

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE010715\
 Data File : BE089337.D
 Acq On : 7 Jan 2015 20:26
 Operator : TP/IZ
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.2

Quant Time: Jan 08 05:25:12 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BASE-BE092914.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 08 05:13:42 2015
 Response via : Initial Calibration

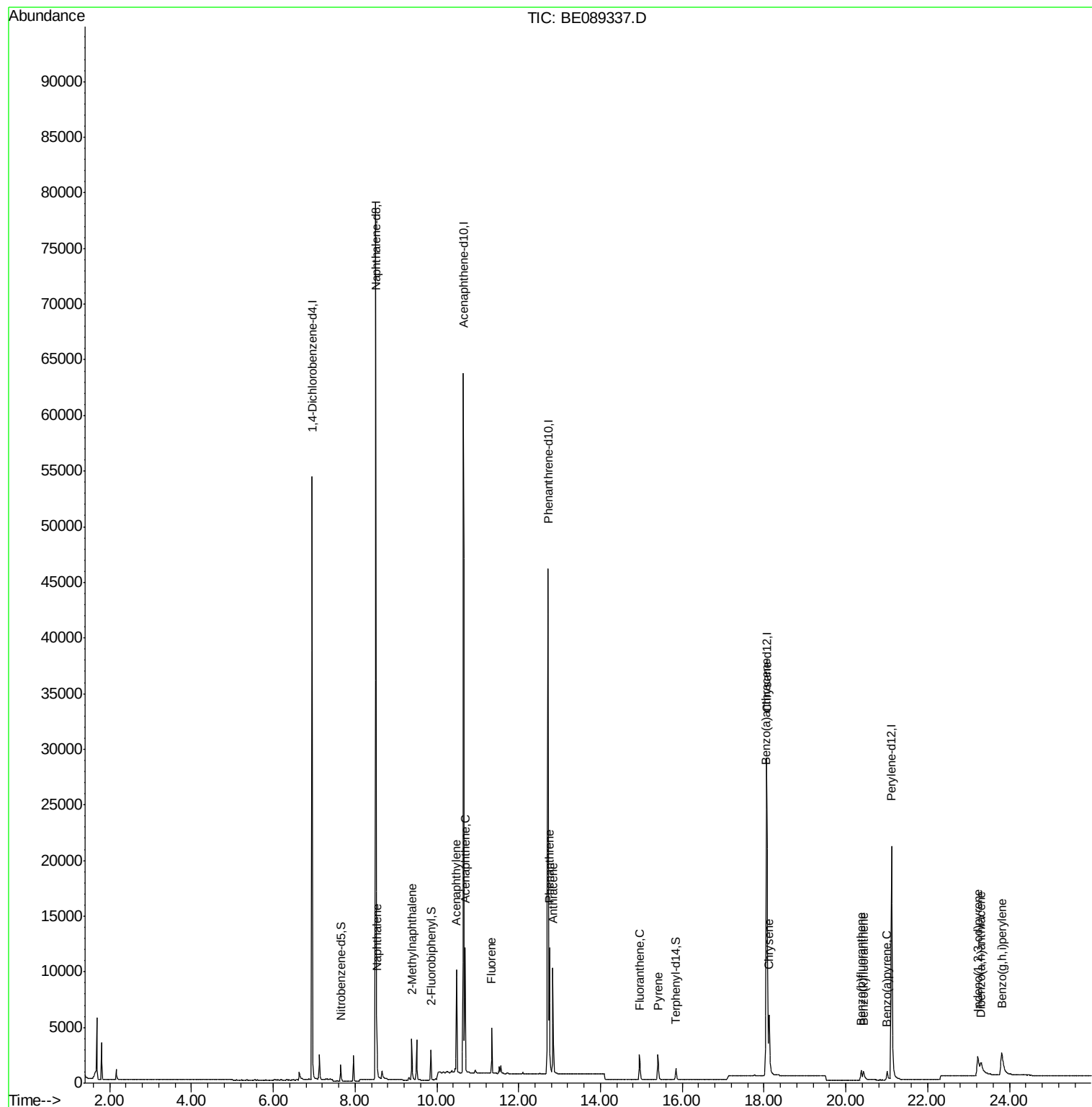
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	17848	5.00	ng	0.00
2) Naphthalene-d8	8.51	136	69574	5.00	ng	0.00
6) Acenaphthene-d10	10.65	164	32884	5.00	ng	0.00
11) Phenanthrene-d10	12.72	188	50562	5.00	ng	0.00
15) Chrysene-d12	18.07	240	35276	5.00	ng	0.00
21) Perylene-d12	21.12	264	31561	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	7.65	82	955	0.21	ng	0.00
7) 2-Fluorobiphenyl	9.85	172	1947	0.23	ng	0.00
17) Terphenyl-d14	15.85	244	1360	0.26	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	8.53	128	3384	0.24	ng	97
5) 2-Methylnaphthalene	9.39	142	2099	0.25	ng	98
8) Acenaphthylene	10.47	152	11650	0.25	ng	# 93
9) Acenaphthene	10.69	154	1915	0.26	ng	# 1
10) Fluorene	11.34	166	2005	0.25	ng	# 100
12) Phenanthrene	12.75	178	11383	0.24	ng	97
13) Anthracene	12.84	178	10402	0.24	ng	96
14) Fluoranthene	14.96	202	2377	0.24	ng	96
16) Pyrene	15.41	202	2477	0.29	ng	96
18) Benzo(a)anthracene	18.05	228	7621	0.26	ng	95
19) Chrysene	18.12	228	7590	0.25	ng	94
20) Indeno(1,2,3-cd)pyrene	23.22	276	3965	0.13	ng	# 100
22) Benzo(b)fluoranthene	20.37	252	1315	0.21	ng	# 87
23) Benzo(k)fluoranthene	20.43	252	1762	0.22	ng	# 89
24) Benzo(a)pyrene	21.01	252	1307	0.22	ng	# 88
25) Dibenzo(a,h)anthracene	23.31	278	1140	0.18	ng	# 79
26) Benzo(g,h,i)perylene	23.82	276	6296	0.22	ng	# 86

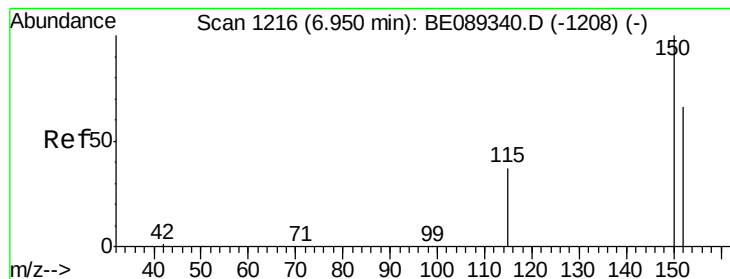
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 08 05:25:12 2015
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BASE-BE092914.M
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.95 min Scan# 1216

Delta R.T. -0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

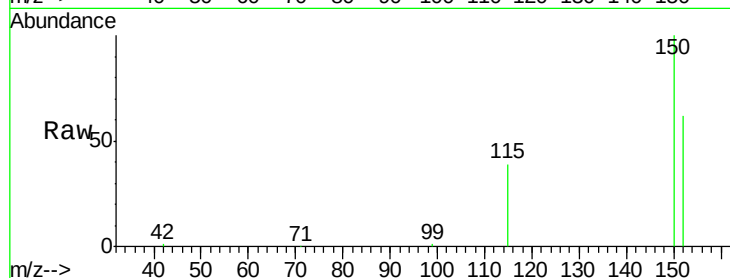
Tgt Ion:152 Resp: 17848

Ion Ratio Lower Upper

152 100

150 161.2 121.5 182.3

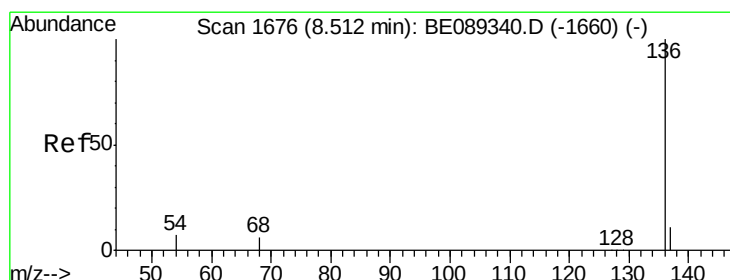
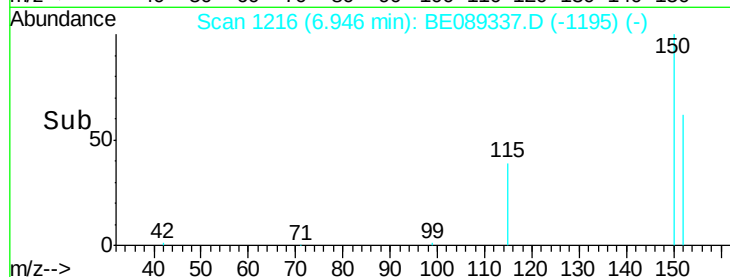
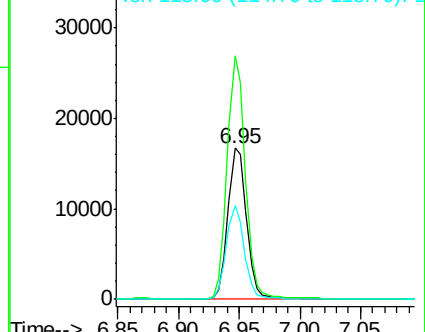
115 62.4 45.2 67.8



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

Naphthalene-d8

Concen: 5.00 ng

RT: 8.51 min Scan# 1676

Delta R.T. -0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

Tgt Ion:136 Resp: 69574

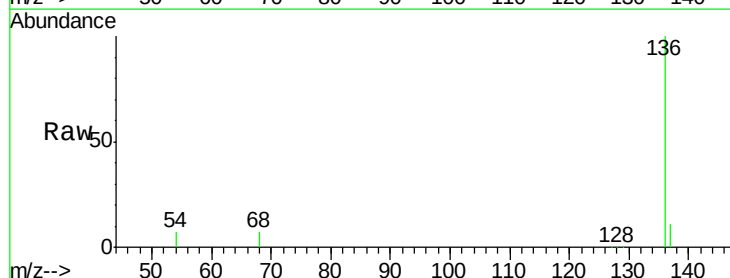
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 7.3 5.4 8.0

68 6.5 4.7 7.1

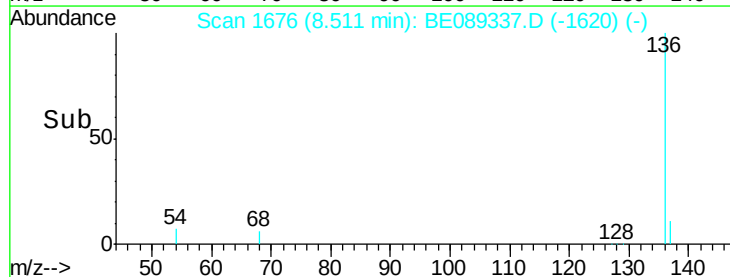
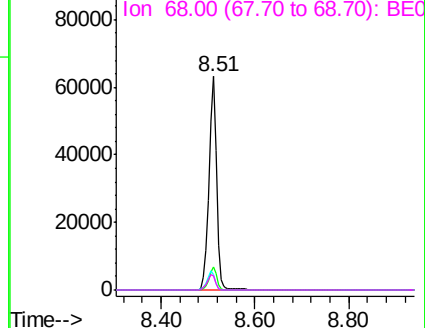


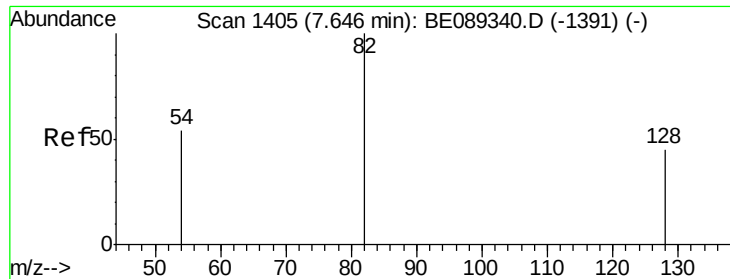
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#3

Nitrobenzene-d5

Concen: 0.21 ng

RT: 7.65 min Scan# 1408

Delta R.T. 0.01 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

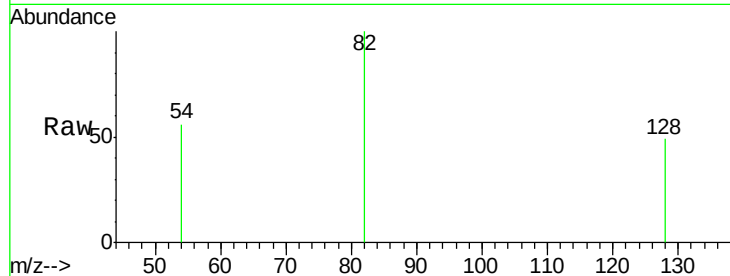
Tgt Ion: 82 Resp: 955

Ion Ratio Lower Upper

82 100

128 48.8 36.5 54.7

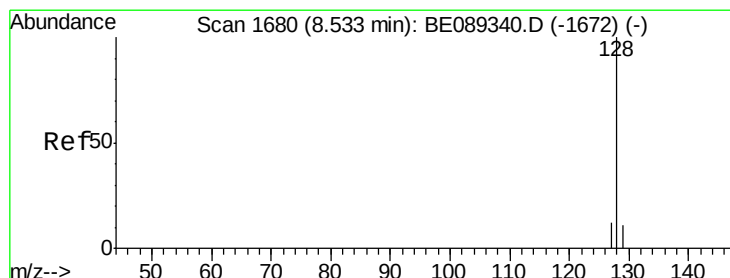
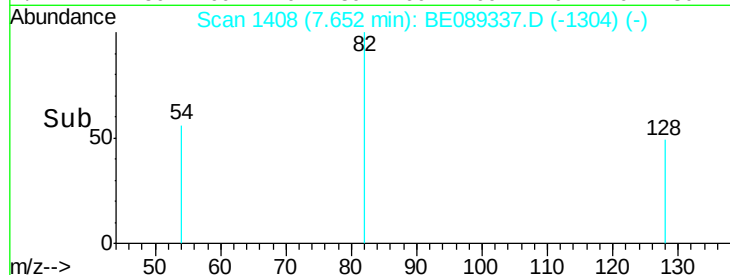
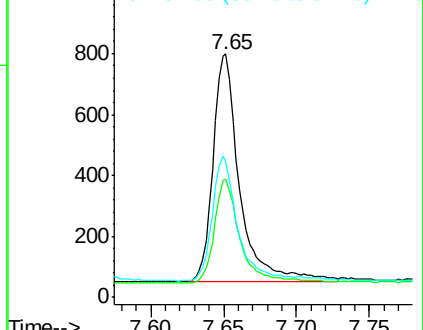
54 55.7 43.5 65.3



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



#4

Naphthalene

Concen: 0.24 ng

RT: 8.53 min Scan# 1680

Delta R.T. -0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

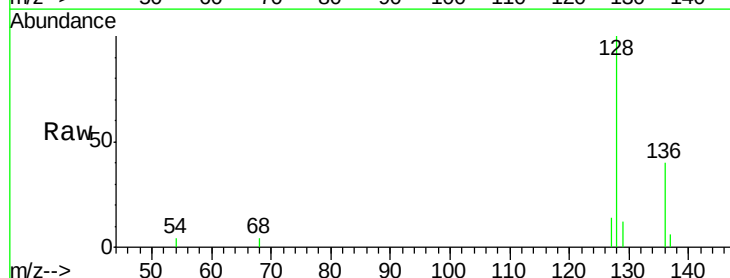
Tgt Ion: 128 Resp: 3384

Ion Ratio Lower Upper

128 100

129 11.8 8.8 13.2

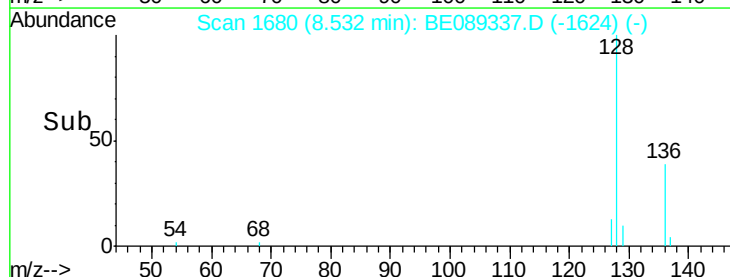
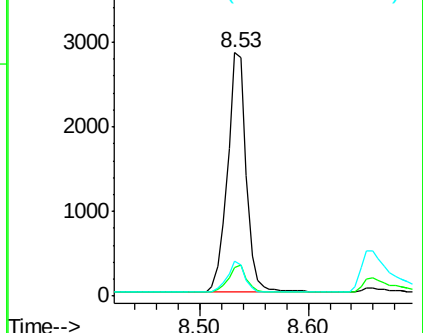
127 14.2 10.0 15.0

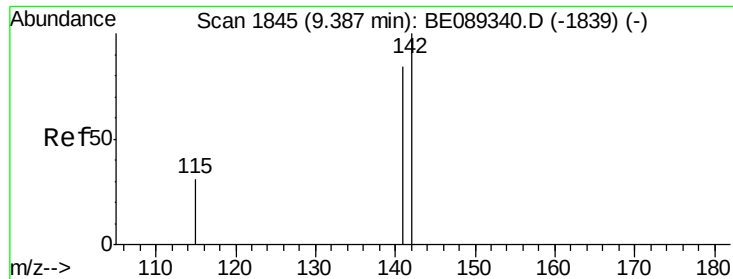


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 0.25 ng

RT: 9.39 min Scan# 1846

Delta R.T. 0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

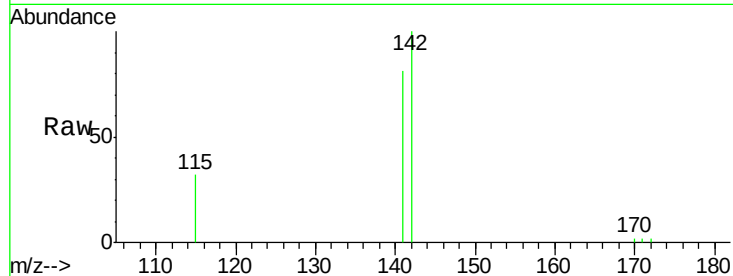
Tgt Ion:142 Resp: 2099

Ion Ratio Lower Upper

142 100

141 80.8 66.3 99.5

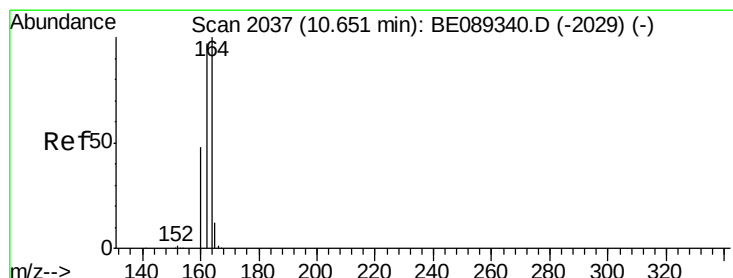
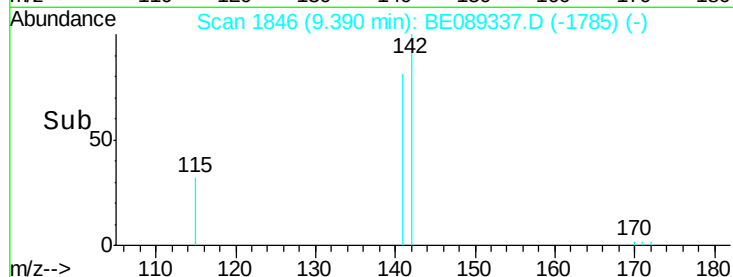
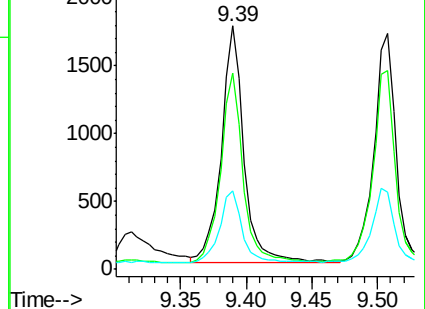
115 32.3 25.2 37.8



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



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.65 min Scan# 2037

Delta R.T. -0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

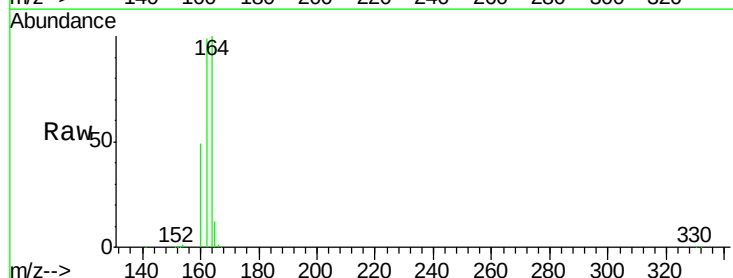
Tgt Ion:164 Resp: 32884

Ion Ratio Lower Upper

164 100

162 99.5 77.4 116.2

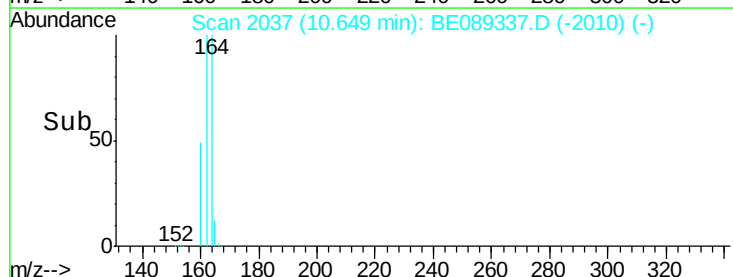
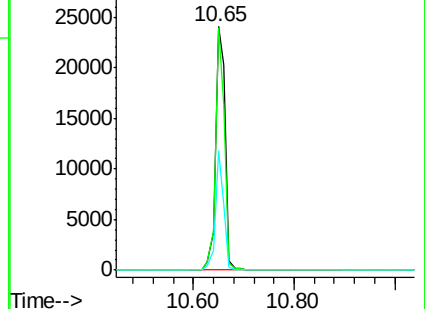
160 49.1 38.2 57.4

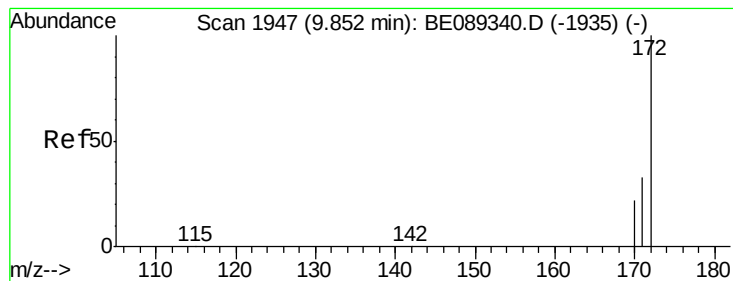


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 0.23 ng

RT: 9.85 min Scan# 1948

Delta R.T. 0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

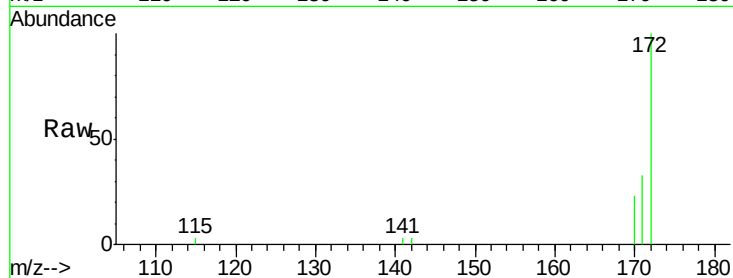
Tgt Ion:172 Resp: 1947

Ion Ratio Lower Upper

172 100

171 33.0 26.4 39.6

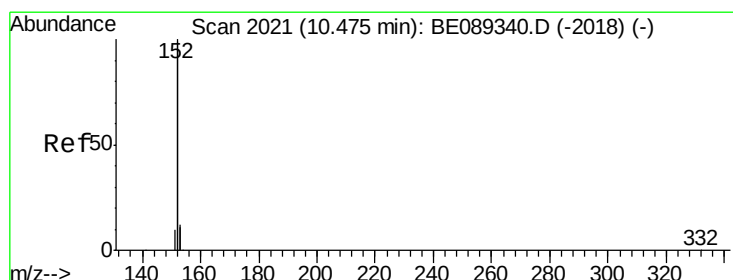
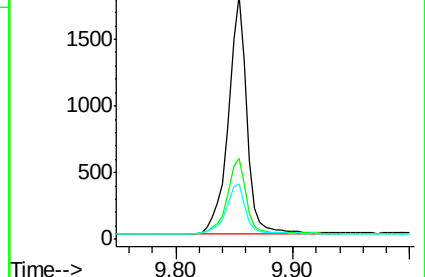
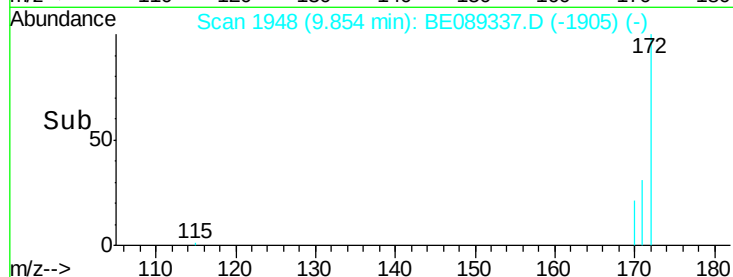
170 22.7 18.0 27.0



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



#8

Acenaphthylene

Concen: 0.25 ng

RT: 10.47 min Scan# 2021

Delta R.T. -0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

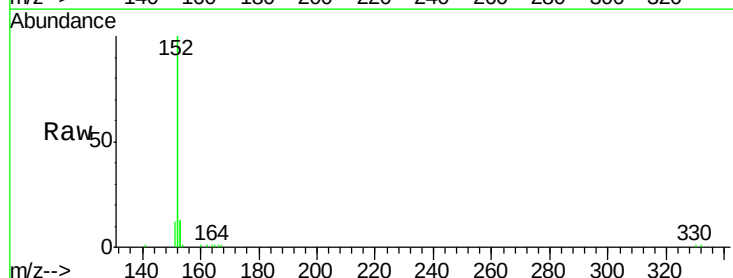
Tgt Ion:152 Resp: 11650

Ion Ratio Lower Upper

152 100

151 5.8 8.1 12.1#

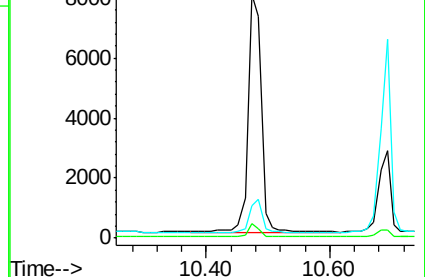
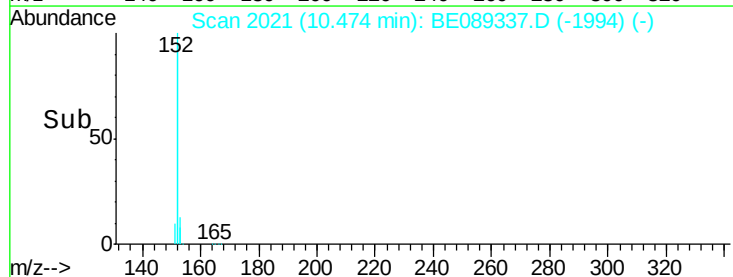
153 13.3 9.8 14.6

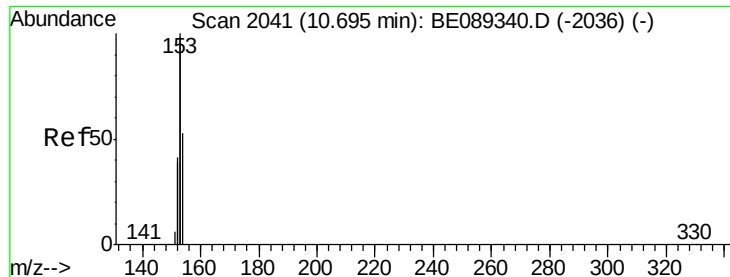


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.26 ng

RT: 10.69 min Scan# 2041

Delta R.T. -0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

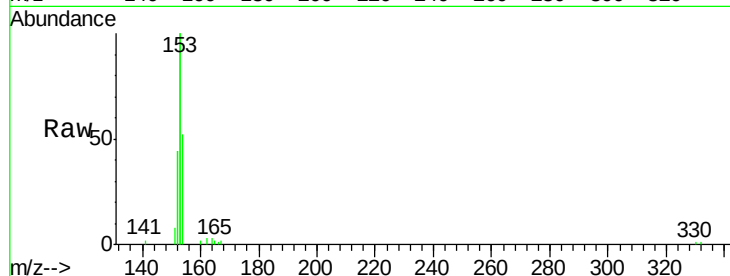
Tgt Ion:154 Resp: 1915

Ion Ratio Lower Upper

154 100

153 386.1 150.2 225.4#

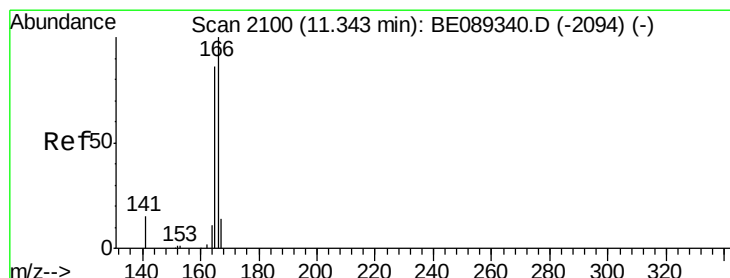
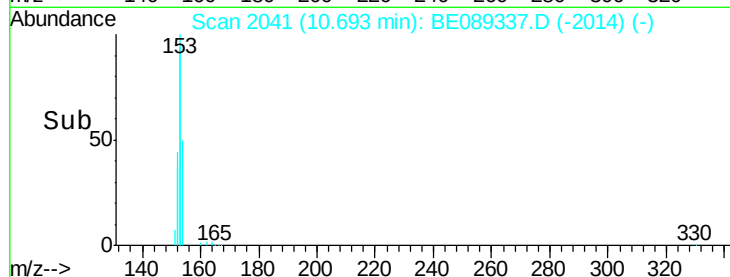
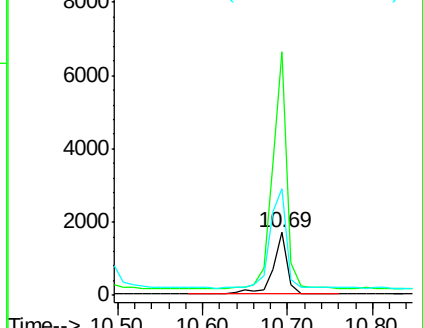
152 168.6 61.6 92.4#



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



#10

Fluorene

Concen: 0.25 ng

RT: 11.34 min Scan# 2100

Delta R.T. -0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

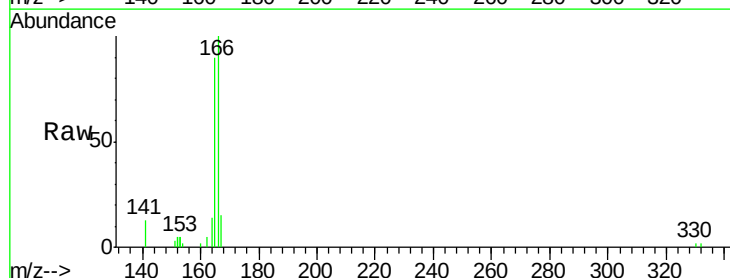
Tgt Ion:166 Resp: 2005

Ion Ratio Lower Upper

166 100

165 90.9 0.0 0.0#

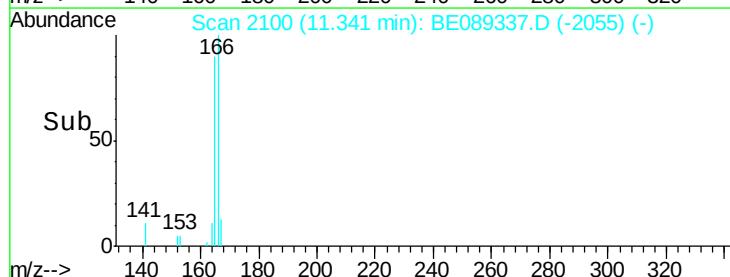
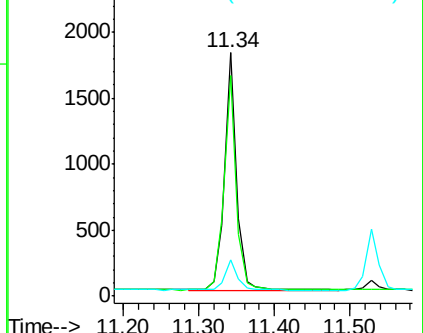
167 13.4 0.0 0.0#

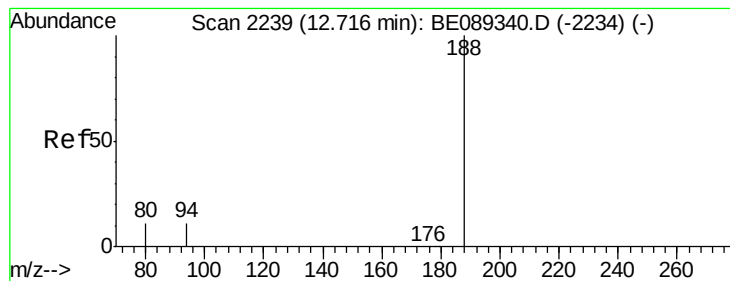


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.72 min Scan# 2240

Delta R.T. 0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

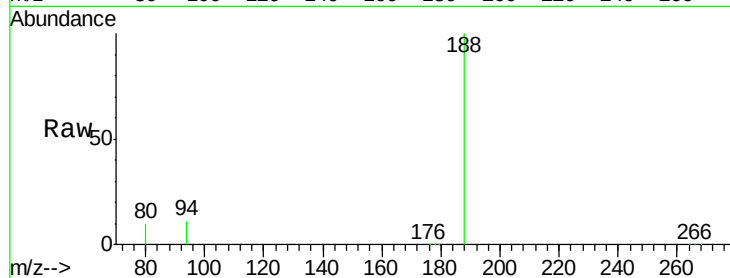
Tgt Ion:188 Resp: 50562

Ion Ratio Lower Upper

188 100

94 10.6 11.0 12.2#

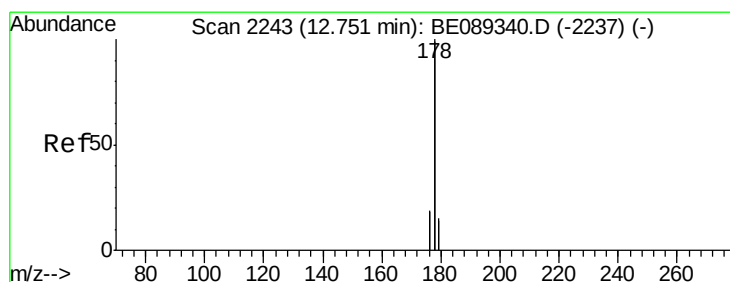
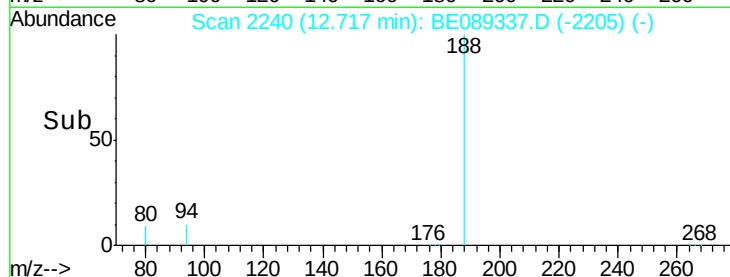
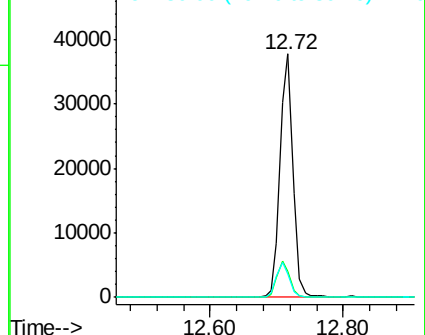
80 9.5 10.1 11.1#



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



#12

Phenanthrene

Concen: 0.24 ng

RT: 12.75 min Scan# 2244

Delta R.T. 0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

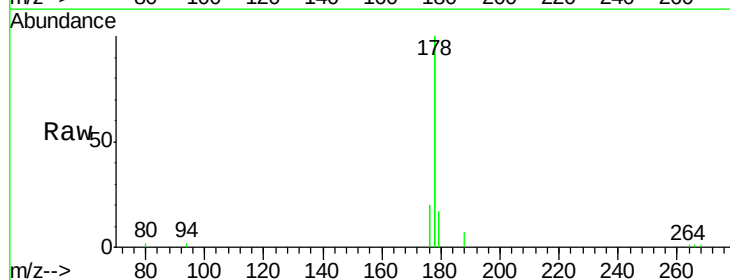
Tgt Ion:178 Resp: 11383

Ion Ratio Lower Upper

178 100

176 19.6 15.1 22.7

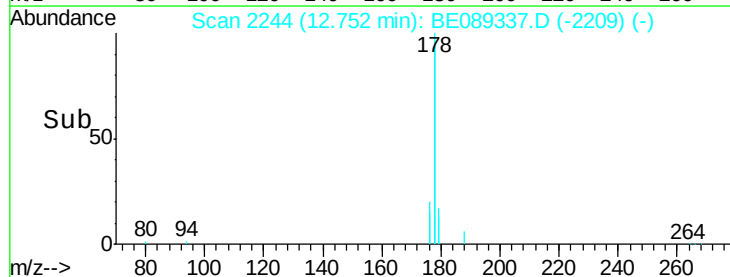
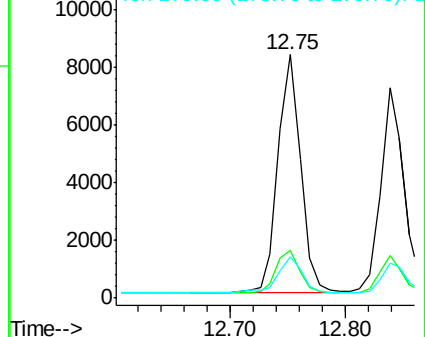
179 17.2 12.2 18.2

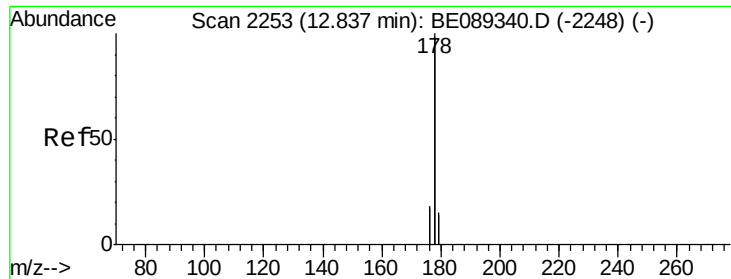


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#13

Anthracene

Concen: 0.24 ng

RT: 12.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

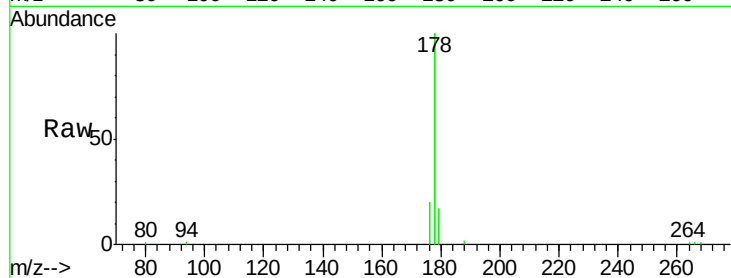
Tgt Ion:178 Resp: 10402

Ion Ratio Lower Upper

178 100

176 20.3 14.7 22.1

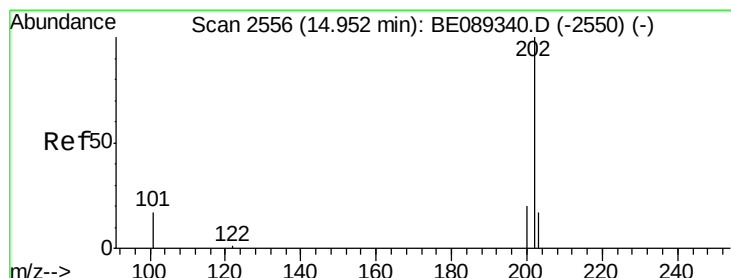
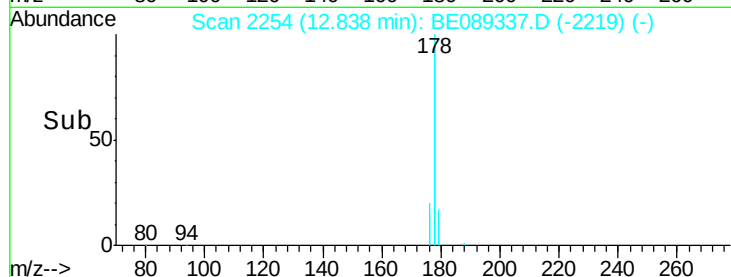
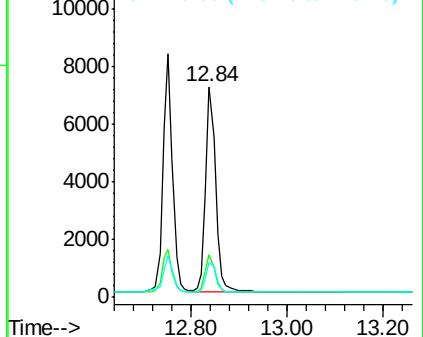
179 16.9 12.0 18.0



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



#14

Fluoranthene

Concen: 0.24 ng

RT: 14.96 min Scan# 2558

Delta R.T. 0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

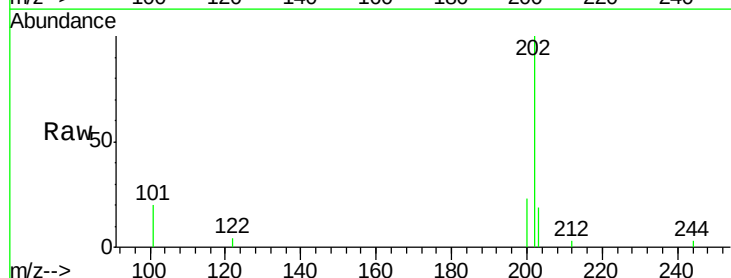
Tgt Ion:202 Resp: 2377

Ion Ratio Lower Upper

202 100

101 19.6 0.0 37.9

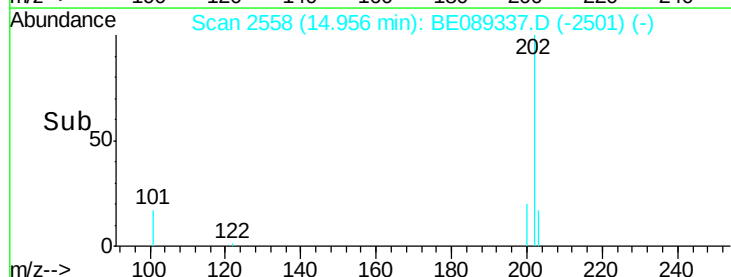
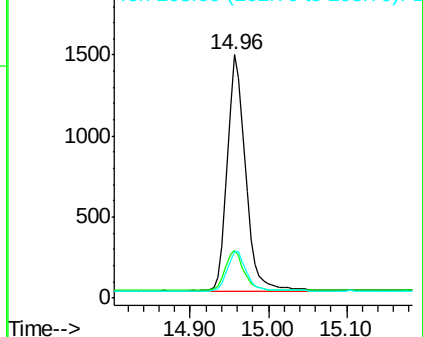
203 19.4 0.0 37.5

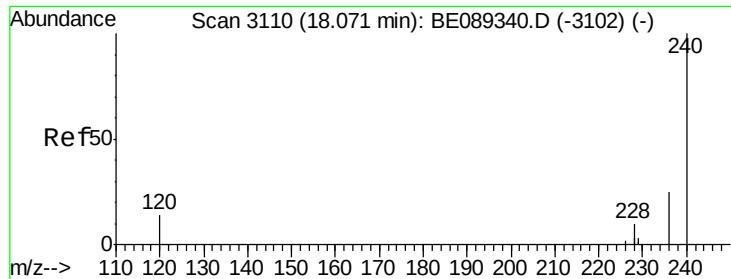


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

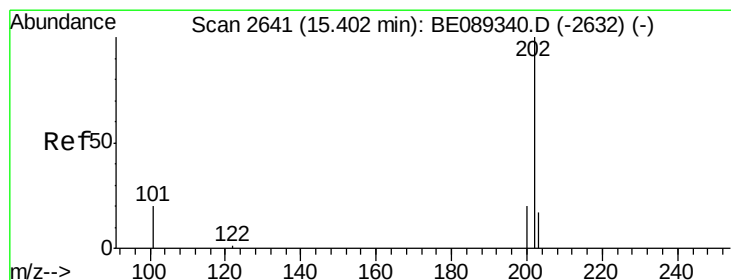
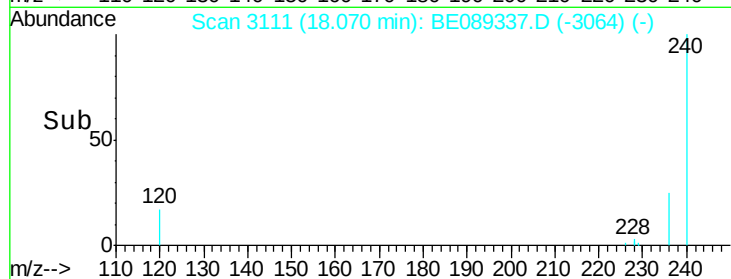
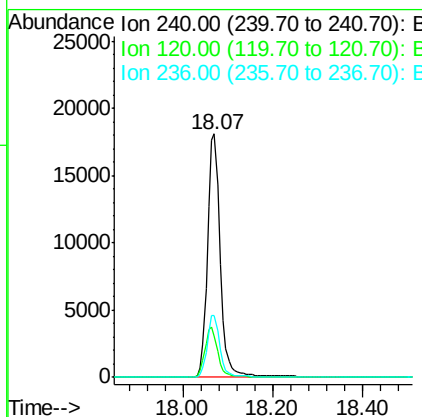
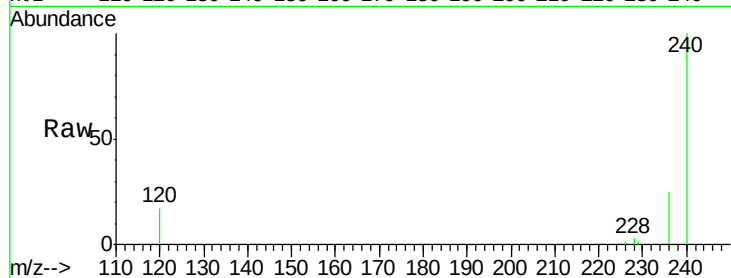




#15
Chrysene-d12
Concen: 5.00 ng
RT: 18.07 min Scan# 3111
Delta R.T. -0.00 min
Lab File: BE089337.D
Acq: 7 Jan 2015 20:26

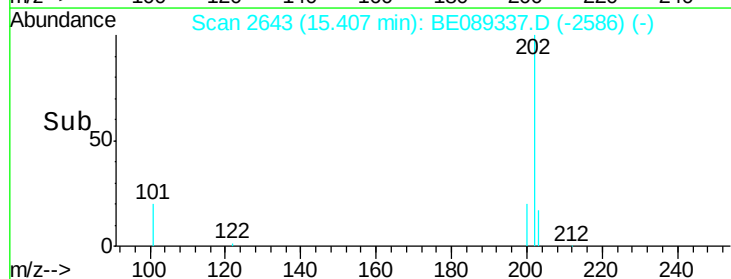
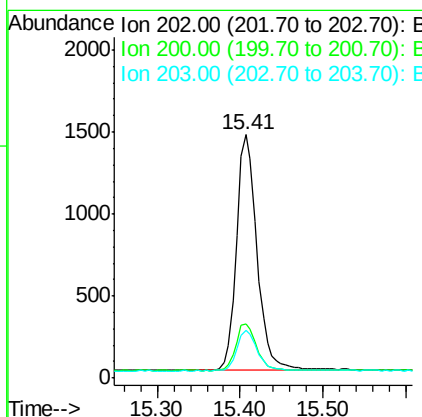
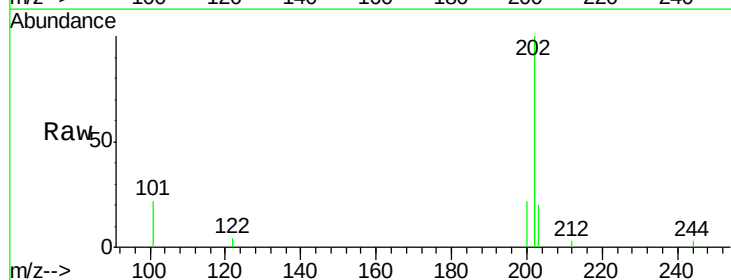
Instrument :
BNA_E
LabSampleId :
SSTDIC0.2

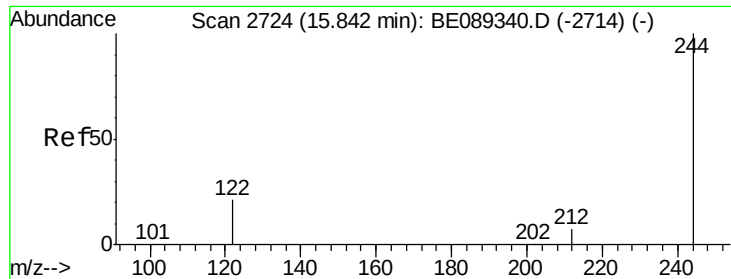
Tgt Ion:240 Resp: 35276
Ion Ratio Lower Upper
240 100
120 17.1 11.8 17.6
236 25.5 20.0 30.0



#16
Pyrene
Concen: 0.29 ng
RT: 15.41 min Scan# 2643
Delta R.T. 0.00 min
Lab File: BE089337.D
Acq: 7 Jan 2015 20:26

Tgt Ion:202 Resp: 2477
Ion Ratio Lower Upper
202 100
200 22.2 16.8 25.2
203 19.7 14.0 21.0

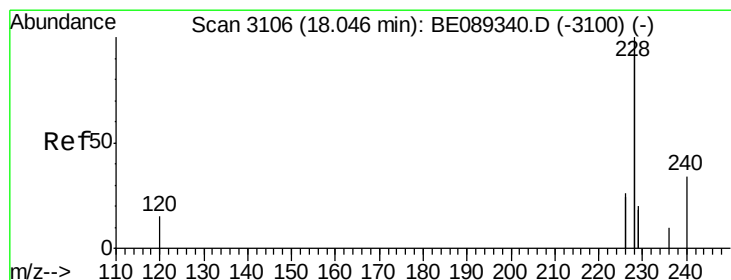
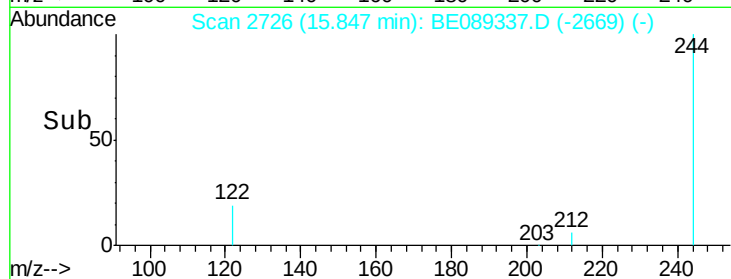
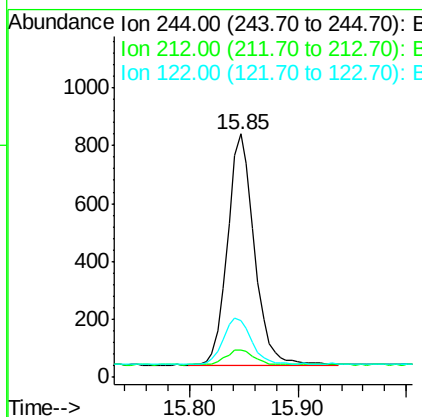
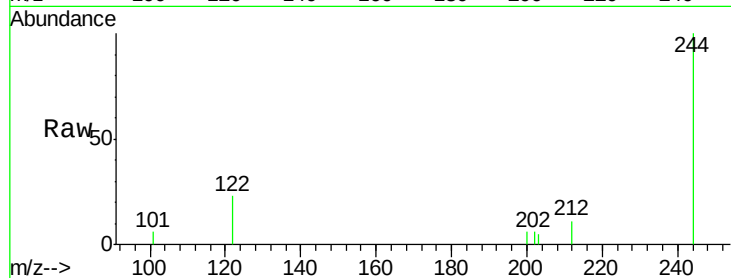




#17
 Terphenyl-d14
 Concen: 0.26 ng
 RT: 15.85 min Scan# 2726
 Delta R.T. 0.00 min
 Lab File: BE089337.D
 Acq: 7 Jan 2015 20:26

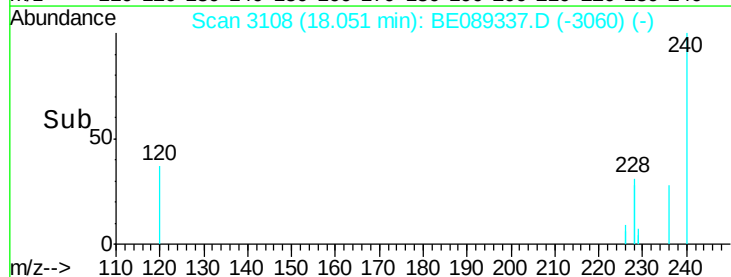
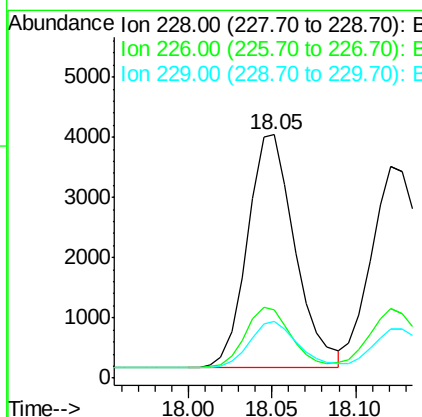
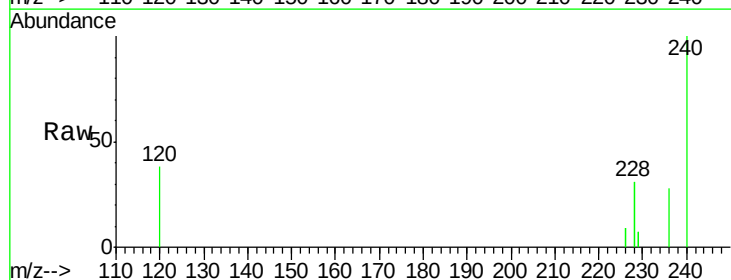
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.2

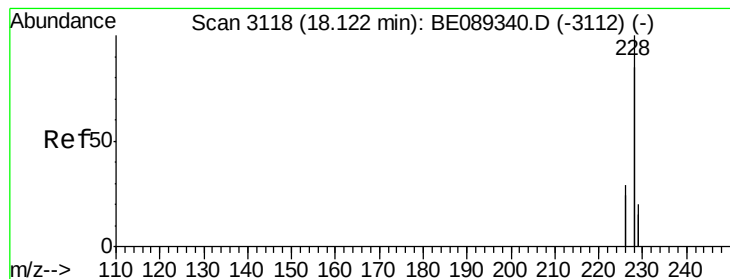
Tgt Ion: 244 Resp: 1360
 Ion Ratio Lower Upper
 244 100
 212 11.2 6.3 9.5#
 122 23.1 17.7 26.5



#18
 Benzo(a)anthracene
 Concen: 0.26 ng
 RT: 18.05 min Scan# 3108
 Delta R.T. 0.01 min
 Lab File: BE089337.D
 Acq: 7 Jan 2015 20:26

Tgt Ion: 228 Resp: 7621
 Ion Ratio Lower Upper
 228 100
 226 27.8 21.0 31.6
 229 23.3 16.0 24.0





#19

Chrysene

Concen: 0.25 ng

RT: 18.12 min Scan# 3119

Delta R.T. -0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

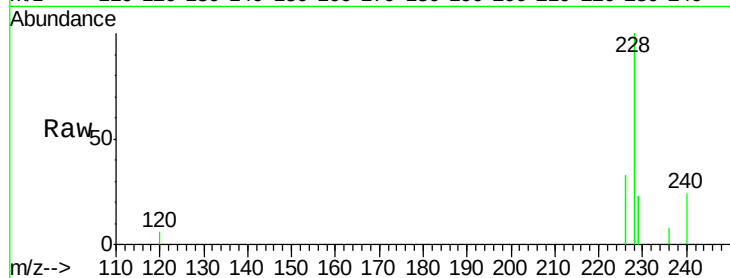
Tgt Ion:228 Resp: 7590

Ion Ratio Lower Upper

228 100

226 32.8 23.5 35.3

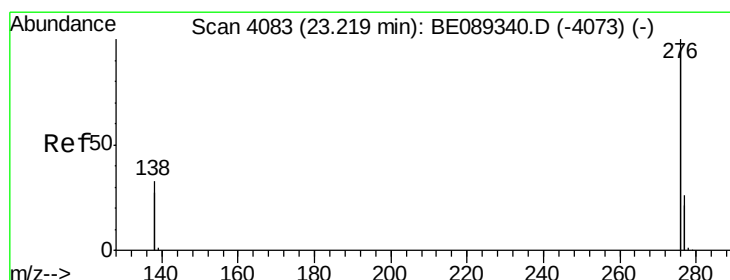
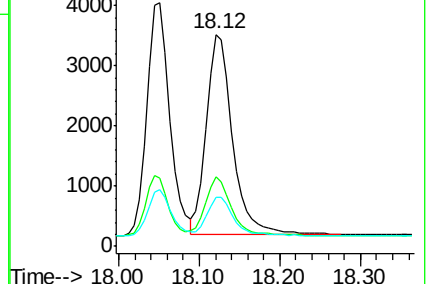
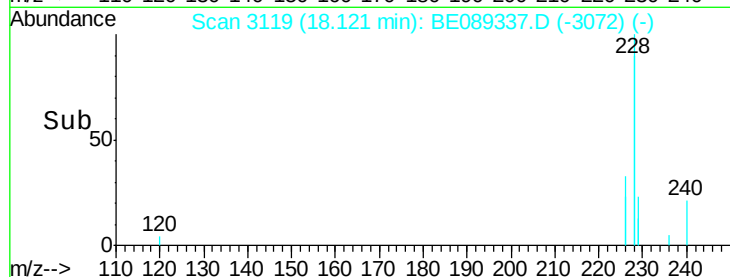
229 23.1 16.1 24.1



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



#20

Indeno(1,2,3-cd)pyrene

Concen: 0.13 ng

RT: 23.22 min Scan# 4085

Delta R.T. 0.01 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

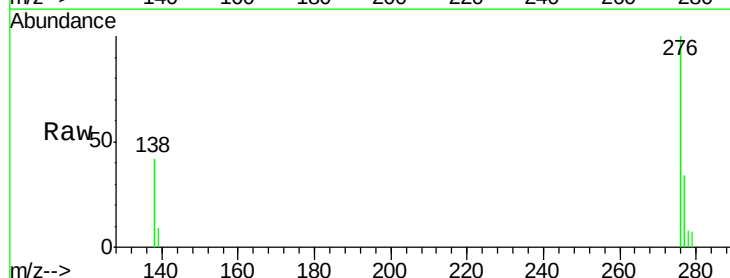
Tgt Ion:276 Resp: 3965

Ion Ratio Lower Upper

276 100

138 29.8 0.0 0.0#

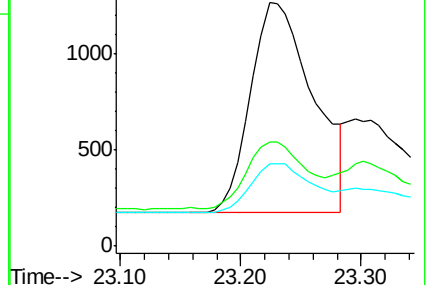
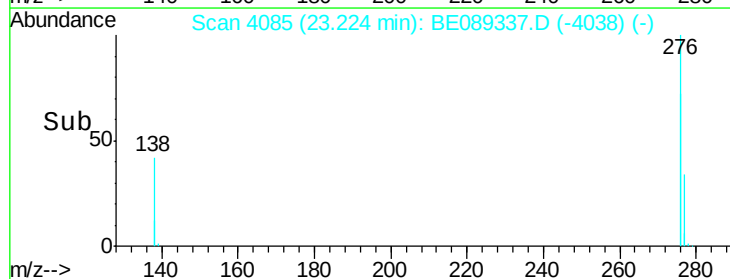
277 22.5 0.0 0.0#

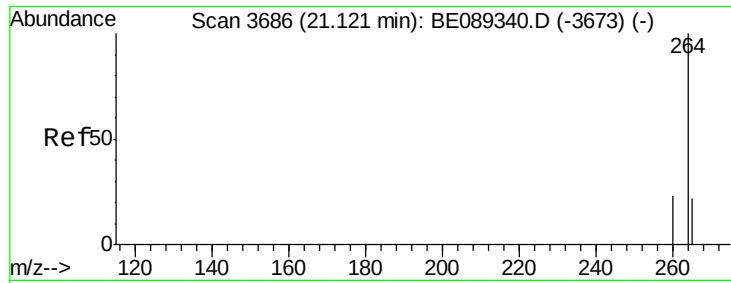


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



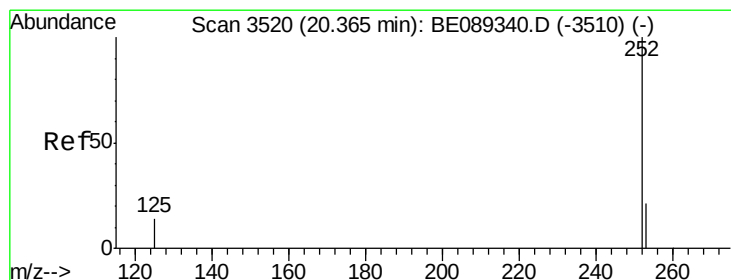
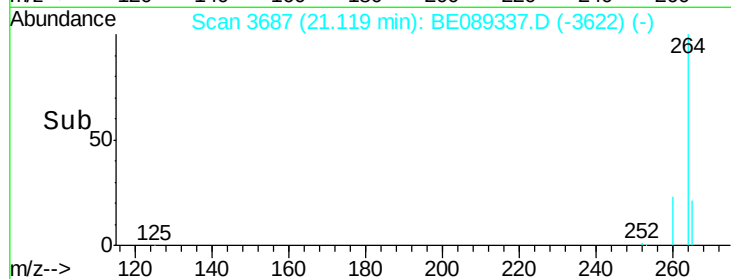
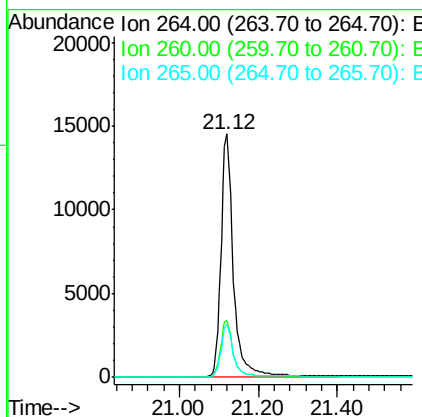
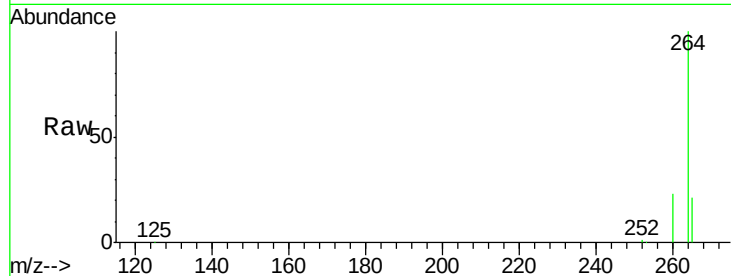


#21
Perylene-d12
Concen: 5.00 ng
RT: 21.12 min Scan# 3687
Delta R.T. -0.00 min
Lab File: BE089337.D
Acq: 7 Jan 2015 20:26

Instrument :
BNA_E
LabSampleId :
SSTDIC0.2

Tgt Ion: 264 Resp: 31561

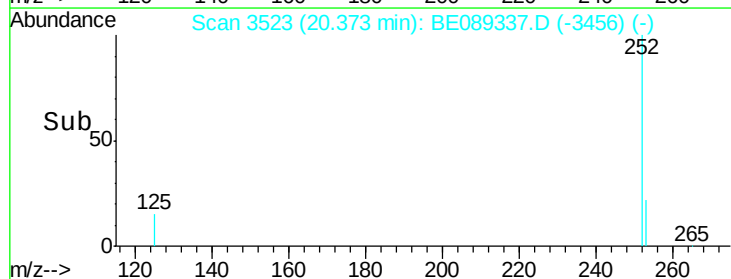
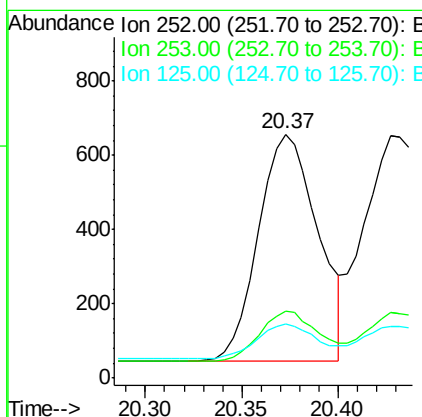
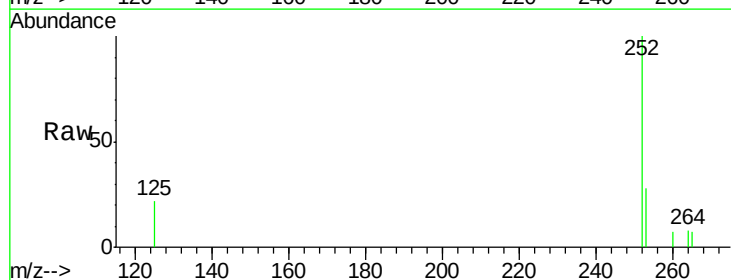
Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.9	28.3
265	21.5	17.4	26.2

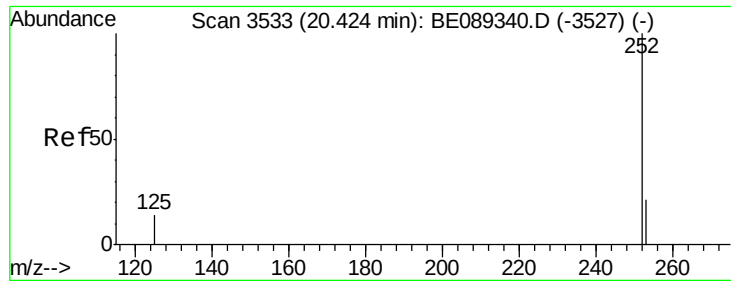


#22
Benzo(b)fluoranthene
Concen: 0.21 ng
RT: 20.37 min Scan# 3523
Delta R.T. 0.01 min
Lab File: BE089337.D
Acq: 7 Jan 2015 20:26

Tgt Ion: 252 Resp: 1315

Ion	Ratio	Lower	Upper
252	100		
253	27.6	17.8	26.6#
125	22.3	12.6	18.8#





#23

Benzo(k)fluoranthene

Concen: 0.22 ng

RT: 20.43 min Scan# 3535

Delta R.T. 0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

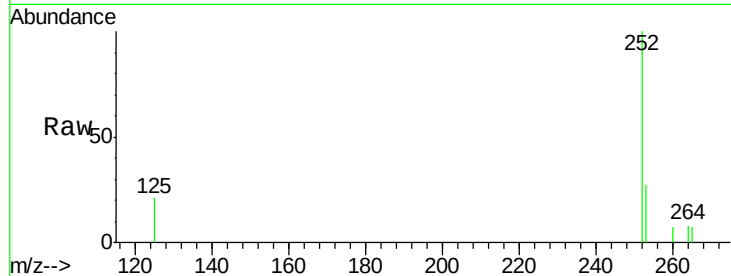
Tgt Ion:252 Resp: 1762

Ion Ratio Lower Upper

252 100

253 26.9 18.0 27.0

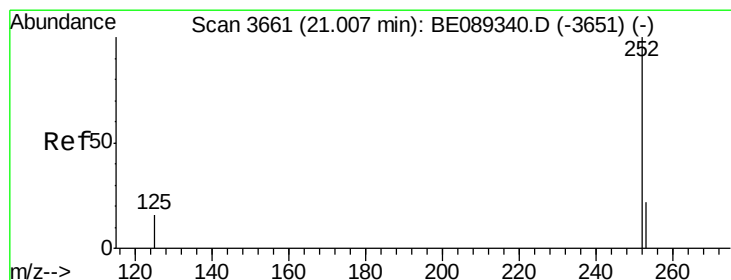
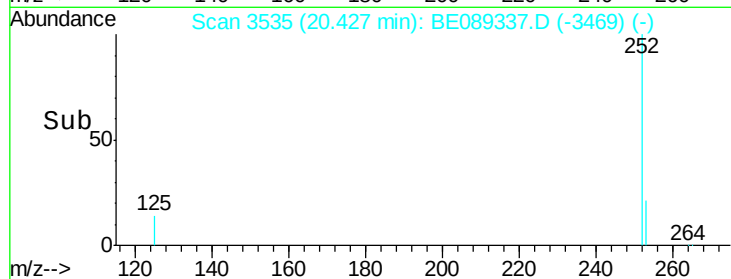
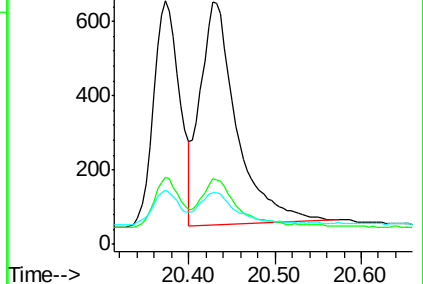
125 21.4 12.4 18.6#



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



#24

Benzo(a)pyrene

Concen: 0.22 ng

RT: 21.01 min Scan# 3663

Delta R.T. 0.00 min

Lab File: BE089337.D

Acq: 7 Jan 2015 20:26

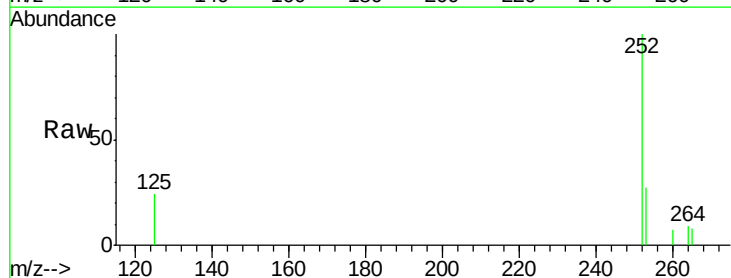
Tgt Ion:252 Resp: 1307

Ion Ratio Lower Upper

252 100

253 27.5 18.3 27.5#

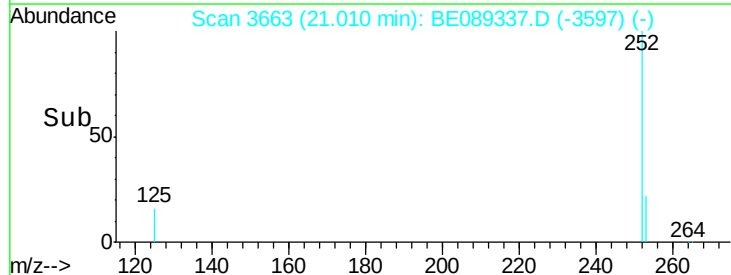
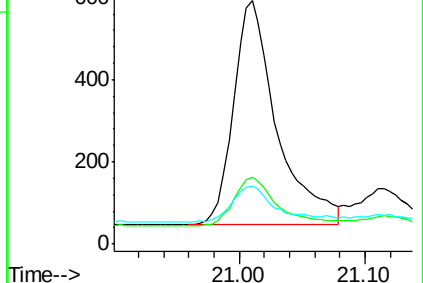
125 23.9 13.8 20.8#

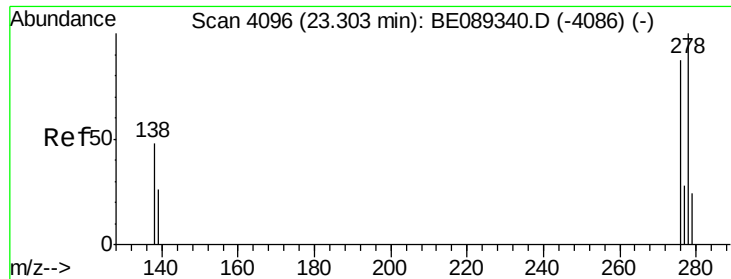


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Dibenzo(a,h)anthracene

Concen: 0.18 ng

RT: 23.31 min Scan# 4099

Delta R.T. 0.01 min

Lab File: BE089337.D

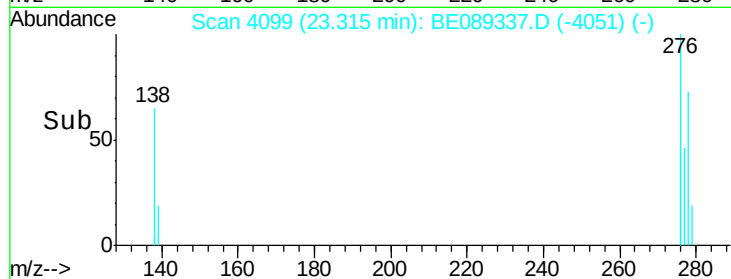
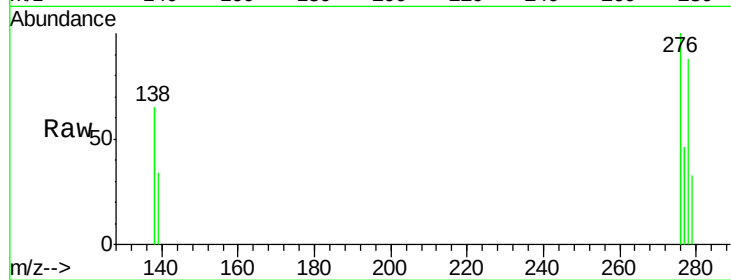
Acq: 7 Jan 2015 20:26

Instrument :

BNA_E

LabSampleId :

SSTDICC0.2



Tgt Ion:278 Resp: 1140

Ion Ratio Lower Upper

278 100

139 39.1 22.9 34.3#

279 37.2 20.8 31.2#