

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089438.D
 Acq On : 30 Jan 2015 8:49
 Operator : TP/IZ
 Sample : SSTDICC002
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC002

Quant Time: Jan 31 04:45:08 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE013015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 31 04:33:09 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.59	152	84833	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	360914	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	162086	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	264364	5.00	ng	0.00
16) Chrysene-d12	23.84	240	206182	5.00	ng	0.00
22) Perylene-d12	25.55	264	199773	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	48907	2.62	ng	0.00
7) 2-Fluorobiphenyl	15.14	172	90486	2.46	ng	0.00
18) Terphenyl-d14	22.48	244	64518	2.41	ng	0.00

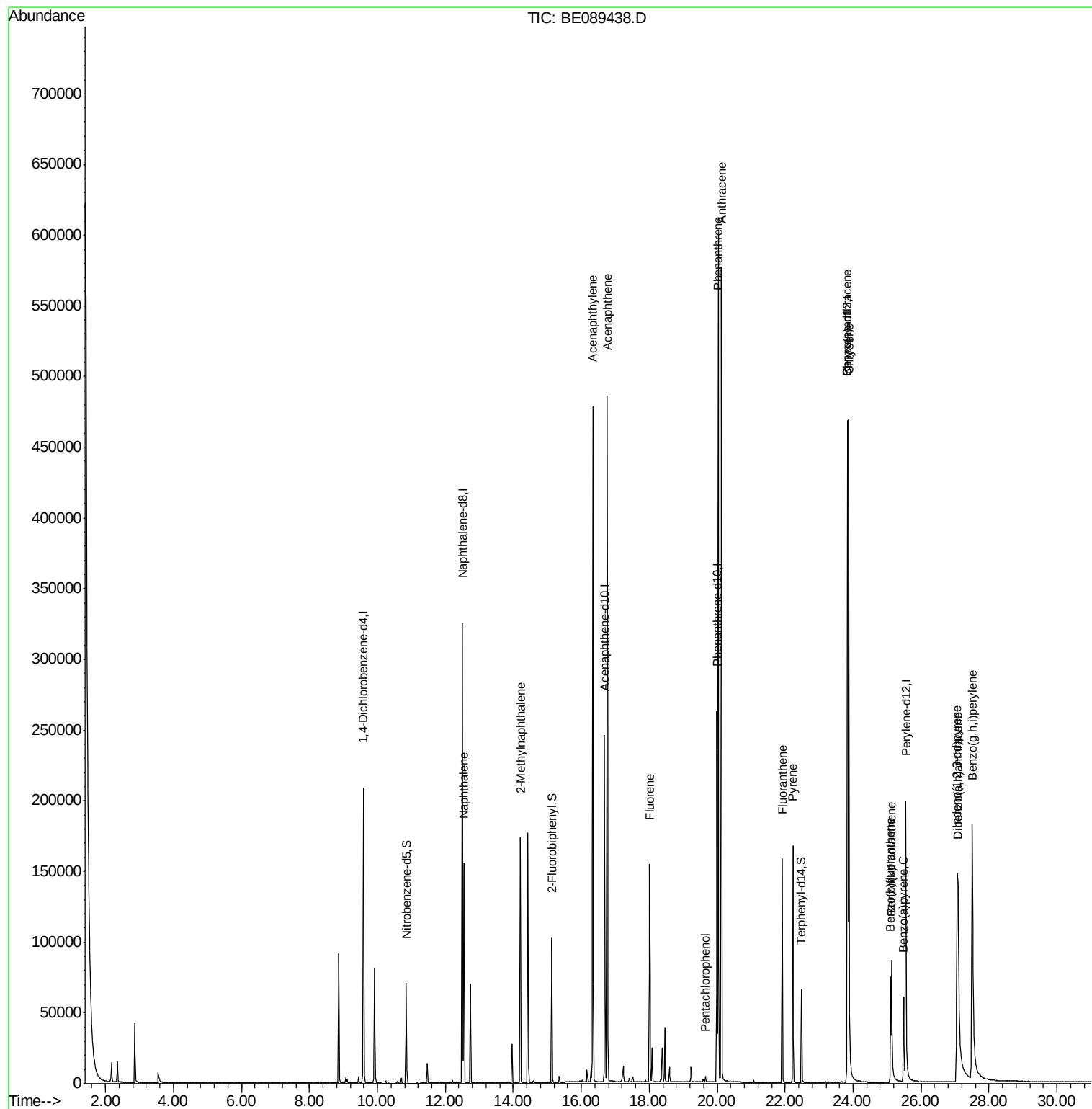
Target Compounds				Qvalue		
4) Naphthalene	12.54	128	173479	2.51	ng	100
5) 2-Methylnaphthalene	14.21	142	106712	2.47	ng	98
8) Acenaphthylene	16.33	152	611323	2.67	ng	100
9) Acenaphthene	16.76	154	90761	2.51	ng	100
10) Fluorene	18.01	166	98534	2.60	ng	98
12) Pentachlorophenol	19.66	266	2490	0.78	ng	92
13) Phenanthrene	20.03	178	531776	2.35	ng	100
14) Anthracene	20.12	178	500255	2.42	ng	99
15) Fluoranthene	21.91	202	109185	2.43	ng	100
17) Pyrene	22.23	202	113736	2.20	ng	100
19) Benzo(a)anthracene	23.83	228	357326	2.57	ng	96
20) Chrysene	23.87	228	402573	2.31	ng	97
21) Indeno(1,2,3-cd)pyrene	27.06	276	398922	4.11	ng	100
23) Benzo(b)fluoranthene	25.10	252	65478	2.80	ng	99
24) Benzo(k)fluoranthene	25.13	252	118036	2.92	ng	98
25) Benzo(a)pyrene	25.48	252	71094	2.99	ng	100
26) Dibenzo(a,h)anthracene	27.09	278	81868	4.15	ng	99
27) Benzo(g,h,i)perylene	27.51	276	357947	3.10	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: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

Instrument :

BNA_E

LabSampleId :

SSTDICC002

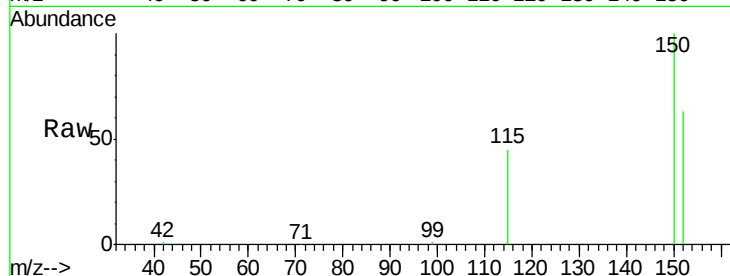
Tgt Ion:152 Resp: 84833

Ion Ratio Lower Upper

152 100

150 160.0 127.2 190.8

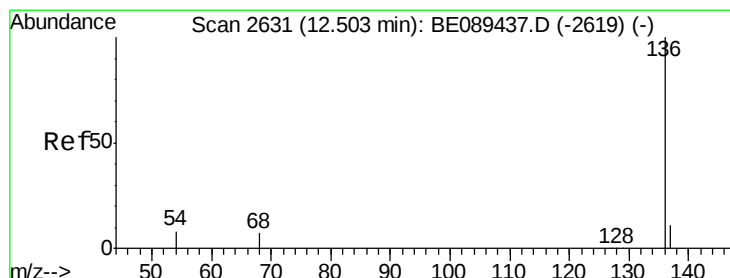
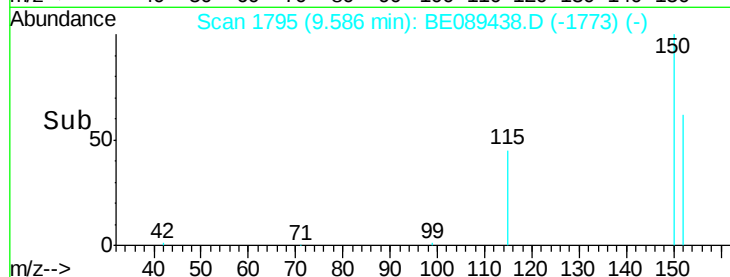
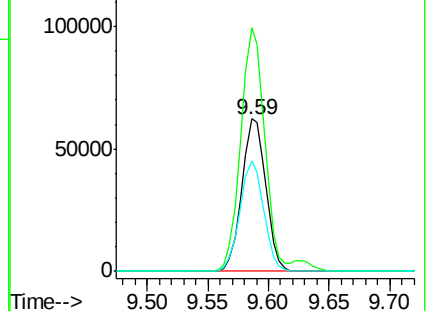
115 72.7 57.5 86.3



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: 12.50 min Scan# 2631

Delta R.T. -0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

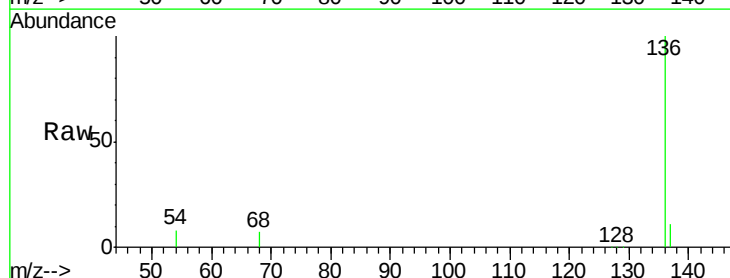
Tgt Ion:136 Resp: 360914

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

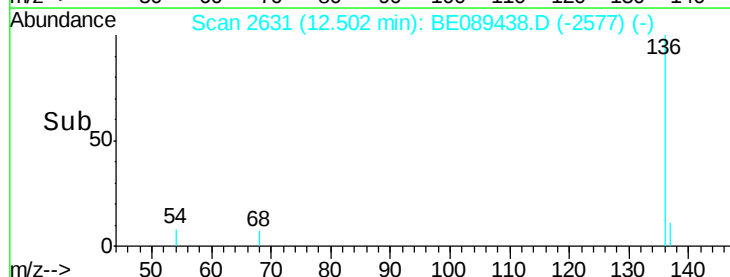
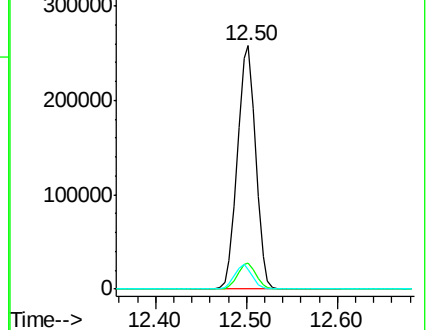
54 8.3 6.6 10.0



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: 2.62 ng

RT: 10.85 min Scan# 2226

Delta R.T. 0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

Instrument :

BNA_E

LabSampleId :

SSTDICC002

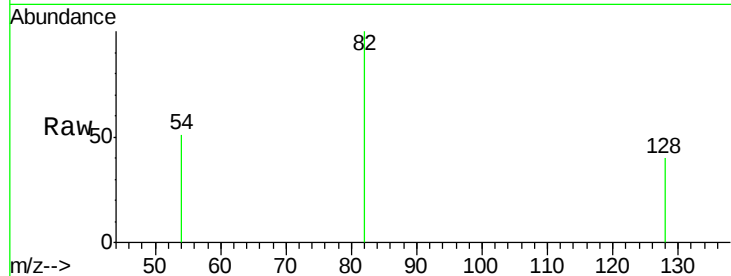
Tgt Ion: 82 Resp: 48907

Ion Ratio Lower Upper

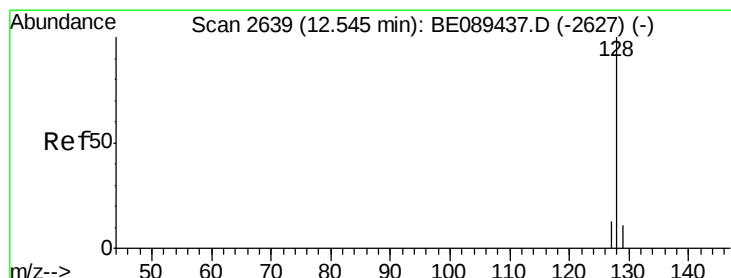
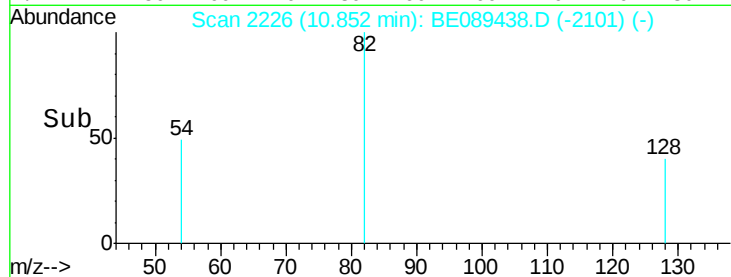
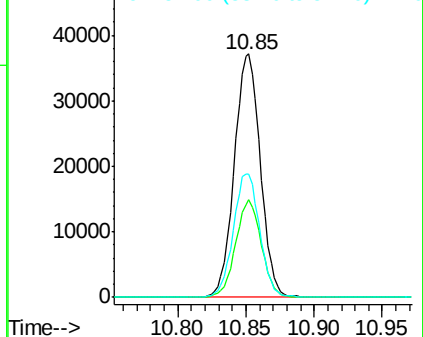
82 100

128 40.0 31.2 46.8

54 50.8 41.9 62.9



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 2.51 ng

RT: 12.54 min Scan# 2639

Delta R.T. -0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

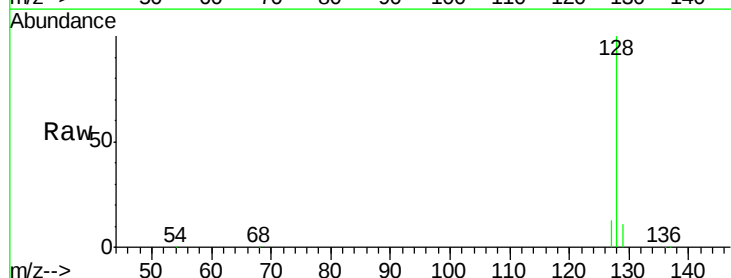
Tgt Ion: 128 Resp: 173479

Ion Ratio Lower Upper

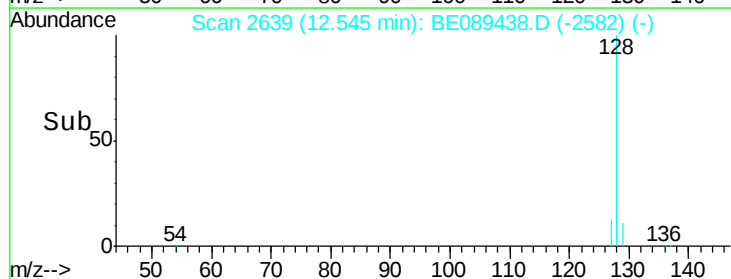
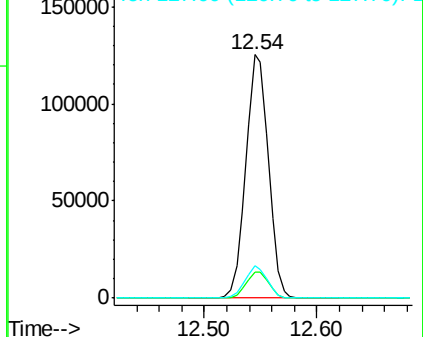
128 100

129 10.9 8.8 13.2

127 13.2 10.6 16.0



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: 2.47 ng

RT: 14.21 min Scan# 2977

Delta R.T. -0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

Instrument :

BNA_E

LabSampleId :

SSTDICC002

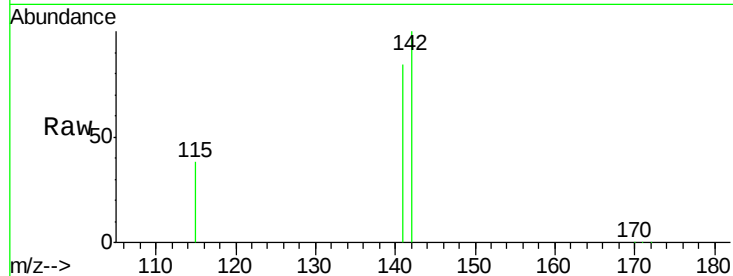
Tgt Ion:142 Resp: 106712

Ion Ratio Lower Upper

142 100

141 84.2 66.1 99.1

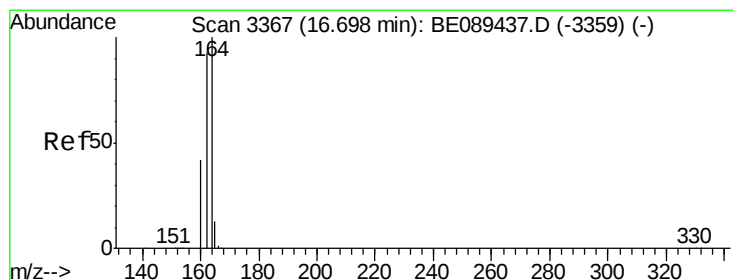
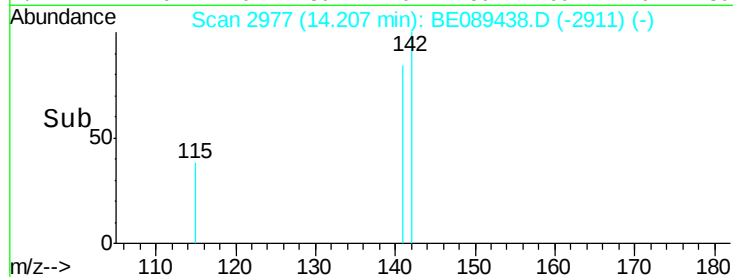
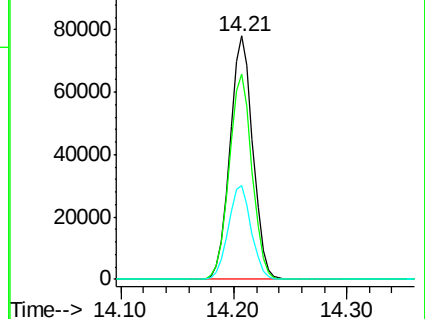
115 38.4 29.9 44.9



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: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

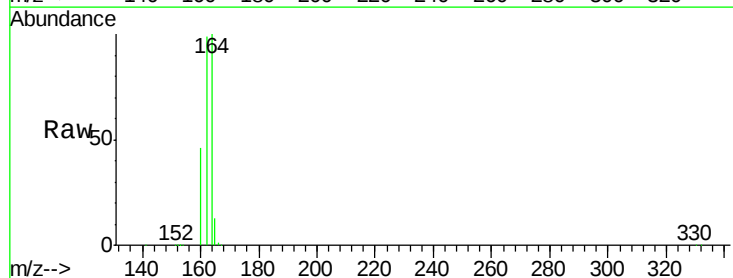
Tgt Ion:164 Resp: 162086

Ion Ratio Lower Upper

164 100

162 98.6 74.7 112.1

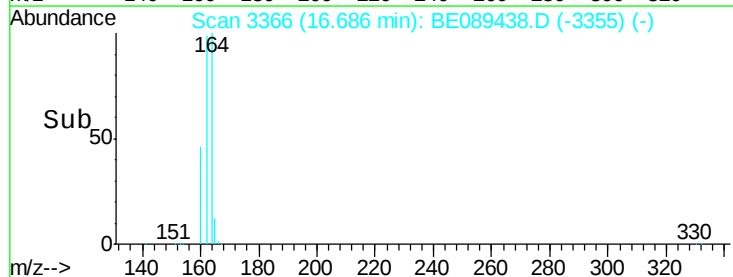
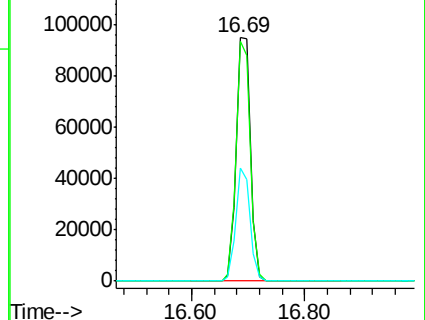
160 46.3 33.4 50.0



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: 2.46 ng

RT: 15.14 min Scan# 3181

Delta R.T. -0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

Instrument :

BNA_E

LabSampleId :

SSTDICC002

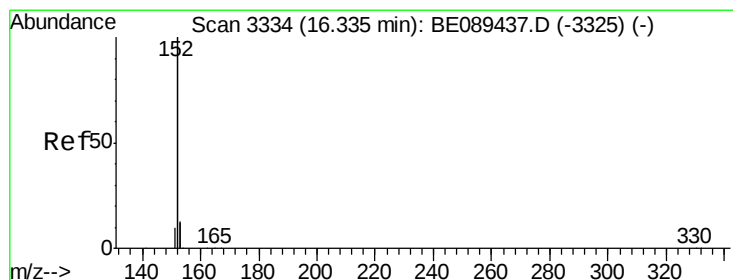
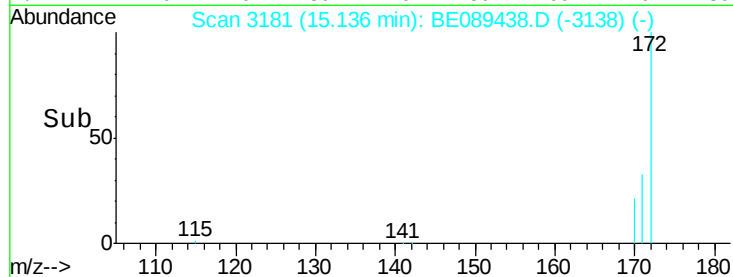
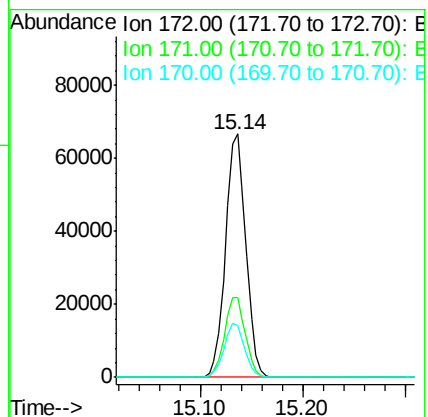
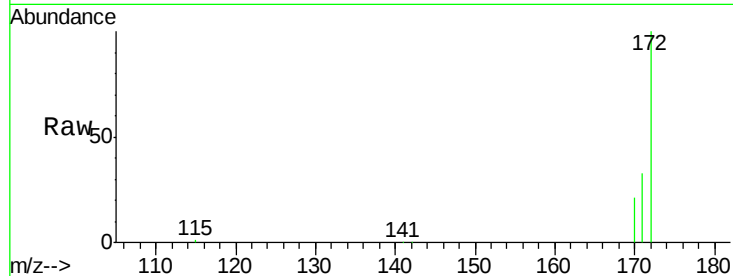
Tgt Ion:172 Resp: 90486

Ion Ratio Lower Upper

172 100

171 32.8 26.2 39.4

170 21.2 16.5 24.7



#8

Acenaphthylene

Concen: 2.67 ng

RT: 16.33 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

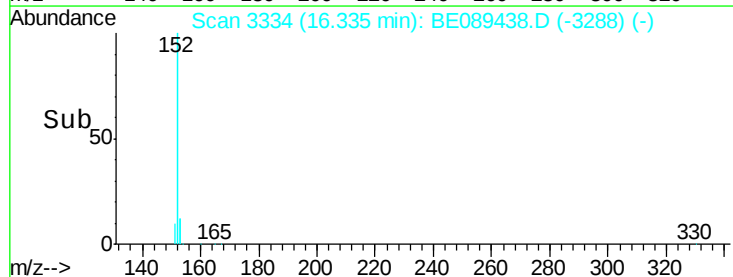
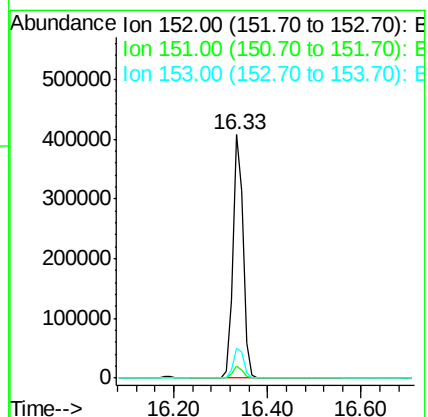
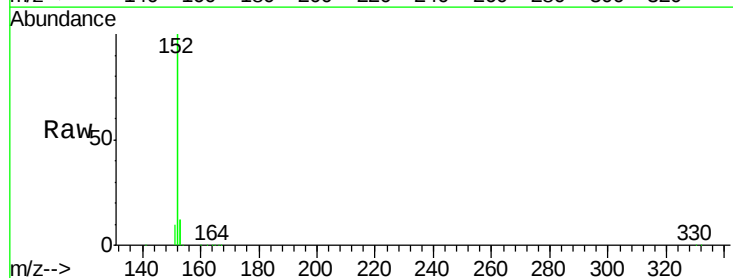
Tgt Ion:152 Resp: 611323

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

153 12.8 10.3 15.5





#9

Acenaphthene

Concen: 2.51 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

Instrument :

BNA_E

LabSampleId :

SSTDIC002

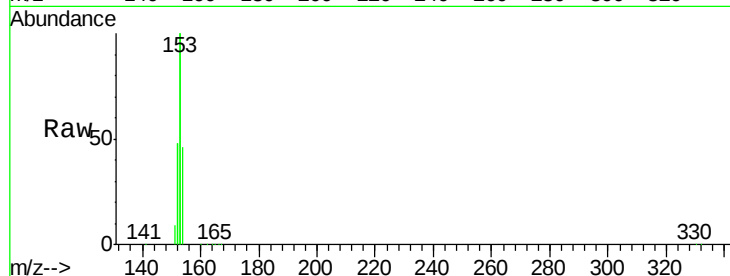
Tgt Ion:154 Resp: 90761

Ion Ratio Lower Upper

154 100

153 428.5 342.3 513.5

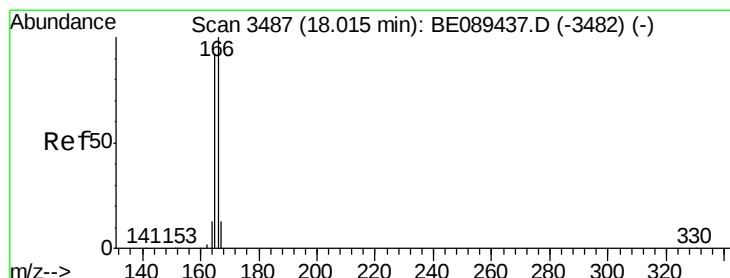
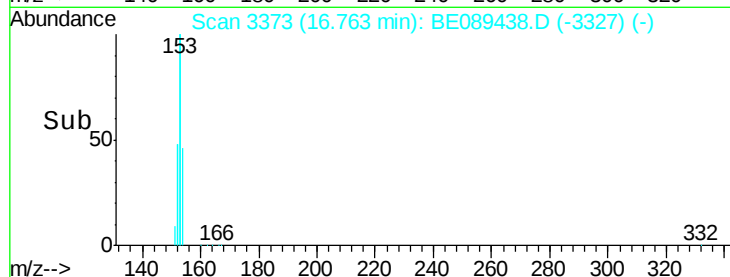
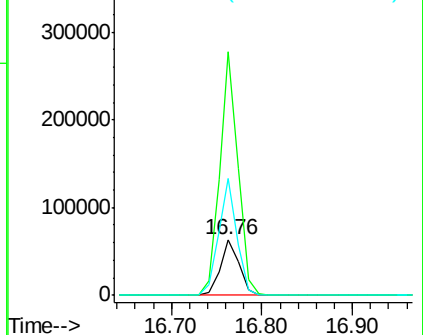
152 205.8 165.5 248.3



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: 2.60 ng

RT: 18.01 min Scan# 3487

Delta R.T. -0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

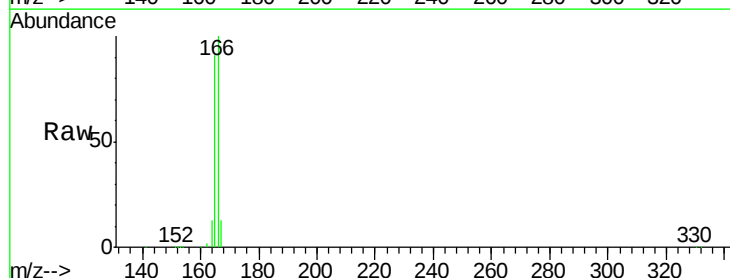
Tgt Ion:166 Resp: 98534

Ion Ratio Lower Upper

166 100

165 91.2 74.4 111.6

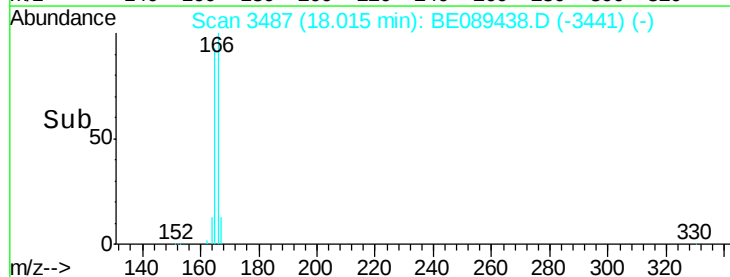
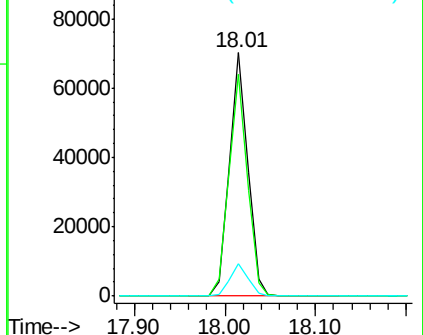
167 13.1 10.6 15.8



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

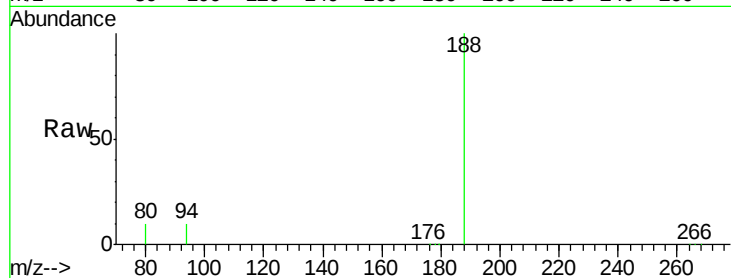




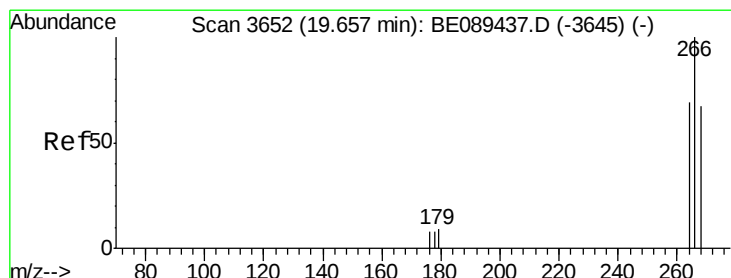
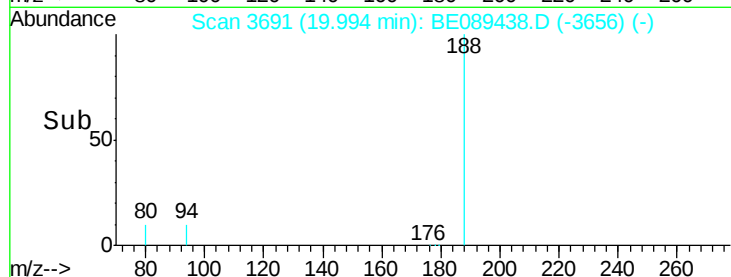
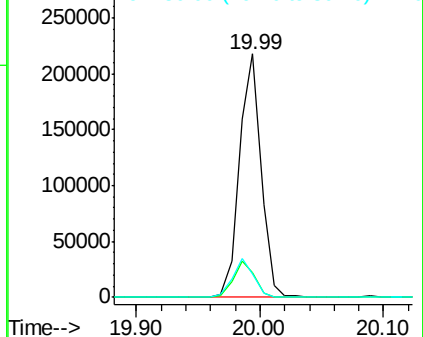
#11
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 19.99 min Scan# 3691
 Delta R.T. 0.00 min
 Lab File: BE089438.D
 Acq: 30 Jan 2015 8:49

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC002

Tgt Ion:188 Resp: 264364
 Ion Ratio Lower Upper
 188 100
 94 10.2 9.4 14.0
 80 9.9 9.3 13.9

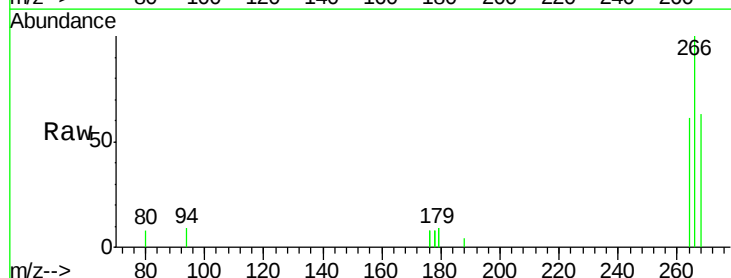


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BE0
 Ion 80.00 (79.70 to 80.70): BE0

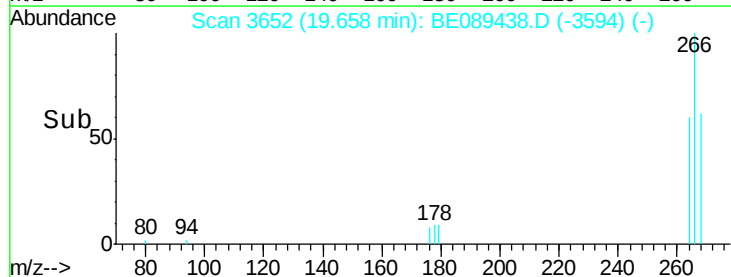
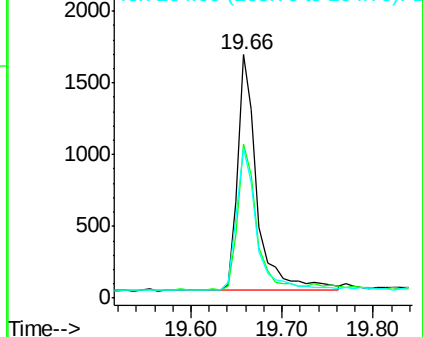


#12
 Pentachlorophenol
 Concen: 0.78 ng
 RT: 19.66 min Scan# 3652
 Delta R.T. 0.00 min
 Lab File: BE089438.D
 Acq: 30 Jan 2015 8:49

Tgt Ion:266 Resp: 2490
 Ion Ratio Lower Upper
 266 100
 268 63.4 54.2 81.4
 264 61.5 56.2 84.2



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: 2.35 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

Instrument :

BNA_E

LabSampleId :

SSTDICC002

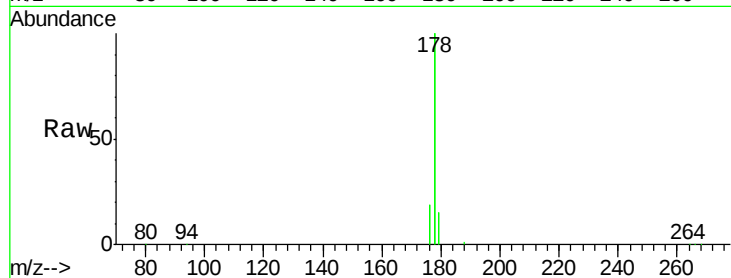
Tgt Ion:178 Resp: 531776

Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

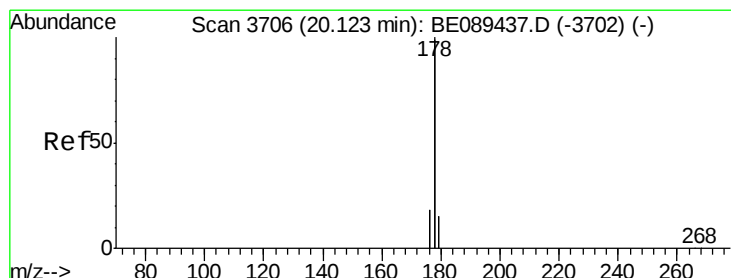
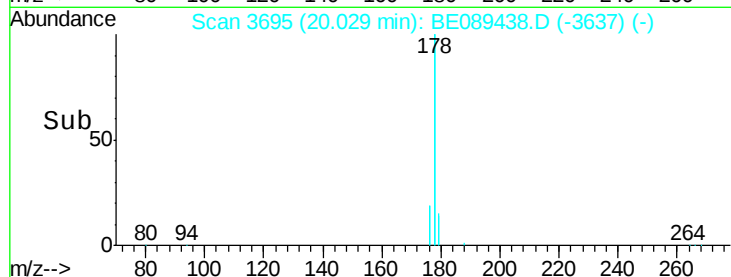
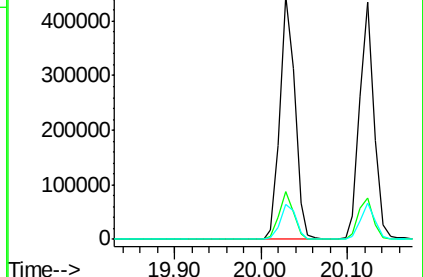
179 15.3 12.3 18.5



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

Anthracene

Concen: 2.42 ng

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

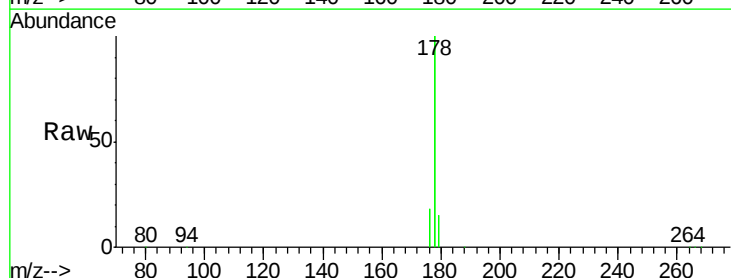
Tgt Ion:178 Resp: 500255

Ion Ratio Lower Upper

178 100

176 18.1 14.6 22.0

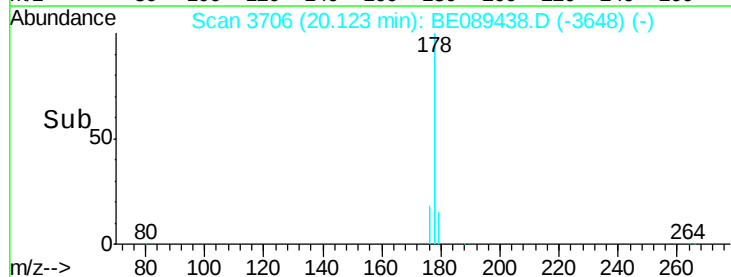
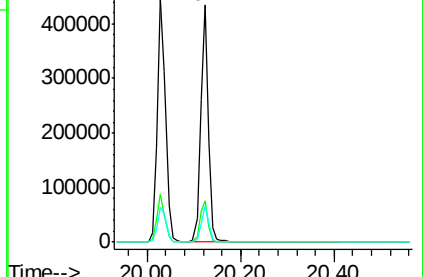
179 15.0 12.2 18.2

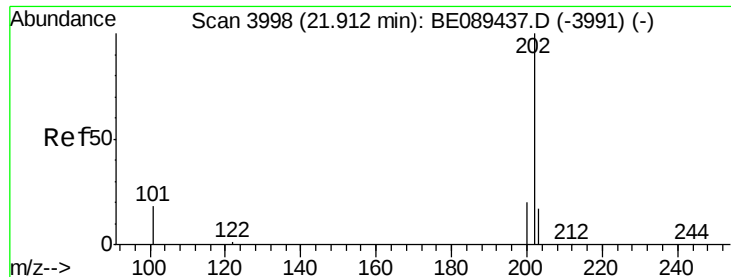


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 2.43 ng

RT: 21.91 min Scan# 3997

Delta R.T. -0.00 min

Lab File: BE089438.D

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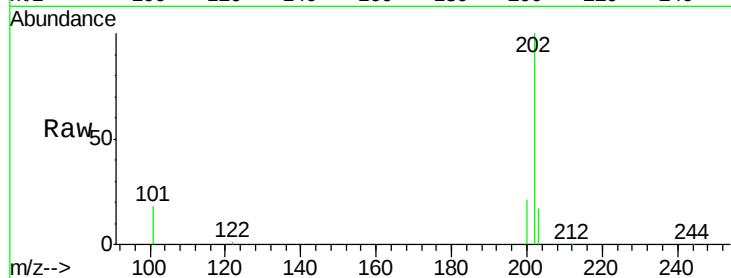
Tgt Ion: 202 Resp: 109185

Ion Ratio Lower Upper

202 100

101 17.2 13.6 20.4

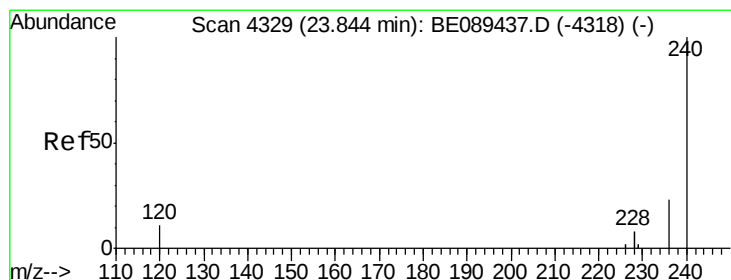
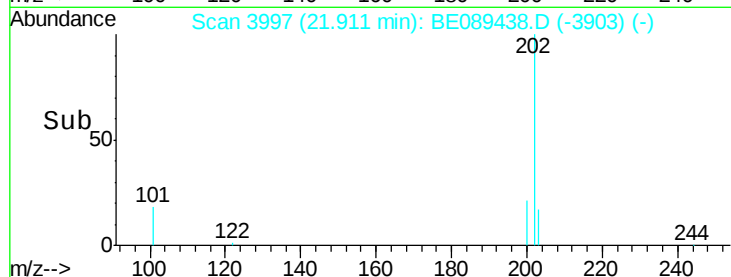
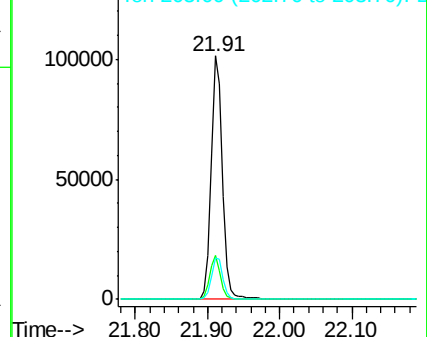
203 17.4 13.8 20.6



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



#16

Chrysene-d12

Concen: 5.00 ng

RT: 23.84 min Scan# 4327

Delta R.T. -0.01 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

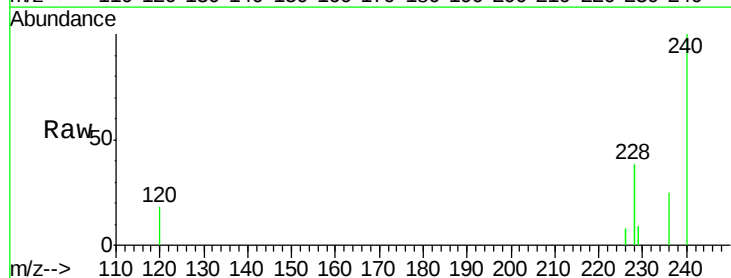
Tgt Ion: 240 Resp: 206182

Ion Ratio Lower Upper

240 100

120 17.8 8.6 13.0#

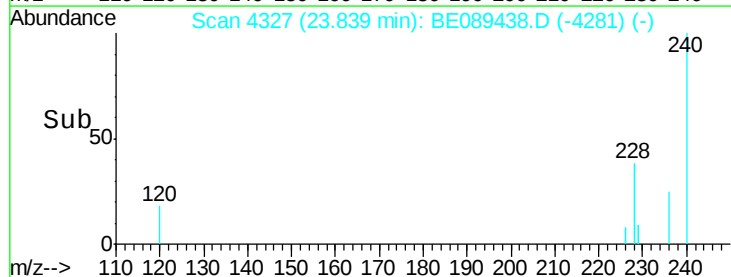
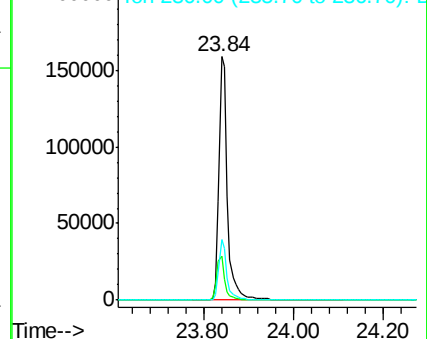
236 24.8 18.7 28.1

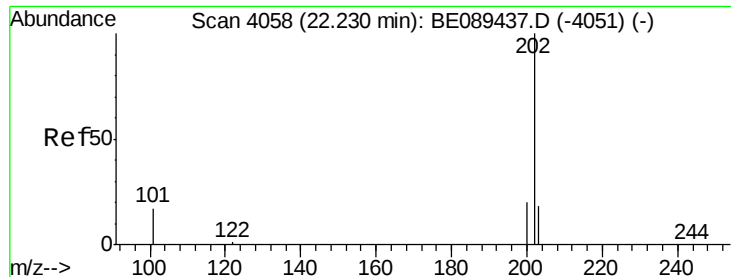


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 2.20 ng

RT: 22.23 min Scan# 4057

Delta R.T. -0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

Instrument :

BNA_E

LabSampleId :

SSTDICC002

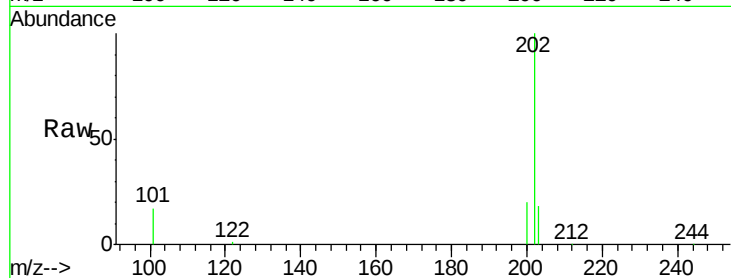
Tgt Ion:202 Resp: 113736

Ion Ratio Lower Upper

202 100

200 20.4 16.2 24.4

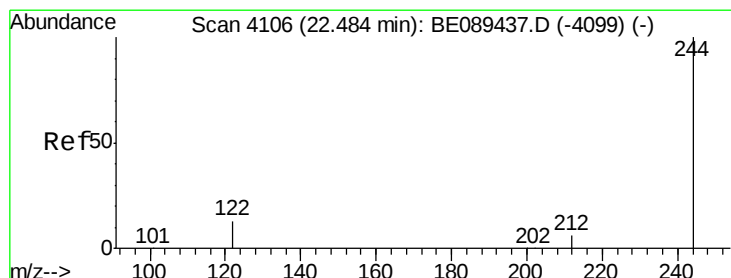
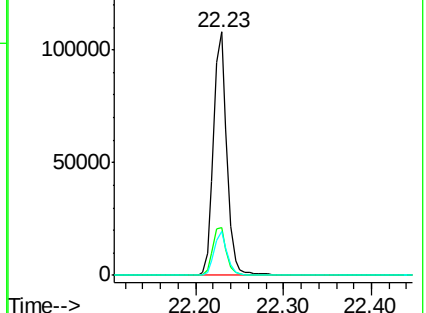
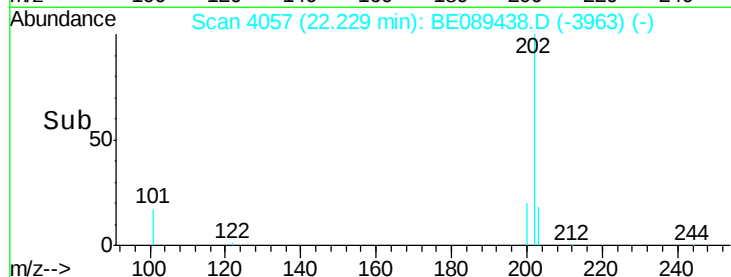
203 17.2 13.8 20.8



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



#18

Terphenyl-d14

Concen: 2.41 ng

RT: 22.48 min Scan# 4105

Delta R.T. -0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

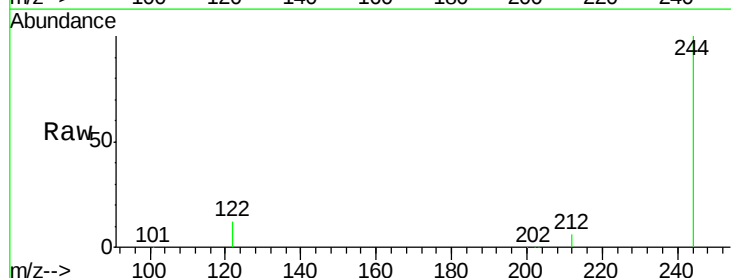
Tgt Ion:244 Resp: 64518

Ion Ratio Lower Upper

244 100

212 6.4 5.0 7.6

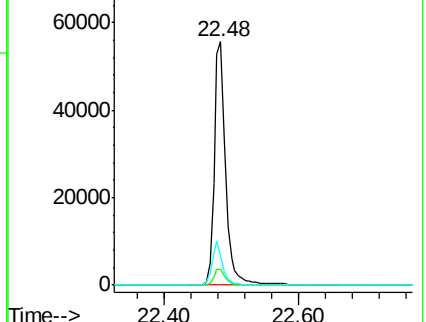
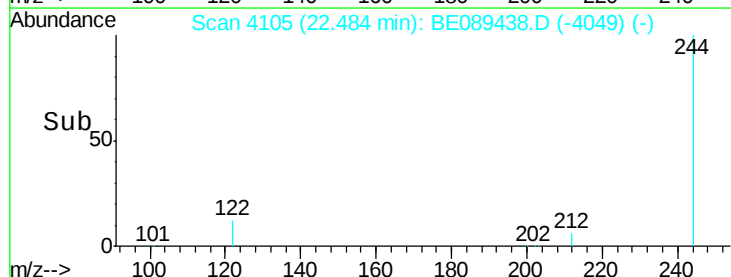
122 12.3 10.2 15.4



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





#19

Benzo(a)anthracene

Concen: 2.57 ng

RT: 23.83 min Scan# 4325

Delta R.T. -0.01 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

Instrument :

BNA_E

LabSampleId :

SSTDICC002

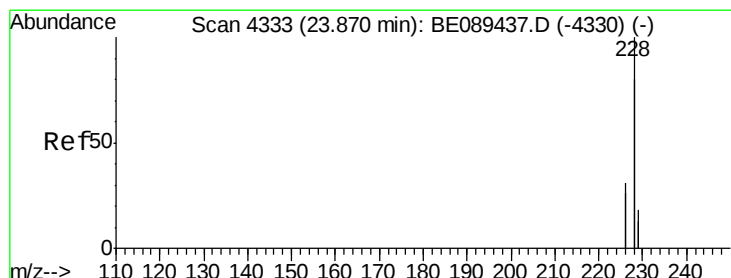
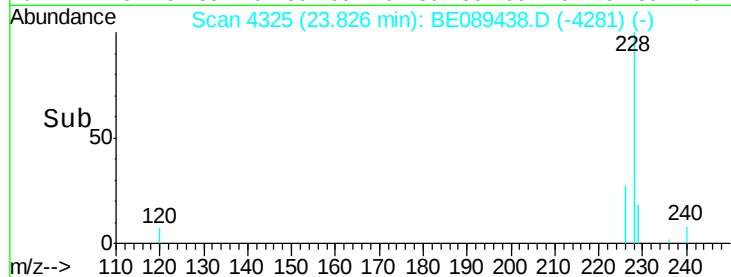
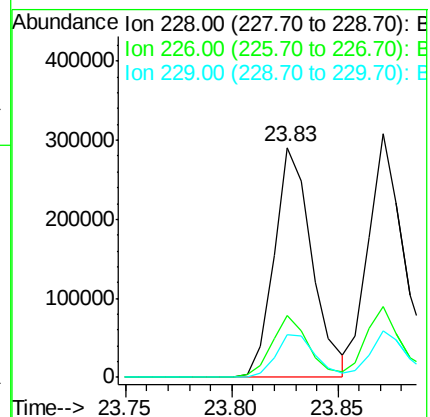
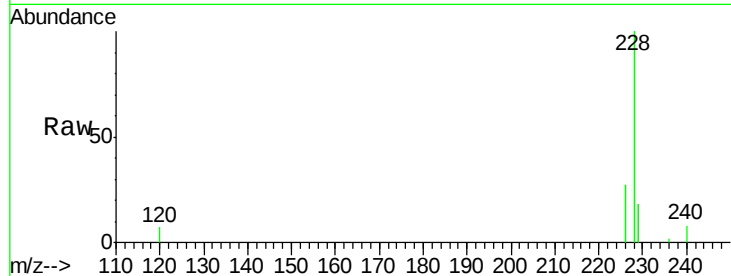
Tgt Ion:228 Resp: 357326

Ion Ratio Lower Upper

228 100

226 26.8 20.0 30.0

229 18.4 16.0 24.0



#20

Chrysene

Concen: 2.31 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

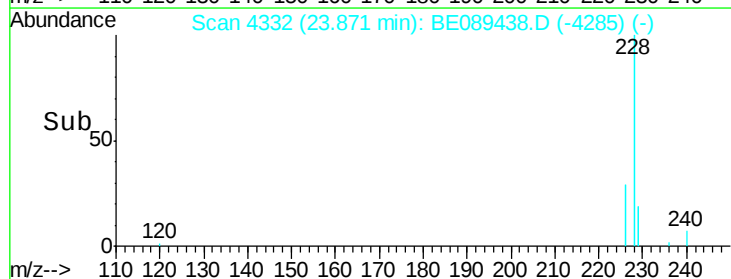
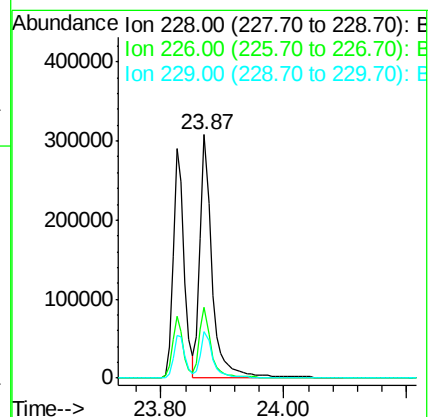
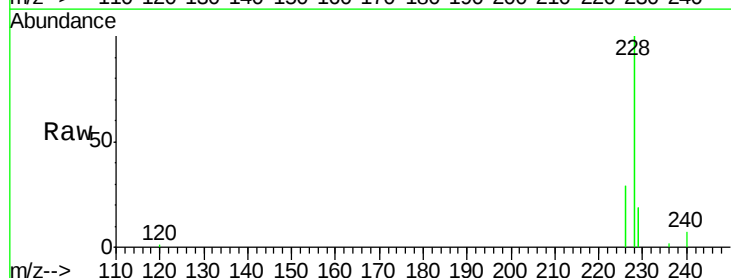
Tgt Ion:228 Resp: 402573

Ion Ratio Lower Upper

228 100

226 29.0 24.5 36.7

229 18.8 14.1 21.1





#21

Indeno(1,2,3-cd)pyrene

Concen: 4.11 ng

RT: 27.06 min Scan# 4949

Delta R.T. -0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

Instrument :

BNA_E

LabSampleId :

SSTDIC002

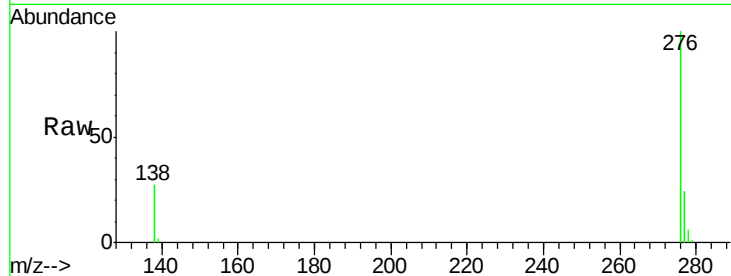
Tgt Ion: 276 Resp: 398922

Ion Ratio Lower Upper

276 100

138 31.5 25.4 38.0

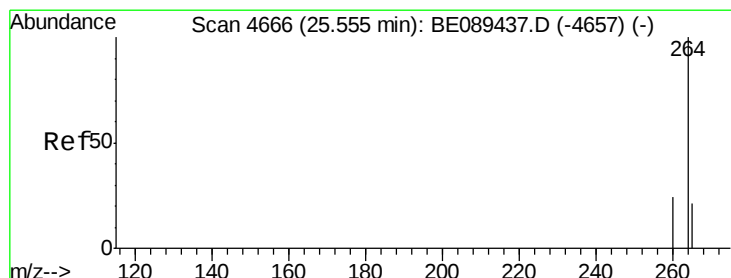
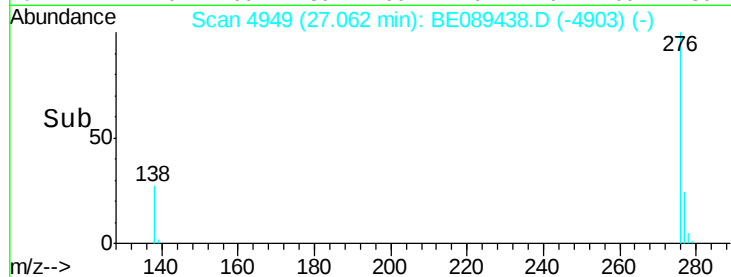
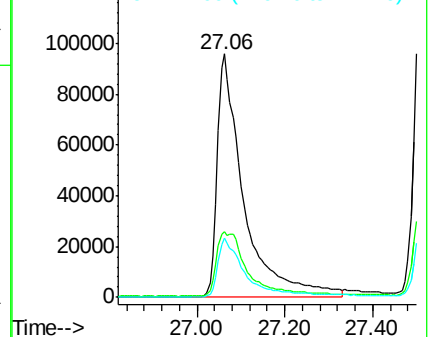
277 24.9 19.8 29.6



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: 25.55 min Scan# 4664

Delta R.T. -0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

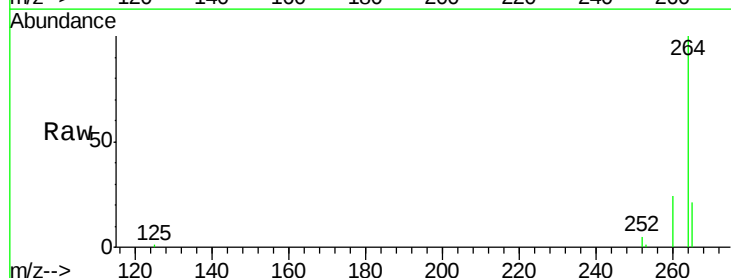
Tgt Ion: 264 Resp: 199773

Ion Ratio Lower Upper

264 100

260 24.2 19.4 29.0

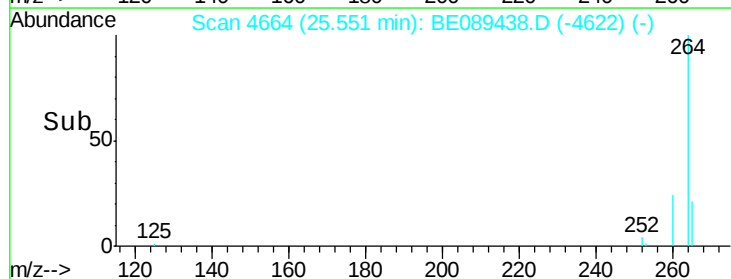
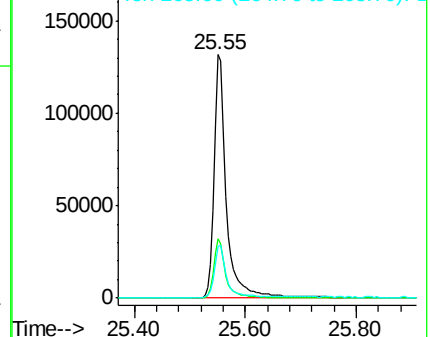
265 21.0 17.0 25.6

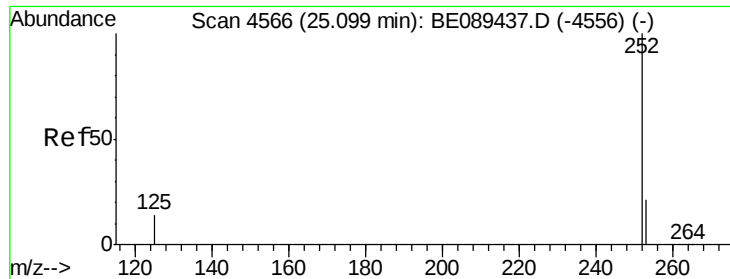


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 2.80 ng

RT: 25.10 min Scan# 4565

Delta R.T. 0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

Instrument :

BNA_E

LabSampleId :

SSTDIC002

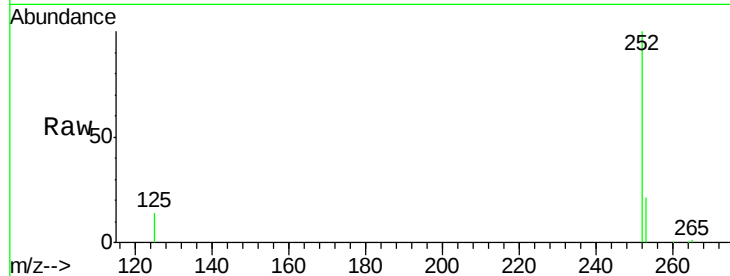
Tgt Ion:252 Resp: 65478

Ion Ratio Lower Upper

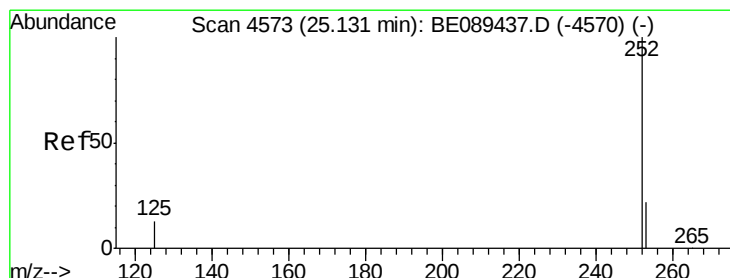
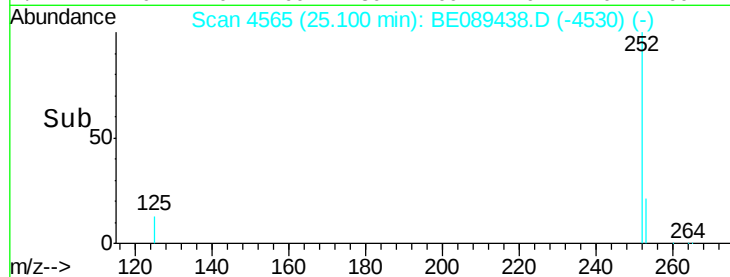
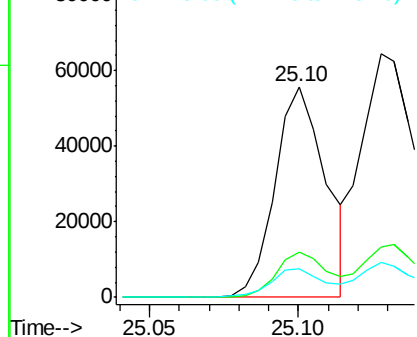
252 100

253 21.2 17.0 25.6

125 13.6 11.4 17.0



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: 2.92 ng

RT: 25.13 min Scan# 4571

Delta R.T. -0.00 min

Lab File: BE089438.D

Acq: 30 Jan 2015 8:49

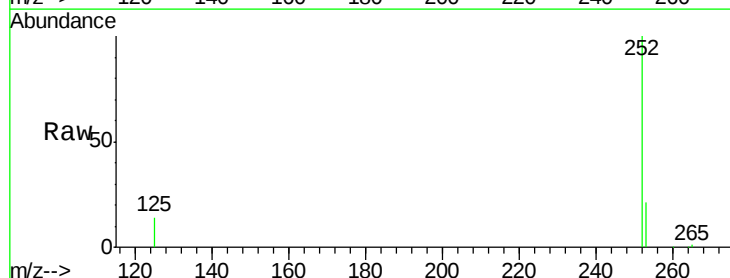
Tgt Ion:252 Resp: 118036

Ion Ratio Lower Upper

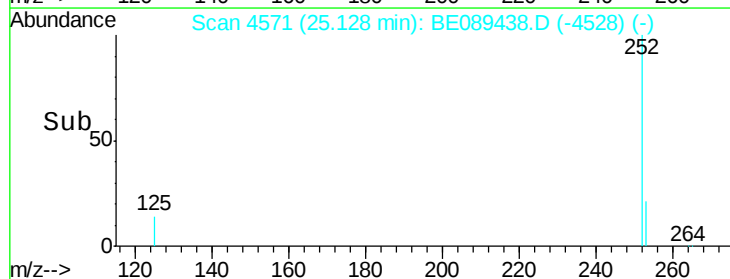
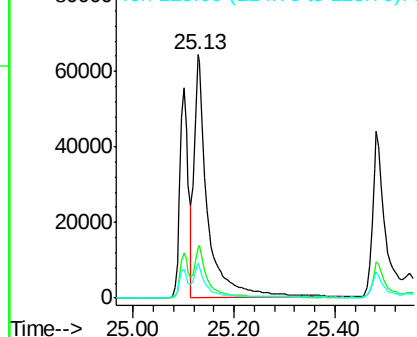
252 100

253 20.9 17.4 26.2

125 14.2 10.9 16.3



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

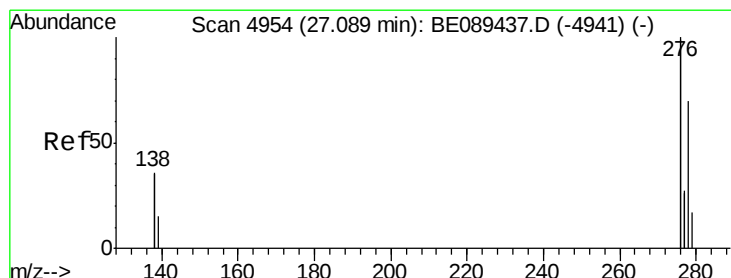
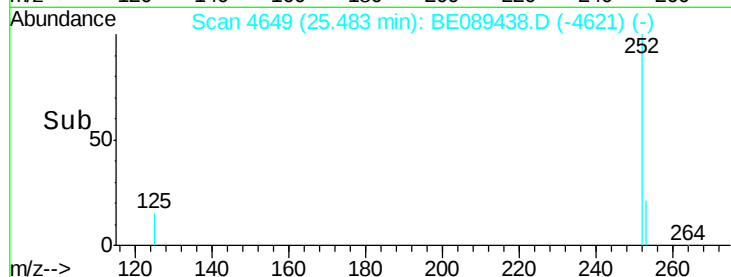
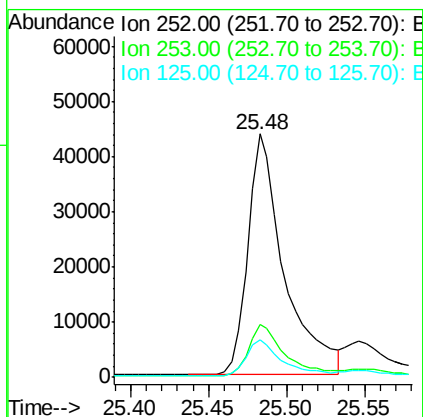
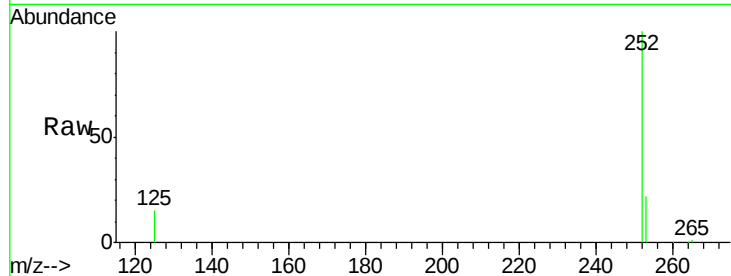




#25
Benzo(a)pyrene
Concen: 2.99 ng
RT: 25.48 min Scan# 4649
Delta R.T. -0.00 min
Lab File: BE089438.D
Acq: 30 Jan 2015 8:49

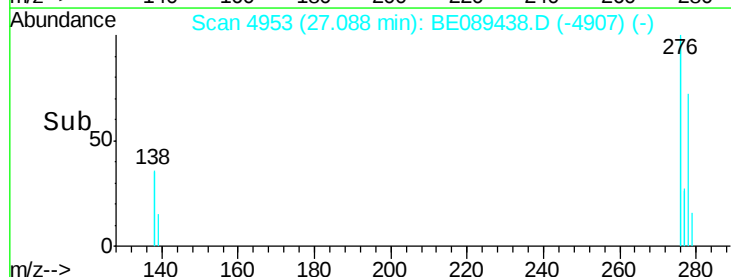
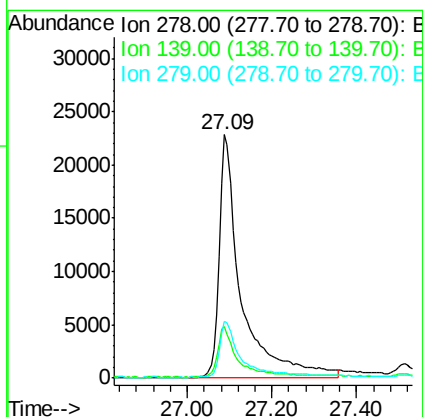
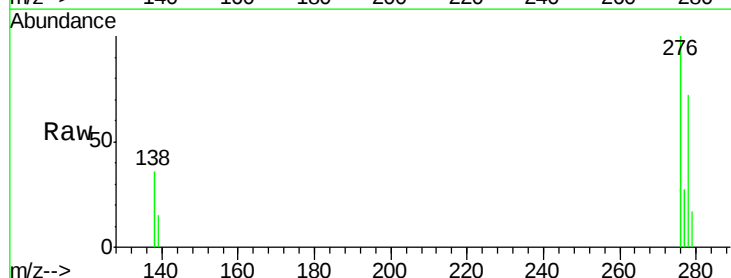
Instrument :
BNA_E
LabSampleId :
SSTDIC002

Tgt Ion: 252 Resp: 71094
Ion Ratio Lower Upper
252 100
253 21.6 17.3 25.9
125 15.4 12.0 18.0



#26
Dibenzo(a,h)anthracene
Concen: 4.15 ng
RT: 27.09 min Scan# 4953
Delta R.T. -0.00 min
Lab File: BE089438.D
Acq: 30 Jan 2015 8:49

Tgt Ion: 278 Resp: 81868
Ion Ratio Lower Upper
278 100
139 21.3 17.0 25.4
279 23.1 19.1 28.7





#27

Benzo(g,h,i)perylene

Concen: 3.10 ng

RT: 27.51 min Scan# 5018

Delta R.T. 0.01 min

Lab File: BE089438.D

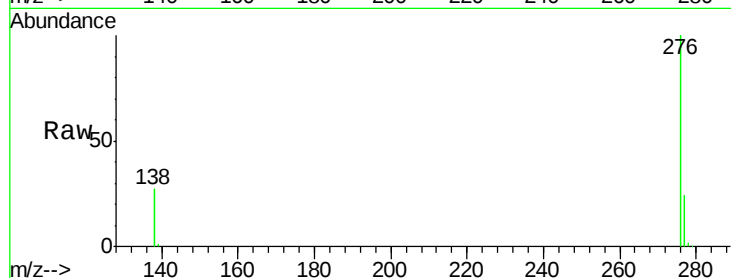
Acq: 30 Jan 2015 8:49

Instrument :

BNA_E

LabSampleId :

SSTDIC002



Tgt Ion: 276 Resp: 357947

Ion Ratio Lower Upper

276 100

277 24.4 18.4 27.6

138 27.2 23.7 35.5

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

