

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020515\
 Data File : BE089515.D
 Acq On : 5 Feb 2015 22:48
 Operator : TP/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001EC

Quant Time: Feb 06 04:13:03 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE020515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 06 03:21:38 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.49	152	23290	5.00	ng	0.00
2) Naphthalene-d8	12.40	136	98177	5.00	ng	0.00
6) Acenaphthene-d10	16.58	164	47925	5.00	ng	-0.01
11) Phenanthrene-d10	19.90	188	95440	5.00	ng	0.00
16) Chrysene-d12	23.76	240	109286	5.00	ng	0.00
22) Perylene-d12	25.46	264	108386	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.75	82	10135	1.35	ng	0.00
7) 2-Fluorobiphenyl	15.03	172	26597	1.76	ng	0.00
18) Terphenyl-d14	22.40	244	37834	1.99	ng	0.00

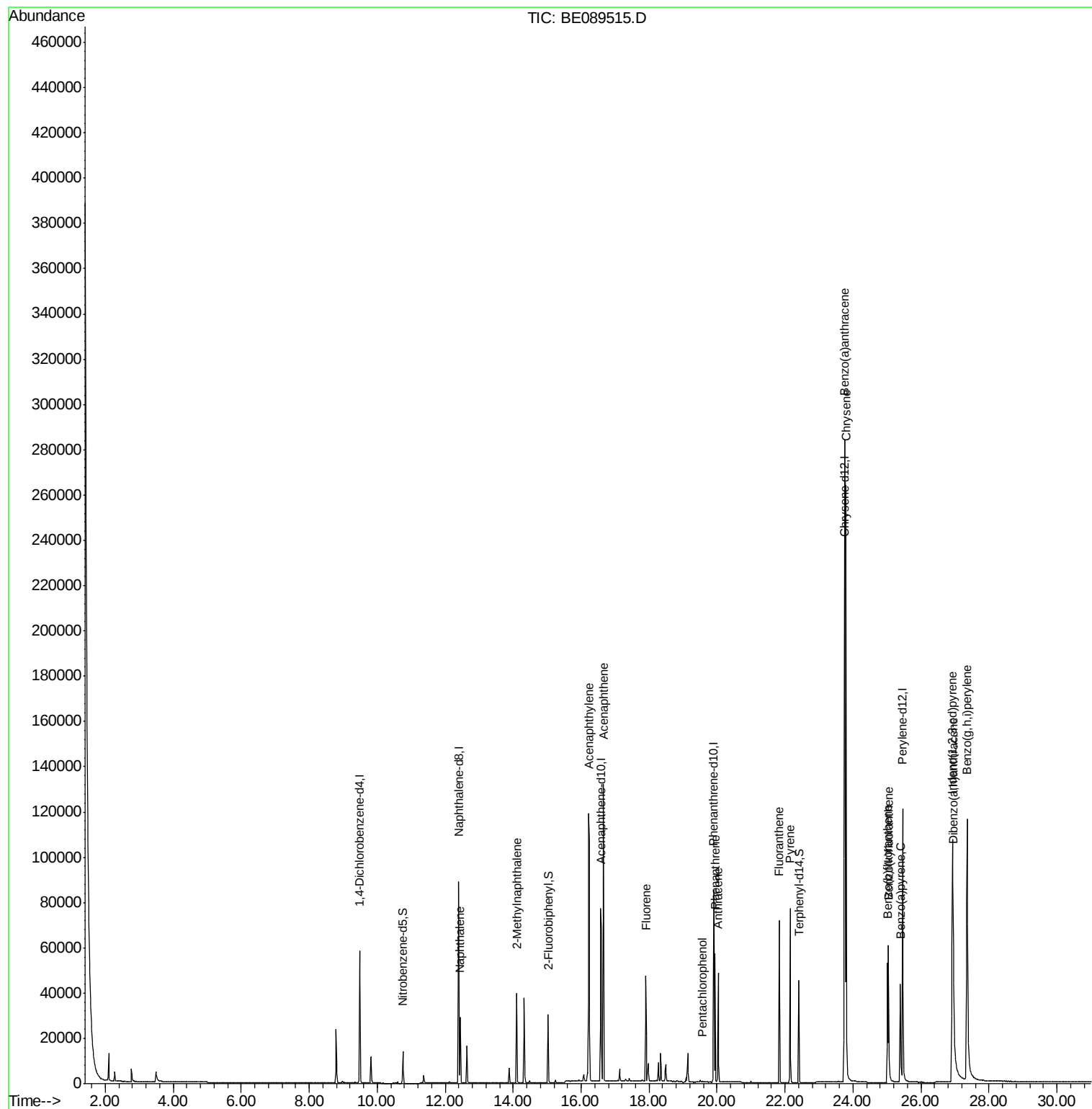
Target Compounds				Qvalue		
4) Naphthalene	12.44	128	31737	1.28	ng	99
5) 2-Methylnaphthalene	14.10	142	23771	1.47	ng	97
8) Acenaphthylene	16.23	152	161897	1.57	ng	100
9) Acenaphthene	16.65	154	24469	1.55	ng	96
10) Fluorene	17.91	166	30048	1.53	ng	100
12) Pentachlorophenol	19.58	266	281	0.01	ng	95
13) Phenanthrene	19.94	178	49333	1.70	ng	100
14) Anthracene	20.03	178	46499	1.58	ng	99
15) Fluoranthene	21.83	202	49189	1.56	ng	99
17) Pyrene	22.14	202	53592	1.72	ng	100
19) Benzo(a)anthracene	23.75	228	203715	1.55	ng	96
20) Chrysene	23.79	228	218960	1.67	ng	95
21) Indeno(1,2,3-cd)pyrene	26.92	276	233679	1.53	ng	97
23) Benzo(b)fluoranthene	25.01	252	47207	1.55	ng	99
24) Benzo(k)fluoranthene	25.05	252	60341	1.75	ng	98
25) Benzo(a)pyrene	25.39	252	46067	1.53	ng	98
26) Dibenzo(a,h)anthracene	26.95	278	50805	1.58	ng	97
27) Benzo(g,h,i)perylene	27.36	276	200287	1.61	ng	96

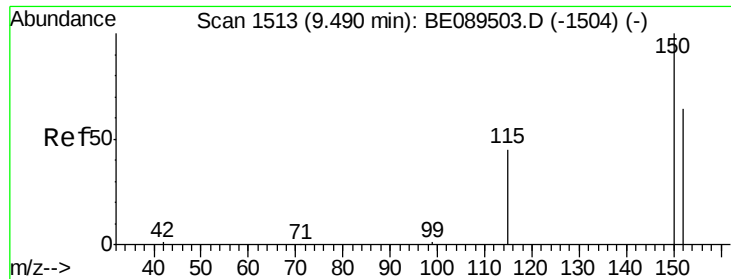
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.49 min Scan# 1512

Delta R.T. -0.00 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

Instrument :

BNA_E

LabSampleId :

SSTDCCC001EC

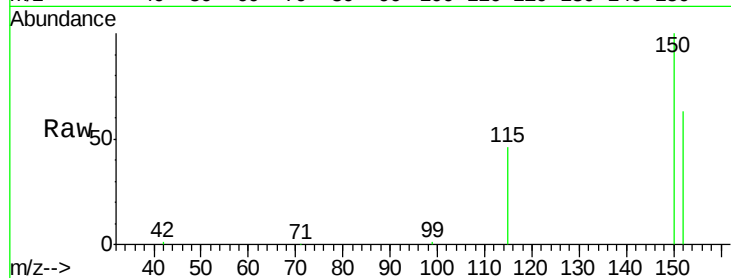
Tgt Ion:152 Resp: 23290

Ion Ratio Lower Upper

152 100

150 157.9 125.0 187.6

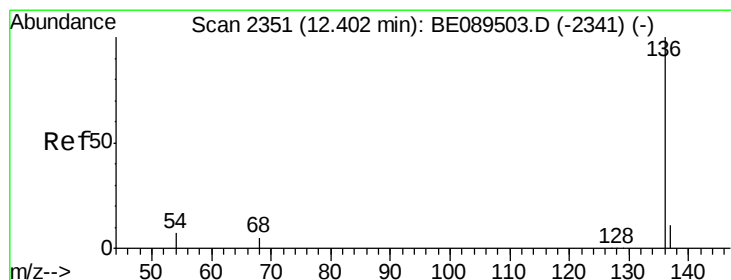
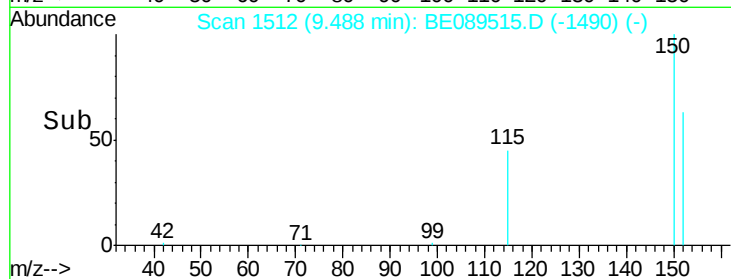
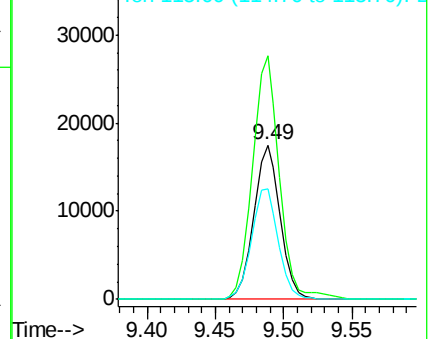
115 72.0 56.6 85.0



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: 12.40 min Scan# 2349

Delta R.T. -0.01 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

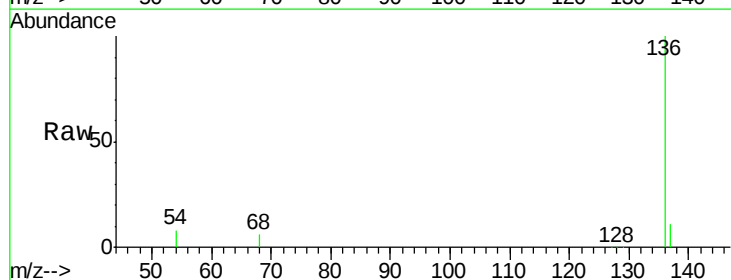
Tgt Ion:136 Resp: 98177

Ion Ratio Lower Upper

136 100

137 10.6 8.6 12.8

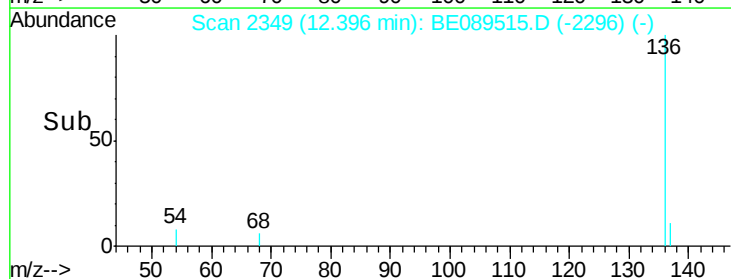
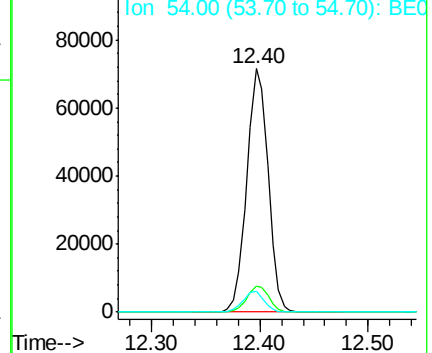
54 8.4 6.0 9.0

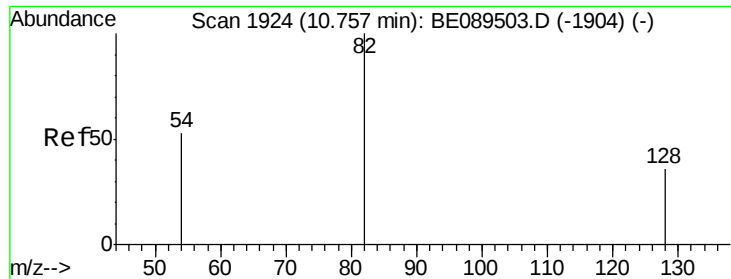


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 1.35 ng

RT: 10.75 min Scan# 1922

Delta R.T. -0.00 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

Instrument :

BNA_E

LabSampleId :

SSTDCCC001EC

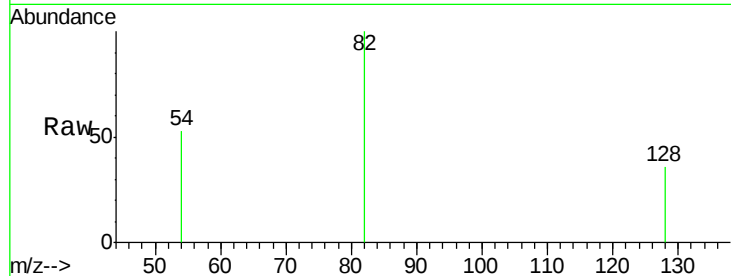
Tgt Ion: 82 Resp: 10135

Ion Ratio Lower Upper

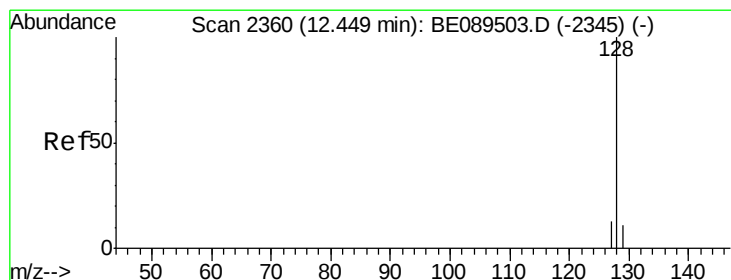
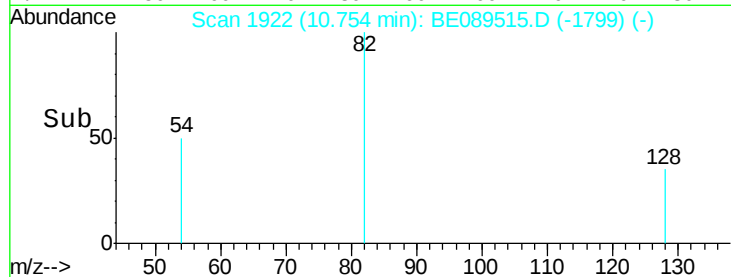
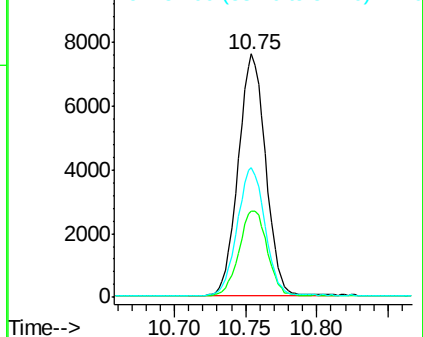
82 100

128 35.6 29.3 43.9

54 53.1 42.6 64.0



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: 1.28 ng

RT: 12.44 min Scan# 2358

Delta R.T. -0.01 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

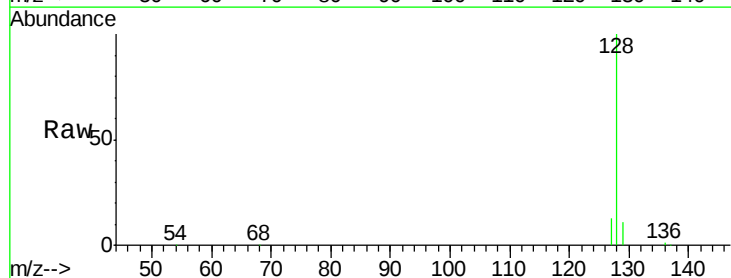
Tgt Ion: 128 Resp: 31737

Ion Ratio Lower Upper

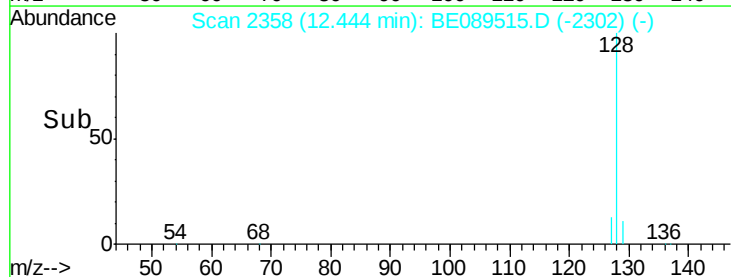
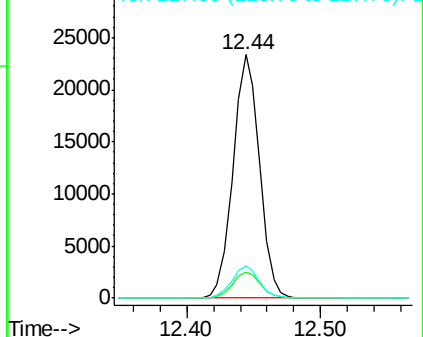
128 100

129 10.8 8.8 13.2

127 13.3 10.3 15.5



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





#5

2-Methylnaphthalene

Concen: 1.47 ng

RT: 14.10 min Scan# 2692

Delta R.T. -0.00 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

Instrument :

BNA_E

LabSampleId :

SSTDCCC001EC

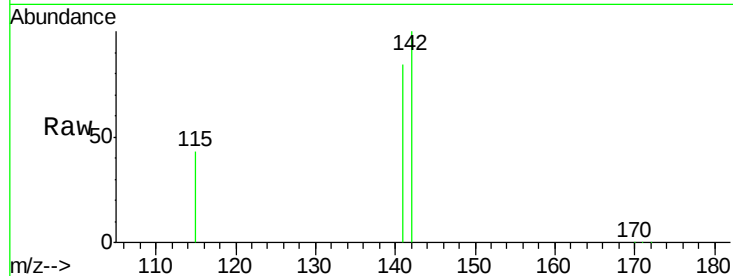
Tgt Ion:142 Resp: 23771

Ion Ratio Lower Upper

142 100

141 84.3 66.3 99.5

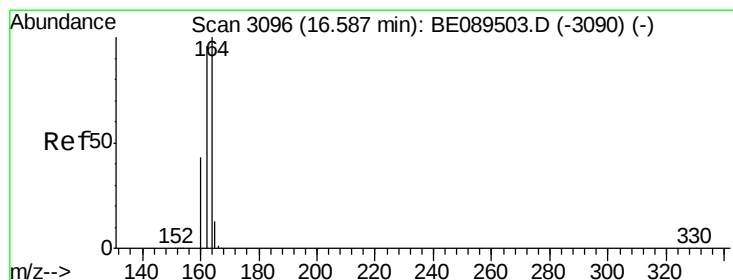
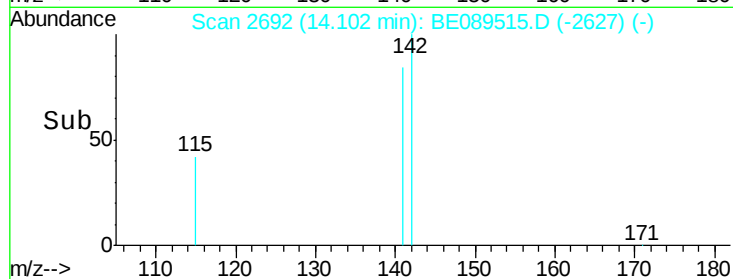
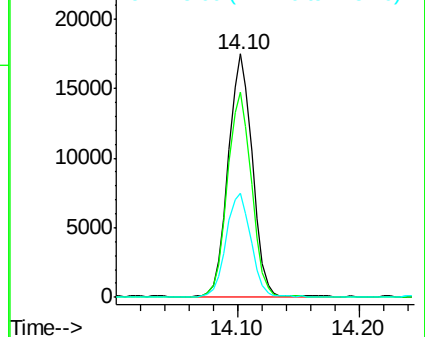
115 42.5 31.1 46.7



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: 16.58 min Scan# 3094

Delta R.T. -0.01 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

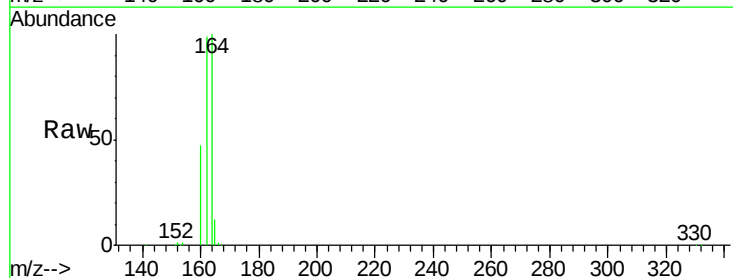
Tgt Ion:164 Resp: 47925

Ion Ratio Lower Upper

164 100

162 99.4 76.6 115.0

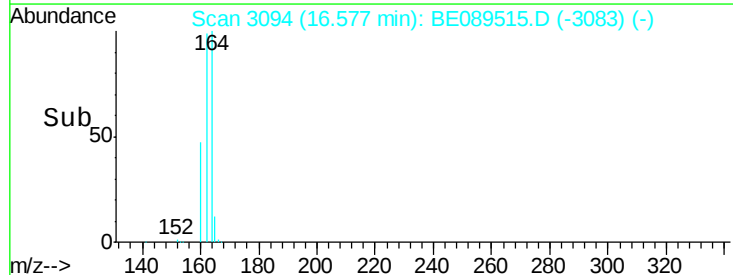
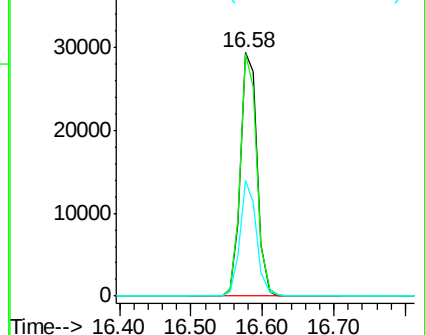
160 47.3 34.6 52.0



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: 1.76 ng

RT: 15.03 min Scan# 2896

Delta R.T. 0.00 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

Instrument :

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LabSampleId :

SSTDCCC001EC

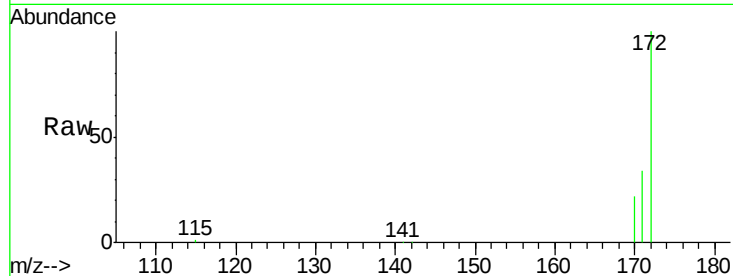
Tgt Ion:172 Resp: 26597

Ion Ratio Lower Upper

172 100

171 33.5 27.4 41.0

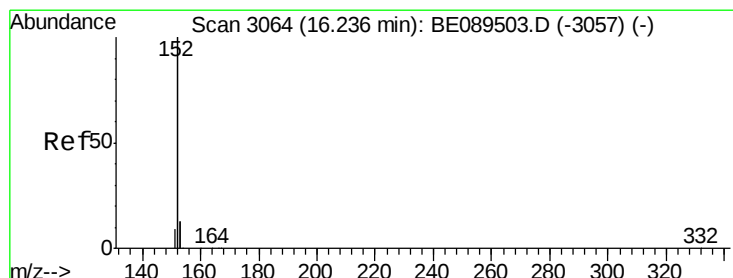
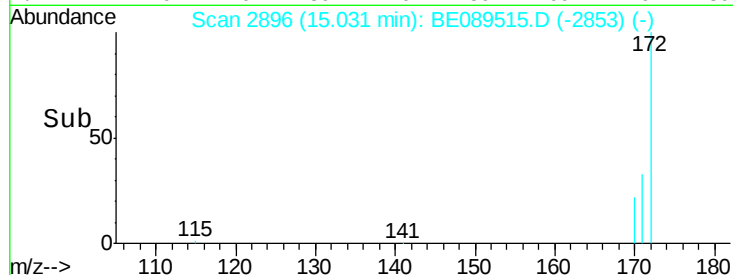
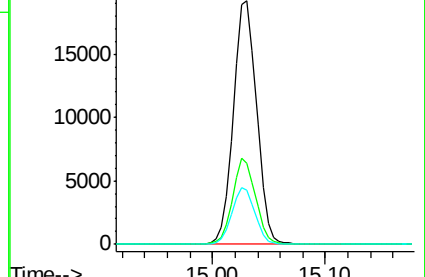
170 22.1 18.4 27.6



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: 1.57 ng

RT: 16.23 min Scan# 3062

Delta R.T. -0.01 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

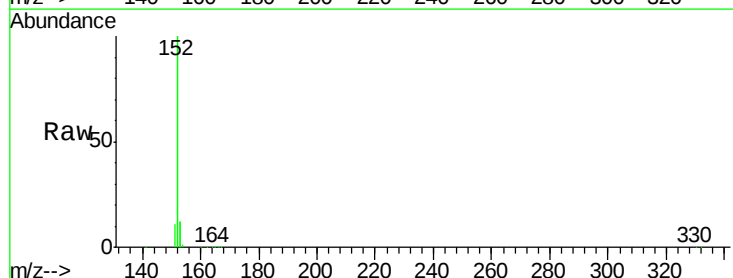
Tgt Ion:152 Resp: 161897

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

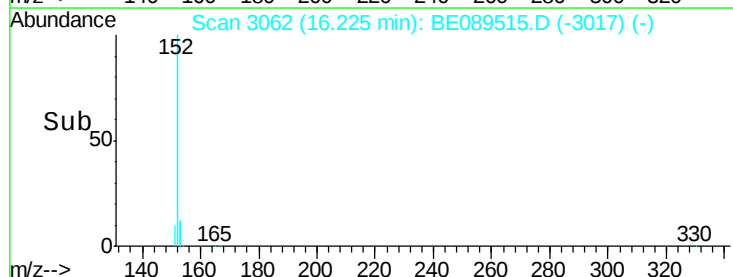
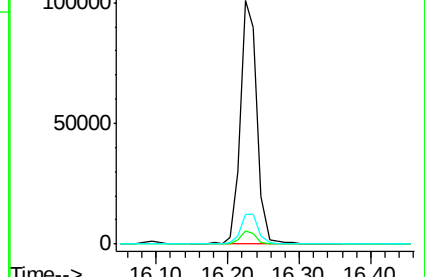
153 12.9 10.4 15.6

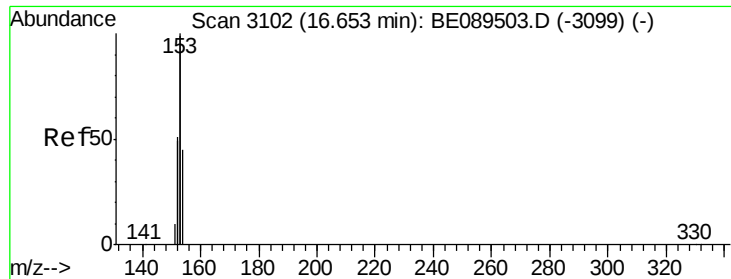


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 1.55 ng

RT: 16.65 min Scan# 3101

Delta R.T. 0.00 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

Instrument :

BNA_E

LabSampleId :

SSTDCCC001EC

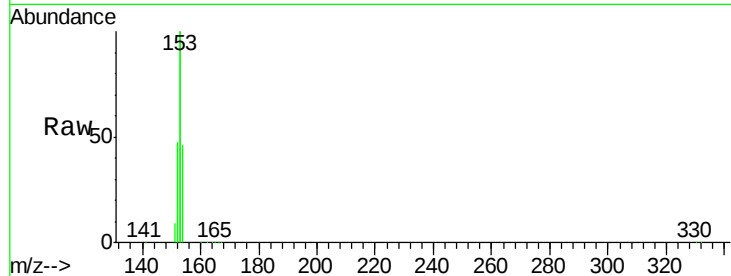
Tgt Ion:154 Resp: 24469

Ion Ratio Lower Upper

154 100

153 438.4 341.5 512.3

152 212.6 166.6 249.8



Abundance

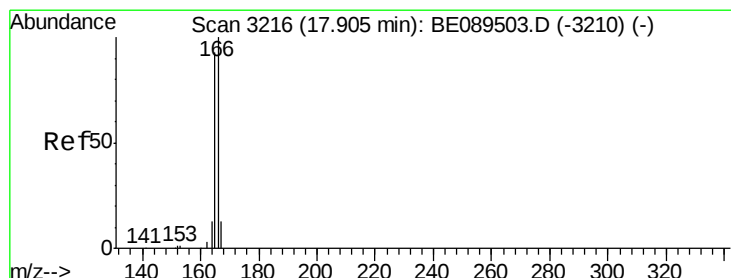
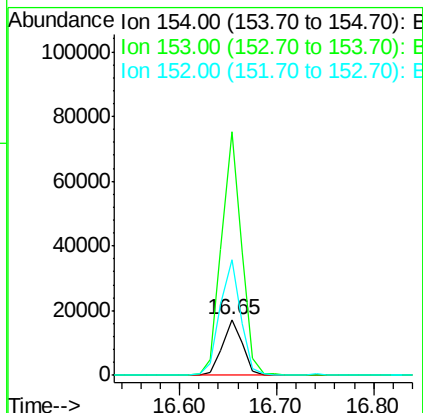
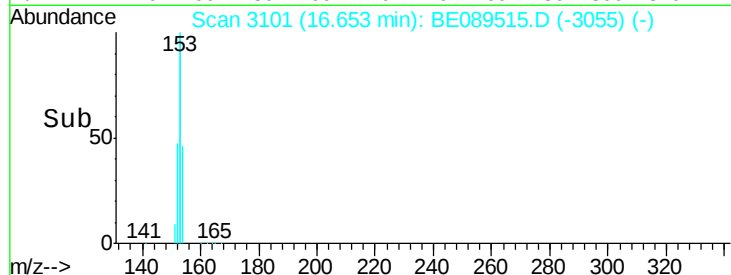
Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

16.65

Time-->



#10

Fluorene

Concen: 1.53 ng

RT: 17.91 min Scan# 3215

Delta R.T. 0.00 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

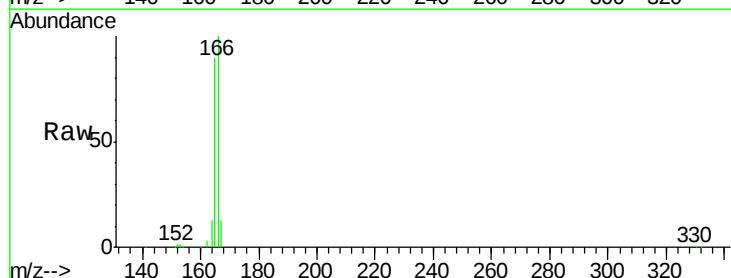
Tgt Ion:166 Resp: 30048

Ion Ratio Lower Upper

166 100

165 92.0 73.6 110.4

167 13.2 10.6 15.8



Abundance

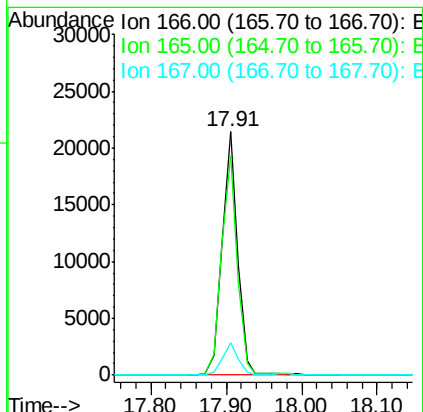
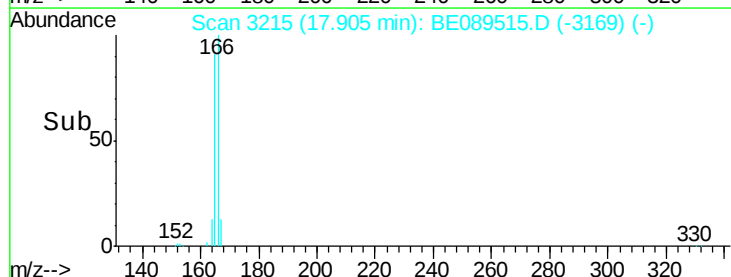
Ion 166.00 (165.70 to 166.70): E

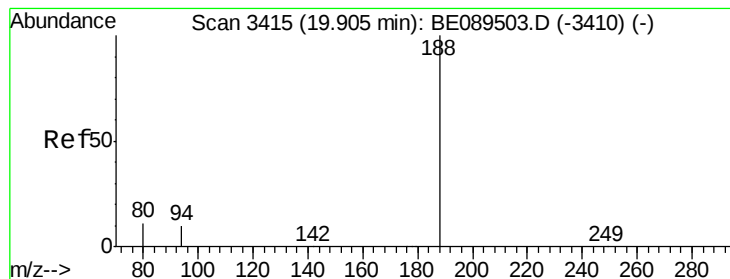
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

17.91

Time-->





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.90 min Scan# 3414

Delta R.T. -0.00 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

Instrument :

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LabSampleId :

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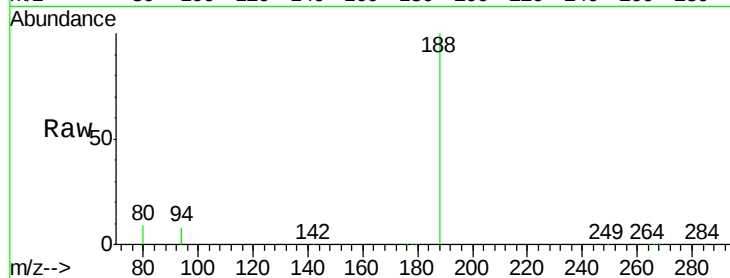
Tgt Ion:188 Resp: 95440

Ion Ratio Lower Upper

188 100

94 8.3 8.2 12.4

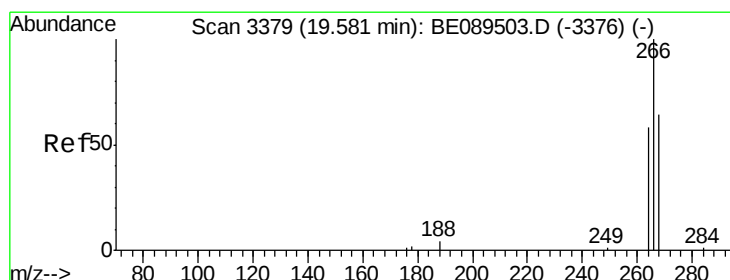
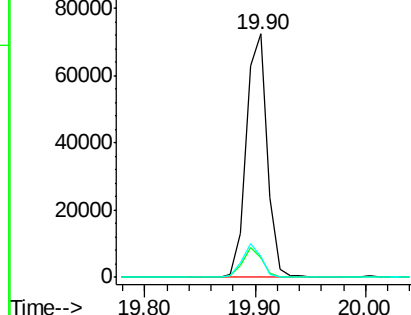
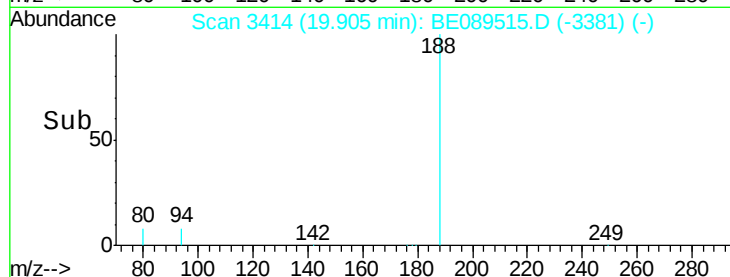
80 8.5 8.7 13.1#



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

Pentachlorophenol

Concen: 0.01 ng

RT: 19.58 min Scan# 3378

Delta R.T. -0.00 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

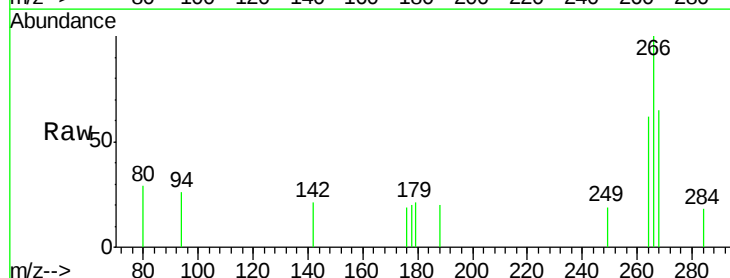
Tgt Ion:266 Resp: 281

Ion Ratio Lower Upper

266 100

268 65.4 56.7 85.1

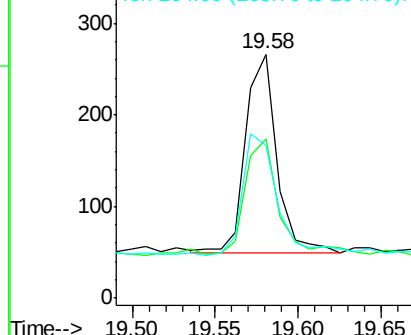
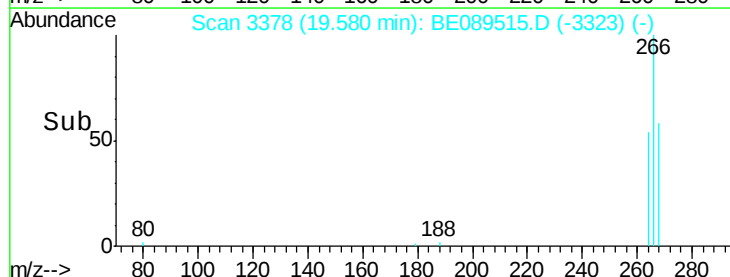
264 62.4 51.9 77.9

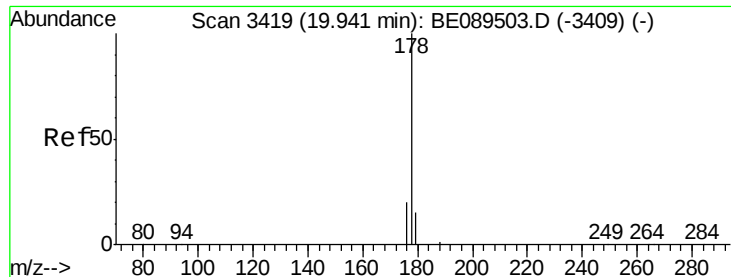


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

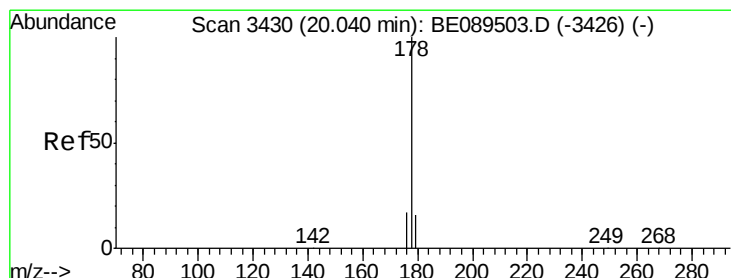
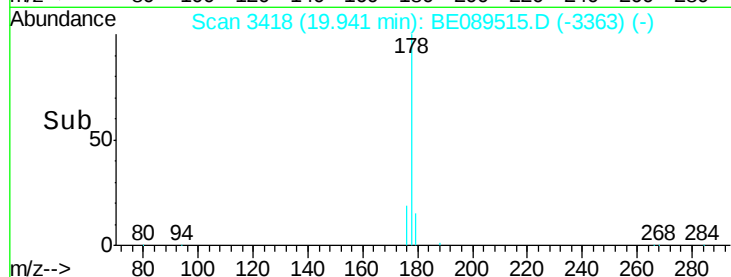
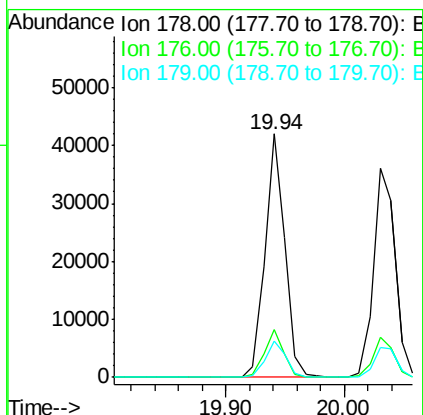
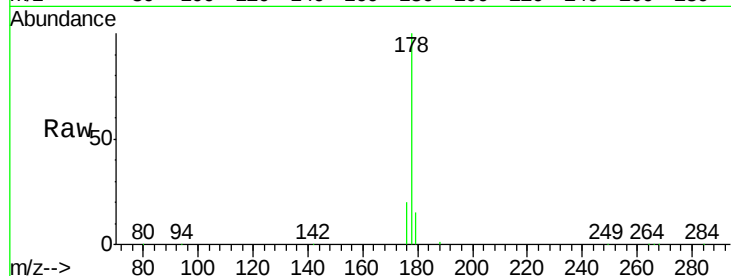




#13
Phenanthrene
Concen: 1.70 ng
RT: 19.94 min Scan# 3418
Delta R.T. -0.00 min
Lab File: BE089515.D
Acq: 5 Feb 2015 22:48

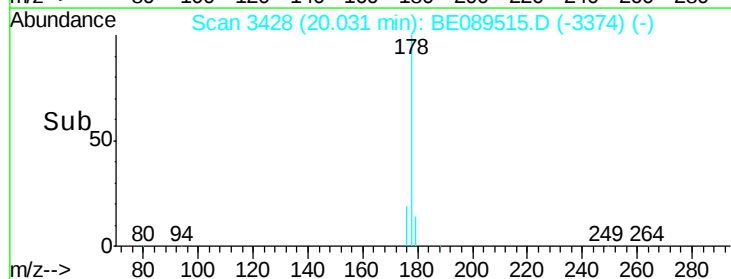
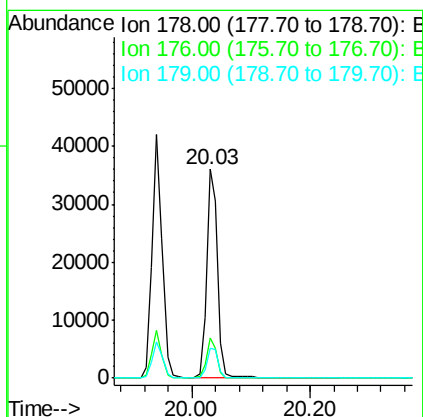
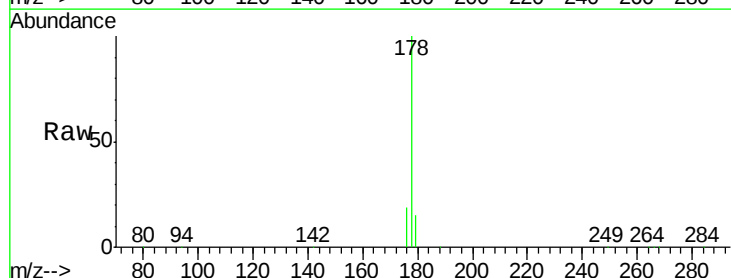
Instrument :
BNA_E
LabSampleId :
SSTDCCC001EC

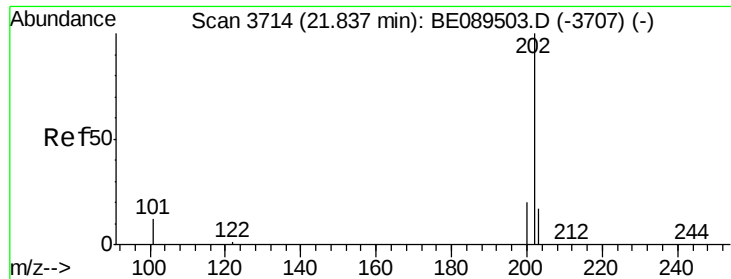
Tgt Ion:178 Resp: 49333
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.4 12.4 18.6



#14
Anthracene
Concen: 1.58 ng
RT: 20.03 min Scan# 3428
Delta R.T. -0.01 min
Lab File: BE089515.D
Acq: 5 Feb 2015 22:48

Tgt Ion:178 Resp: 46499
Ion Ratio Lower Upper
178 100
176 18.1 14.6 22.0
179 14.9 12.1 18.1

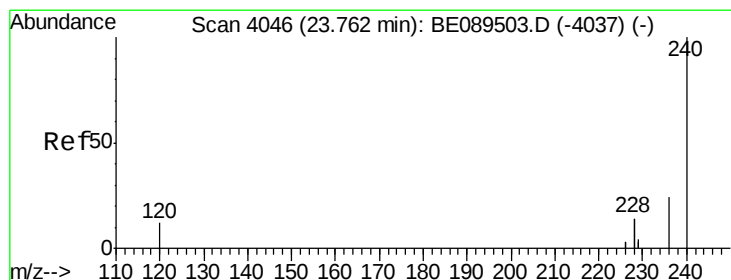
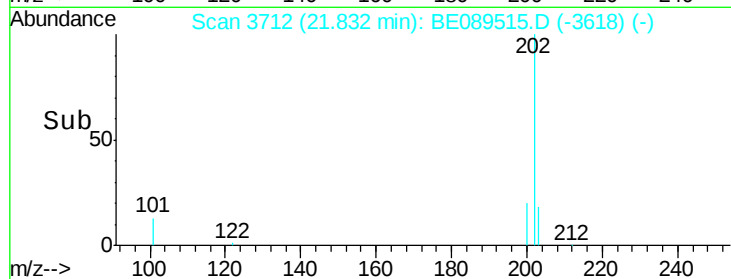
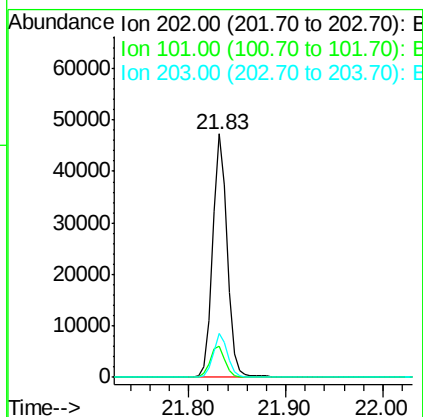
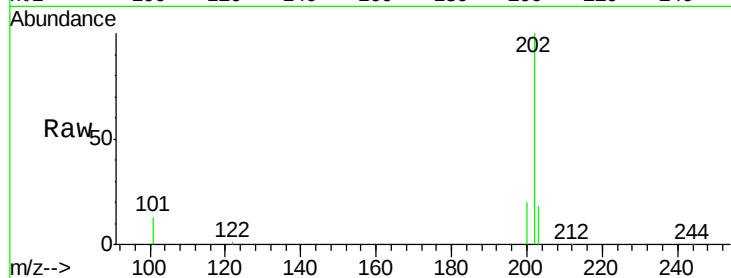




#15
 Fluoranthene
 Concen: 1.56 ng
 RT: 21.83 min Scan# 3712
 Delta R.T. -0.00 min
 Lab File: BE089515.D
 Acq: 5 Feb 2015 22:48

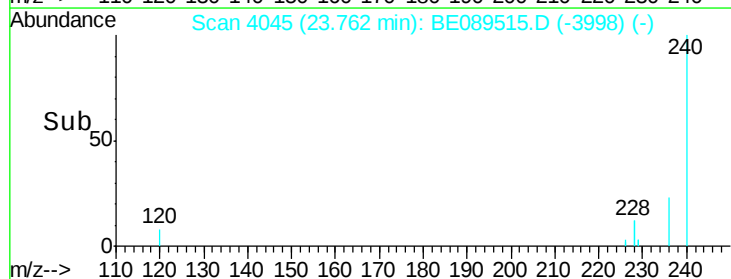
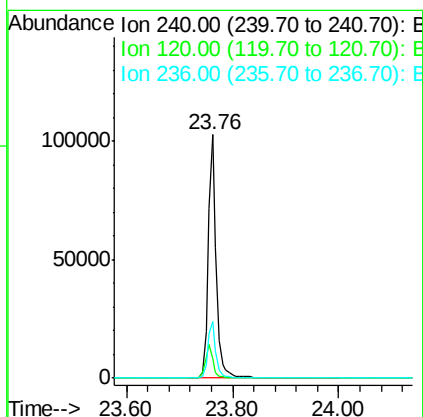
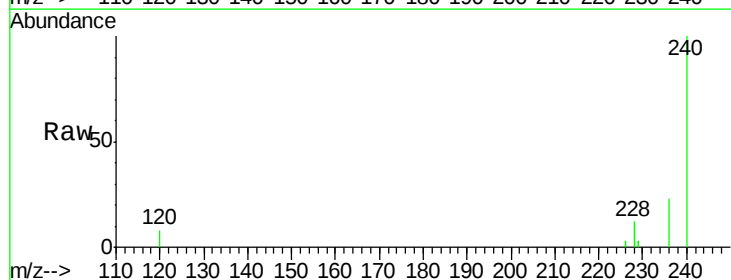
Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001EC

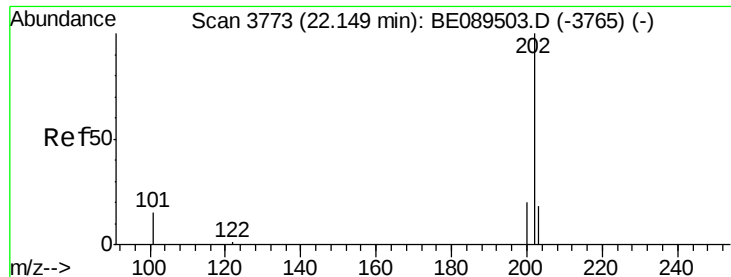
Tgt Ion: 202 Resp: 49189
 Ion Ratio Lower Upper
 202 100
 101 13.2 11.3 16.9
 203 17.4 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 4045
 Delta R.T. 0.00 min
 Lab File: BE089515.D
 Acq: 5 Feb 2015 22:48

Tgt Ion: 240 Resp: 109286
 Ion Ratio Lower Upper
 240 100
 120 8.2 9.6 14.4#
 236 23.3 19.4 29.2

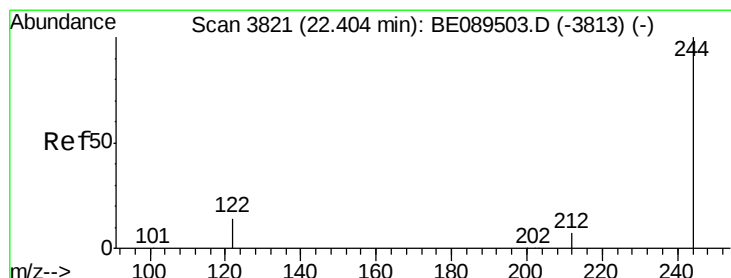
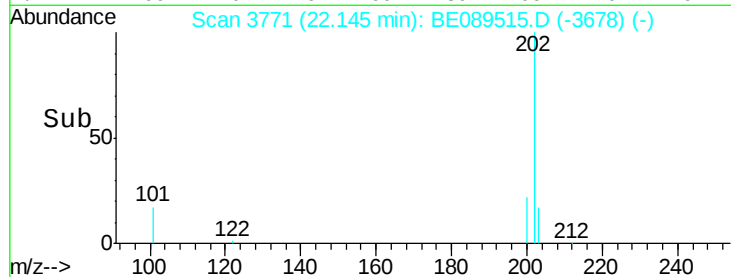
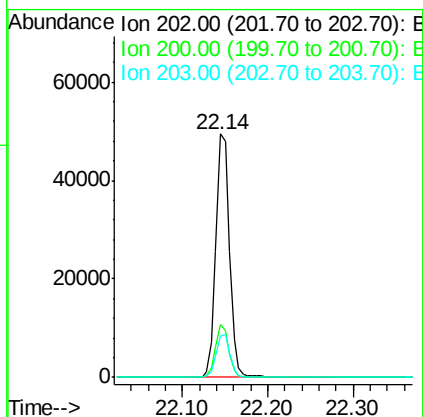
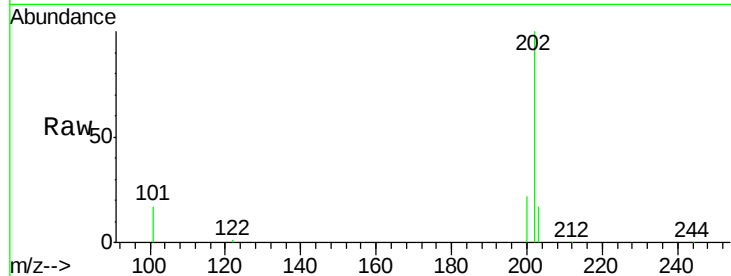




#17
 Pyrene
 Concen: 1.72 ng
 RT: 22.14 min Scan# 3771
 Delta R.T. -0.00 min
 Lab File: BE089515.D
 Acq: 5 Feb 2015 22:48

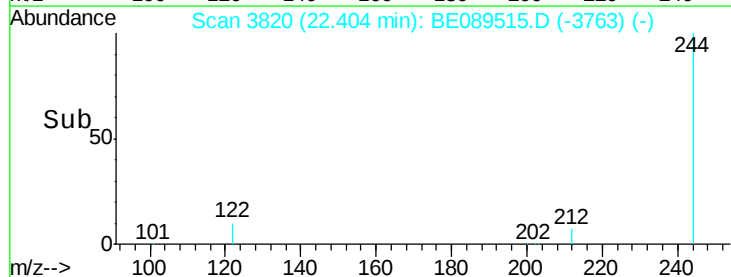
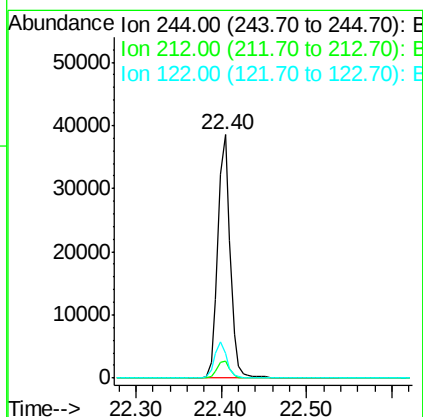
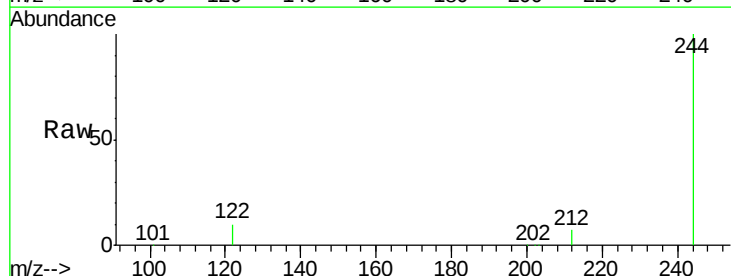
Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001EC

Tgt Ion: 202 Resp: 53592
 Ion Ratio Lower Upper
 202 100
 200 20.8 16.5 24.7
 203 17.6 14.0 21.0



#18
 Terphenyl-d14
 Concen: 1.99 ng
 RT: 22.40 min Scan# 3820
 Delta R.T. 0.00 min
 Lab File: BE089515.D
 Acq: 5 Feb 2015 22:48

Tgt Ion: 244 Resp: 37834
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.5 8.3
 122 10.2 11.1 16.7#





#19

Benzo(a)anthracene

Concen: 1.55 ng

RT: 23.75 min Scan# 4043

Delta R.T. 0.00 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

Instrument :

BNA_E

LabSampleId :

SSTDCCC001EC

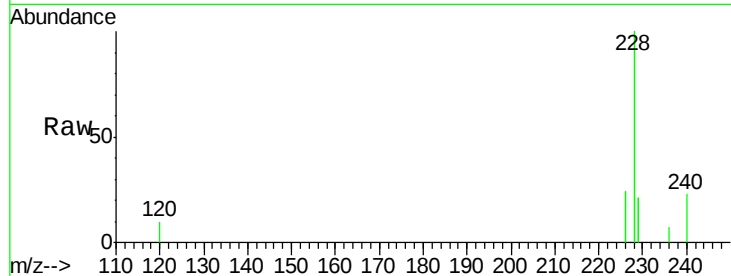
Tgt Ion:228 Resp: 203715

Ion Ratio Lower Upper

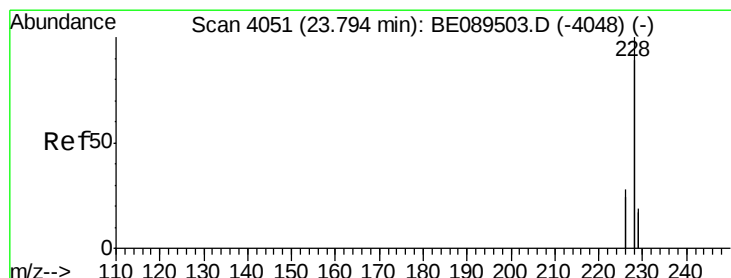
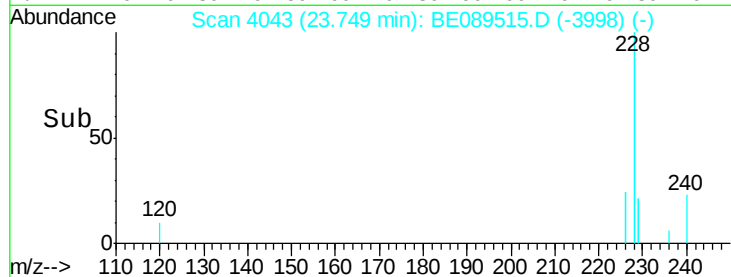
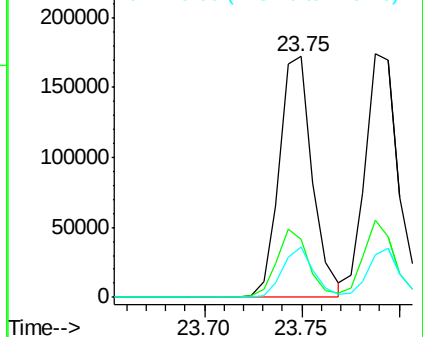
228 100

226 24.3 21.0 31.6

229 21.0 15.5 23.3



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

Chrysene

Concen: 1.67 ng

RT: 23.79 min Scan# 4049

Delta R.T. -0.01 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

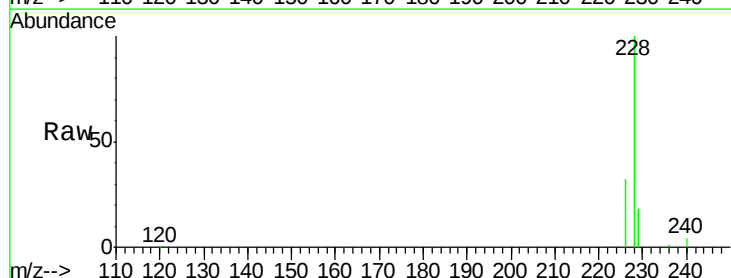
Tgt Ion:228 Resp: 218960

Ion Ratio Lower Upper

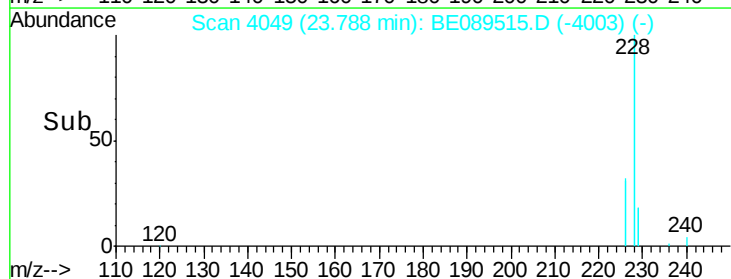
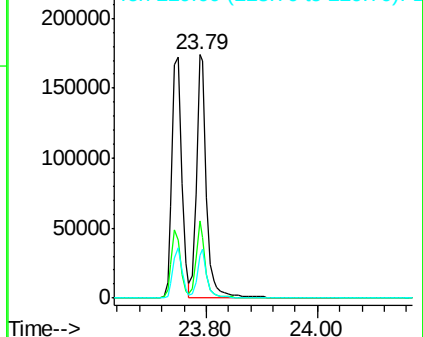
228 100

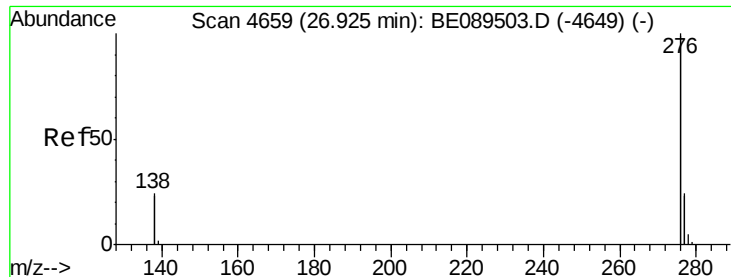
226 31.5 22.3 33.5

229 17.7 15.4 23.0



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





#21

Indeno(1,2,3-cd)pyrene

Concen: 1.53 ng

RT: 26.92 min Scan# 4657

Delta R.T. -0.01 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

Instrument :

BNA_E

LabSampleId :

SSTDCCC001EC

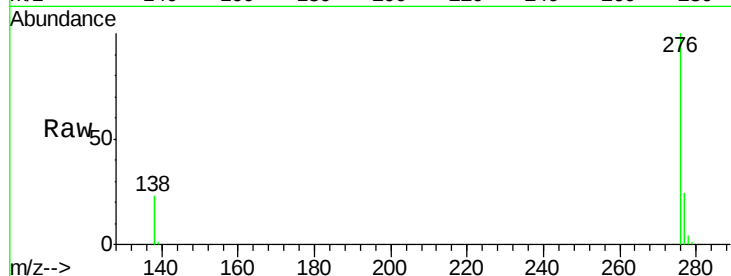
Tgt Ion:276 Resp: 233679

Ion Ratio Lower Upper

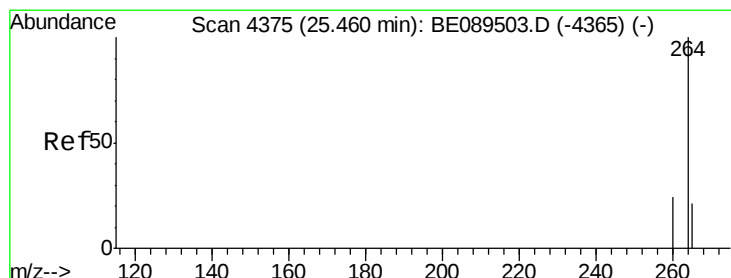
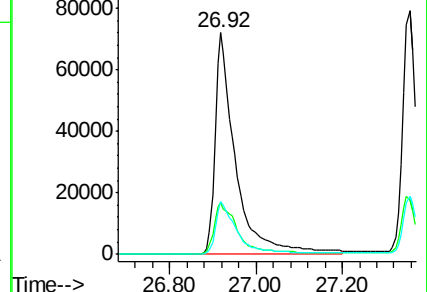
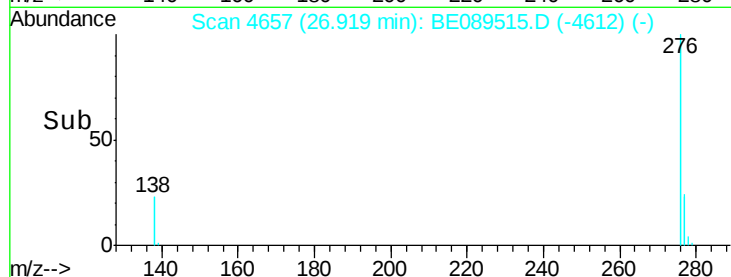
276 100

138 26.3 23.2 34.8

277 25.2 19.8 29.6



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.46 min Scan# 4373

Delta R.T. -0.00 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

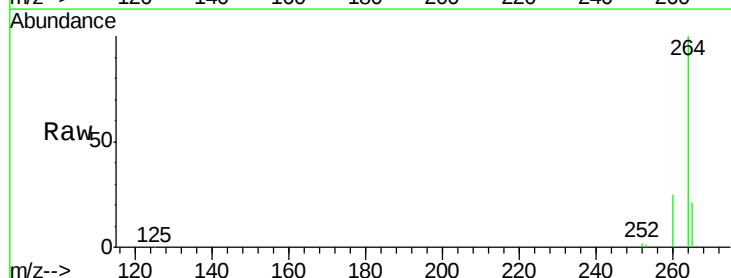
Tgt Ion:264 Resp: 108386

Ion Ratio Lower Upper

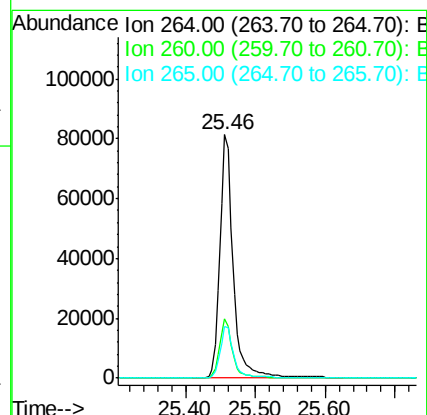
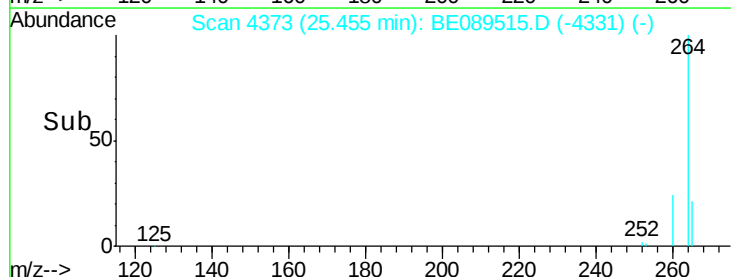
264 100

260 24.5 19.0 28.6

265 21.0 17.0 25.6



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





#23

Benzo(b)fluoranthene

Concen: 1.55 ng

RT: 25.01 min Scan# 4276

Delta R.T. -0.00 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

Instrument :

BNA_E

LabSampleId :

SSTDCCC001EC

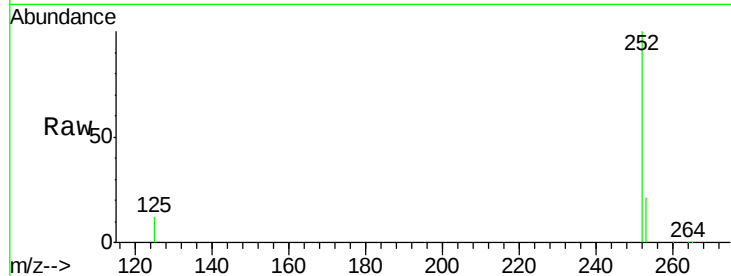
Tgt Ion:252 Resp: 47207

Ion Ratio Lower Upper

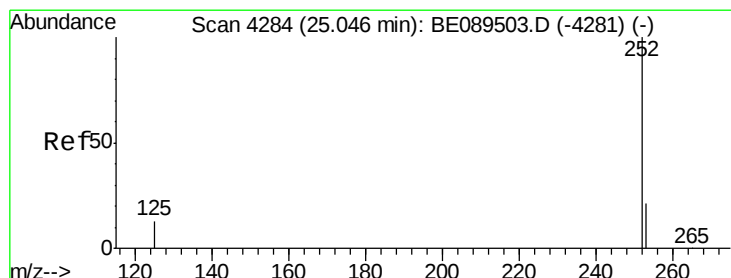
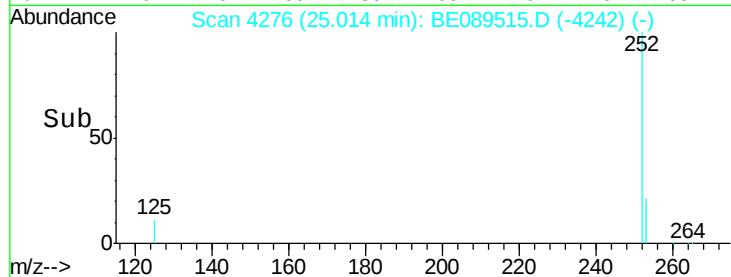
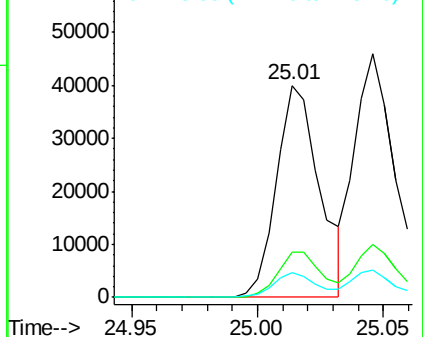
252 100

253 21.2 17.4 26.0

125 11.6 9.6 14.4



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(k)fluoranthene

Concen: 1.75 ng

RT: 25.05 min Scan# 4283

Delta R.T. 0.00 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

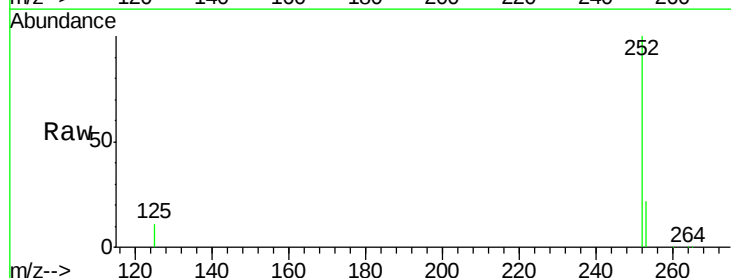
Tgt Ion:252 Resp: 60341

Ion Ratio Lower Upper

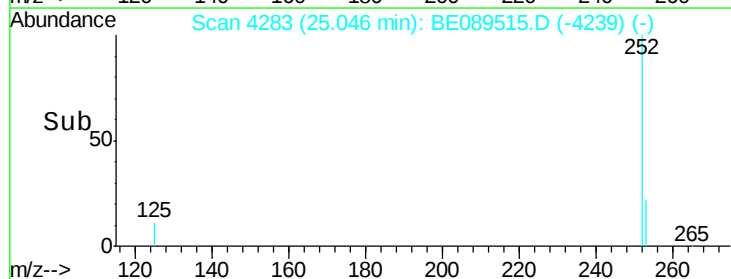
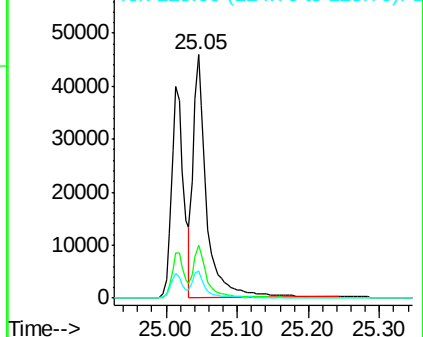
252 100

253 21.7 17.0 25.6

125 11.0 10.2 15.4



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

Benzo(a)pyrene

Concen: 1.53 ng

RT: 25.39 min Scan# 4358

Delta R.T. -0.00 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

Instrument :

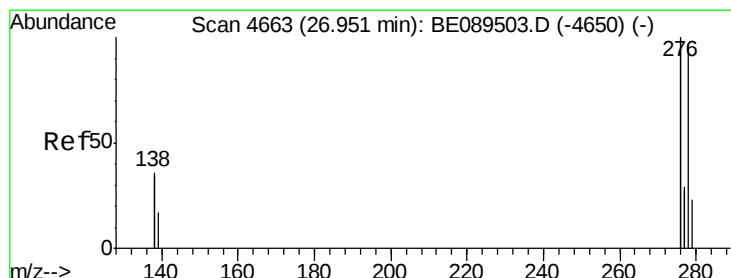
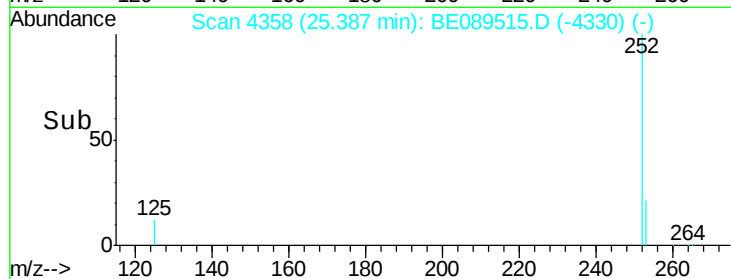
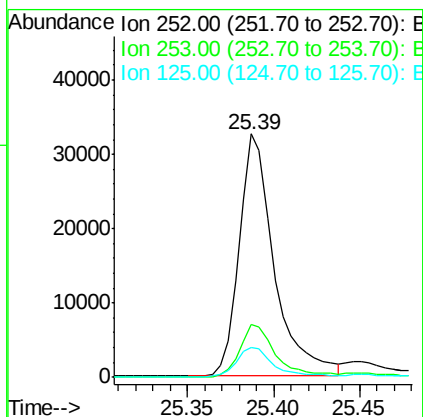
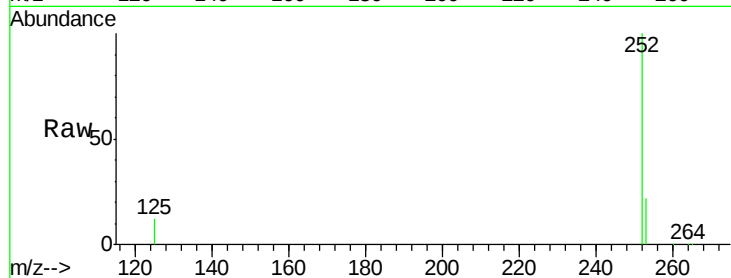
BNA_E

LabSampleId :

SSTDCCC001EC

Tgt Ion: 252 Resp: 46067

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.8	26.6
125	12.3	10.7	16.1



#26

Dibenzo(a,h)anthracene

Concen: 1.58 ng

RT: 26.95 min Scan# 4662

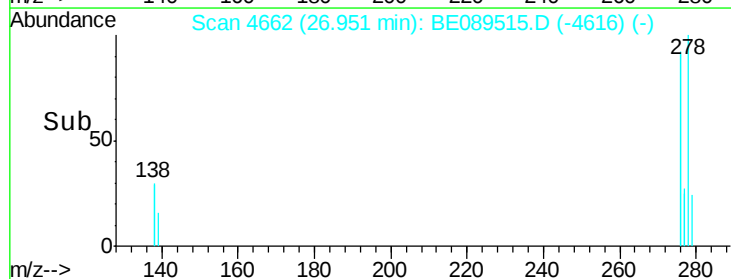
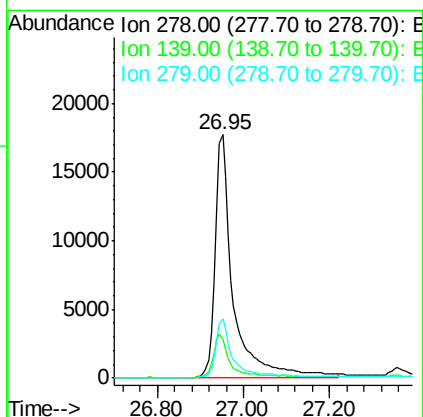
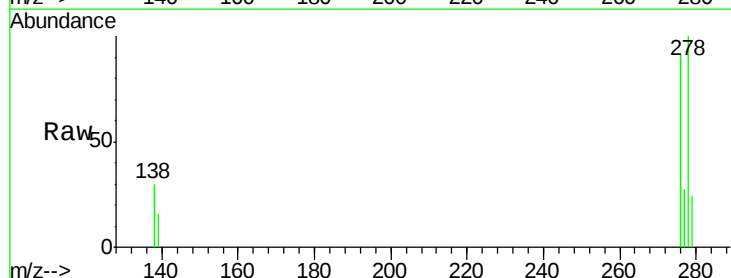
Delta R.T. 0.00 min

Lab File: BE089515.D

Acq: 5 Feb 2015 22:48

Tgt Ion: 278 Resp: 50805

Ion	Ratio	Lower	Upper
278	100		
139	16.0	14.6	22.0
279	24.3	19.0	28.4





#27

Benzo(g,h,i)perylene

Concen: 1.61 ng

RT: 27.36 min Scan# 4724

Delta R.T. 0.00 min

Lab File: BE089515.D

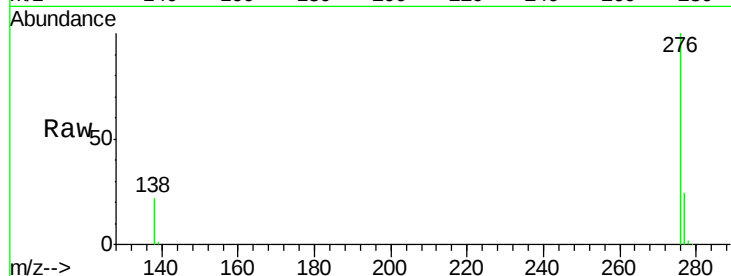
Acq: 5 Feb 2015 22:48

Instrument :

BNA_E

LabSampleId :

SSTDCCC001EC



Tgt Ion: 276 Resp: 200287

Ion Ratio Lower Upper

276 100

277 23.8 18.6 28.0

138 22.5 20.8 31.2

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

