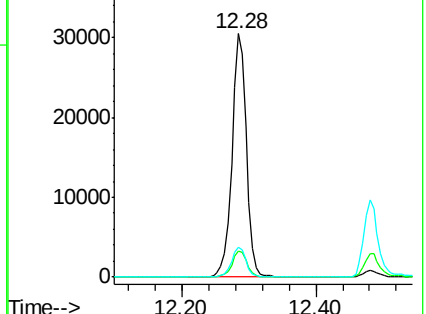
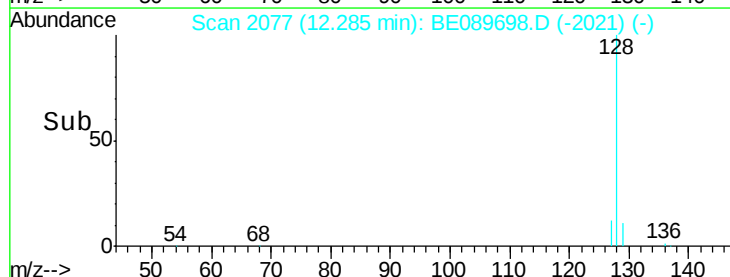
127 12.5 9.7 14.5



Abundance Ion 128.00 (127.70 to 128.70): BE089698.D (-2021) (-)

Ion 129.00 (128.70 to 129.70): BE089698.D (-2021) (-)

Ion 127.00 (126.70 to 127.70): BE089698.D (-2021) (-)





#7

2-Methylnaphthalene

Concen: 0.95 ng

RT: 13.94 min Scan# 2416

Delta R.T. -0.00 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

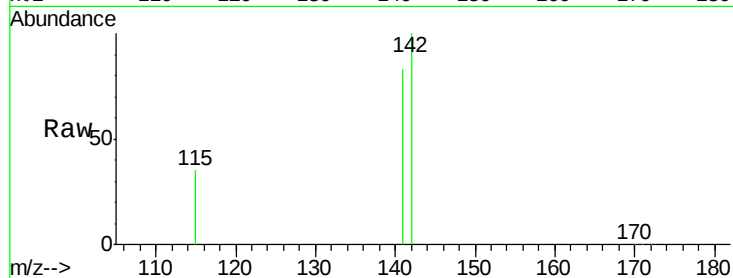
Tgt Ion:142 Resp: 26494

Ion Ratio Lower Upper

142 100

141 82.7 66.0 99.0

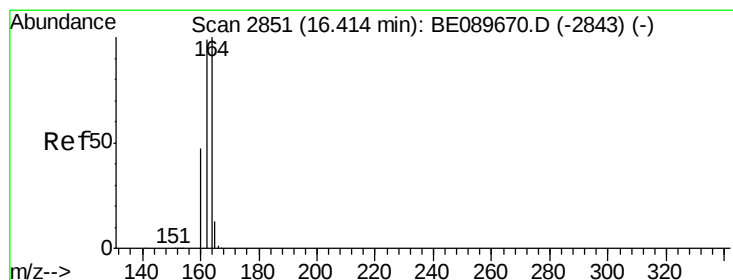
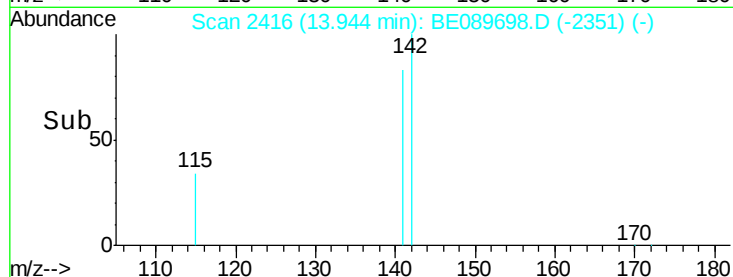
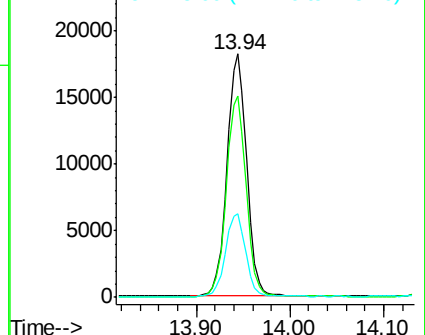
115 34.6 27.4 41.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.41 min Scan# 2851

Delta R.T. -0.00 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

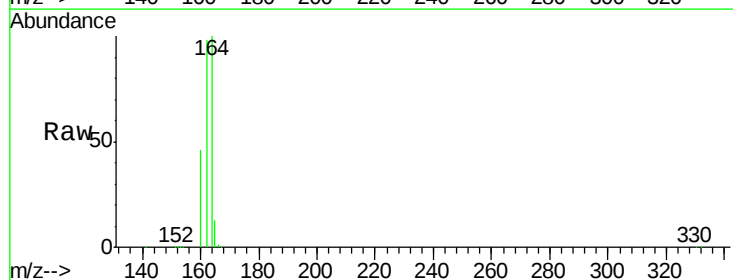
Tgt Ion:164 Resp: 118367

Ion Ratio Lower Upper

164 100

162 97.7 79.4 119.2

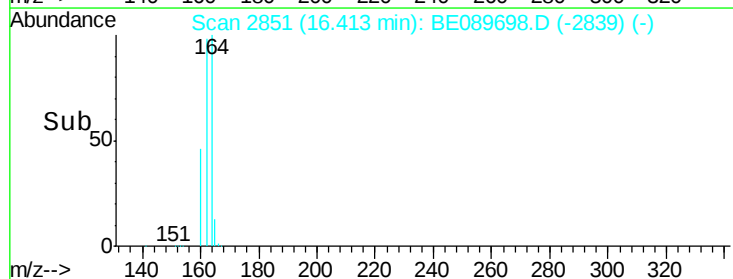
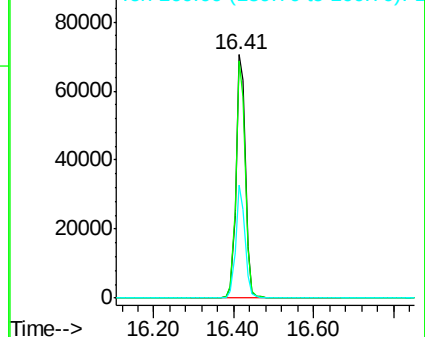
160 46.3 37.6 56.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.91 ng

RT: 14.87 min Scan# 2620

Delta R.T. -0.00 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

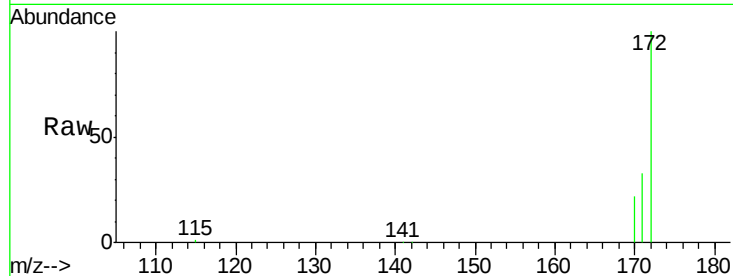
Tgt Ion:172 Resp: 24416

Ion Ratio Lower Upper

172 100

171 33.1 27.3 40.9

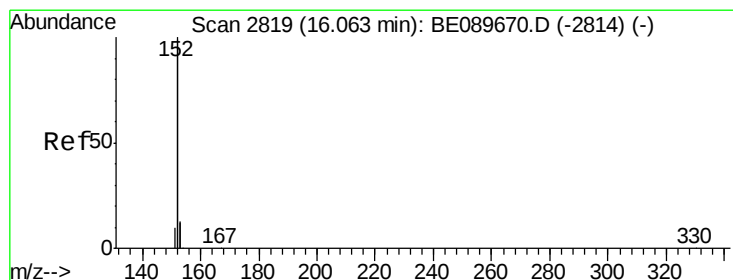
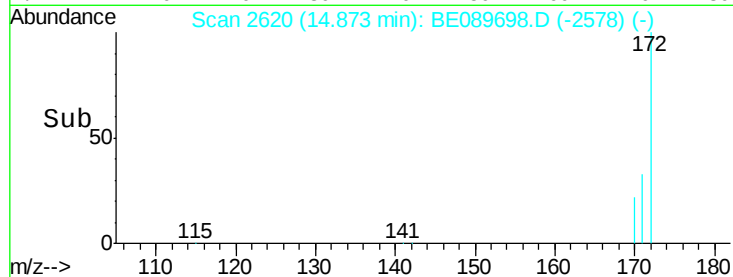
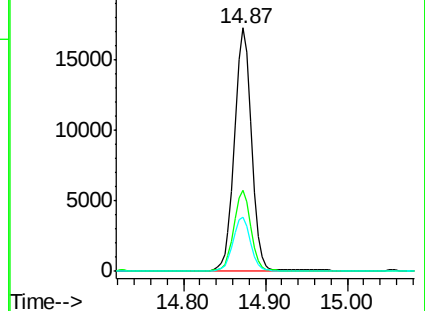
170 22.4 18.5 27.7



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#10

Acenaphthylene

Concen: 0.92 ng

RT: 16.06 min Scan# 2819

Delta R.T. -0.00 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

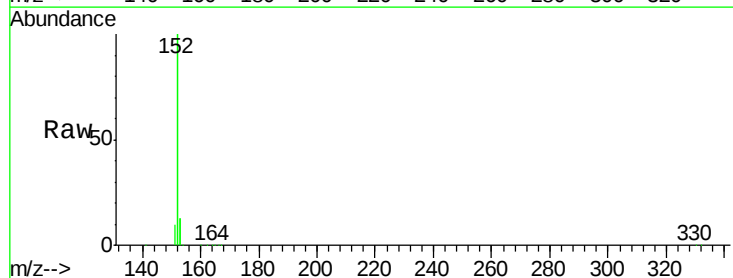
Tgt Ion:152 Resp: 155840

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.6

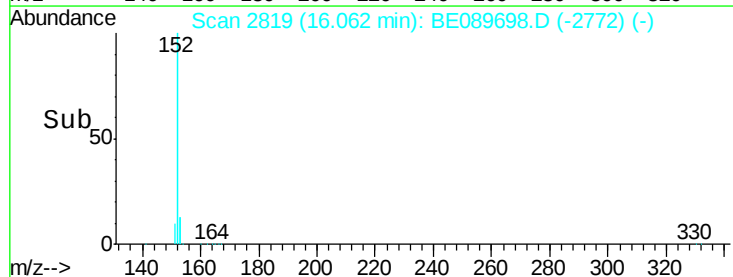
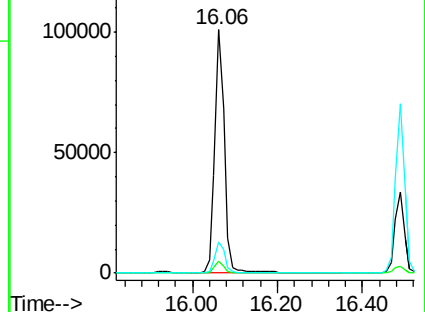
153 12.9 10.4 15.6

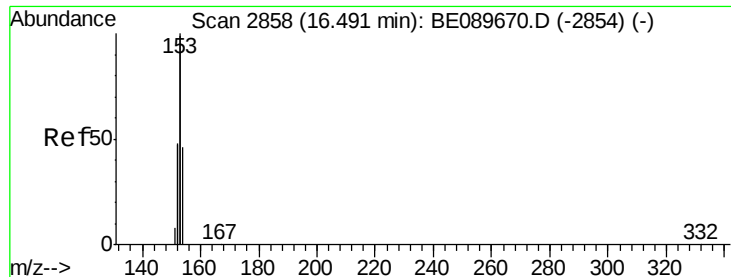


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.89 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

Instrument :

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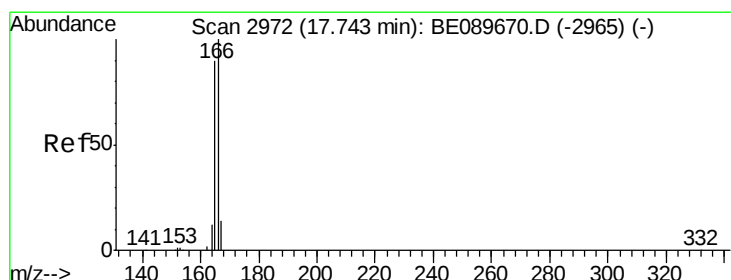
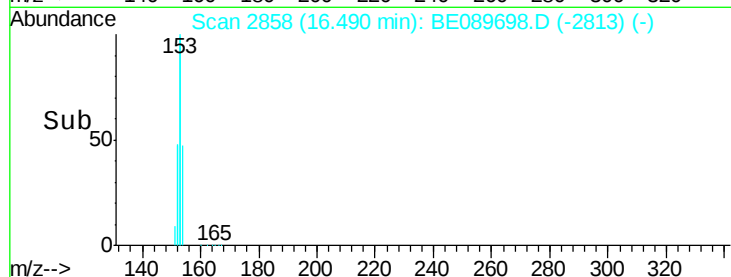
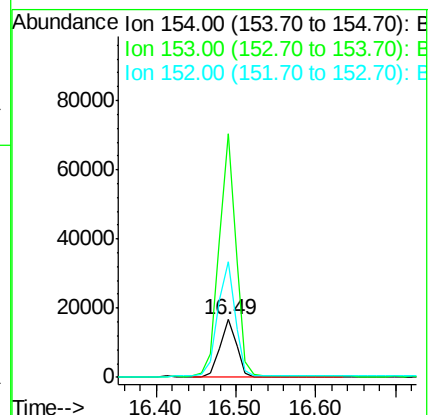
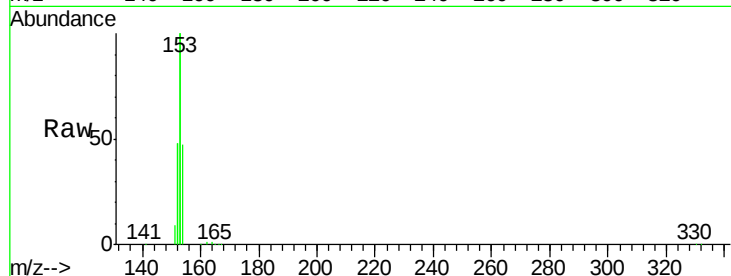
Tgt Ion:154 Resp: 24085

Ion Ratio Lower Upper

154 100

153 431.3 345.8 518.8

152 209.6 168.6 252.8



#12

Fluorene

Concen: 0.91 ng

RT: 17.74 min Scan# 2972

Delta R.T. -0.00 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

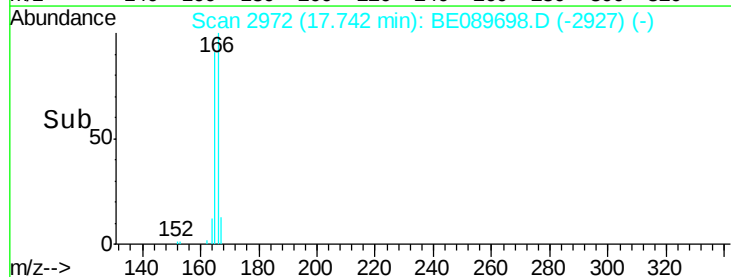
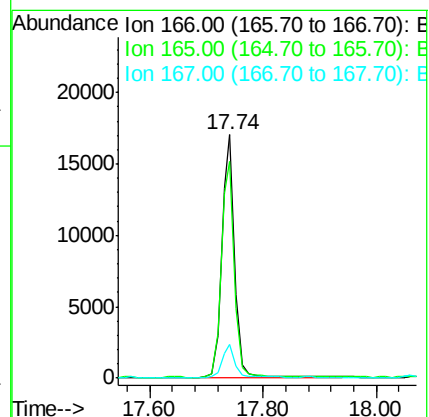
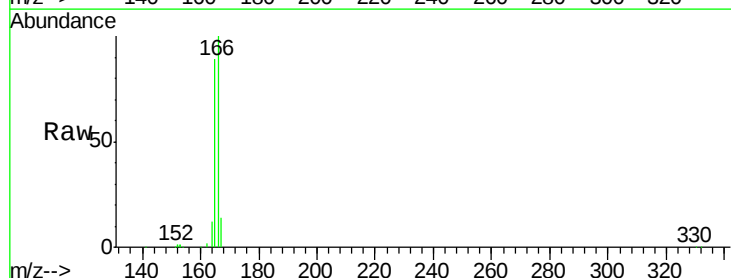
Tgt Ion:166 Resp: 27019

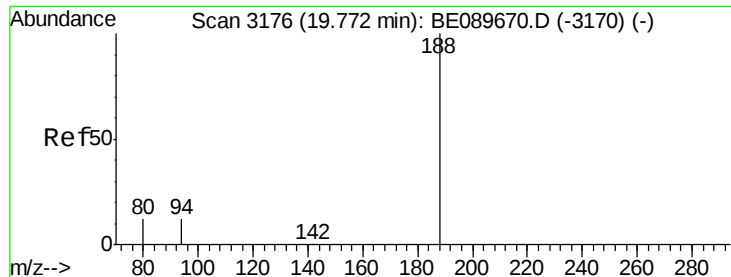
Ion Ratio Lower Upper

166 100

165 92.2 73.6 110.4

167 13.2 10.6 16.0





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.76 min Scan# 3175

Delta R.T. -0.01 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

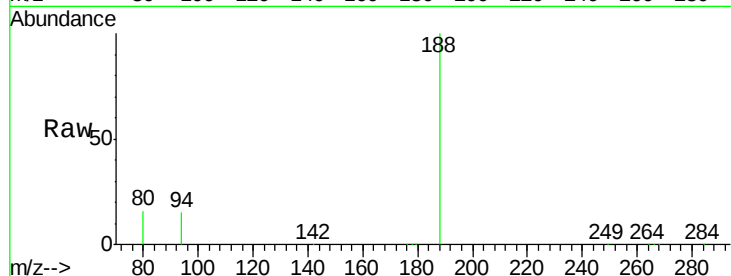
Tgt Ion:188 Resp: 218752

Ion Ratio Lower Upper

188 100

94 15.3 9.4 14.2#

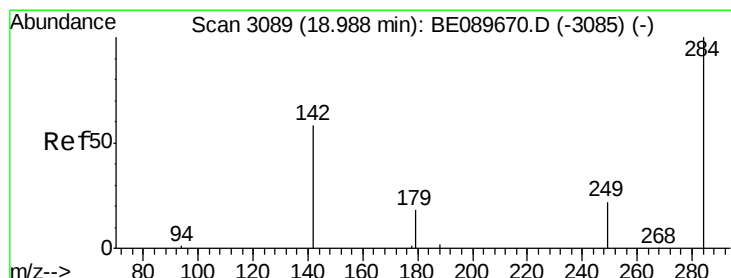
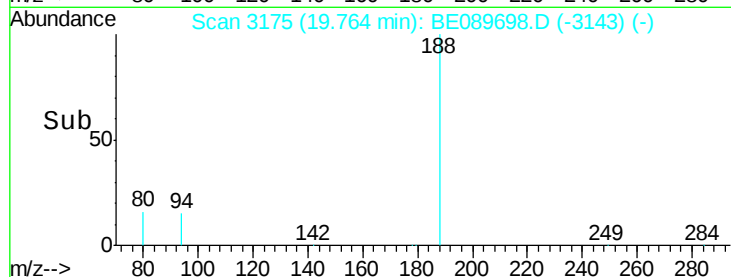
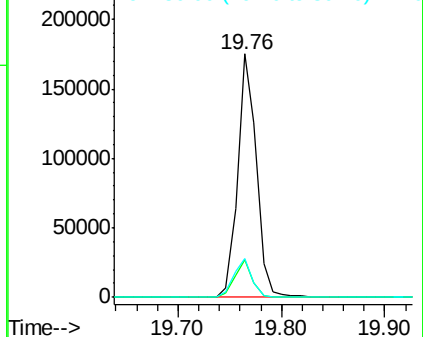
80 16.0 9.5 14.3#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#14

Hexachlorobenzene

Concen: 0.89 ng

RT: 18.99 min Scan# 3089

Delta R.T. 0.00 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

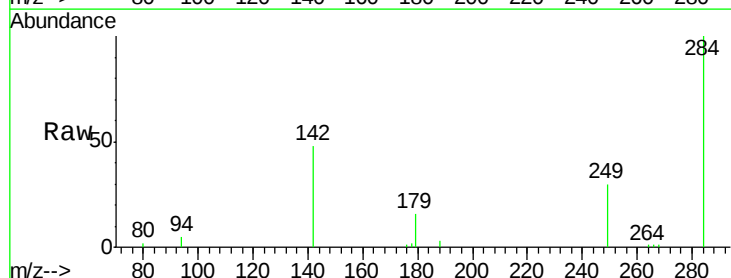
Tgt Ion:284 Resp: 5037

Ion Ratio Lower Upper

284 100

142 67.5 55.4 83.2

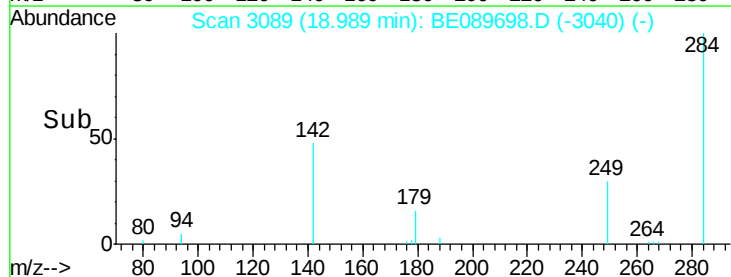
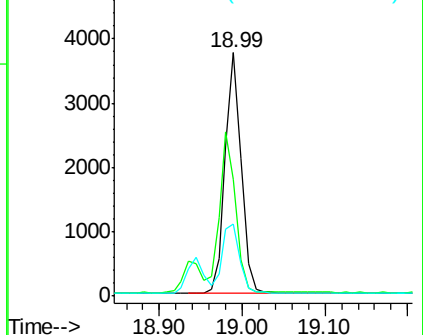
249 31.3 27.2 40.8



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

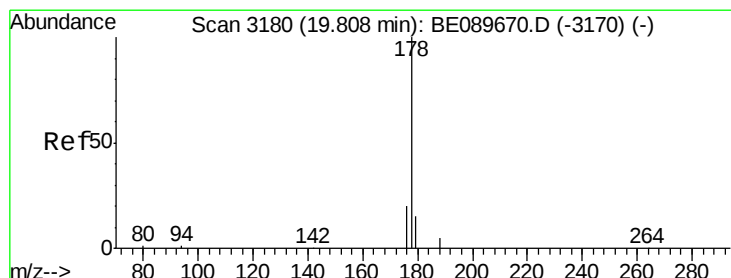
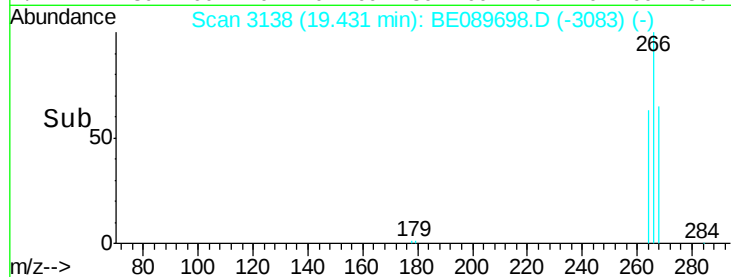
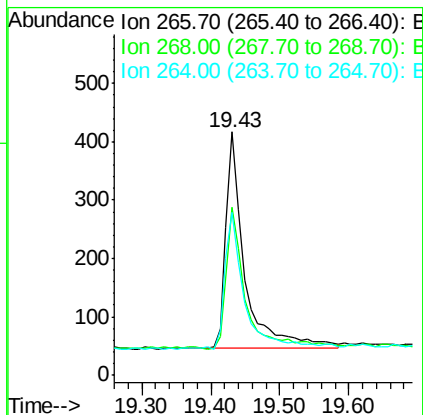
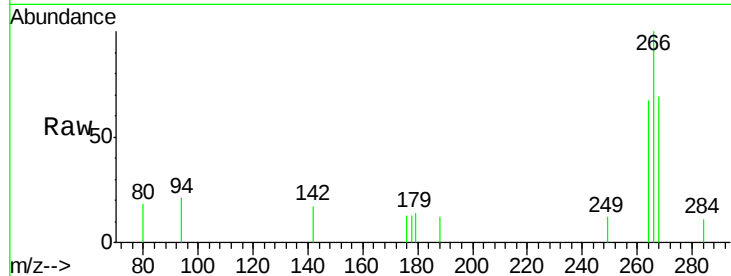




#15
Pentachlorophenol
Concen: 1.29 ng
RT: 19.43 min Scan# 3138
Delta R.T. -0.01 min
Lab File: BE089698.D
Acq: 26 Feb 2015 19:30

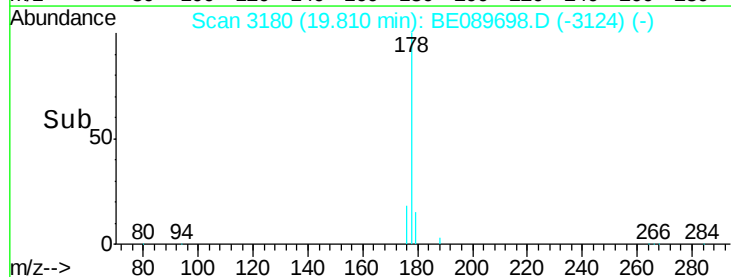
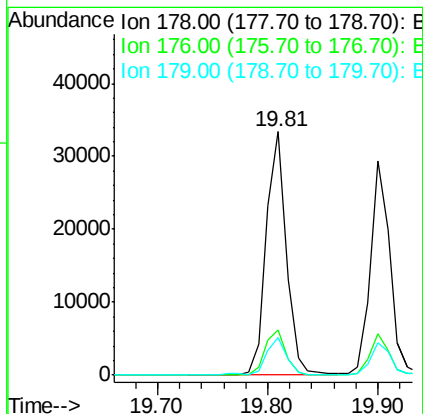
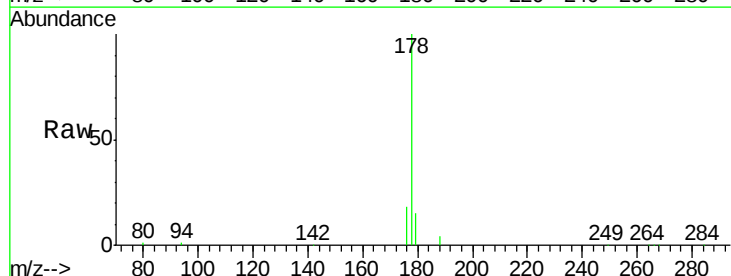
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

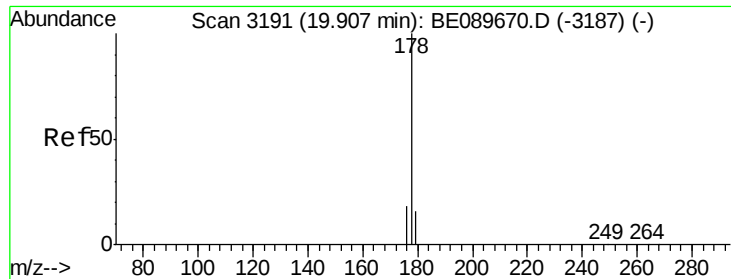
Tgt Ion: 266 Resp: 710
Ion Ratio Lower Upper
266 100
268 68.8 56.3 84.5
264 66.9 51.8 77.8



#16
Phenanthrene
Concen: 0.90 ng
RT: 19.81 min Scan# 3180
Delta R.T. 0.00 min
Lab File: BE089698.D
Acq: 26 Feb 2015 19:30

Tgt Ion: 178 Resp: 42026
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.5 12.5 18.7

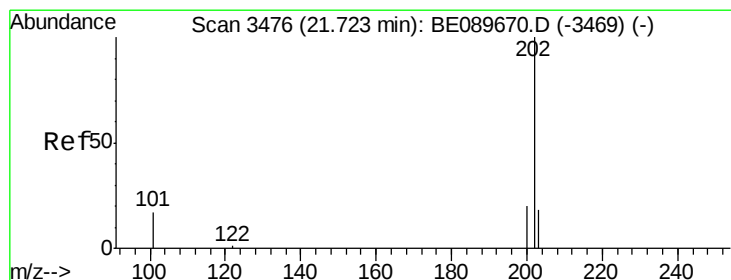
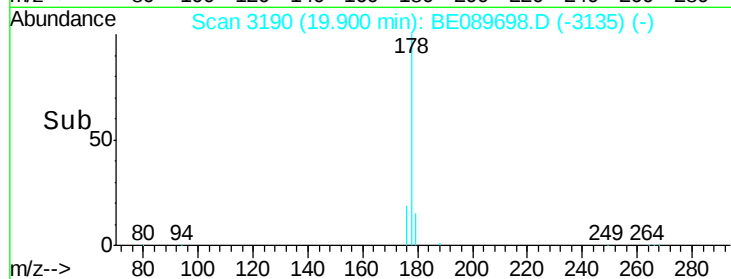
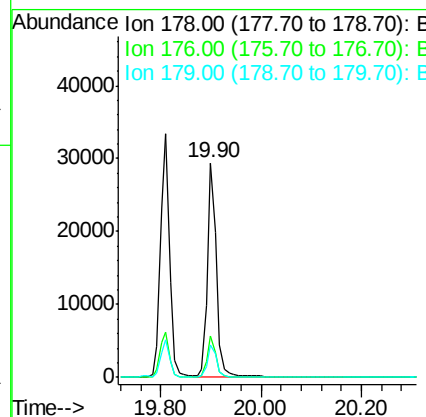
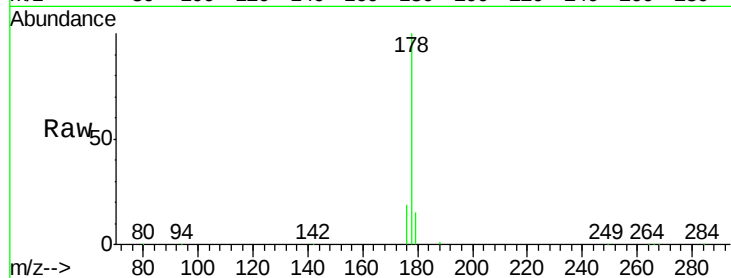




#17
 Anthracene
 Concen: 0.92 ng
 RT: 19.90 min Scan# 3190
 Delta R.T. -0.01 min
 Lab File: BE089698.D
 Acq: 26 Feb 2015 19:30

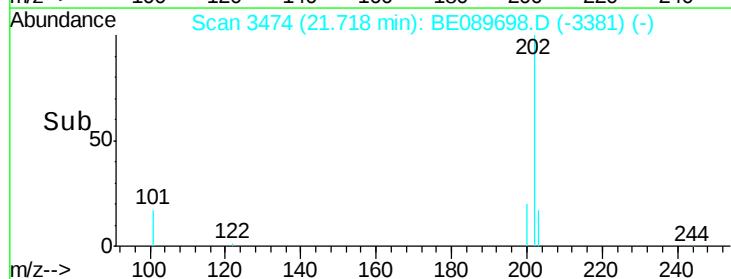
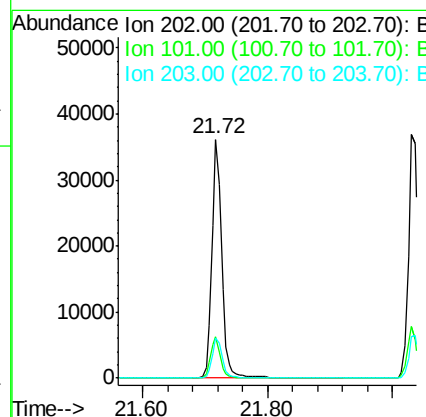
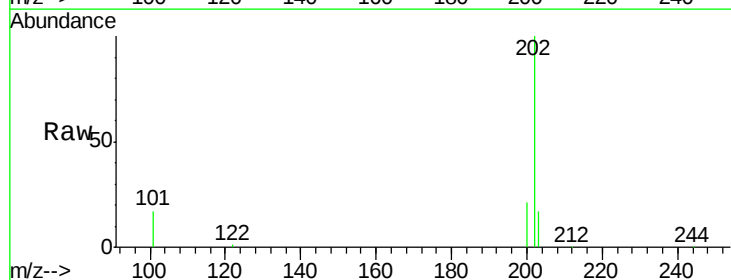
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

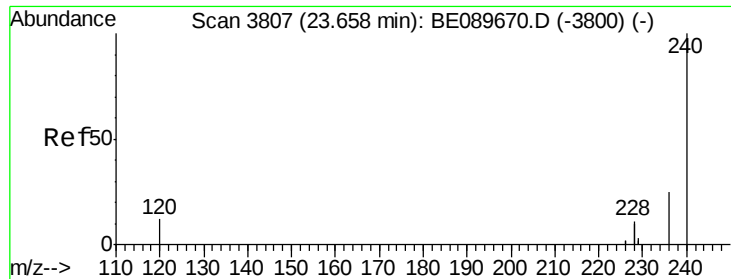
Tgt Ion:178 Resp: 36462
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.8 22.2
 179 15.1 12.2 18.2



#18
 Fluoranthene
 Concen: 1.00 ng
 RT: 21.72 min Scan# 3474
 Delta R.T. -0.01 min
 Lab File: BE089698.D
 Acq: 26 Feb 2015 19:30

Tgt Ion:202 Resp: 39102
 Ion Ratio Lower Upper
 202 100
 101 17.0 14.9 22.3
 203 17.3 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.65 min Scan# 3805

Delta R.T. -0.01 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

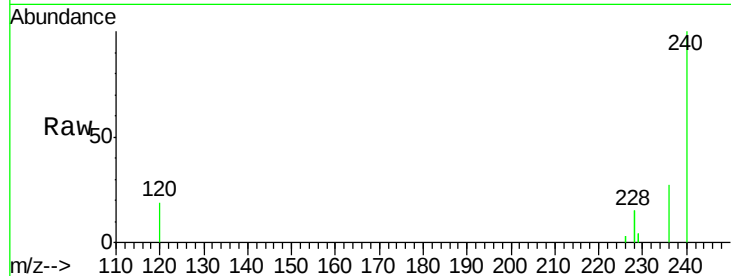
Tgt Ion:240 Resp: 184858

Ion Ratio Lower Upper

240 100

120 19.1 9.4 14.0#

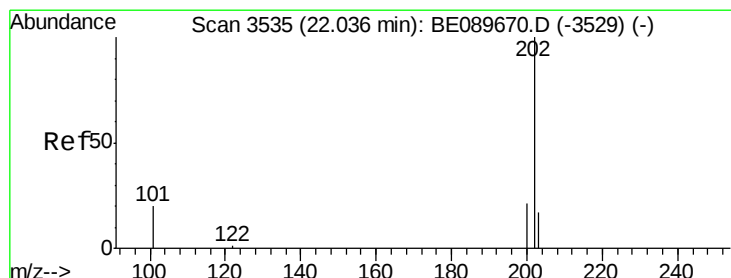
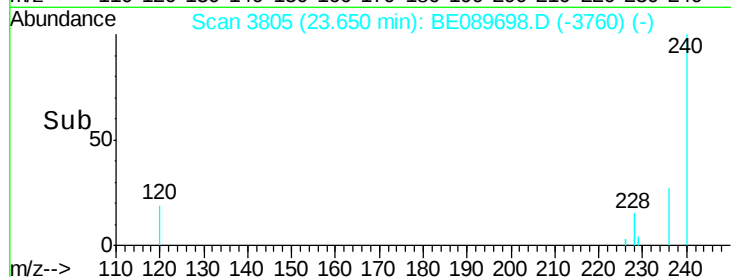
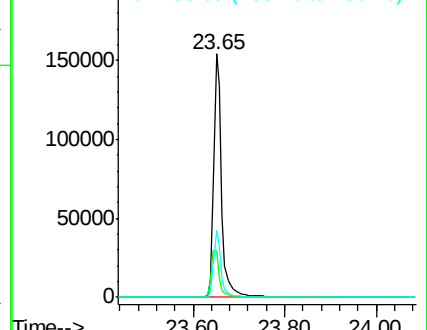
236 27.3 19.9 29.9



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 0.93 ng

RT: 22.03 min Scan# 3533

Delta R.T. -0.01 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

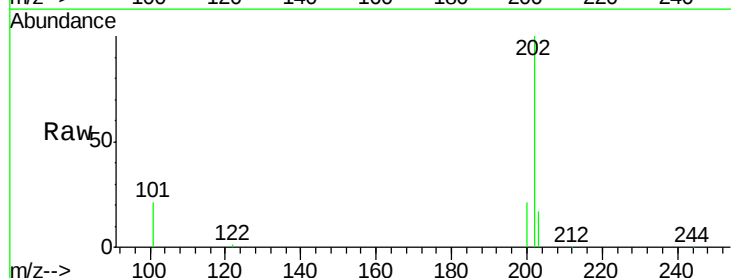
Tgt Ion:202 Resp: 41379

Ion Ratio Lower Upper

202 100

200 20.5 16.4 24.6

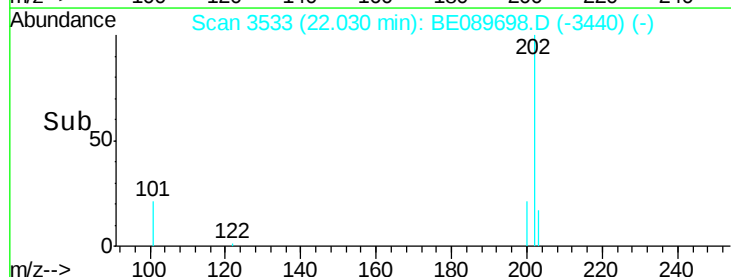
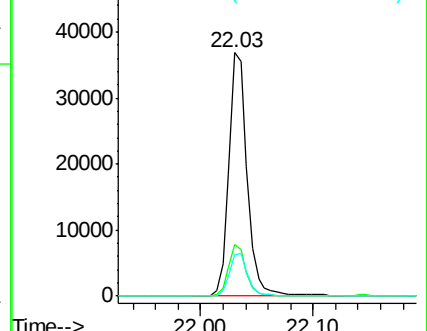
203 17.3 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 1.03 ng

RT: 22.30 min Scan# 3583

Delta R.T. -0.01 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

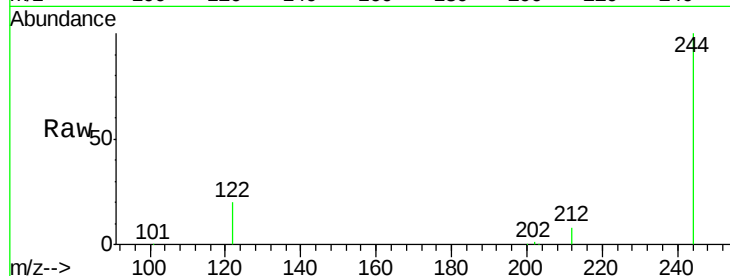
Tgt Ion:244 Resp: 22273

Ion Ratio Lower Upper

244 100

212 8.5 7.0 10.6

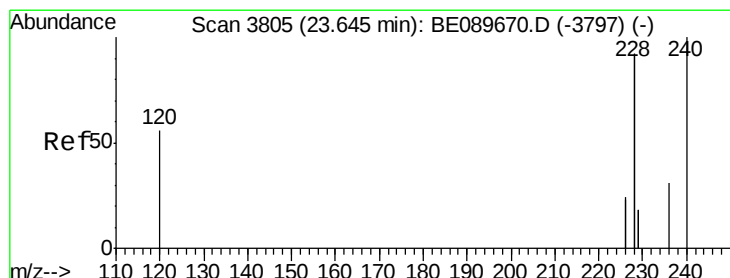
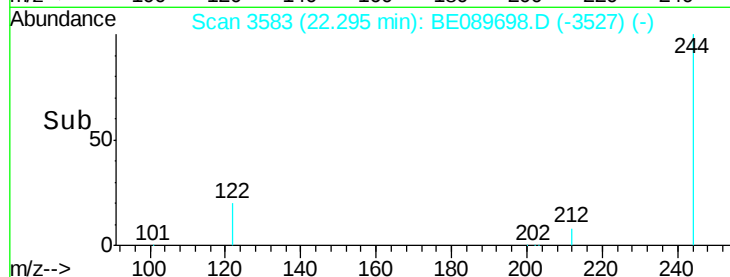
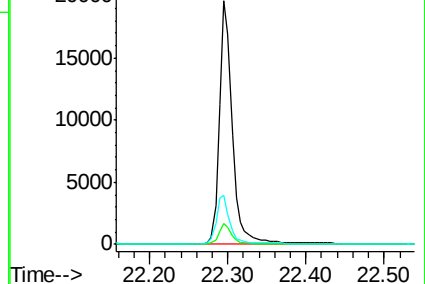
122 20.4 15.4 23.0



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 1.08 ng

RT: 23.64 min Scan# 3803

Delta R.T. -0.01 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

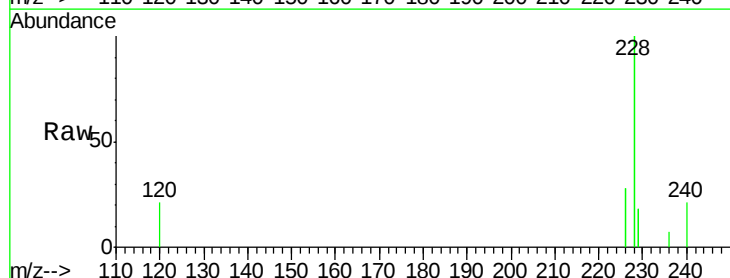
Tgt Ion:228 Resp: 130839

Ion Ratio Lower Upper

228 100

226 28.1 20.6 31.0

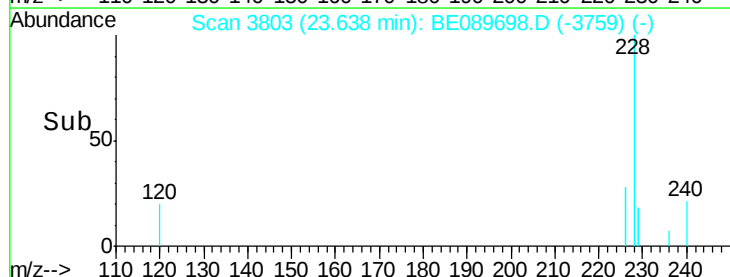
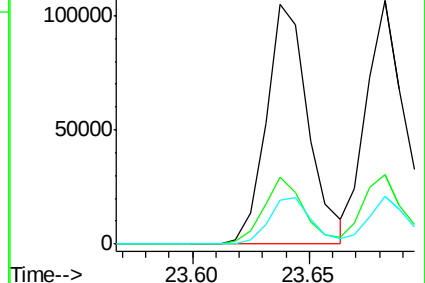
229 18.2 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.87 ng

RT: 23.68 min Scan# 3810

Delta R.T. -0.00 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

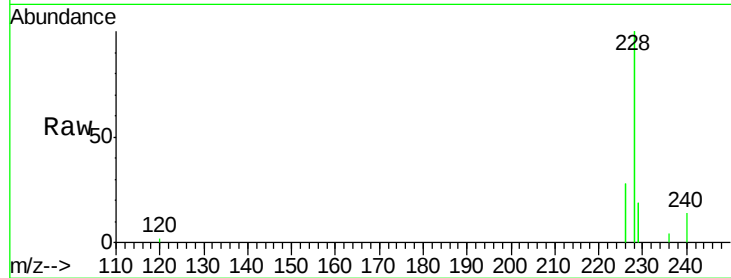
Tgt Ion: 228 Resp: 145335

Ion Ratio Lower Upper

228 100

226 28.4 23.6 35.4

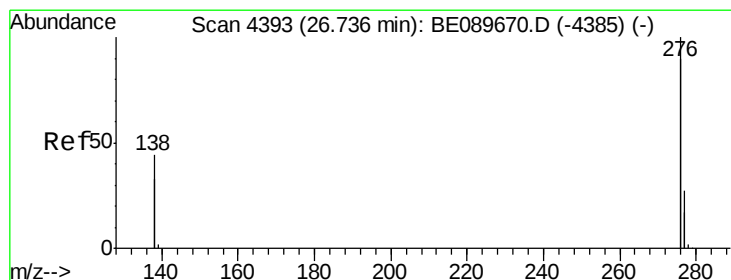
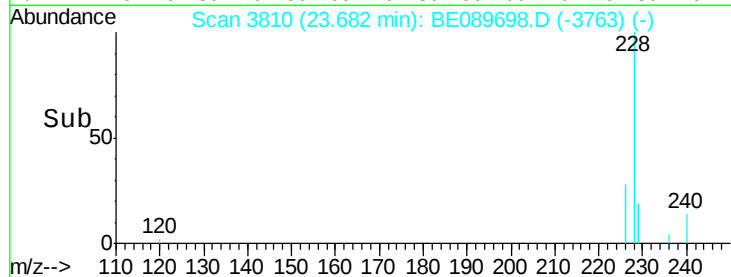
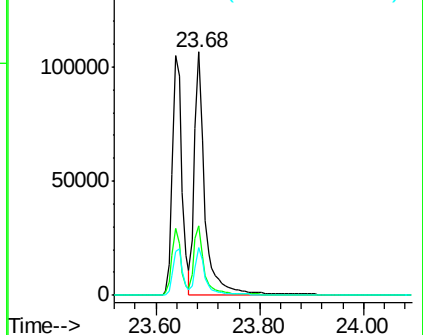
229 19.4 15.3 22.9



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: 1.50 ng

RT: 26.74 min Scan# 4393

Delta R.T. 0.01 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

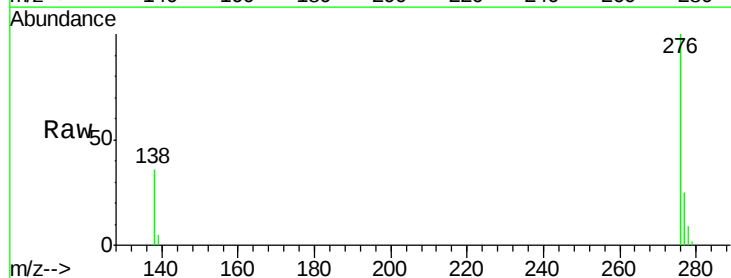
Tgt Ion: 276 Resp: 82696

Ion Ratio Lower Upper

276 100

138 40.3 0.0 0.0#

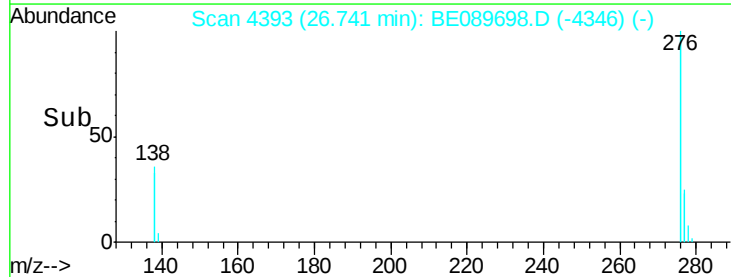
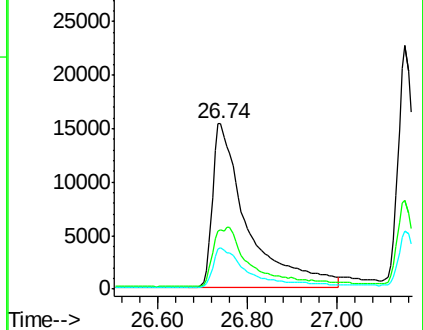
277 24.7 5.2 7.8#

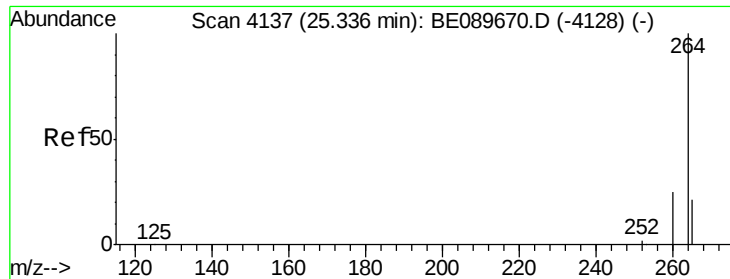


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



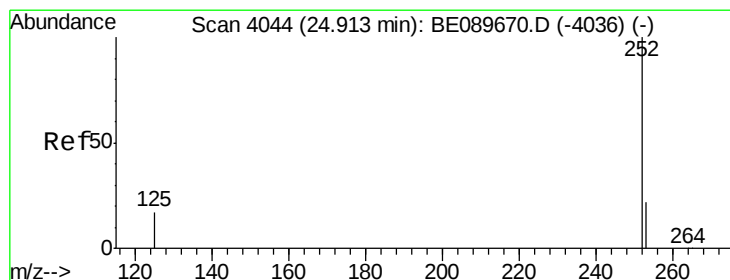
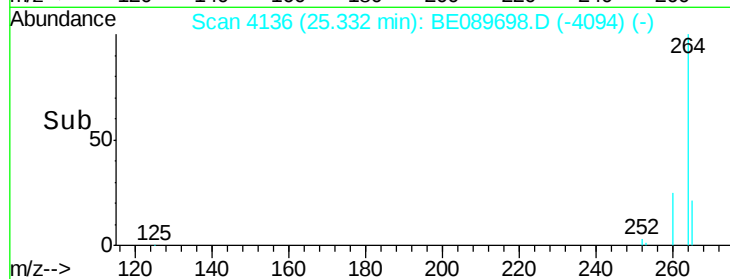
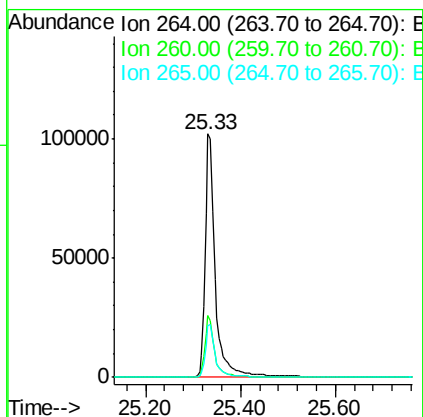
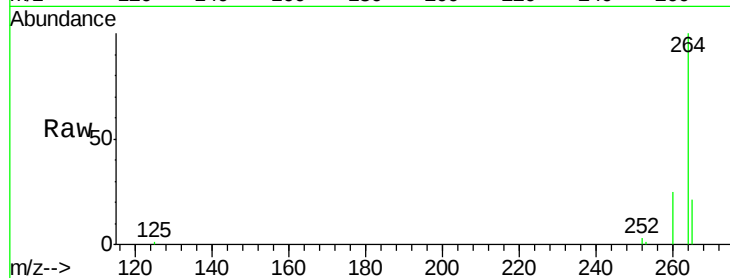


#25
Perylene-d12
Concen: 5.00 ng
RT: 25.33 min Scan# 4136
Delta R.T. -0.00 min
Lab File: BE089698.D
Acq: 26 Feb 2015 19:30

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

Tgt Ion: 264 Resp: 149783

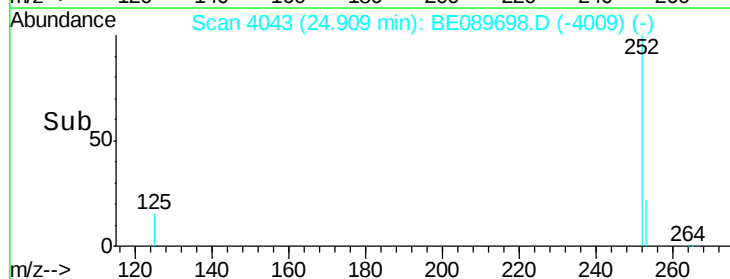
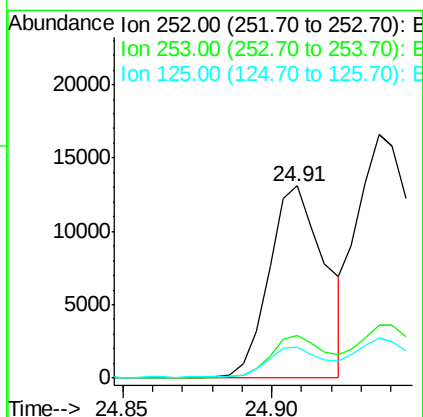
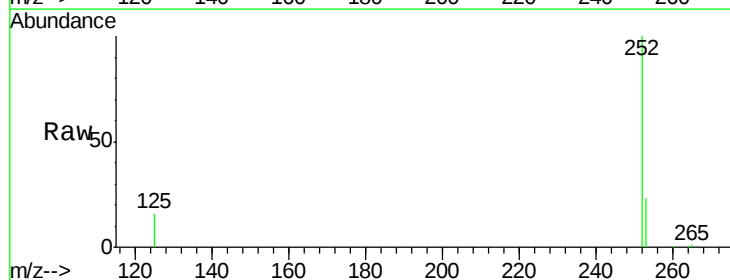
Ion	Ratio	Lower	Upper
264	100		
260	25.3	20.2	30.4
265	21.0	17.0	25.4



#26
Benzo(b)fluoranthene
Concen: 1.57 ng
RT: 24.91 min Scan# 4043
Delta R.T. -0.00 min
Lab File: BE089698.D
Acq: 26 Feb 2015 19:30

Tgt Ion: 252 Resp: 16900

Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.6	27.8
125	16.0	15.0	22.6

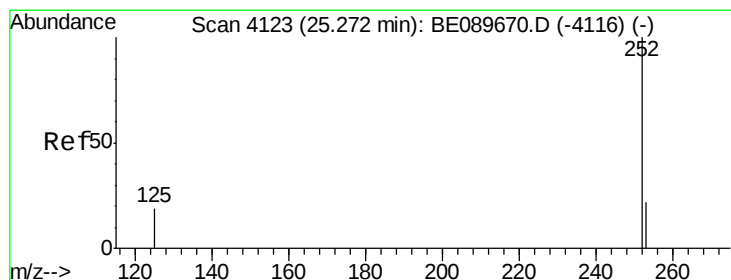
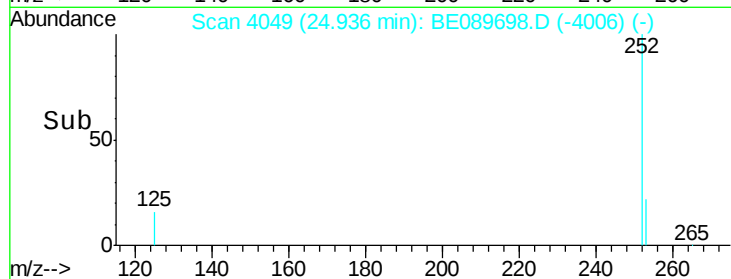
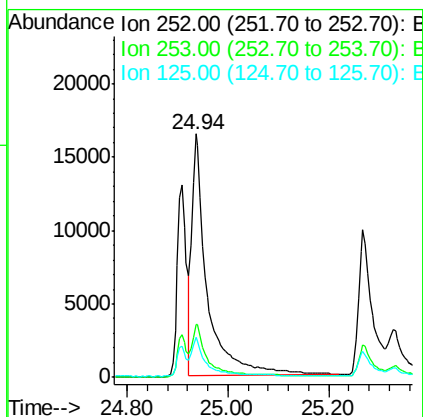
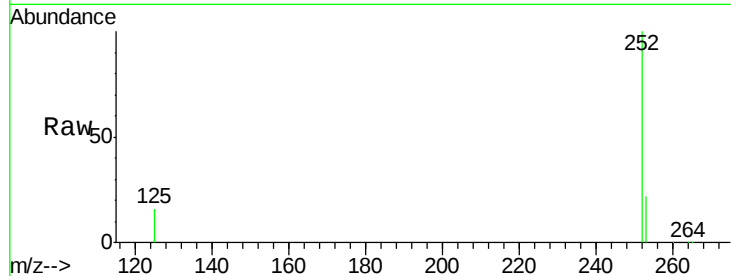




#27
Benzo(k)fluoranthene
Concen: 1.00 ng
RT: 24.94 min Scan# 4049
Delta R.T. -0.00 min
Lab File: BE089698.D
Acq: 26 Feb 2015 19:30

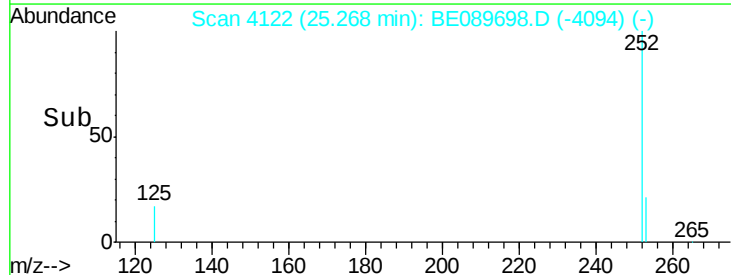
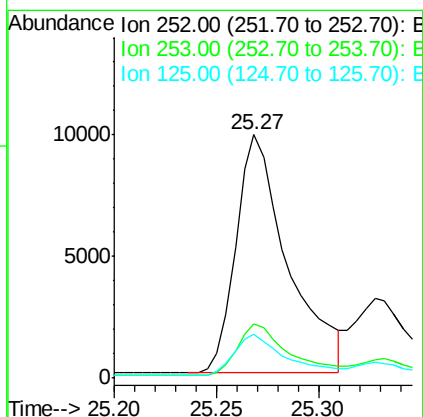
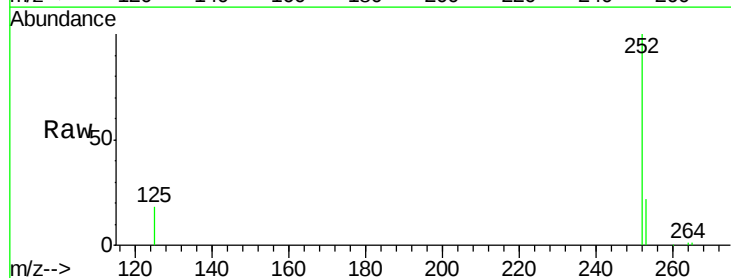
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

Tgt Ion:252 Resp: 35195
Ion Ratio Lower Upper
252 100
253 22.0 18.0 27.0
125 16.4 14.3 21.5



#28
Benzo(a)pyrene
Concen: 1.36 ng
RT: 25.27 min Scan# 4122
Delta R.T. -0.00 min
Lab File: BE089698.D
Acq: 26 Feb 2015 19:30

Tgt Ion:252 Resp: 17333
Ion Ratio Lower Upper
252 100
253 22.1 18.8 28.2
125 17.9 16.6 24.8





#29

Dibenzo(a,h)anthracene

Concen: 1.51 ng

RT: 26.77 min Scan# 4397

Delta R.T. -0.00 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

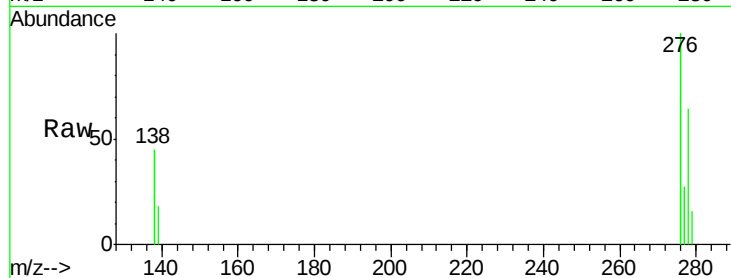
Tgt Ion:278 Resp: 15765

Ion Ratio Lower Upper

278 100

139 27.2 30.4 45.6#

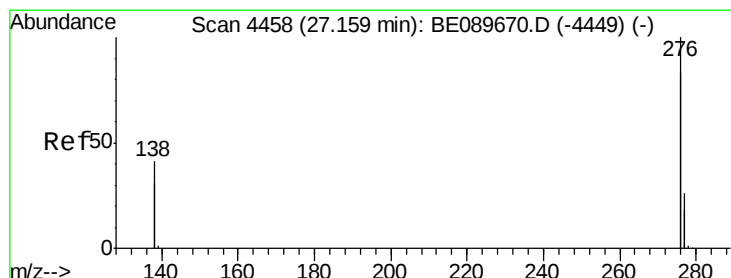
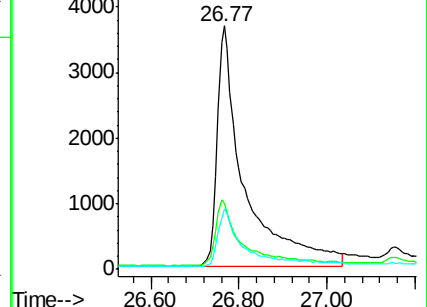
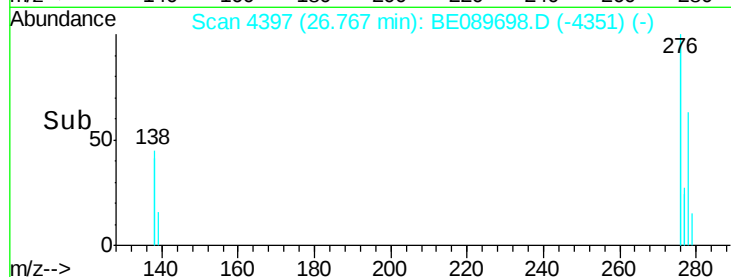
279 24.7 22.0 33.0



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#30

Benzo(g,h,i)perylene

Concen: 1.17 ng

RT: 27.15 min Scan# 4456

Delta R.T. -0.01 min

Lab File: BE089698.D

Acq: 26 Feb 2015 19:30

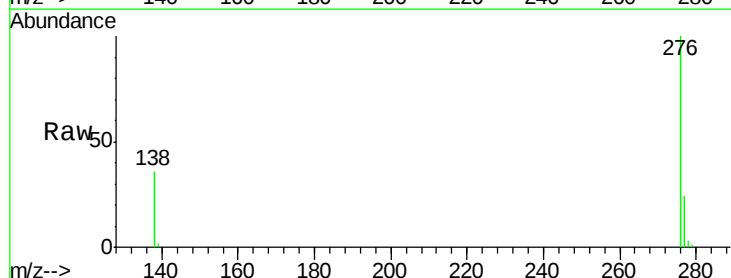
Tgt Ion:276 Resp: 77881

Ion Ratio Lower Upper

276 100

277 23.7 21.0 31.6

138 36.4 33.0 49.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

