

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089672.D
 Acq On : 24 Feb 2015 15:39
 Operator : TP/JJ
 Sample : SSTDICC005
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC005

Quant Time: Feb 24 16:22:39 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 24 15:38:17 2015
 Response via : Initial Calibration

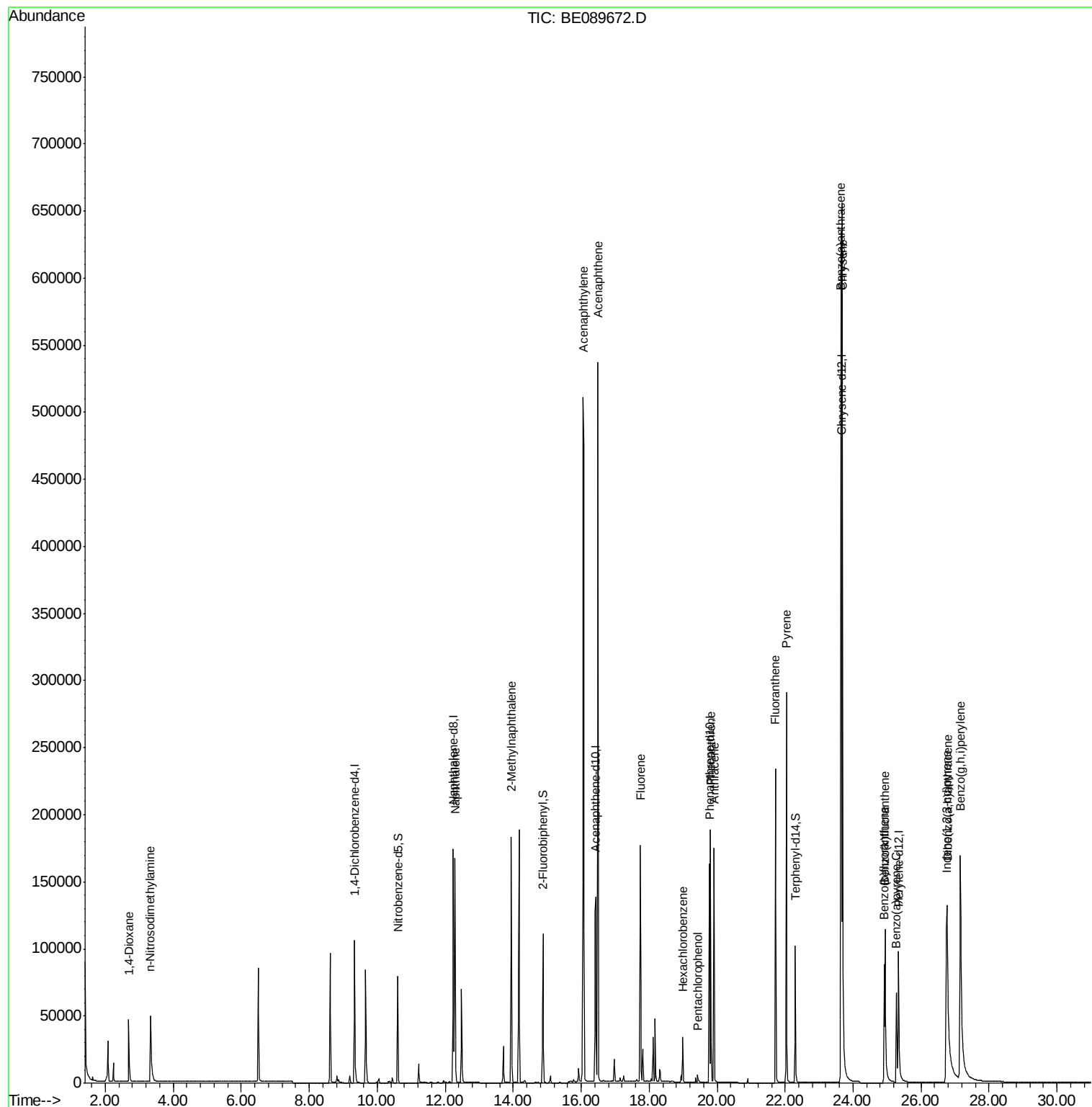
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	47134	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	201744	5.00	ng	0.00
8) Acenaphthene-d10	16.43	164	90843	5.00	ng	0.01
13) Phenanthrene-d10	19.77	188	161906	5.00	ng	0.00
19) Chrysene-d12	23.66	240	135474	5.00	ng	0.00
25) Perylene-d12	25.34	264	99450	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	55713	4.95	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	100812	4.09	ng	0.00
21) Terphenyl-d14	22.30	244	85538	5.55	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.69	88	27876	4.64	ng	99
3) n-Nitrosodimethylamine	3.32	42	38040	5.41	ng	93
6) Naphthalene	12.29	128	194763	4.98	ng	100
7) 2-Methylnaphthalene	13.94	142	119708	5.56	ng	97
10) Acenaphthylene	16.06	152	718644	5.72	ng	100
11) Acenaphthene	16.49	154	104798	5.10	ng	98
12) Fluorene	17.74	166	119677	5.32	ng	100
14) Hexachlorobenzene	19.00	284	21266	5.11	ng	97
15) Pentachlorophenol	19.43	266	4327	11.80	ng	93
16) Phenanthrene	19.81	178	174716	5.08	ng	100
17) Anthracene	19.91	178	165413	5.91	ng	100
18) Fluoranthene	21.72	202	164825	6.05	ng	99
20) Pyrene	22.04	202	178990	5.64	ng	99
22) Benzo(a)anthracene	23.64	228	518896	6.26	ng	95
23) Chrysene	23.68	228	601275	4.83	ng	98
24) Indeno(1,2,3-cd)pyrene	26.75	276	351286	11.49	ng	# 47
26) Benzo(b)fluoranthene	24.91	252	74253	12.91	ng	96
27) Benzo(k)fluoranthene	24.94	252	145270	7.31	ng	98
28) Benzo(a)pyrene	25.27	252	77802	11.00	ng	95
29) Dibenzo(a,h)anthracene	26.77	278	66966	13.87	ng	# 86
30) Benzo(g,h,i)perylene	27.16	276	326384	9.04	ng	94

(#) = 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: BE089672.D

Acq: 24 Feb 2015 15:39

Instrument :

BNA_E

LabSampleId :

SSTDIC005

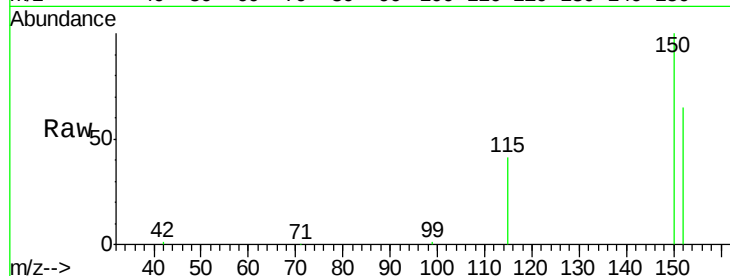
Tgt Ion:152 Resp: 47134

Ion Ratio Lower Upper

152 100

150 155.0 123.4 185.0

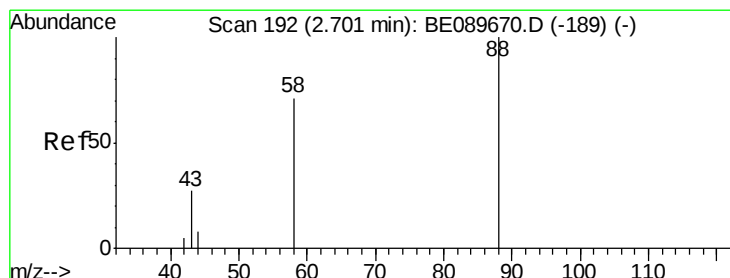
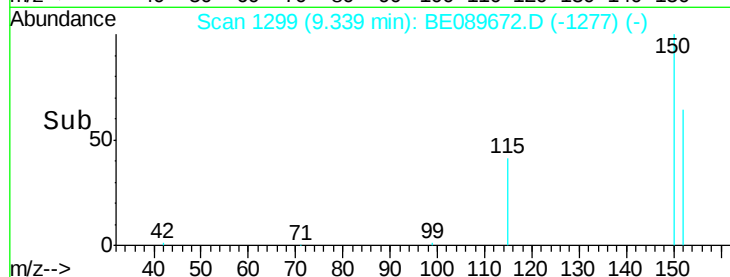
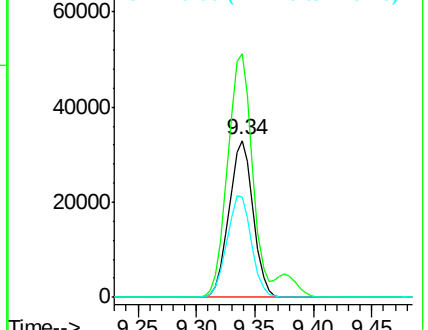
115 64.2 50.8 76.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 4.64 ng

RT: 2.69 min Scan# 191

Delta R.T. -0.01 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

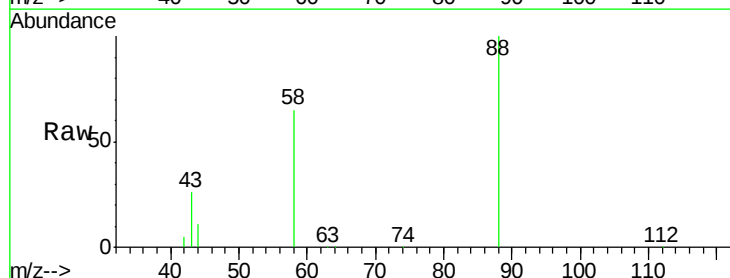
Tgt Ion: 88 Resp: 27876

Ion Ratio Lower Upper

88 100

58 77.1 62.4 93.6

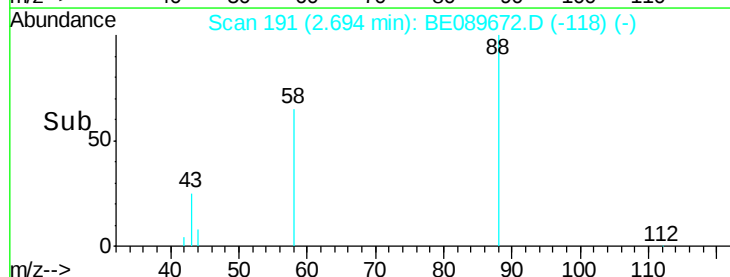
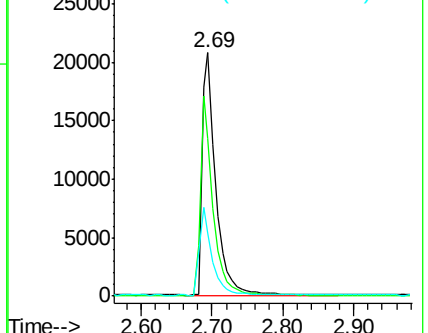
43 34.2 26.6 40.0

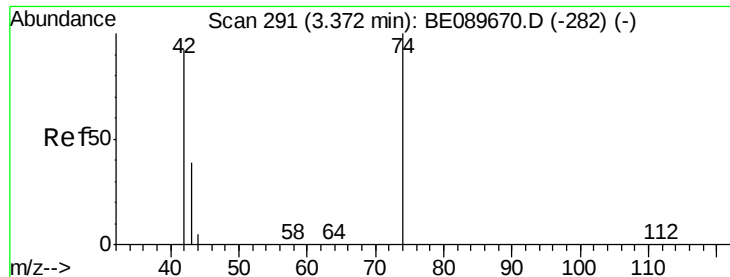


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



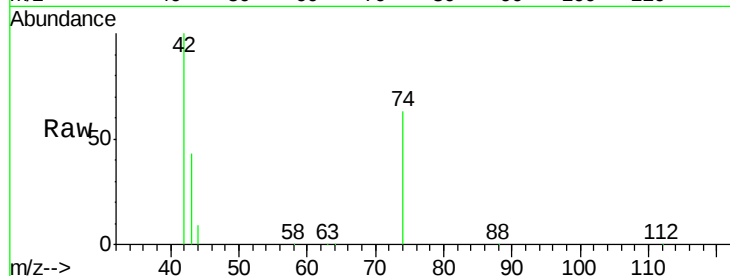


#3

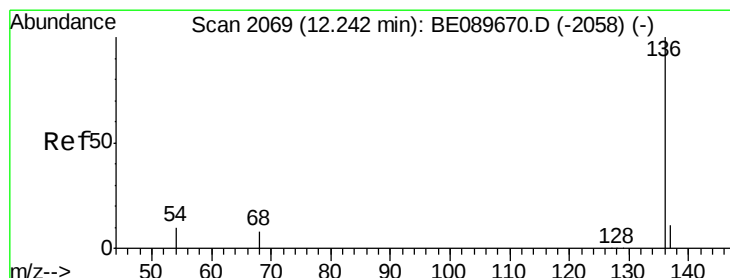
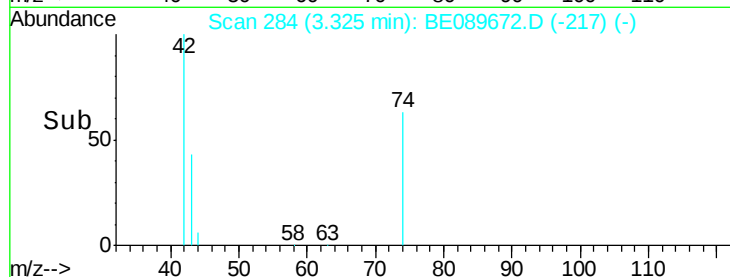
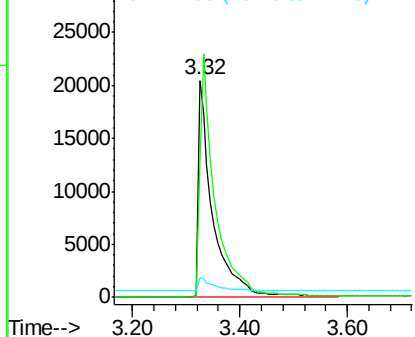
n-Nitrosodimethylamine
 Concen: 5.41 ng
 RT: 3.32 min Scan# 284
 Delta R.T. -0.05 min
 Lab File: BE089672.D
 Acq: 24 Feb 2015 15:39

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC005

Tgt Ion: 42 Resp: 38040
 Ion Ratio Lower Upper
 42 100
 74 122.3 91.1 136.7
 44 5.9 4.7 7.1



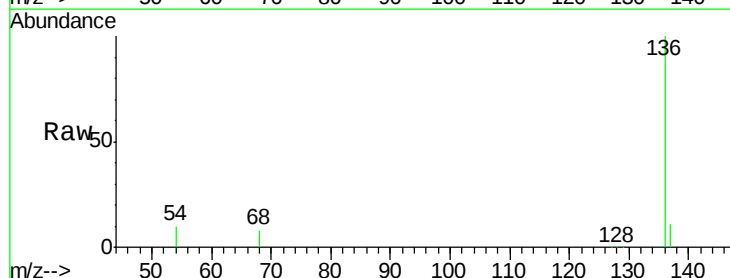
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



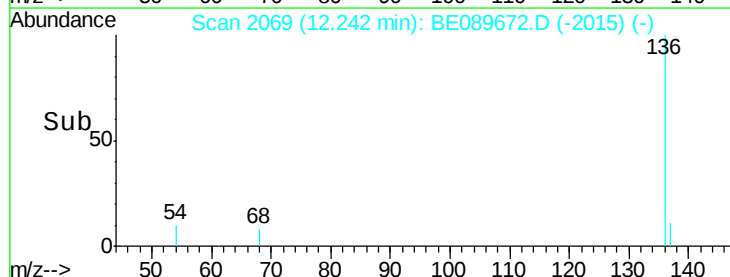
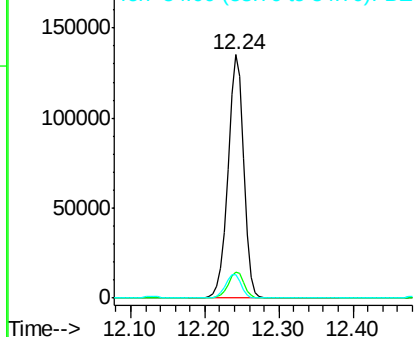
#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. -0.00 min
 Lab File: BE089672.D
 Acq: 24 Feb 2015 15:39

Tgt Ion: 136 Resp: 201744
 Ion Ratio Lower Upper
 136 100
 137 10.9 8.7 13.1
 54 9.9 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: 4.95 ng

RT: 10.60 min Scan# 1667

Delta R.T. 0.00 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

Instrument :

BNA_E

LabSampleId :

SSTDIC005

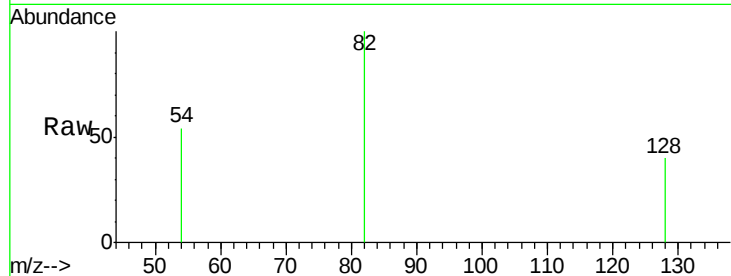
Tgt Ion: 82 Resp: 55713

Ion Ratio Lower Upper

82 100

128 40.4 30.6 46.0

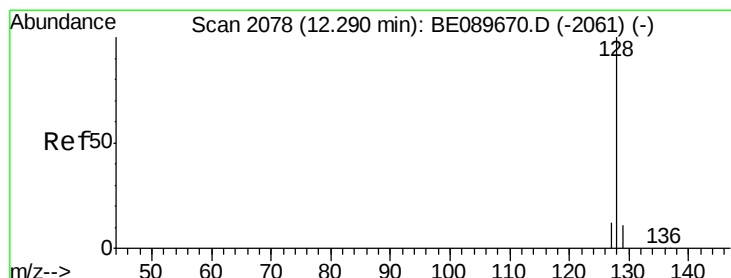
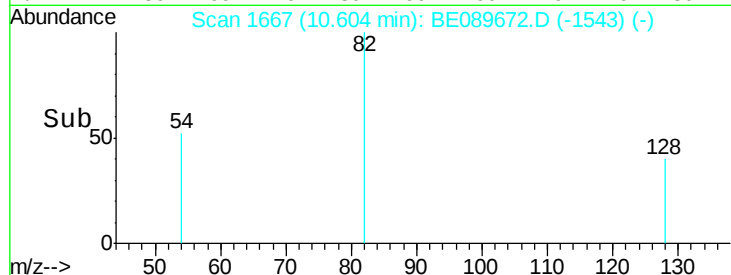
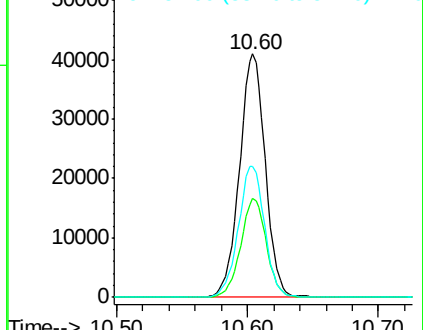
54 53.9 43.6 65.4



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: 4.98 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.00 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

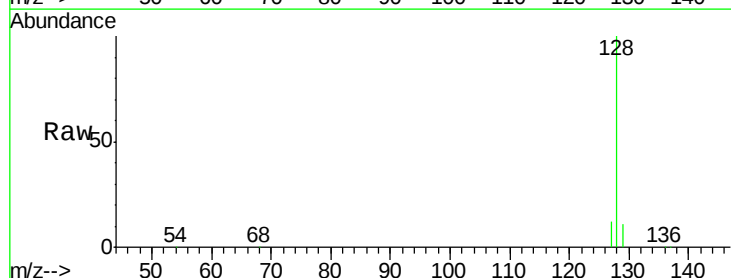
Tgt Ion: 128 Resp: 194763

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

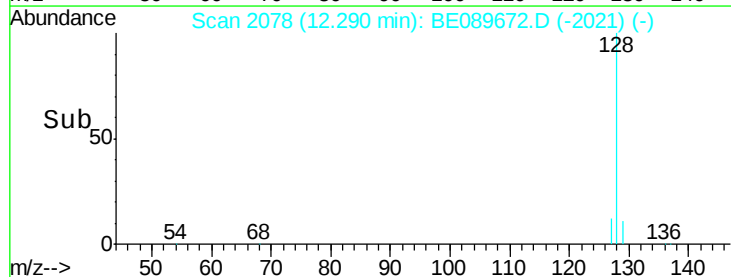
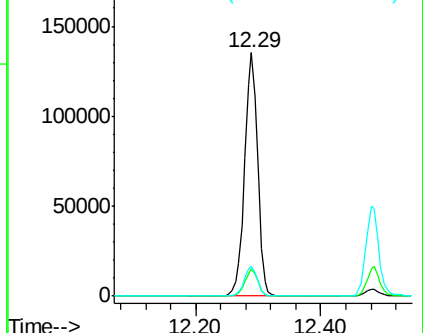
127 12.3 9.7 14.5



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: 5.56 ng

RT: 13.94 min Scan# 2416

Delta R.T. -0.00 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

Instrument :

BNA_E

LabSampleId :

SSTDICC005

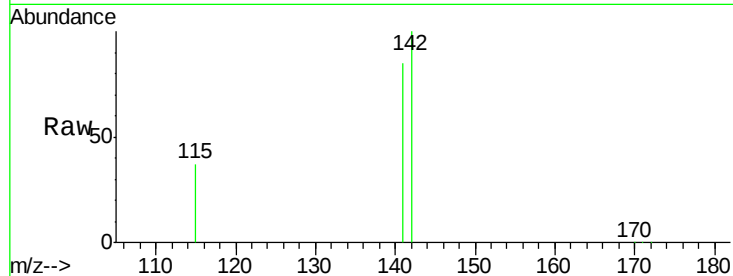
Tgt Ion:142 Resp: 119708

Ion Ratio Lower Upper

142 100

141 85.2 66.0 99.0

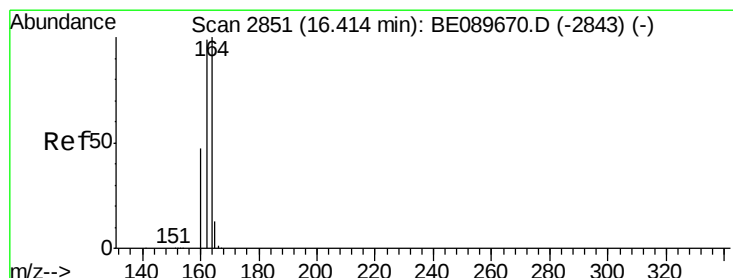
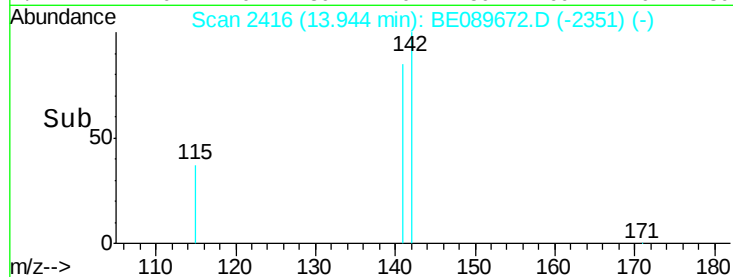
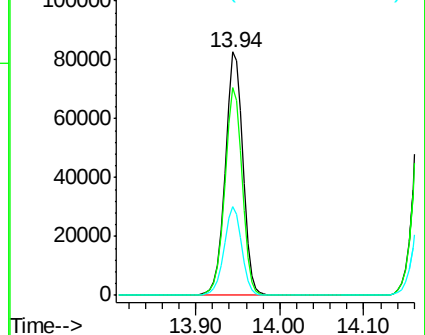
115 36.6 27.4 41.0



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: 16.43 min Scan# 2852

Delta R.T. 0.01 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

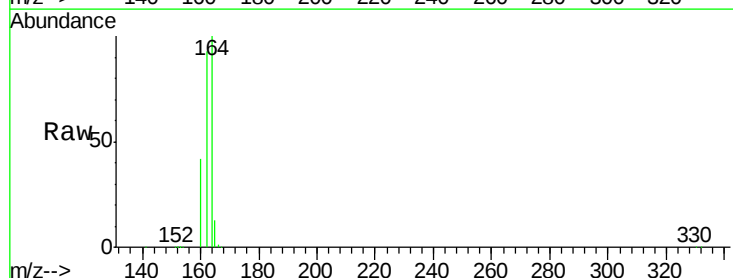
Tgt Ion:164 Resp: 90843

Ion Ratio Lower Upper

164 100

162 92.8 79.4 119.2

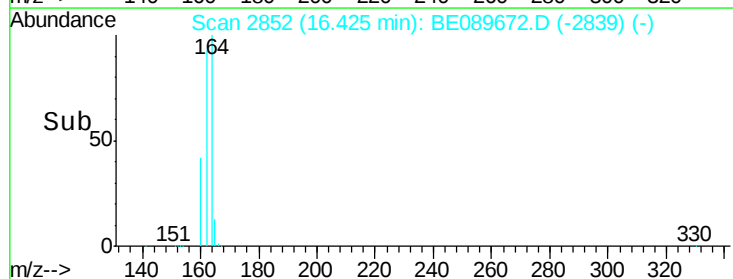
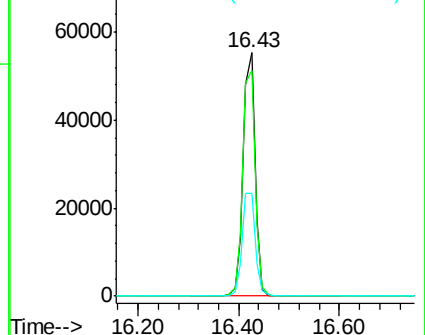
160 42.2 37.6 56.4



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: 4.09 ng

RT: 14.88 min Scan# 2621

Delta R.T. 0.00 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

Instrument :

BNA_E

LabSampleId :

SSTDIC005

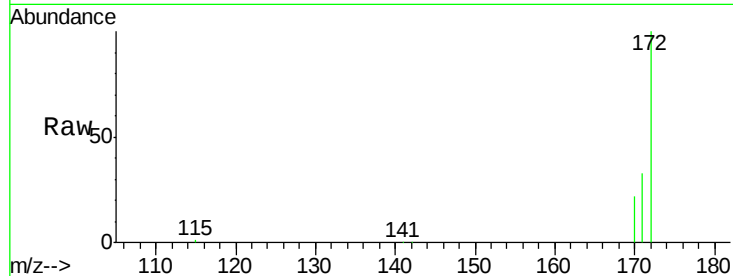
Tgt Ion:172 Resp: 100812

Ion Ratio Lower Upper

172 100

171 32.9 27.3 40.9

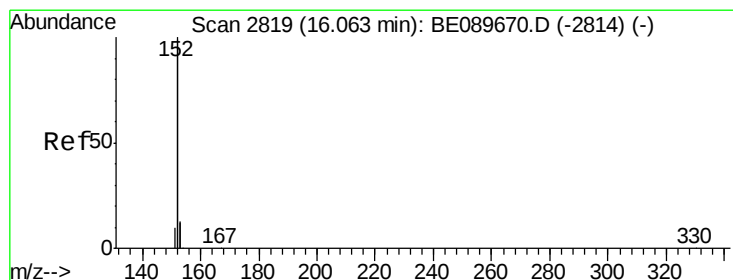
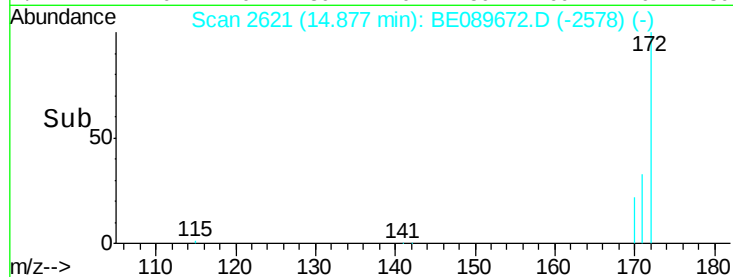
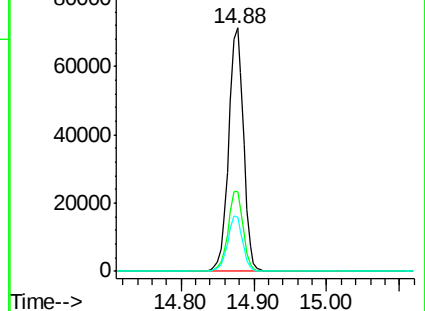
170 22.2 18.5 27.7



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: 5.72 ng

RT: 16.06 min Scan# 2819

Delta R.T. 0.00 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

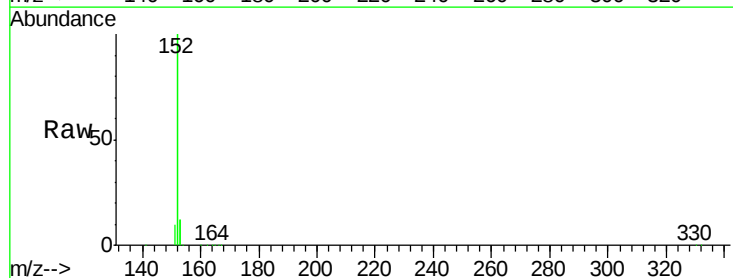
Tgt Ion:152 Resp: 718644

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.6

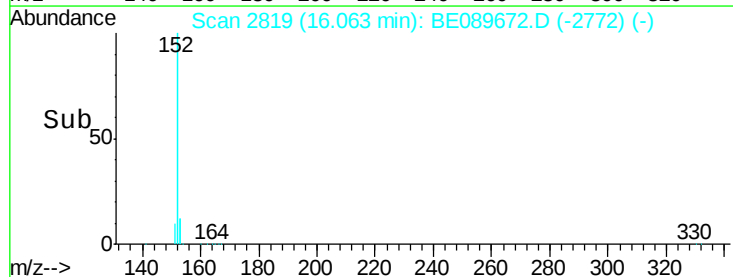
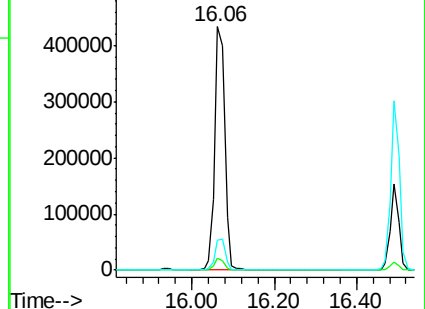
153 13.1 10.4 15.6

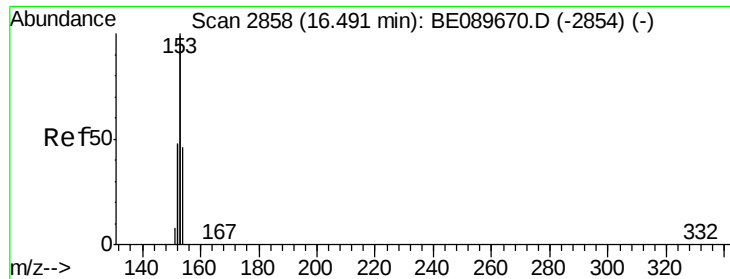


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 5.10 ng

RT: 16.49 min Scan# 2858

Delta R.T. 0.00 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

Instrument :

BNA_E

LabSampleId :

SSTDIC005

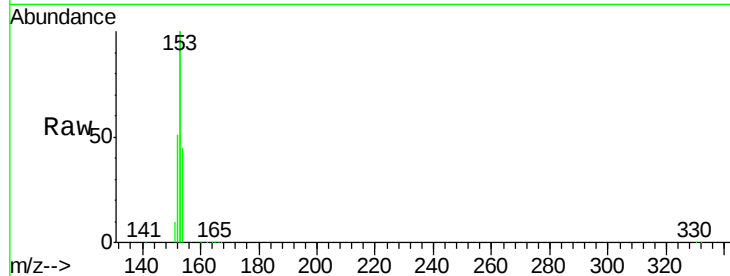
Tgt Ion:154 Resp: 104798

Ion Ratio Lower Upper

154 100

153 427.6 345.8 518.8

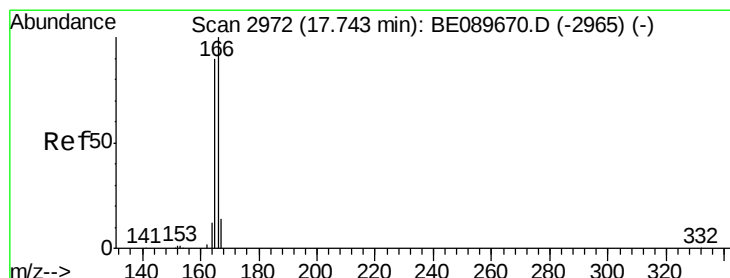
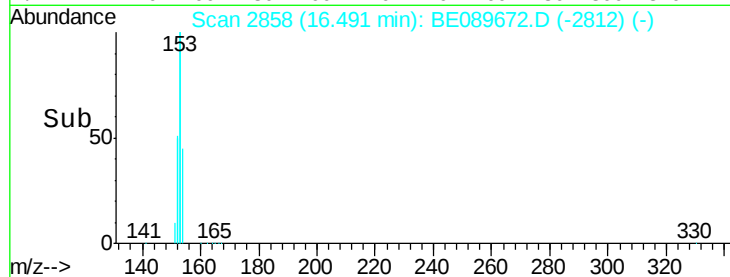
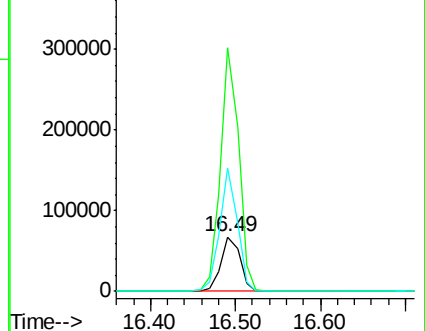
152 208.6 168.6 252.8



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: 5.32 ng

RT: 17.74 min Scan# 2972

Delta R.T. 0.00 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

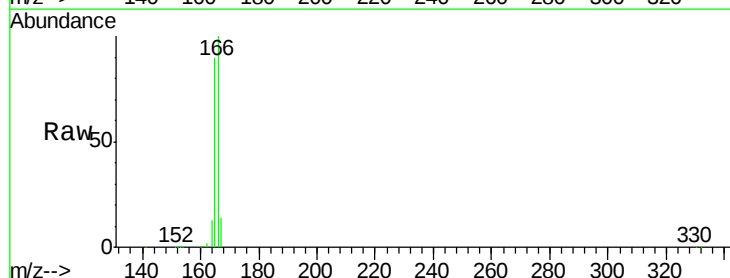
Tgt Ion:166 Resp: 119677

Ion Ratio Lower Upper

166 100

165 91.8 73.6 110.4

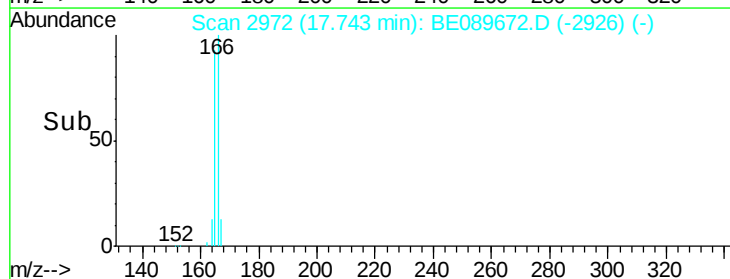
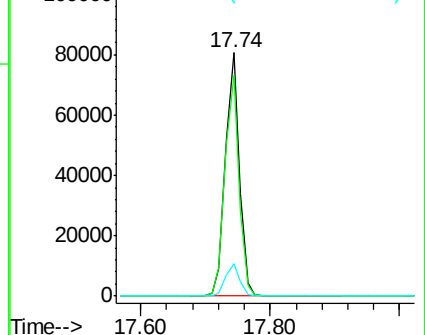
167 13.4 10.6 16.0

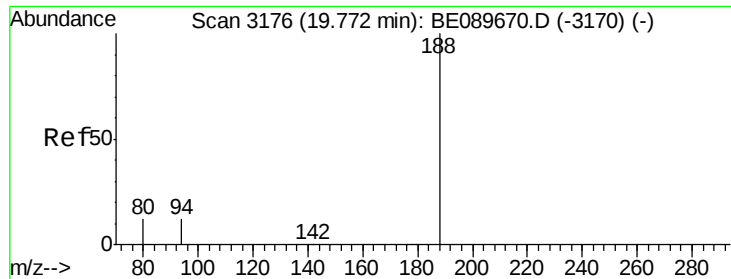


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

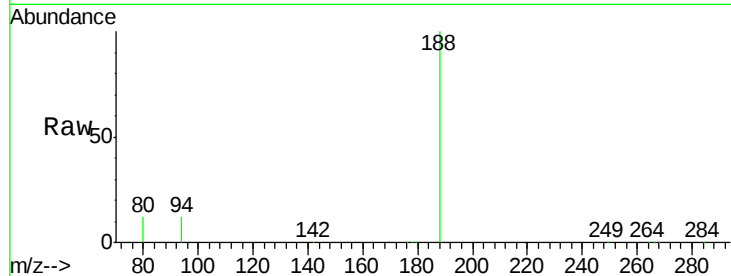




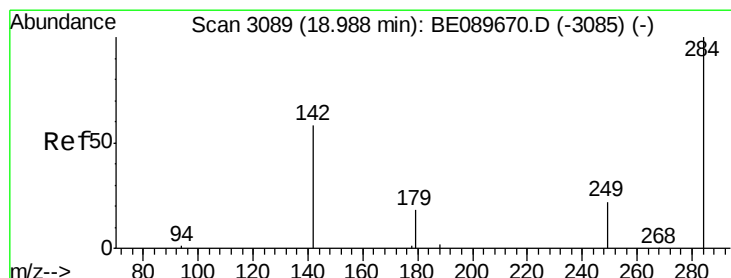
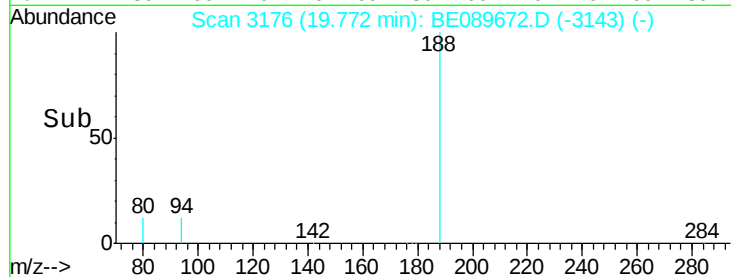
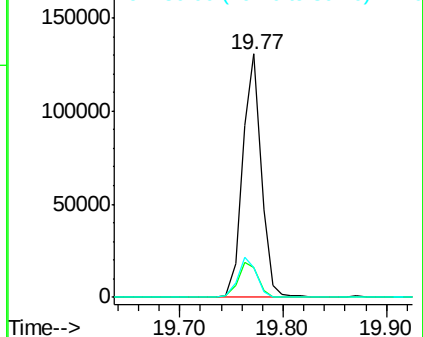
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. -0.00 min
Lab File: BE089672.D
Acq: 24 Feb 2015 15:39

Instrument :
BNA_E
LabSampleId :
SSTDIC005

Tgt Ion:188 Resp: 161906
Ion Ratio Lower Upper
188 100
94 12.2 9.4 14.2
80 12.3 9.5 14.3

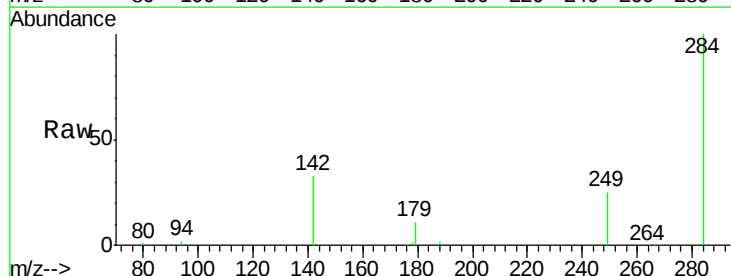


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

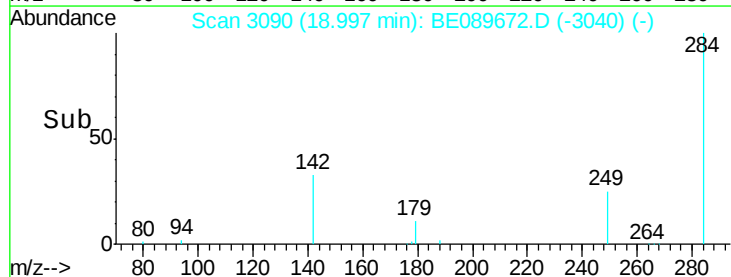
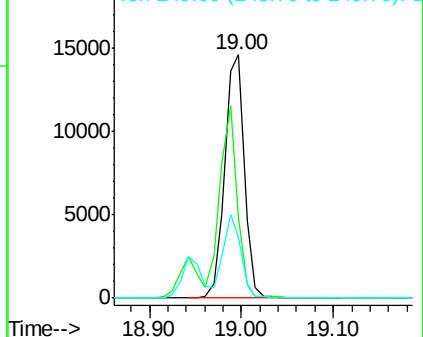


#14
Hexachlorobenzene
Concen: 5.11 ng
RT: 19.00 min Scan# 3090
Delta R.T. 0.01 min
Lab File: BE089672.D
Acq: 24 Feb 2015 15:39

Tgt Ion:284 Resp: 21266
Ion Ratio Lower Upper
284 100
142 70.5 55.4 83.2
249 30.5 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

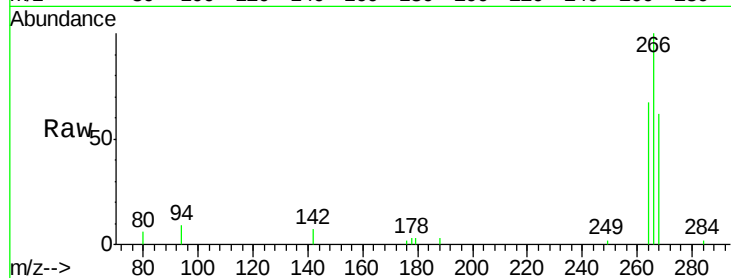




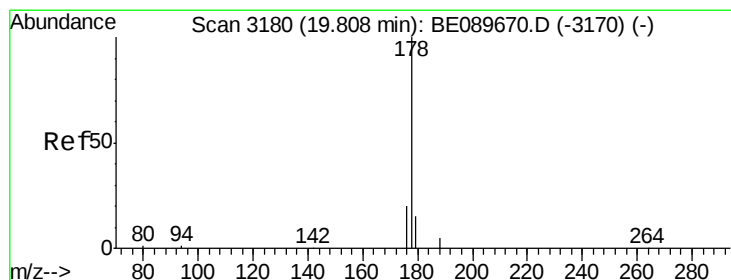
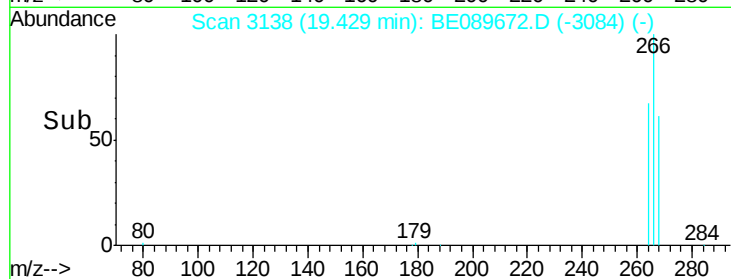
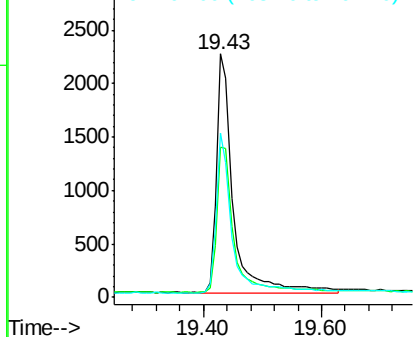
#15
 Pentachlorophenol
 Concen: 11.80 ng
 RT: 19.43 min Scan# 3138
 Delta R.T. -0.01 min
 Lab File: BE089672.D
 Acq: 24 Feb 2015 15:39

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC005

Tgt Ion: 266 Resp: 4327
 Ion Ratio Lower Upper
 266 100
 268 61.7 56.3 84.5
 264 67.4 51.8 77.8

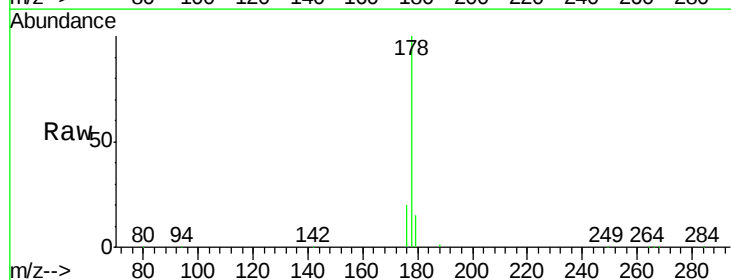


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

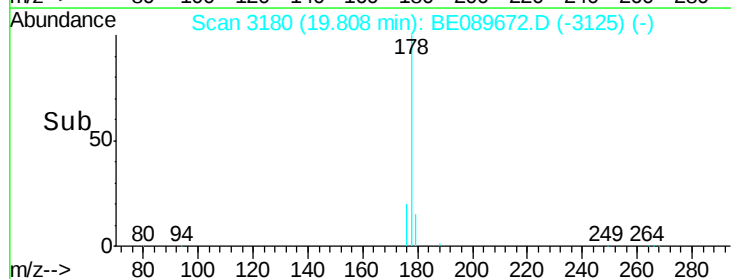
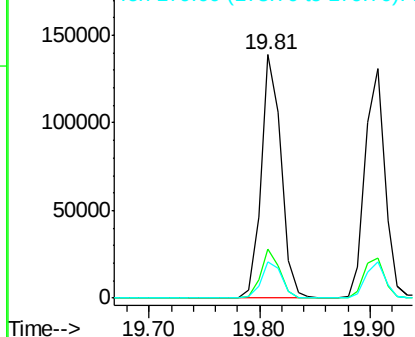


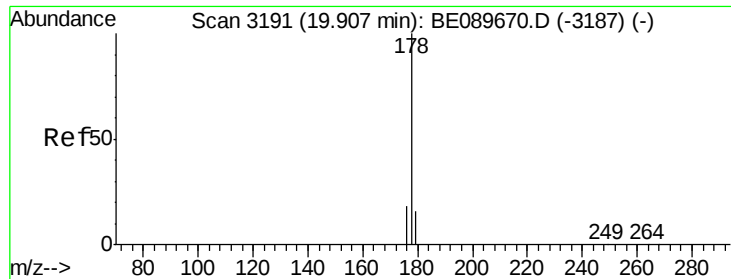
#16
 Phenanthrene
 Concen: 5.08 ng
 RT: 19.81 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: BE089672.D
 Acq: 24 Feb 2015 15:39

Tgt Ion: 178 Resp: 174716
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.3 22.9
 179 15.3 12.5 18.7



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

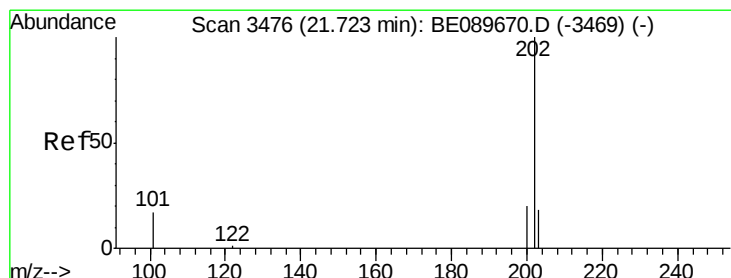
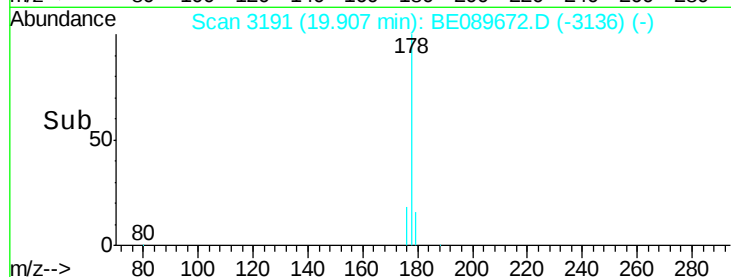
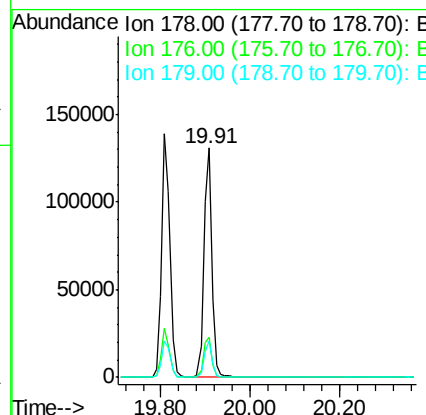
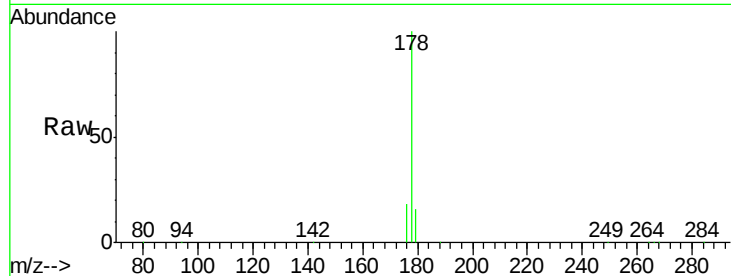




#17
 Anthracene
 Concen: 5.91 ng
 RT: 19.91 min Scan# 3191
 Delta R.T. -0.00 min
 Lab File: BE089672.D
 Acq: 24 Feb 2015 15:39

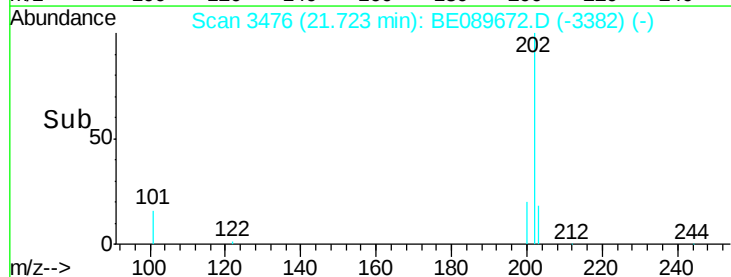
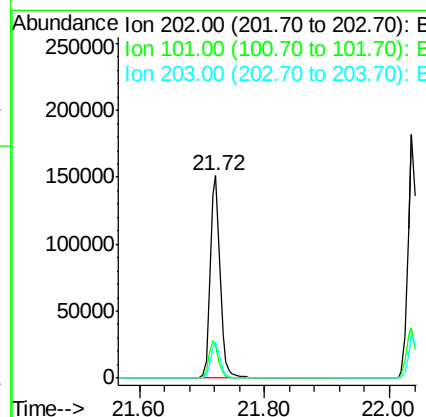
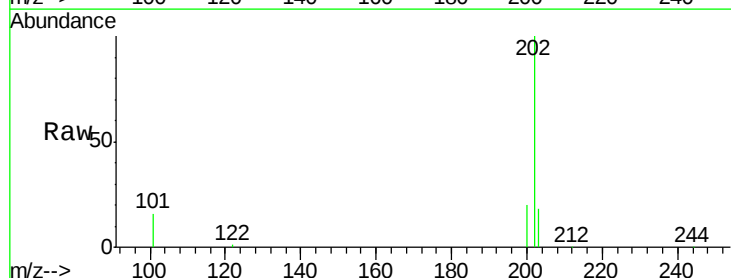
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC005

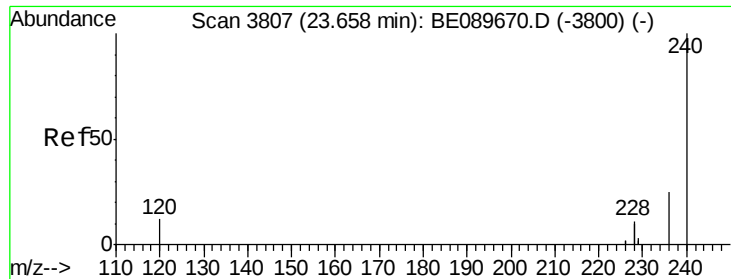
Tgt Ion:178 Resp: 165413
 Ion Ratio Lower Upper
 178 100
 176 18.4 14.8 22.2
 179 15.3 12.2 18.2



#18
 Fluoranthene
 Concen: 6.05 ng
 RT: 21.72 min Scan# 3476
 Delta R.T. -0.00 min
 Lab File: BE089672.D
 Acq: 24 Feb 2015 15:39

Tgt Ion:202 Resp: 164825
 Ion Ratio Lower Upper
 202 100
 101 18.2 14.9 22.3
 203 17.4 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3807

Delta R.T. 0.00 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

Instrument :

BNA_E

LabSampleId :

SSTDIC005

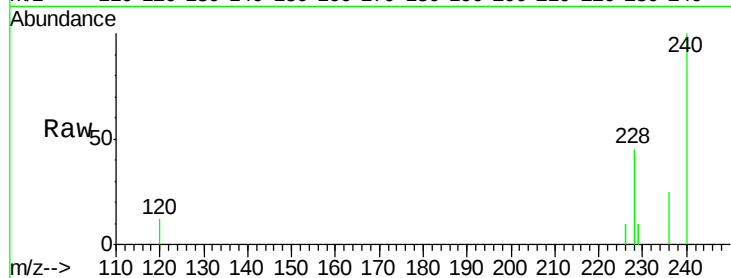
Tgt Ion:240 Resp: 135474

Ion Ratio Lower Upper

240 100

120 12.2 9.4 14.0

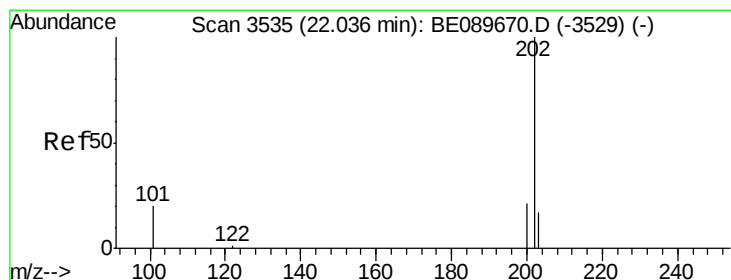
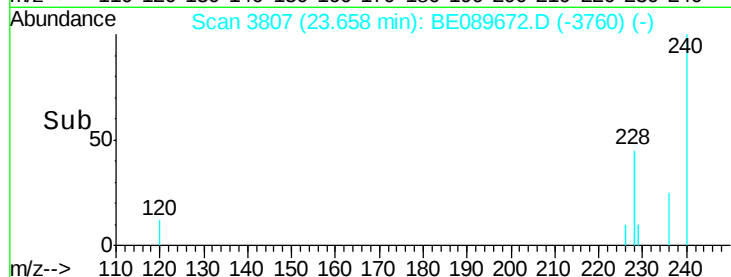
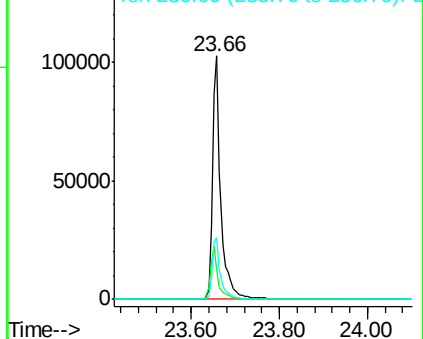
236 25.2 19.9 29.9



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: 5.64 ng

RT: 22.04 min Scan# 3535

Delta R.T. -0.00 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

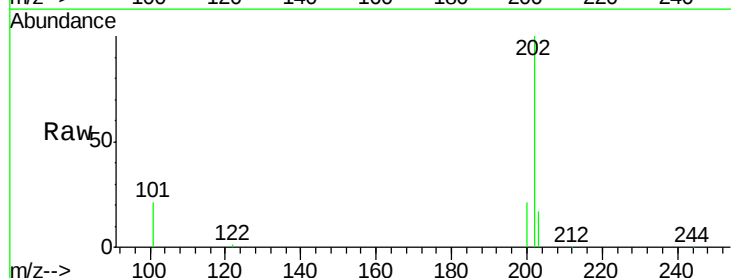
Tgt Ion:202 Resp: 178990

Ion Ratio Lower Upper

202 100

200 20.9 16.4 24.6

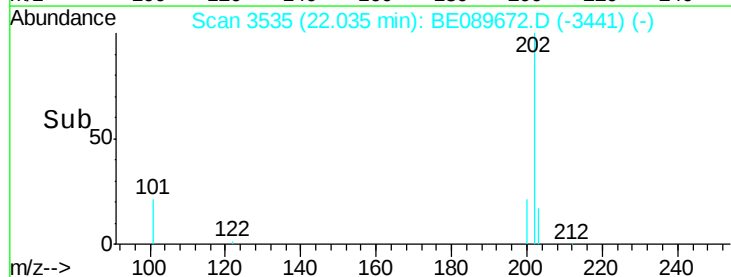
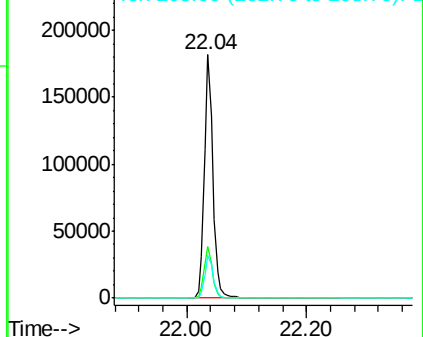
203 17.6 13.9 20.9



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: 5.55 ng

RT: 22.30 min Scan# 3585

Delta R.T. -0.00 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

Instrument :

BNA_E

LabSampleId :

SSTDICC005

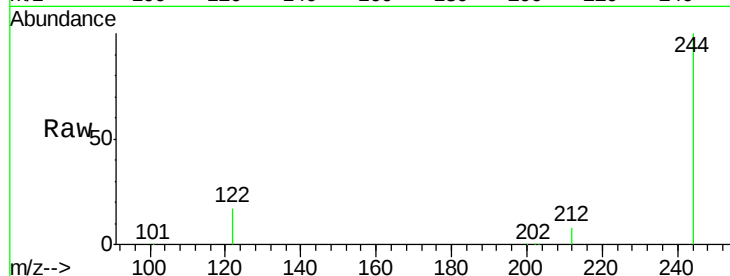
Tgt Ion:244 Resp: 85538

Ion Ratio Lower Upper

244 100

212 8.1 7.0 10.6

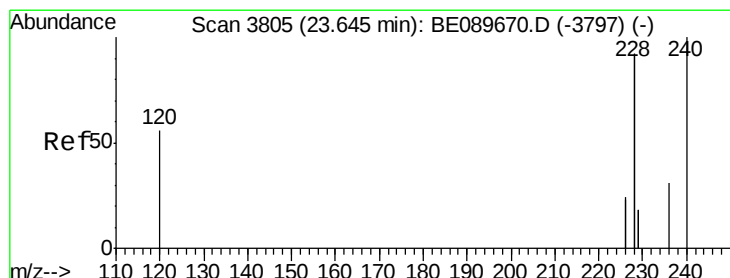
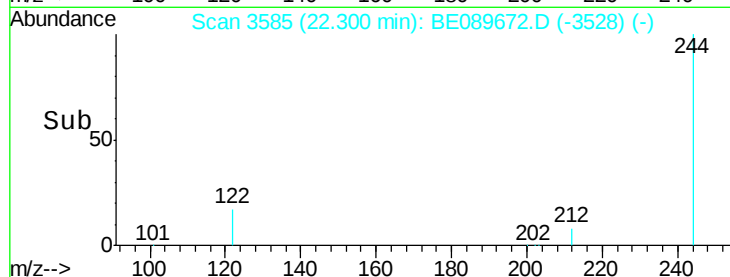
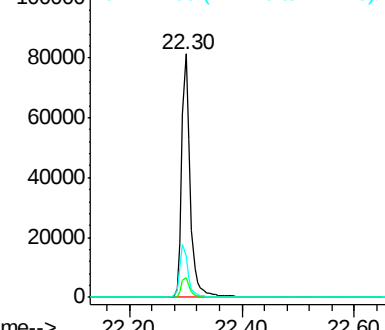
122 17.2 15.4 23.0



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: 6.26 ng

RT: 23.64 min Scan# 3804

Delta R.T. -0.01 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

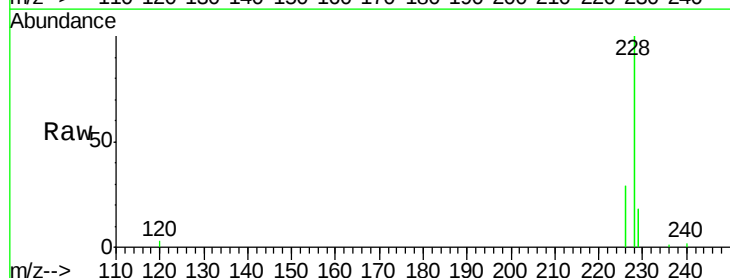
Tgt Ion:228 Resp: 518896

Ion Ratio Lower Upper

228 100

226 28.8 20.6 31.0

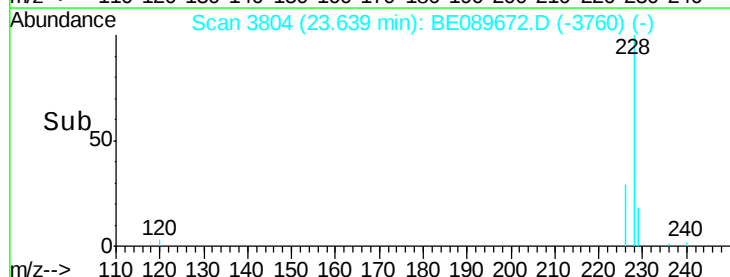
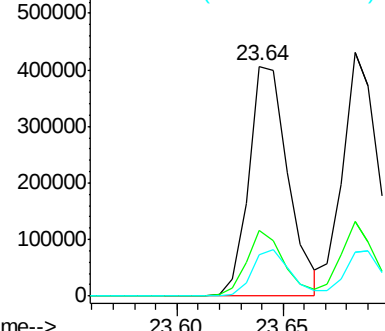
229 17.8 15.8 23.6



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: 4.83 ng

RT: 23.68 min Scan# 3811

Delta R.T. 0.00 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

Instrument :

BNA_E

LabSampleId :

SSTDIC005

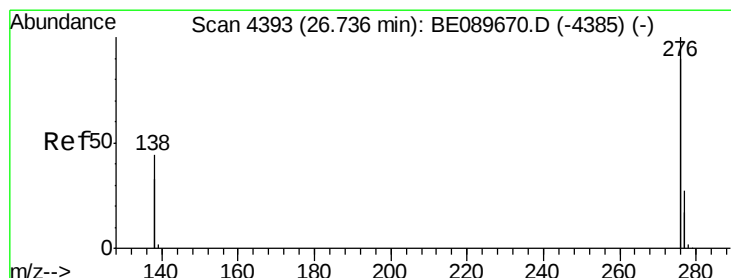
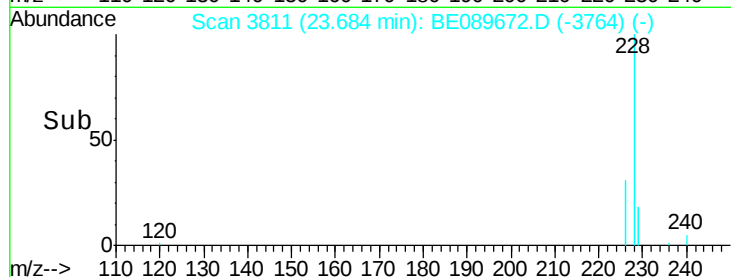
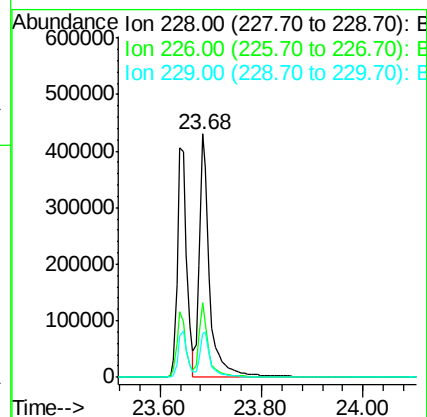
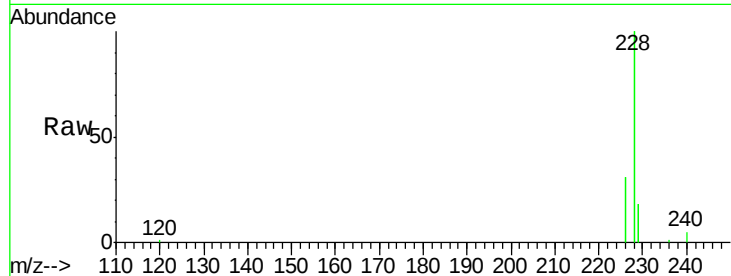
Tgt Ion:228 Resp: 601275

Ion Ratio Lower Upper

228 100

226 30.6 23.6 35.4

229 18.2 15.3 22.9



#24

Indeno(1,2,3-cd)pyrene

Concen: 11.49 ng

RT: 26.75 min Scan# 4395

Delta R.T. 0.01 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

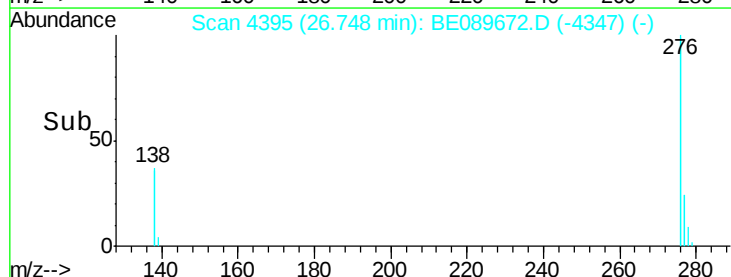
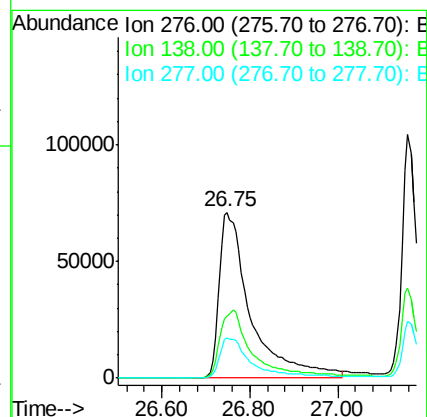
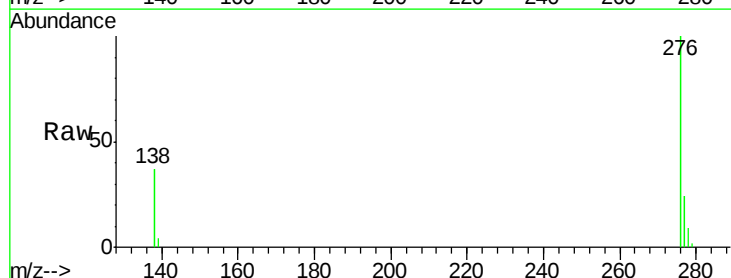
Tgt Ion:276 Resp: 351286

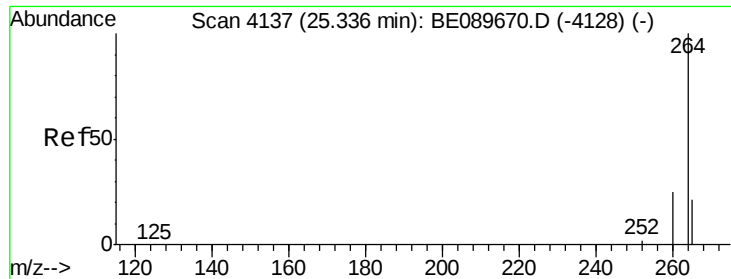
Ion Ratio Lower Upper

276 100

138 41.9 0.0 0.0#

277 24.7 5.2 7.8#



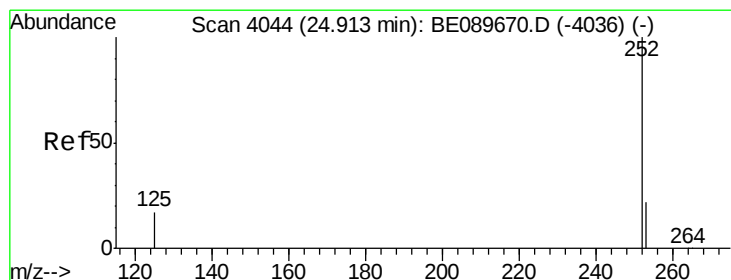
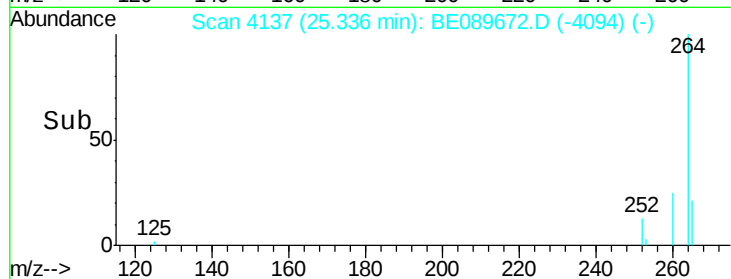
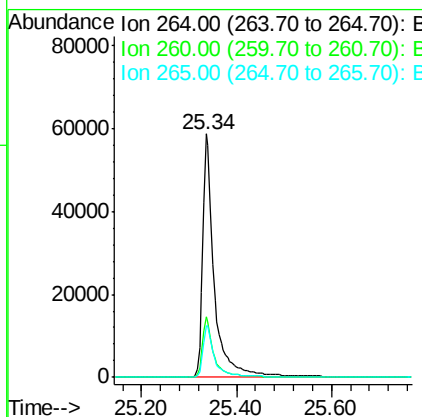
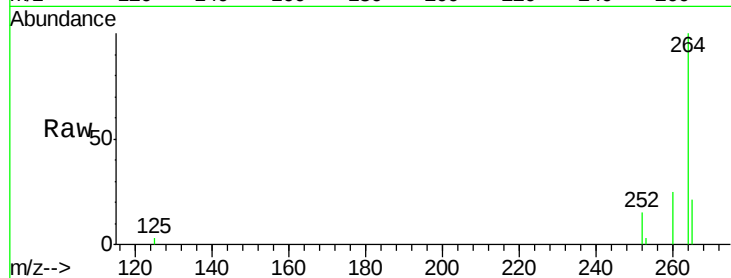


#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4137
Delta R.T. -0.00 min
Lab File: BE089672.D
Acq: 24 Feb 2015 15:39

Instrument :
BNA_E
LabSampleId :
SSTDIC005

Tgt Ion: 264 Resp: 99450

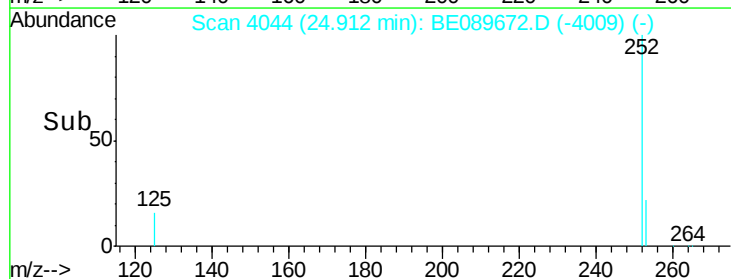
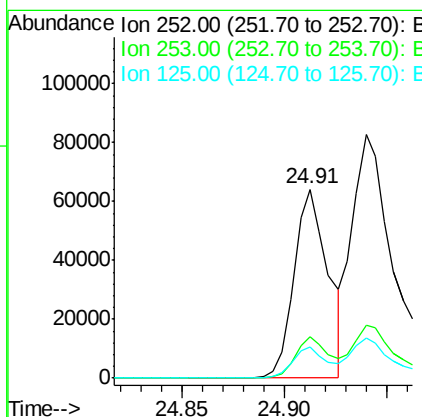
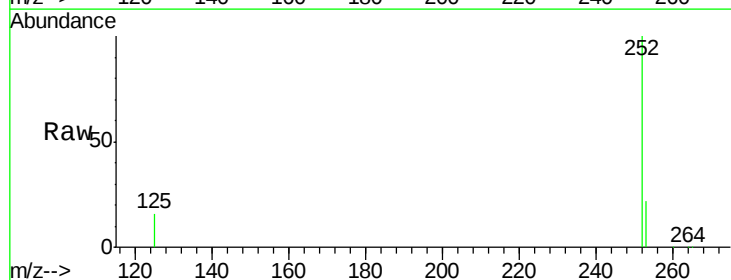
Ion	Ratio	Lower	Upper
264	100		
260	25.1	20.2	30.4
265	21.0	17.0	25.4



#26
Benzo(b)fluoranthene
Concen: 12.91 ng
RT: 24.91 min Scan# 4044
Delta R.T. -0.00 min
Lab File: BE089672.D
Acq: 24 Feb 2015 15:39

Tgt Ion: 252 Resp: 74253

Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.6	27.8
125	16.1	15.0	22.6





#27

Benzo(k)fluoranthene

Concen: 7.31 ng

RT: 24.94 min Scan# 4050

Delta R.T. -0.00 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

Instrument :

BNA_E

LabSampleId :

SSTDIC005

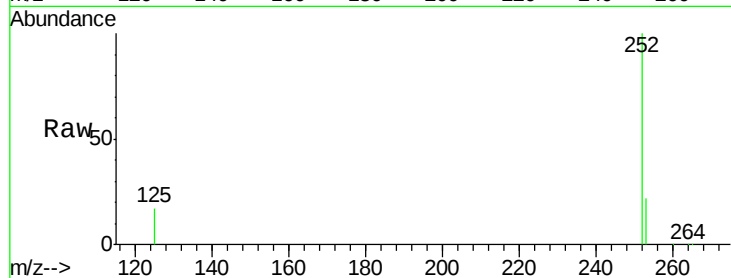
Tgt Ion:252 Resp: 145270

Ion Ratio Lower Upper

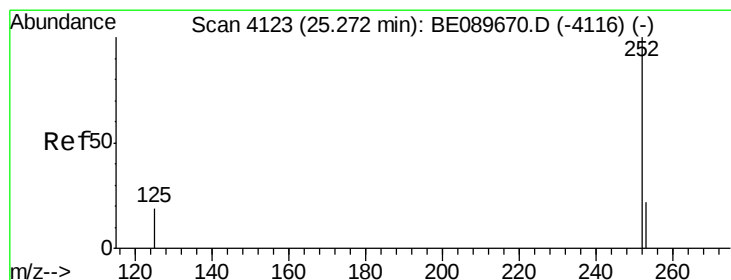
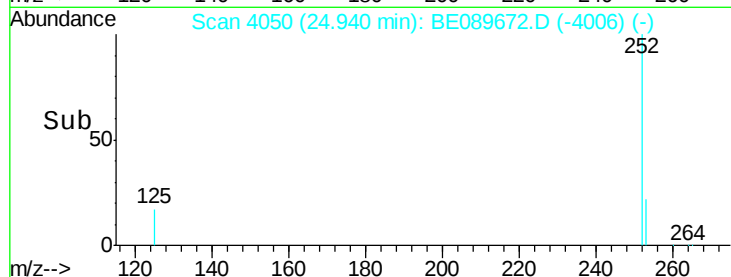
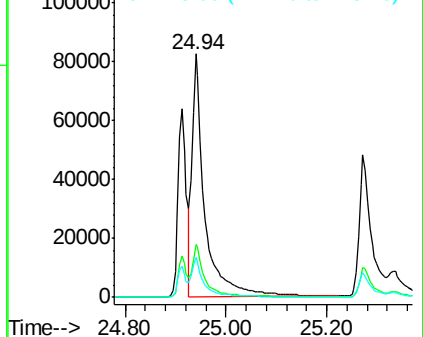
252 100

253 21.6 18.0 27.0

125 16.6 14.3 21.5



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: 11.00 ng

RT: 25.27 min Scan# 4123

Delta R.T. -0.00 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

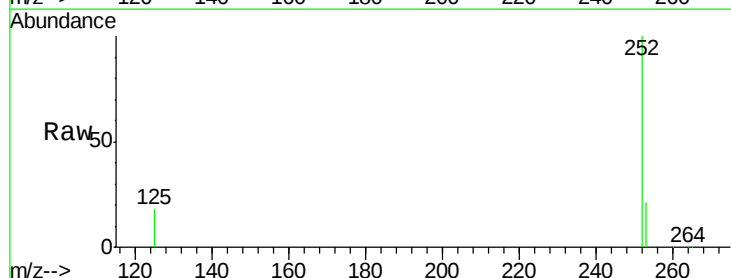
Tgt Ion:252 Resp: 77802

Ion Ratio Lower Upper

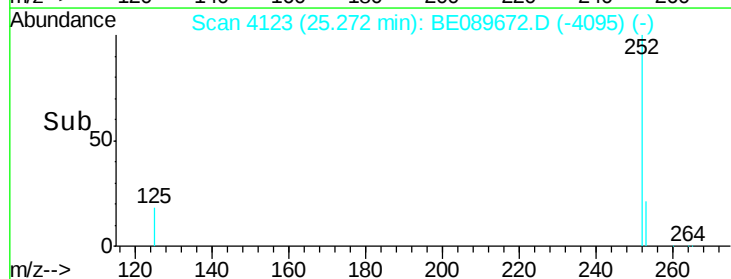
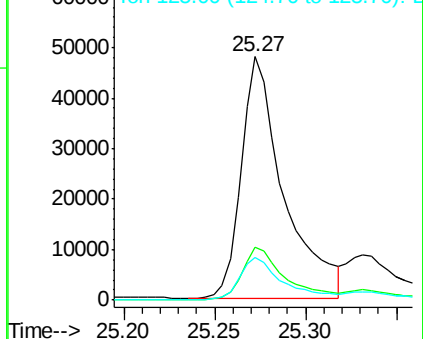
252 100

253 21.5 18.8 28.2

125 17.6 16.6 24.8



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: 13.87 ng

RT: 26.77 min Scan# 4399

Delta R.T. 0.01 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

Instrument :

BNA_E

LabSampleId :

SSTDIC005

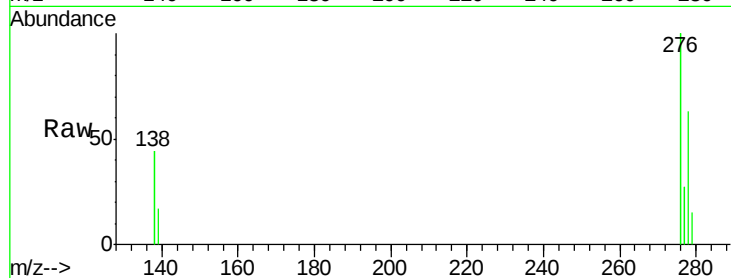
Tgt Ion:278 Resp: 66966

Ion Ratio Lower Upper

278 100

139 26.7 30.4 45.6#

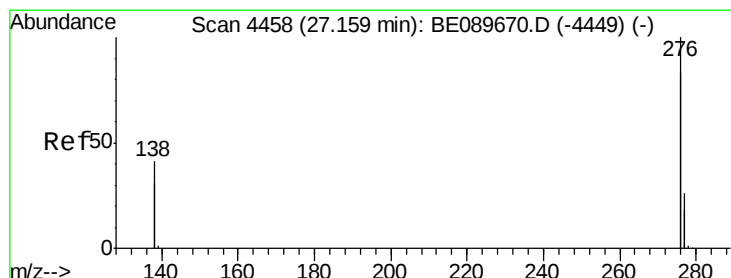
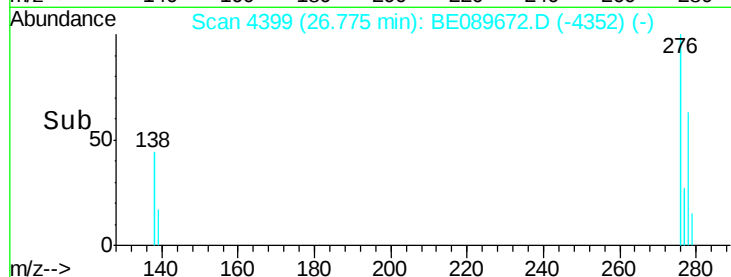
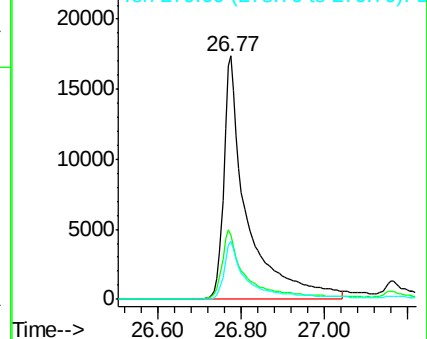
279 23.6 22.0 33.0



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: 9.04 ng

RT: 27.16 min Scan# 4458

Delta R.T. -0.00 min

Lab File: BE089672.D

Acq: 24 Feb 2015 15:39

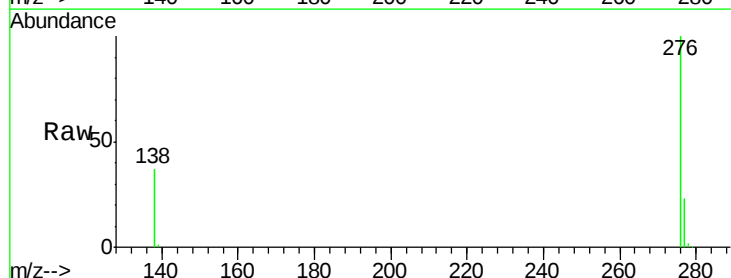
Tgt Ion:276 Resp: 326384

Ion Ratio Lower Upper

276 100

277 23.5 21.0 31.6

138 36.9 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

