

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE011515\
 Data File : BE089398.D
 Acq On : 15 Jan 2015 17:59
 Operator : TP/IZ
 Sample : SSTDICC005
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 LabSampleId :
 SSTDICC005

Quant Time: Jan 16 05:29:43 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE011515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 16 05:21:30 2015
 Response via : Initial Calibration

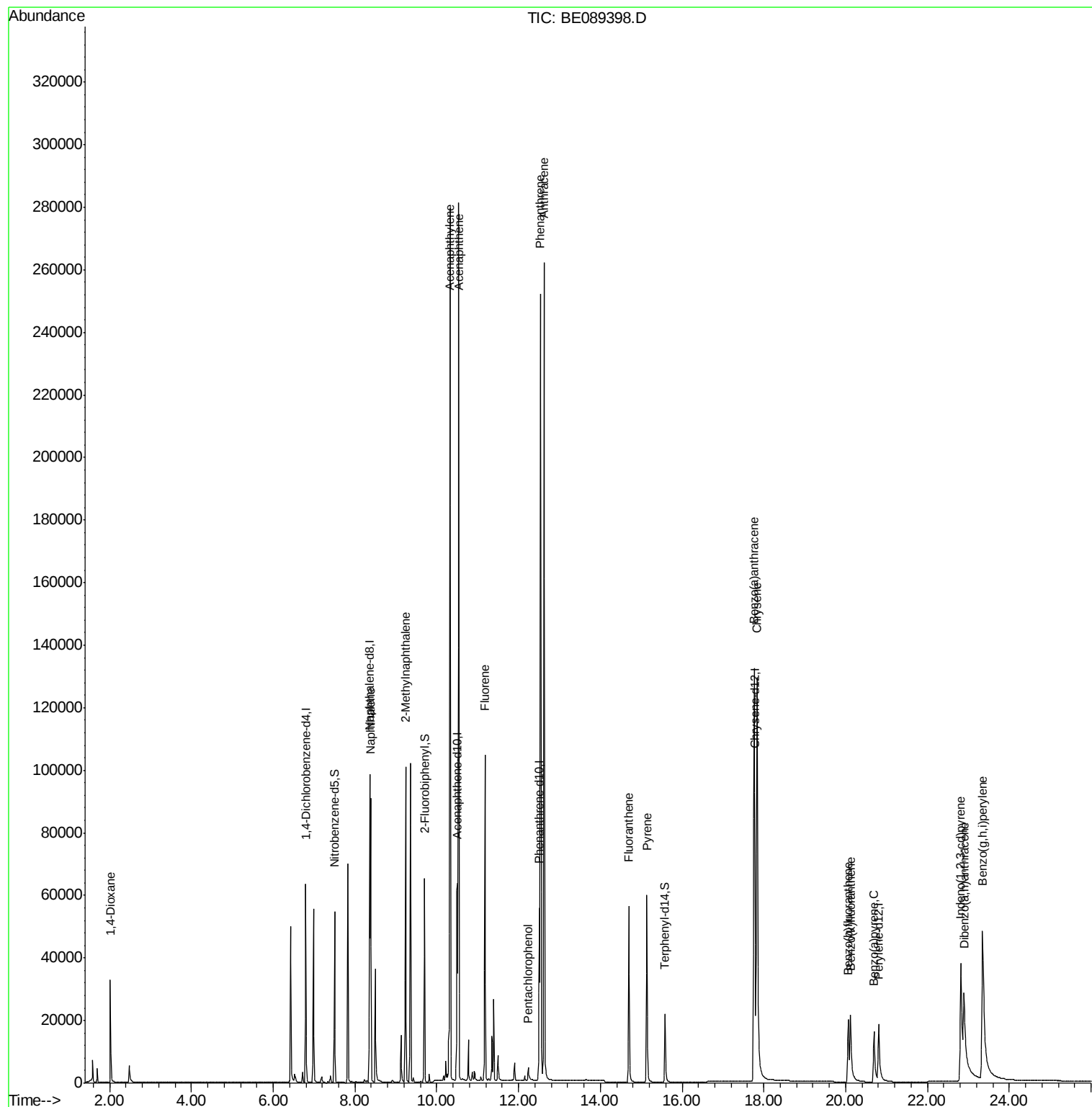
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	21233	5.00	ng	0.00
3) Naphthalene-d8	8.36	136	80252	5.00	ng	0.00
7) Acenaphthene-d10	10.51	164	35391	5.00	ng	0.01
12) Phenanthrene-d10	12.50	188	53681	5.00	ng	0.00
17) Chrysene-d12	17.78	240	39333	5.00	ng	0.00
23) Perylene-d12	20.81	264	31940	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.50	82	27467	5.25	ng	0.00
8) 2-Fluorobiphenyl	9.71	172	46110	4.77	ng	0.00
19) Terphenyl-d14	15.58	244	31569	4.75	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.02	88	15693	5.16	ng	99
5) Naphthalene	8.39	128	85456	4.82	ng	100
6) 2-Methylnaphthalene	9.24	142	52662	4.63	ng	99
9) Acenaphthylene	10.32	152	297823	5.02	ng	100
10) Acenaphthene	10.54	154	43790	4.77	ng	98
11) Fluorene	11.18	166	48694	5.08	ng	100
13) Pentachlorophenol	12.24	266	4701	8.16	ng	85
14) Phenanthrene	12.54	178	263847	4.84	ng	100
15) Anthracene	12.62	178	265637	5.18	ng	100
16) Fluoranthene	14.70	202	57984	5.50	ng	99
18) Pyrene	15.14	202	62688	4.89	ng	99
20) Benzo(a)anthracene	17.76	228	167976	4.81	ng	98
21) Chrysene	17.83	228	198547	4.97	ng	98
22) Indeno(1,2,3-cd)pyrene	22.82	276	69960	2.93	ng	# 75
24) Benzo(b)fluoranthene	20.06	252	30348	5.43	ng	# 94
25) Benzo(k)fluoranthene	20.12	252	48301	5.56	ng	96
26) Benzo(a)pyrene	20.69	252	30439	5.56	ng	93
27) Dibenzo(a,h)anthracene	22.90	278	23643	5.44	ng	# 87
28) Benzo(g,h,i)perylene	23.35	276	131506	5.21	ng	92

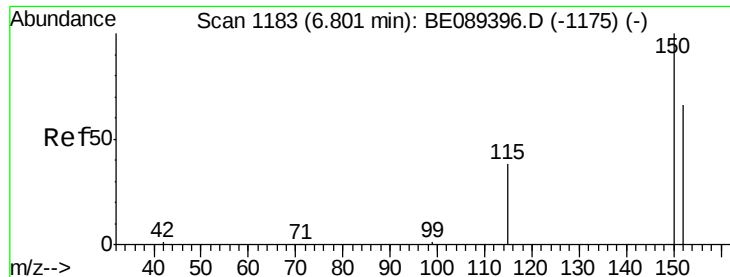
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.80 min Scan# 1184

Delta R.T. 0.00 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

Instrument :

BNA_M

LabSampleId :

SSTDIC005

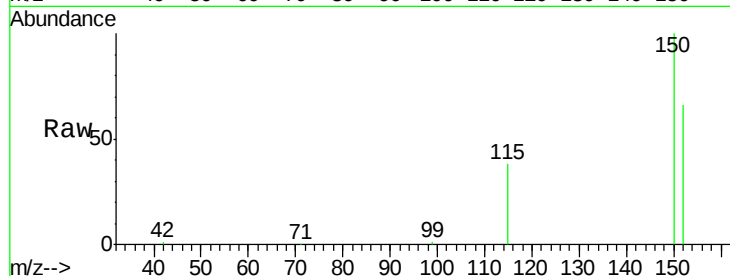
Tgt Ion:152 Resp: 21233

Ion Ratio Lower Upper

152 100

150 151.2 121.9 182.9

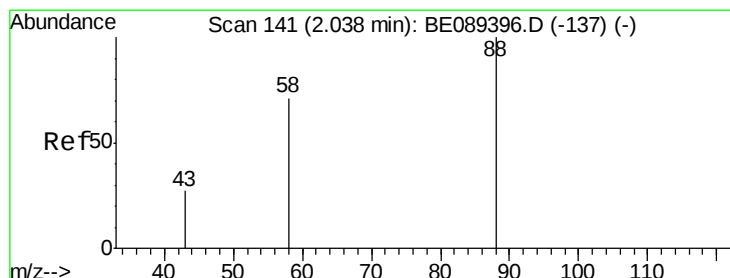
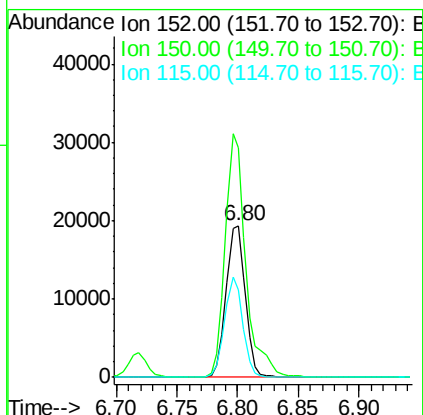
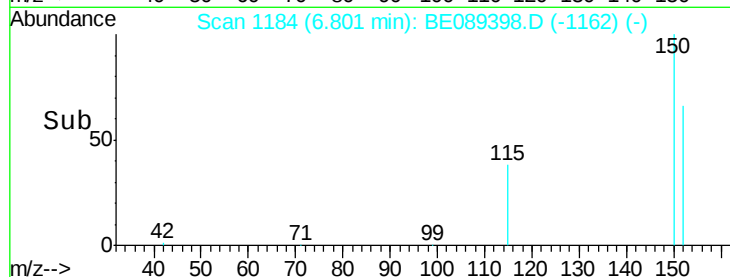
115 57.7 47.0 70.6



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: 5.16 ng

RT: 2.02 min Scan# 138

Delta R.T. -0.02 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

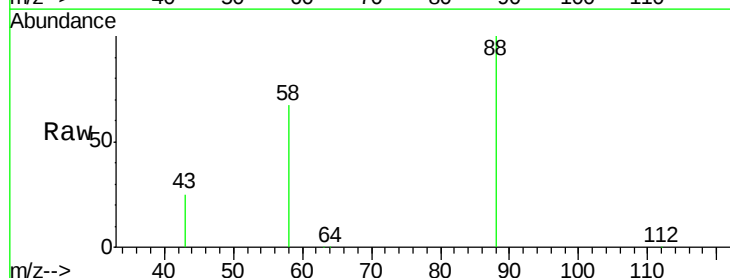
Tgt Ion: 88 Resp: 15693

Ion Ratio Lower Upper

88 100

58 79.2 64.6 96.8

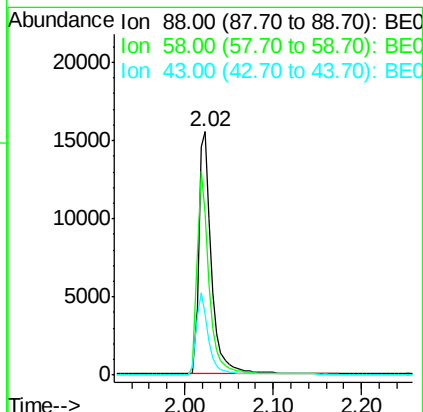
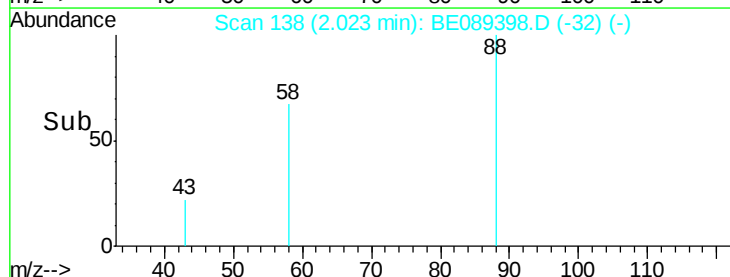
43 32.2 25.7 38.5

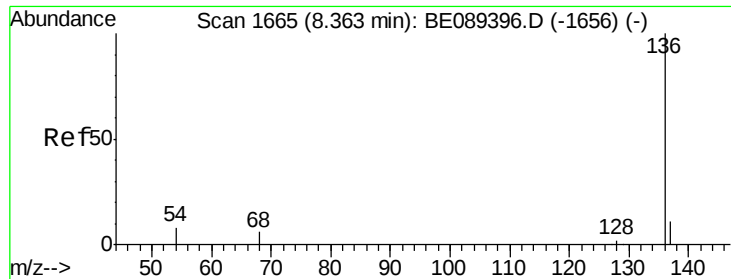


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.36 min Scan# 1665

Delta R.T. -0.00 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

Instrument :

BNA_M

LabSampleId :

SSTDIC005

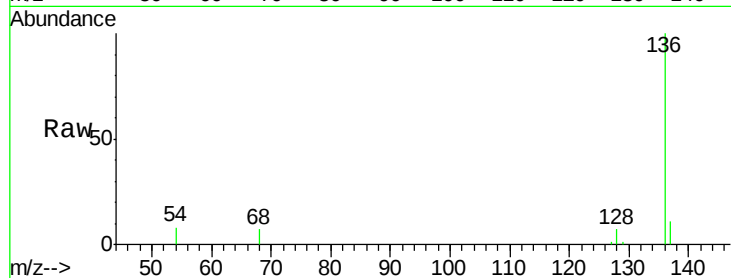
Tgt Ion: 136 Resp: 80252

Ion Ratio Lower Upper

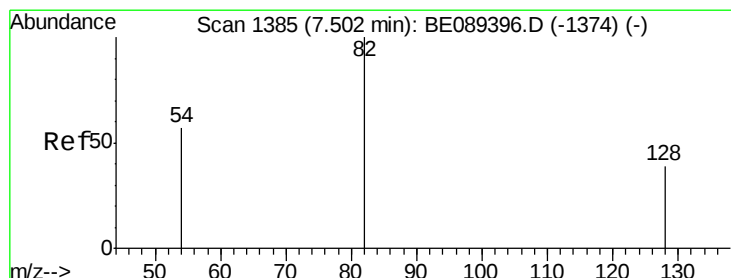
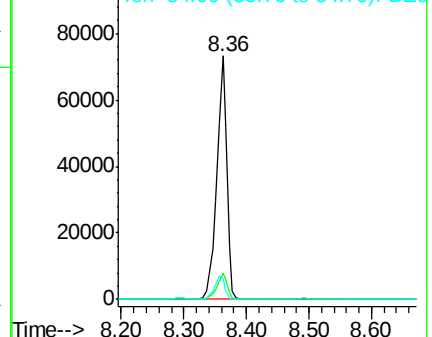
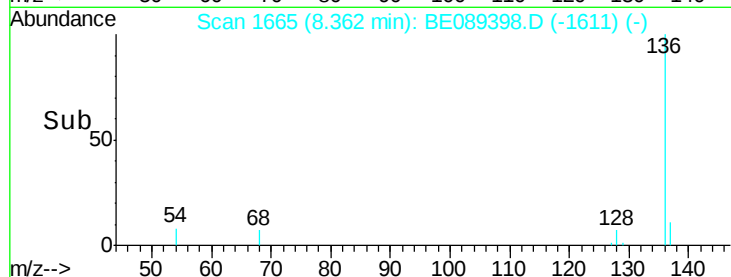
136 100

137 10.9 8.7 13.1

54 8.4 6.5 9.7



Abundance Ion 136.00 (135.70 to 136.70): BE089398.D (-1611) (-)



#4

Nitrobenzene-d5

Concen: 5.25 ng

RT: 7.50 min Scan# 1384

Delta R.T. -0.00 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

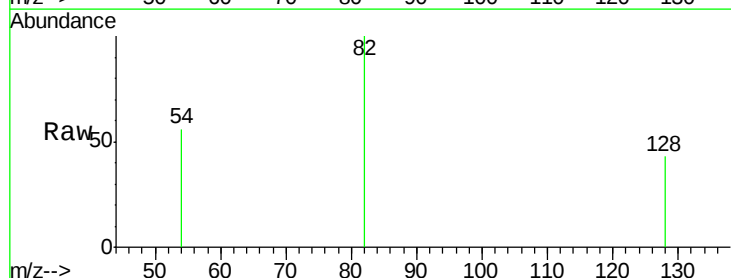
Tgt Ion: 82 Resp: 27467

Ion Ratio Lower Upper

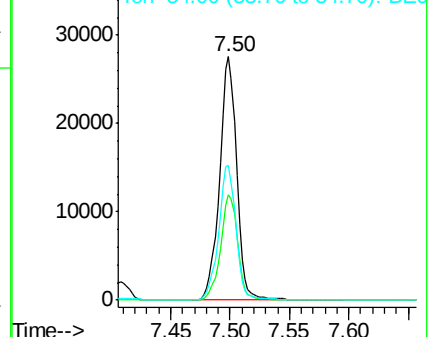
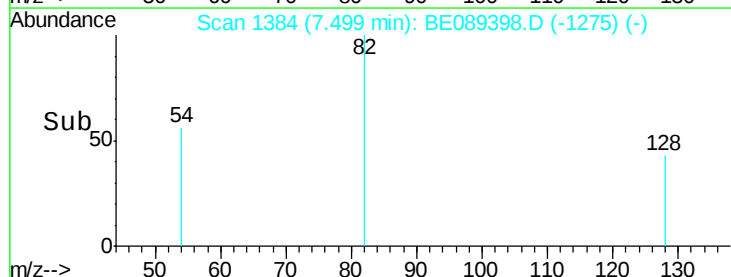
82 100

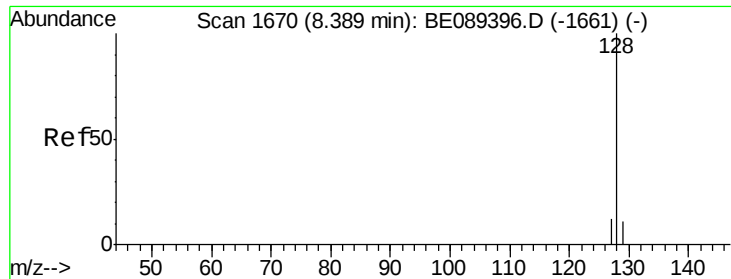
128 43.4 31.5 47.3

54 55.5 46.2 69.2



Abundance Ion 82.00 (81.70 to 82.70): BE089398.D (-1275) (-)





#5

Naphthalene

Concen: 4.82 ng

RT: 8.39 min Scan# 1670

Delta R.T. -0.00 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

Instrument :

BNA_M

LabSampleId :

SSTDIC005

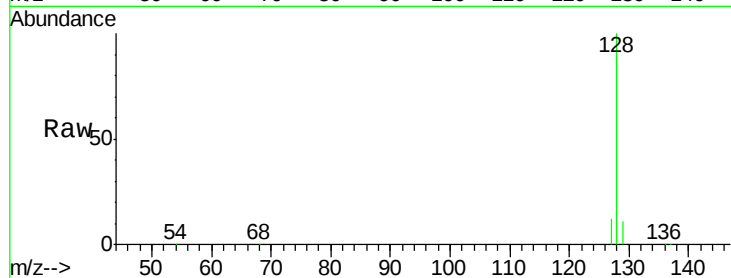
Tgt Ion:128 Resp: 85456

Ion Ratio Lower Upper

128 100

129 11.1 9.0 13.6

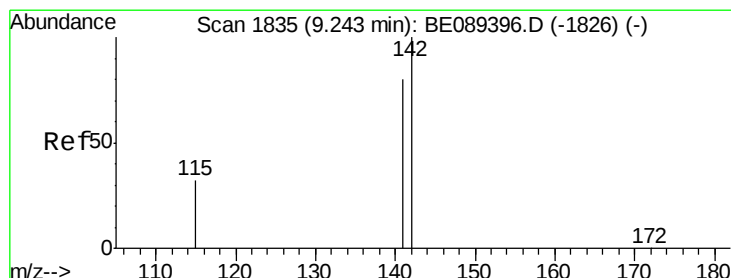
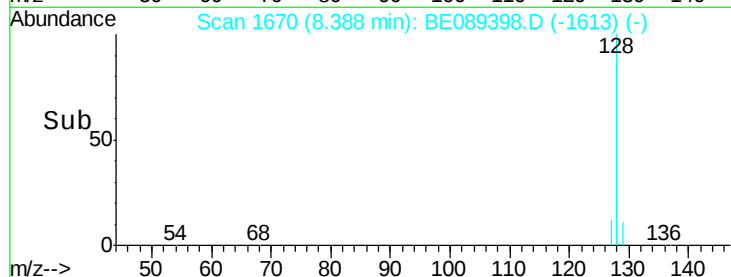
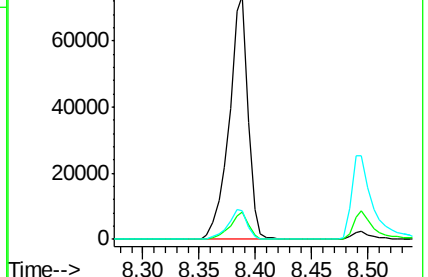
127 12.0 9.6 14.4



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



#6

2-Methylnaphthalene

Concen: 4.63 ng

RT: 9.24 min Scan# 1835

Delta R.T. -0.00 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

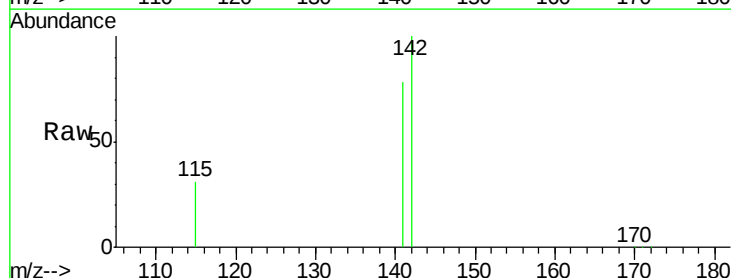
Tgt Ion:142 Resp: 52662

Ion Ratio Lower Upper

142 100

141 78.3 63.7 95.5

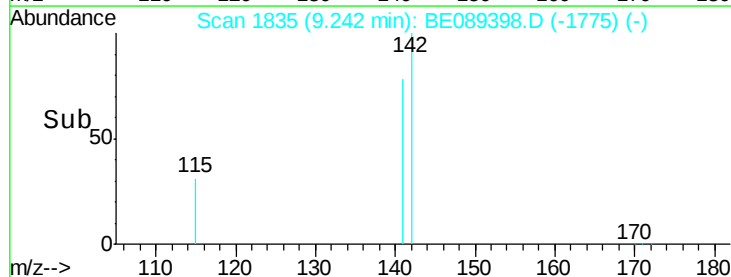
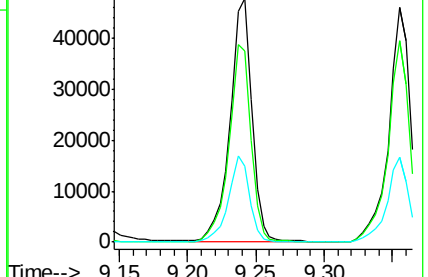
115 30.9 25.4 38.0

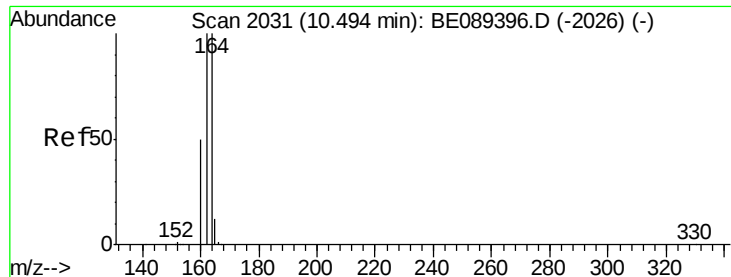


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.51 min Scan# 2032

Delta R.T. 0.01 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

Instrument :

BNA_M

LabSampleId :

SSTDIC005

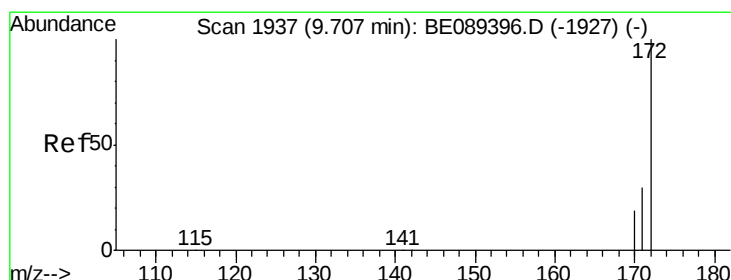
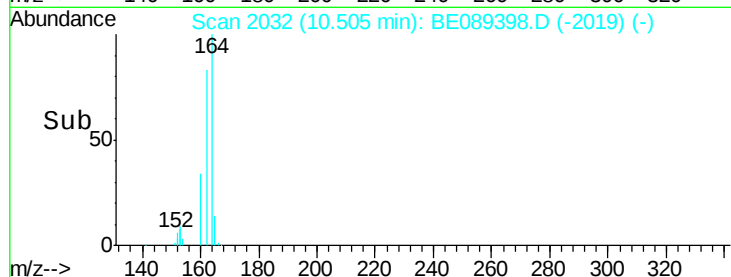
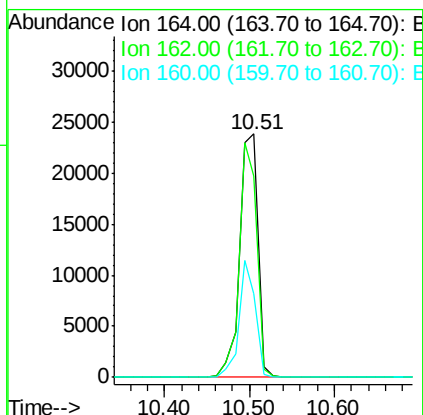
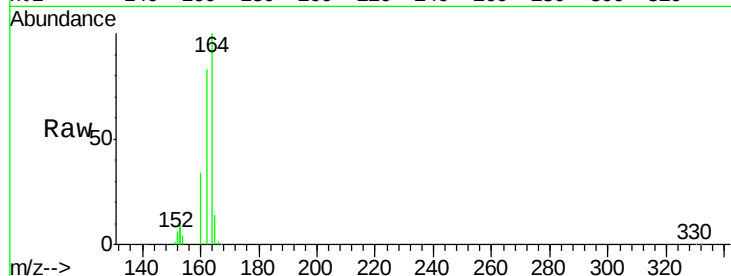
Tgt Ion:164 Resp: 35391

Ion Ratio Lower Upper

164 100

162 82.7 80.2 120.4

160 34.2 40.1 60.1#



#8

2-Fluorobiphenyl

Concen: 4.77 ng

RT: 9.71 min Scan# 1937

Delta R.T. -0.00 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

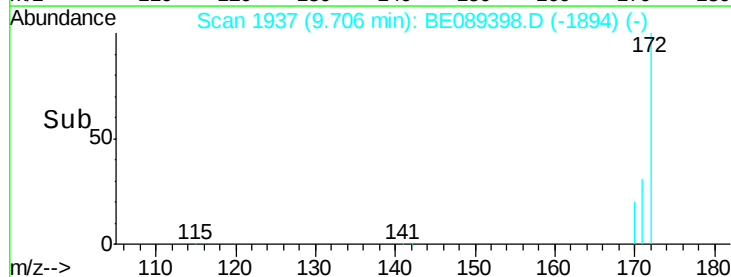
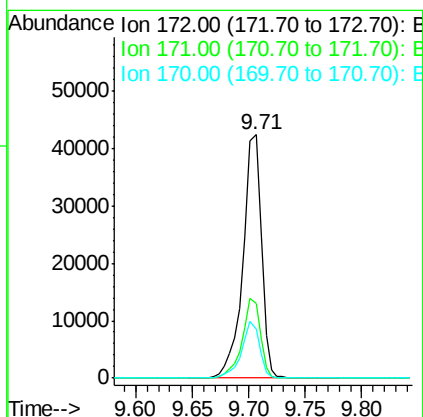
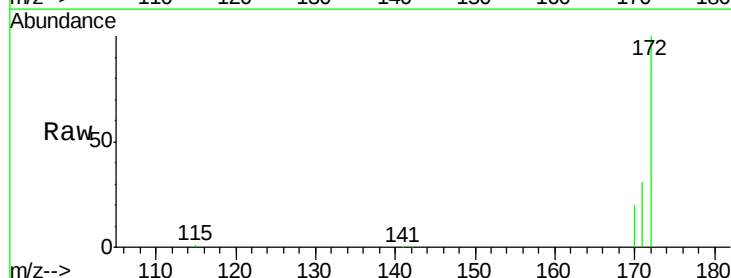
Tgt Ion:172 Resp: 46110

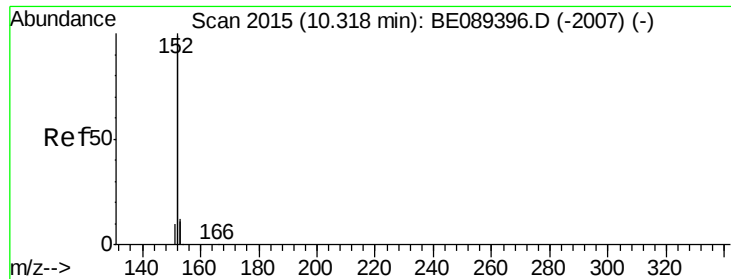
Ion Ratio Lower Upper

172 100

171 30.9 24.4 36.6

170 20.1 15.8 23.6





#9

Acenaphthylene

Concen: 5.02 ng

RT: 10.32 min Scan# 2015

Delta R.T. 0.00 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

Instrument :

BNA_M

LabSampleId :

SSTDIC005

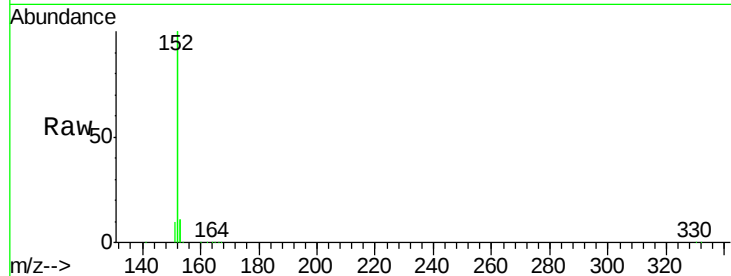
Tgt Ion:152 Resp: 297823

Ion Ratio Lower Upper

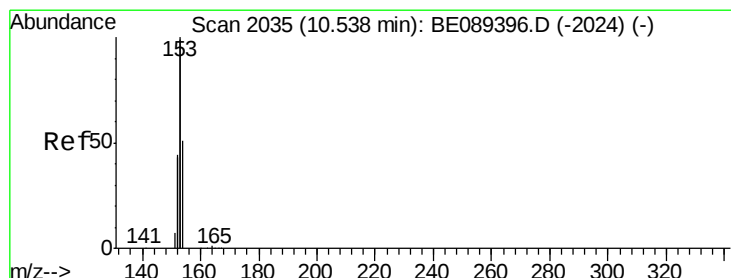
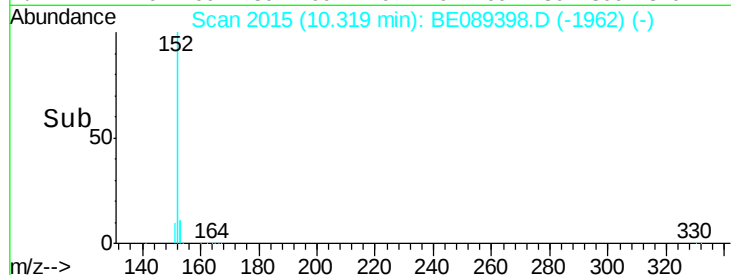
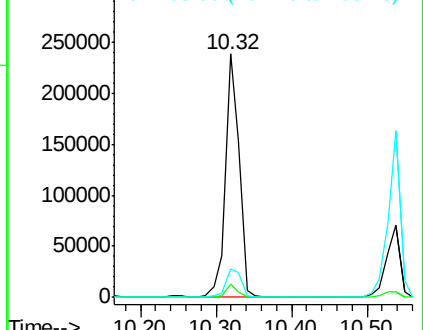
152 100

151 4.7 3.7 5.5

153 12.9 10.2 15.4



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



#10

Acenaphthene

Concen: 4.77 ng

RT: 10.54 min Scan# 2035

Delta R.T. 0.00 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

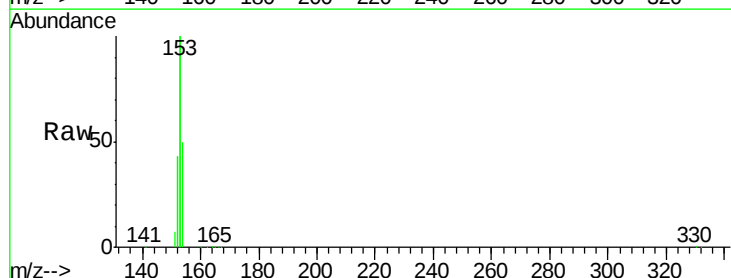
Tgt Ion:154 Resp: 43790

Ion Ratio Lower Upper

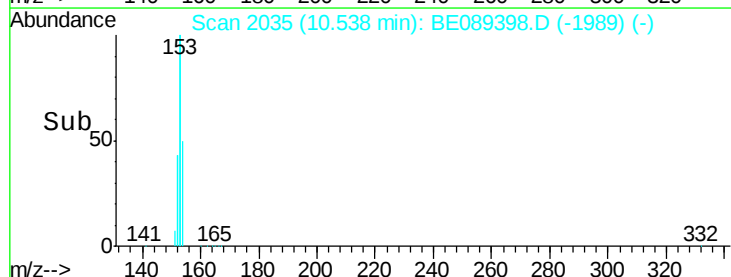
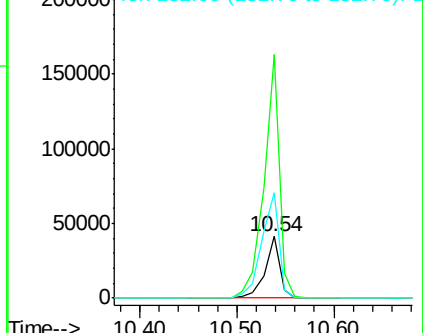
154 100

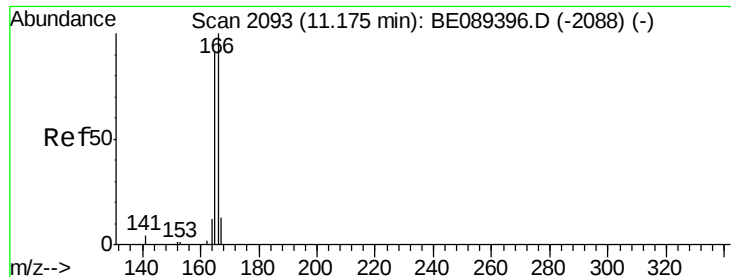
153 416.0 327.0 490.4

152 200.8 162.2 243.4



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





#11

Fluorene

Concen: 5.08 ng

RT: 11.18 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

Instrument :

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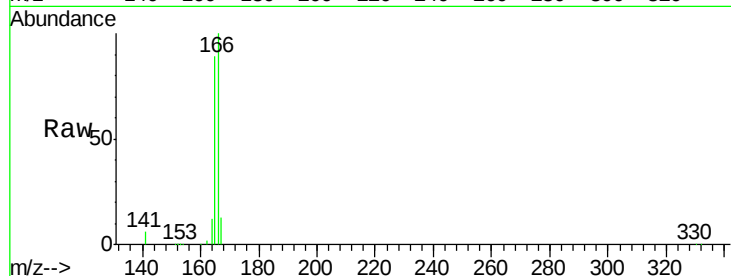
Tgt Ion:166 Resp: 48694

Ion Ratio Lower Upper

166 100

165 90.3 72.5 108.7

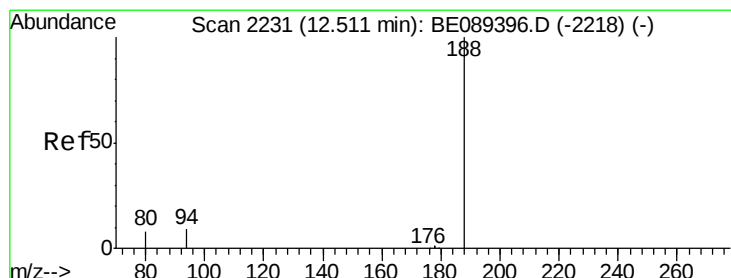
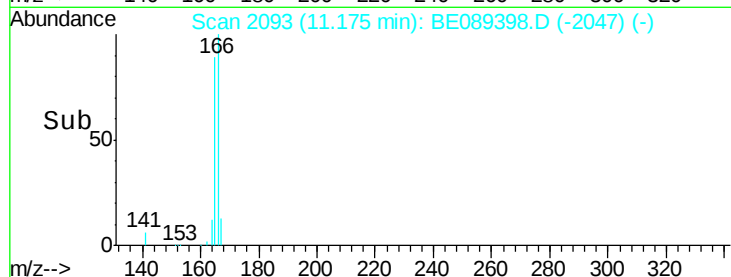
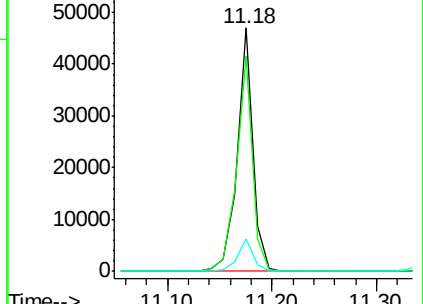
167 13.4 10.7 16.1



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



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.50 min Scan# 2230

Delta R.T. -0.01 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

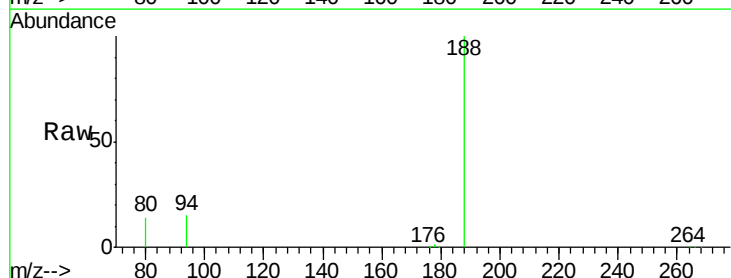
Tgt Ion:188 Resp: 53681

Ion Ratio Lower Upper

188 100

94 15.0 7.6 11.4#

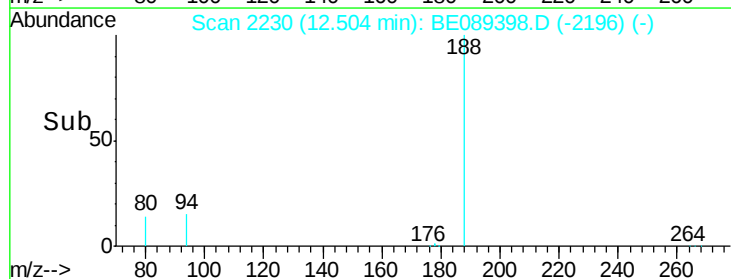
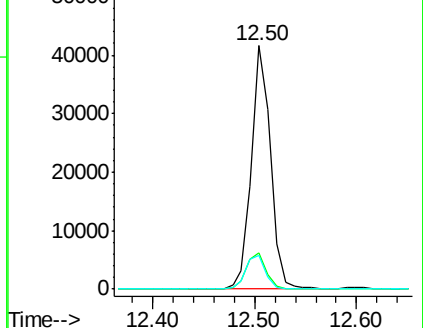
80 14.1 6.8 10.2#

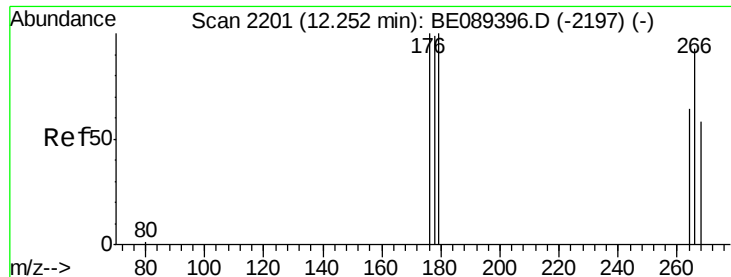


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

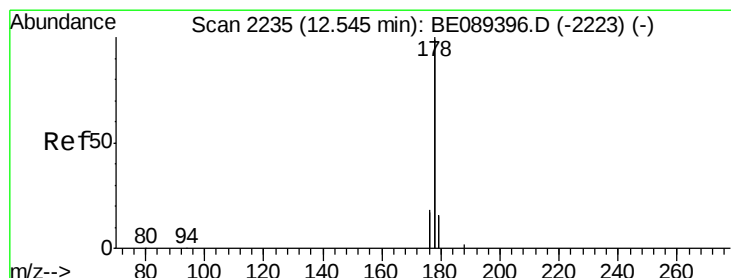
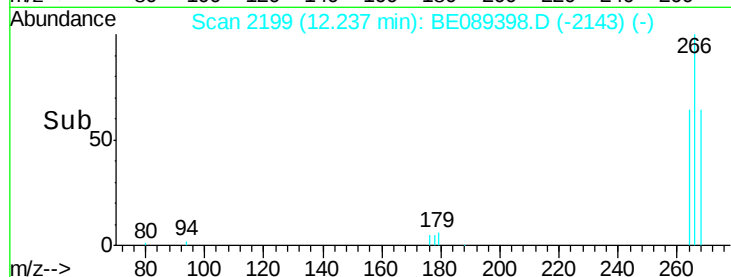
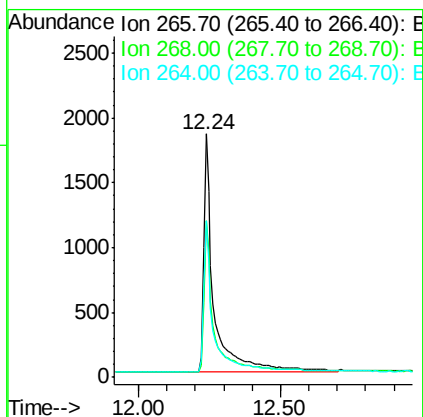
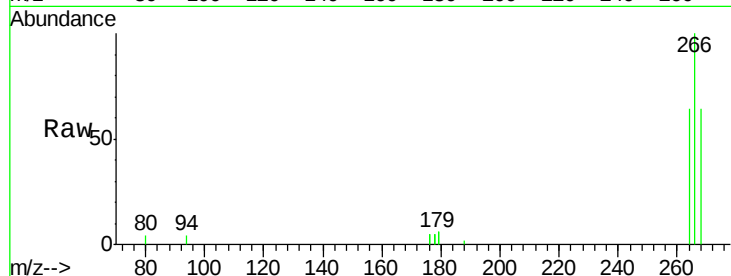




#13
 Pentachlorophenol
 Concen: 8.16 ng
 RT: 12.24 min Scan# 2199
 Delta R.T. -0.02 min
 Lab File: BE089398.D
 Acq: 15 Jan 2015 17:59

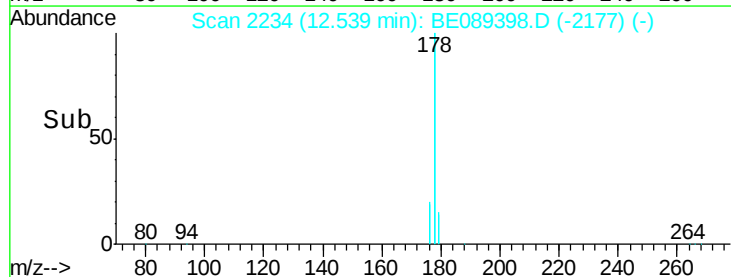
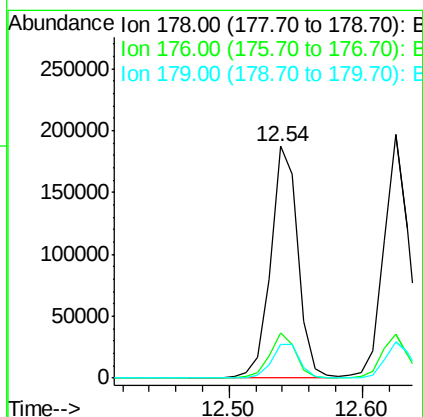
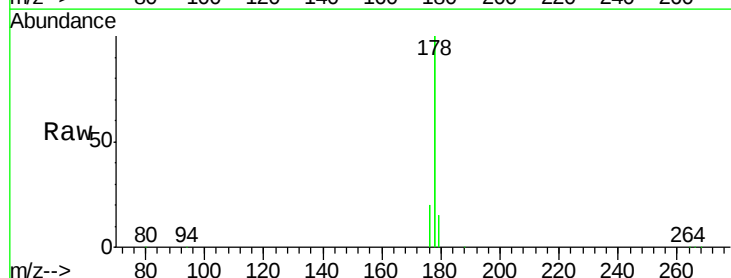
Instrument :
 BNA_M
 LabSampleId :
 SSTDICC005

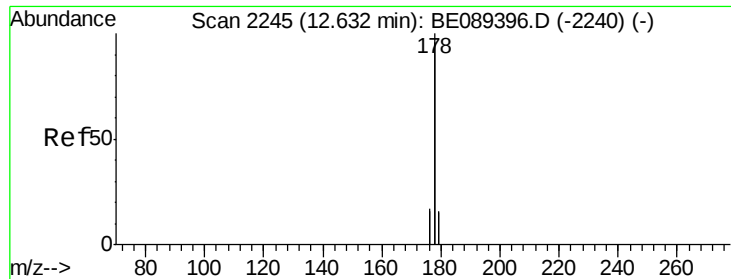
Tgt Ion: 266 Resp: 4701
 Ion Ratio Lower Upper
 266 100
 268 64.3 60.5 90.7
 264 64.3 63.6 95.4



#14
 Phenanthrene
 Concen: 4.84 ng
 RT: 12.54 min Scan# 2234
 Delta R.T. -0.01 min
 Lab File: BE089398.D
 Acq: 15 Jan 2015 17:59

Tgt Ion: 178 Resp: 263847
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.9 22.3
 179 15.2 12.3 18.5





#15

Anthracene

Concen: 5.18 ng

RT: 12.62 min Scan# 2244

Delta R.T. -0.01 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

Instrument :

BNA_M

LabSampleId :

SSTDICC005

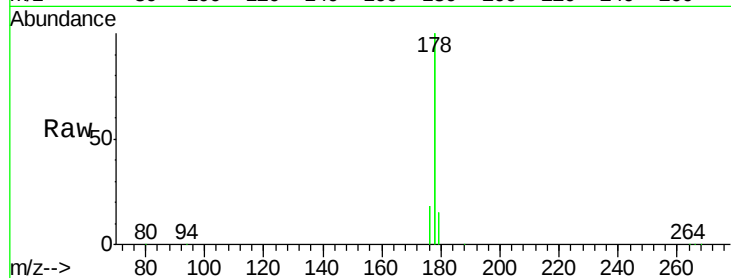
Tgt Ion:178 Resp: 265637

Ion Ratio Lower Upper

178 100

176 18.1 14.4 21.6

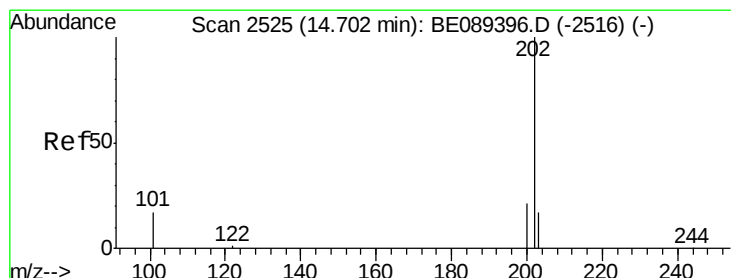
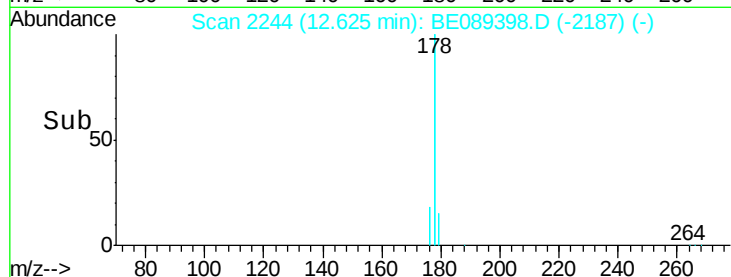
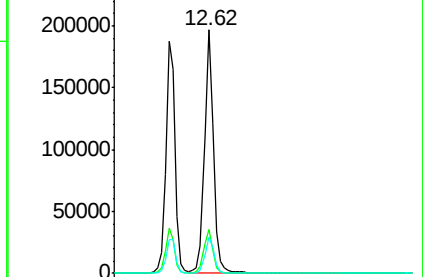
179 15.2 12.0 18.0



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



#16

Fluoranthene

Concen: 5.50 ng

RT: 14.70 min Scan# 2524

Delta R.T. -0.00 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

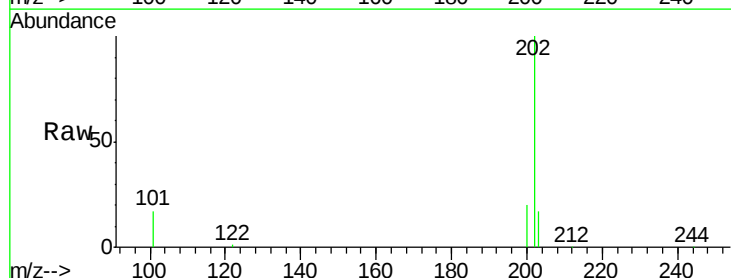
Tgt Ion:202 Resp: 57984

Ion Ratio Lower Upper

202 100

101 16.8 13.2 19.8

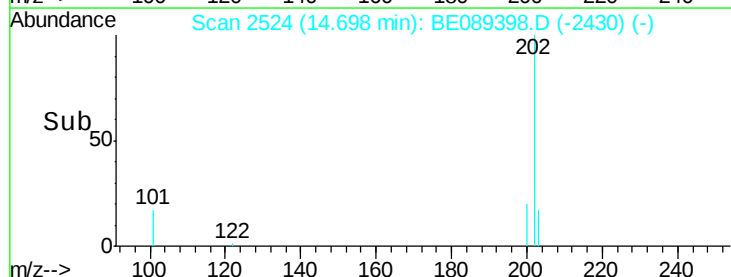
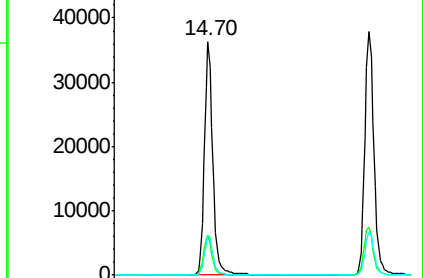
203 17.2 13.5 20.3

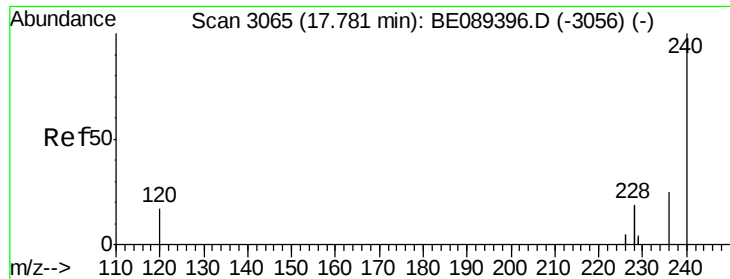


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

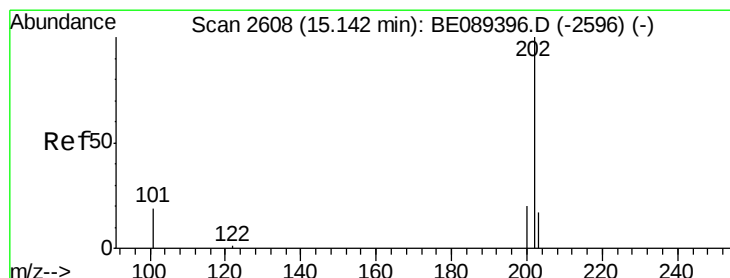
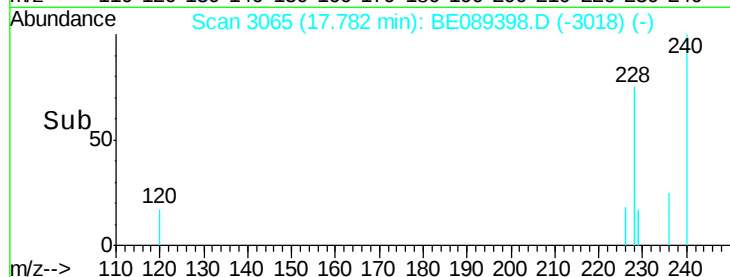
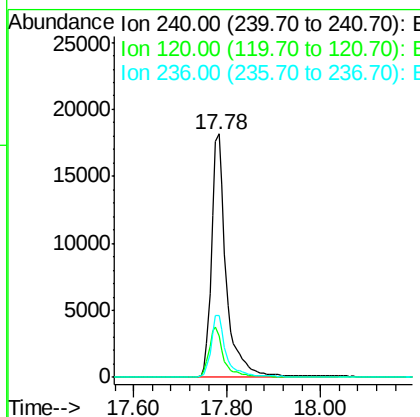
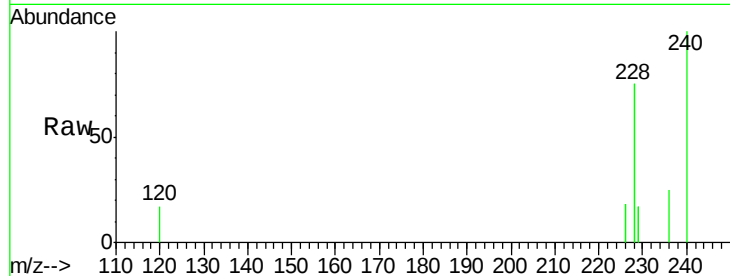




#17
Chrysene-d12
Concen: 5.00 ng
RT: 17.78 min Scan# 3065
Delta R.T. 0.00 min
Lab File: BE089398.D
Acq: 15 Jan 2015 17:59

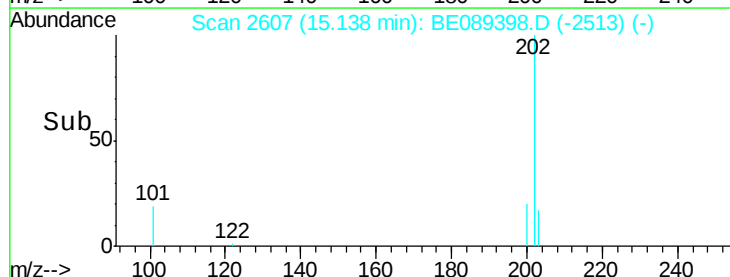
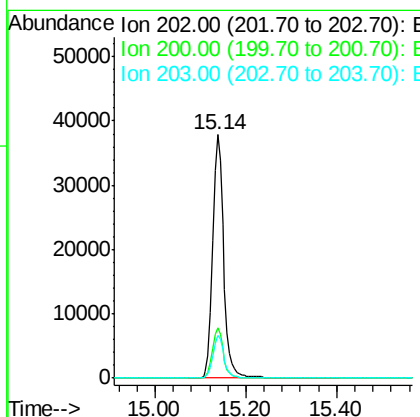
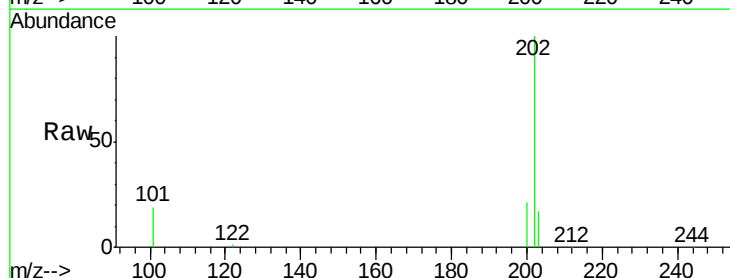
Instrument :
BNA_M
LabSampleId :
SSTDIC005

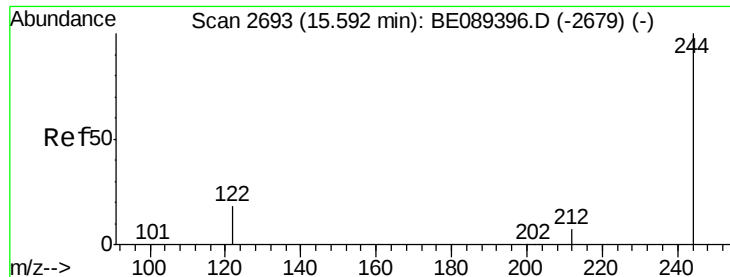
Tgt Ion: 240 Resp: 39333
Ion Ratio Lower Upper
240 100
120 17.0 14.2 21.2
236 25.4 20.6 30.8



#18
Pyrene
Concen: 4.89 ng
RT: 15.14 min Scan# 2607
Delta R.T. -0.00 min
Lab File: BE089398.D
Acq: 15 Jan 2015 17:59

Tgt Ion: 202 Resp: 62688
Ion Ratio Lower Upper
202 100
200 20.4 16.2 24.2
203 17.4 13.7 20.5





#19

Terphenyl-d14

Concen: 4.75 ng

RT: 15.58 min Scan# 2691

Delta R.T. -0.01 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

Instrument :

BNA_M

LabSampleId :

SSTDIC005

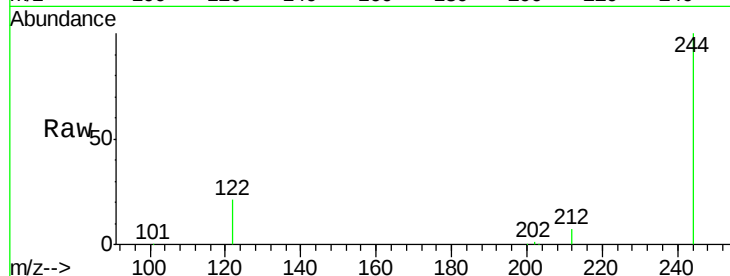
Tgt Ion:244 Resp: 31569

Ion Ratio Lower Upper

244 100

212 7.2 6.7 10.1

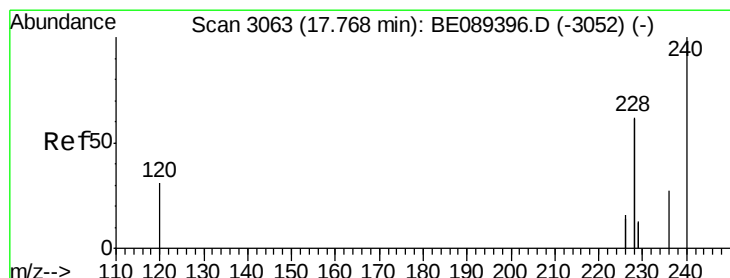
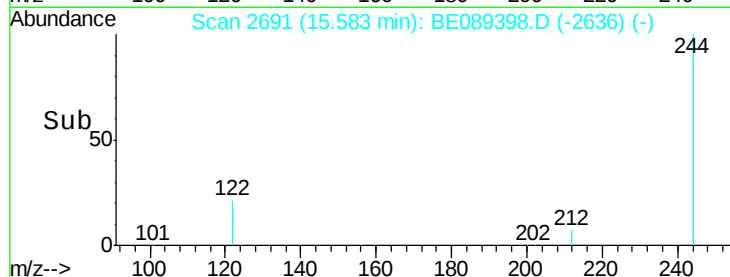
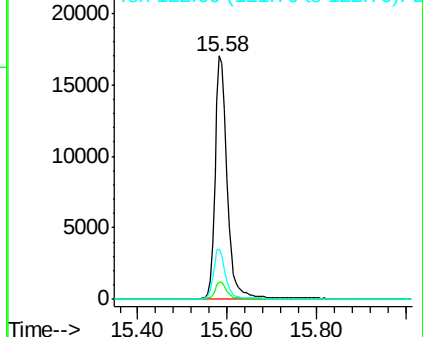
122 20.9 15.7 23.5



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



#20

Benzo(a)anthracene

Concen: 4.81 ng

RT: 17.76 min Scan# 3062

Delta R.T. -0.01 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

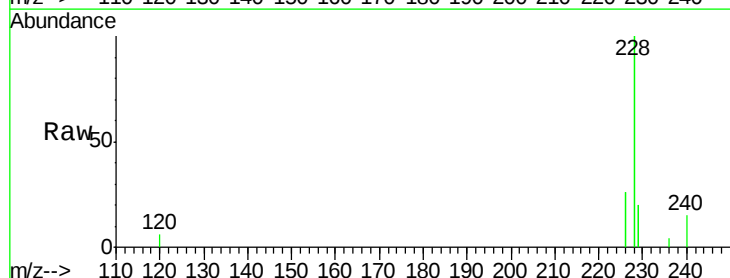
Tgt Ion:228 Resp: 167976

Ion Ratio Lower Upper

228 100

226 25.7 20.6 31.0

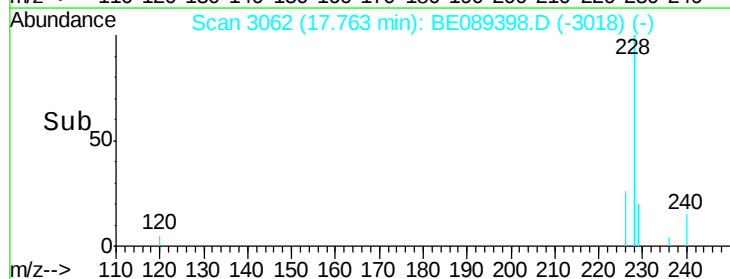
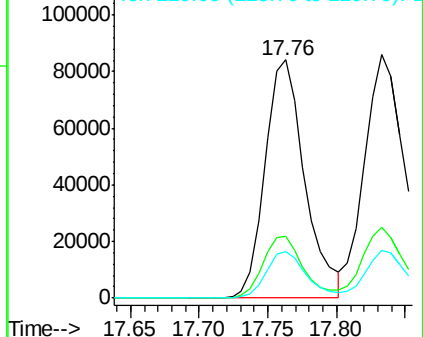
229 19.7 17.1 25.7

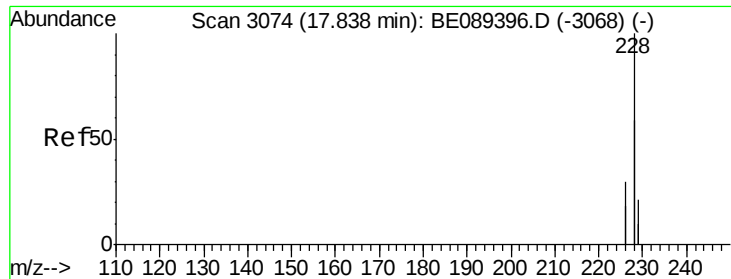


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Chrysene

Concen: 4.97 ng

RT: 17.83 min Scan# 3073

Delta R.T. -0.01 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

Instrument :

BNA_M

LabSampleId :

SSTDICC005

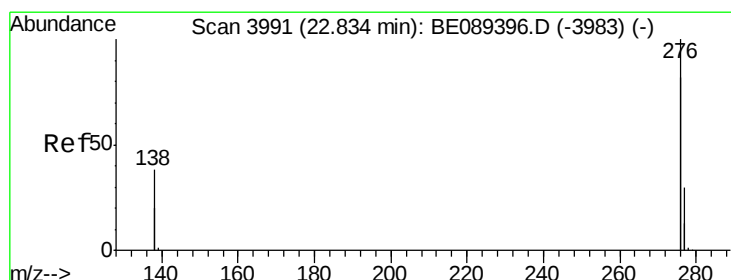
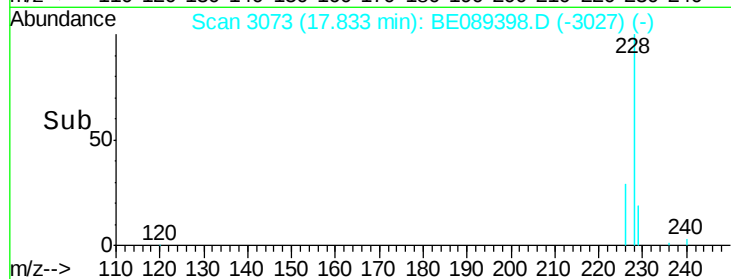
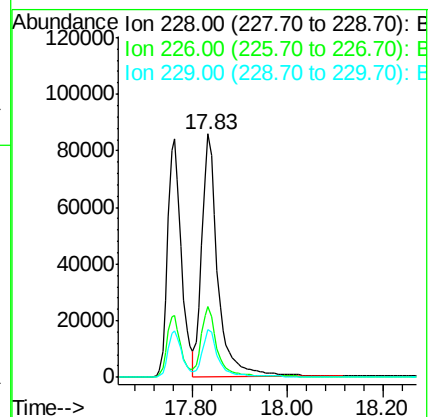
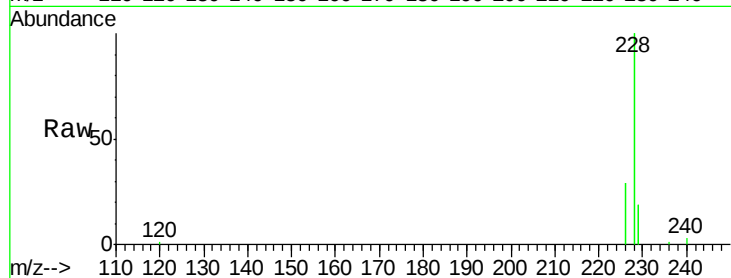
Tgt Ion:228 Resp: 198547

Ion Ratio Lower Upper

228 100

226 29.1 24.2 36.4

229 19.4 16.5 24.7



#22

Indeno(1,2,3-cd)pyrene

Concen: 2.93 ng

RT: 22.82 min Scan# 3989

Delta R.T. -0.01 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

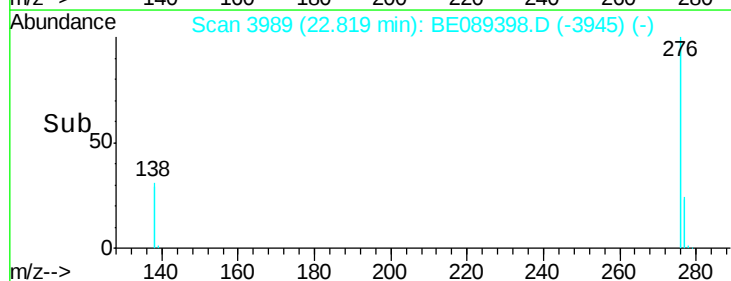
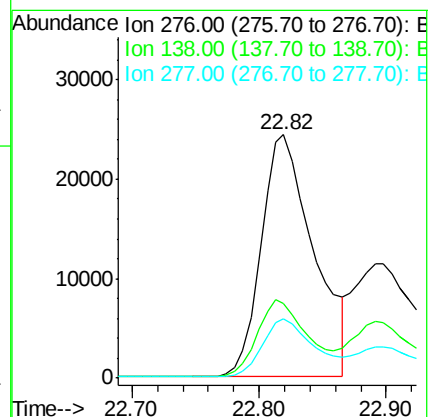
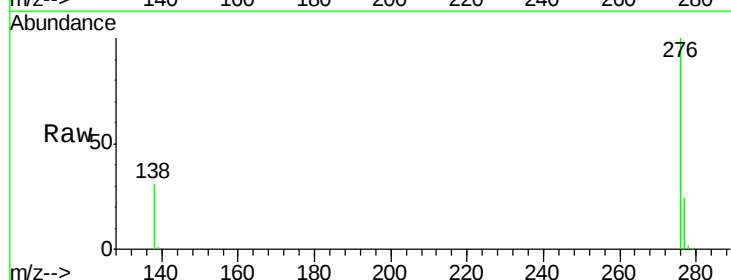
Tgt Ion:276 Resp: 69960

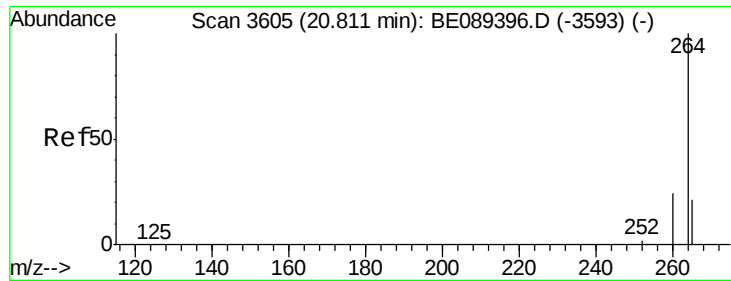
Ion Ratio Lower Upper

276 100

138 30.6 15.0 22.6#

277 23.5 11.4 17.2#

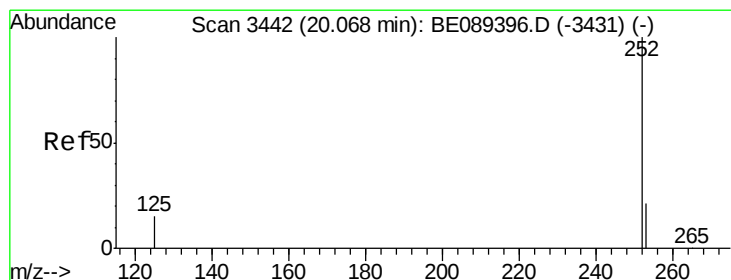
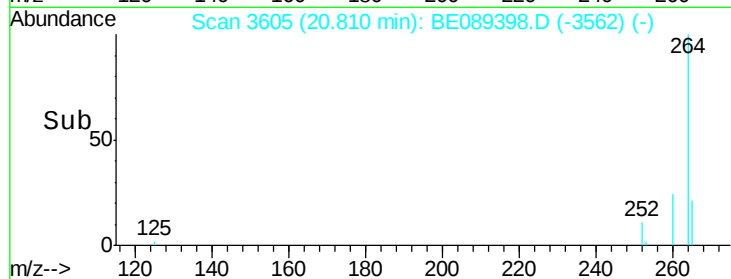
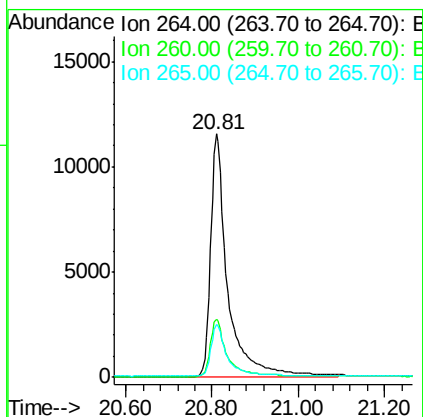
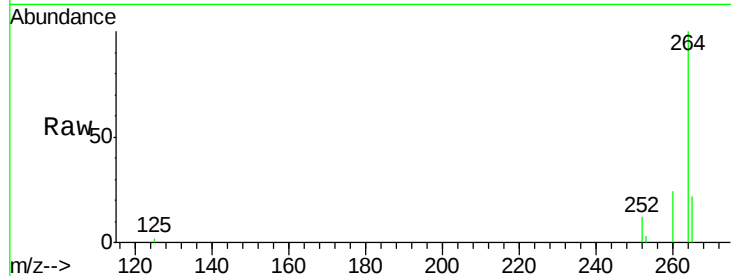




#23
Perylene-d12
 Concen: 5.00 ng
 RT: 20.81 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: BE089398.D
 Acq: 15 Jan 2015 17:59

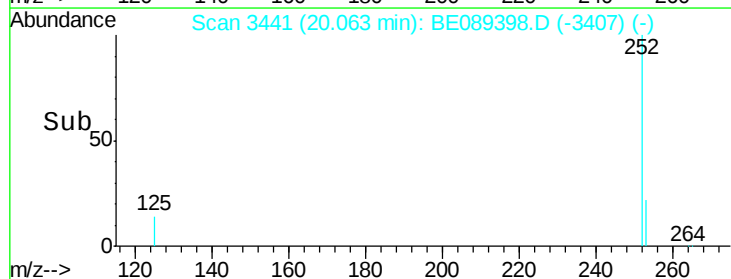
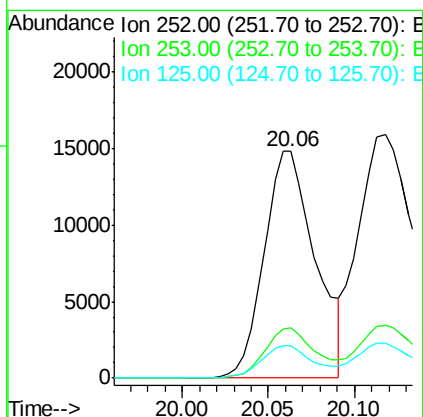
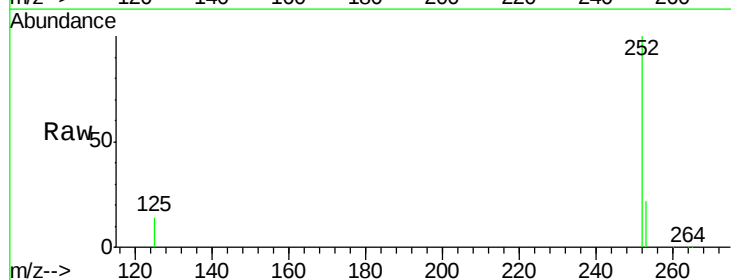
Instrument :
 BNA_M
 LabSampleId :
 SSTDICC005

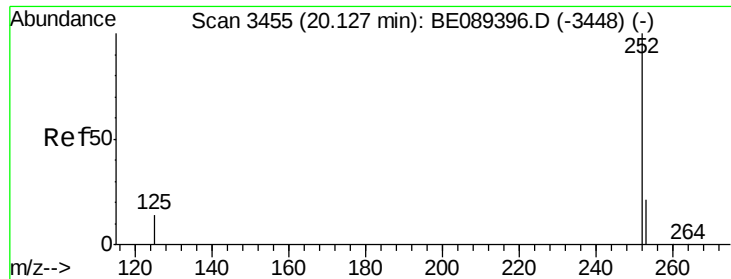
Tgt Ion: 264 Resp: 31940
 Ion Ratio Lower Upper
 264 100
 260 23.9 19.2 28.8
 265 21.7 17.3 25.9



#24
Benzo(b)fluoranthene
 Concen: 5.43 ng
 RT: 20.06 min Scan# 3441
 Delta R.T. -0.01 min
 Lab File: BE089398.D
 Acq: 15 Jan 2015 17:59

Tgt Ion: 252 Resp: 30348
 Ion Ratio Lower Upper
 252 100
 253 22.1 19.1 28.7
 125 14.2 14.5 21.7#





#25

Benzo(k)fluoranthene

Concen: 5.56 ng

RT: 20.12 min Scan# 3453

Delta R.T. -0.01 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

Instrument :

BNA_M

LabSampleId :

SSTDIC005

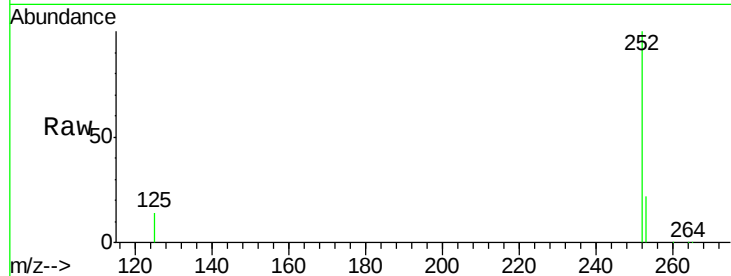
Tgt Ion:252 Resp: 48301

Ion Ratio Lower Upper

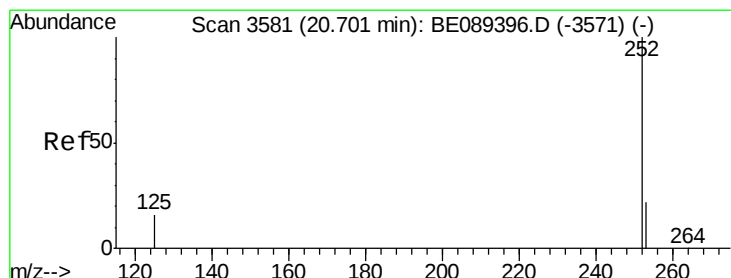
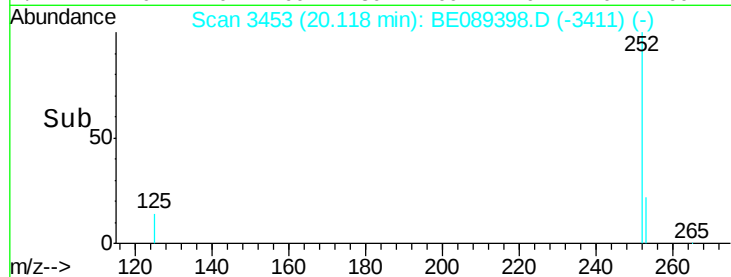
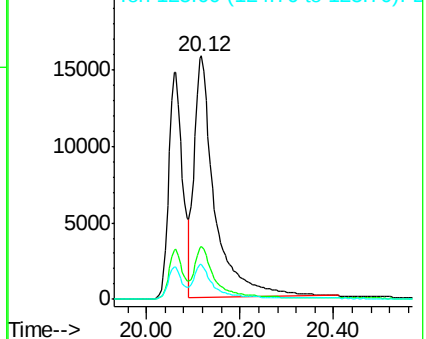
252 100

253 21.9 18.7 28.1

125 14.1 13.1 19.7



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



#26

Benzo(a)pyrene

Concen: 5.56 ng

RT: 20.69 min Scan# 3579

Delta R.T. -0.01 min

Lab File: BE089398.D

Acq: 15 Jan 2015 17:59

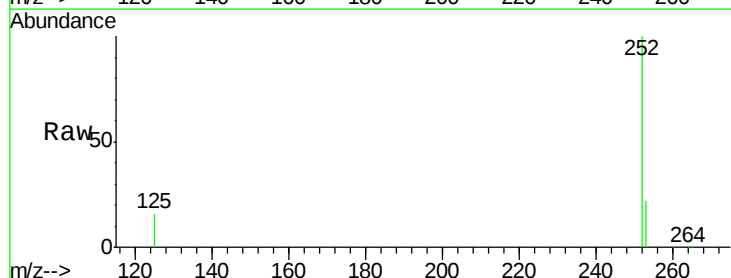
Tgt Ion:252 Resp: 30439

Ion Ratio Lower Upper

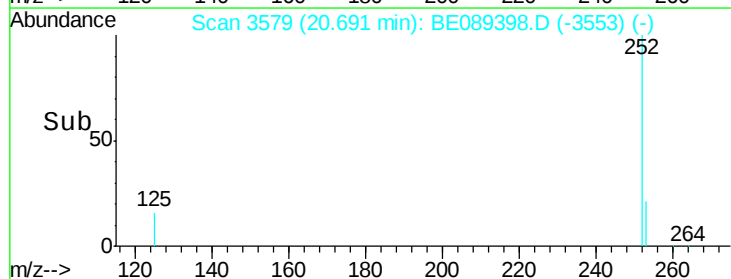
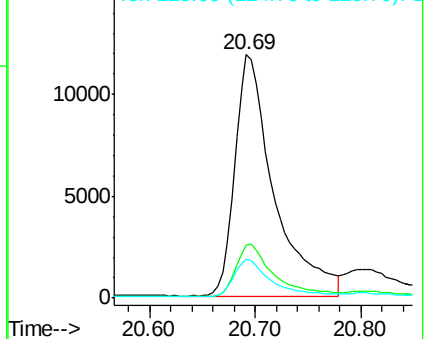
252 100

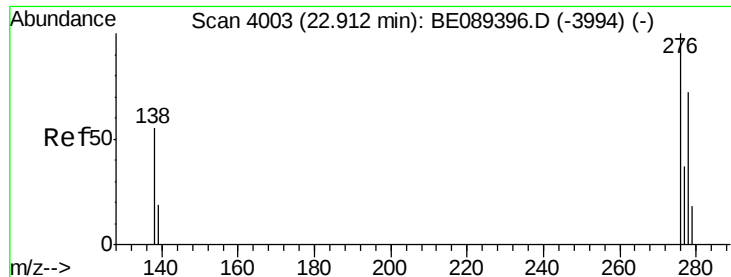
253 21.7 20.0 30.0

125 15.9 15.4 23.2



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

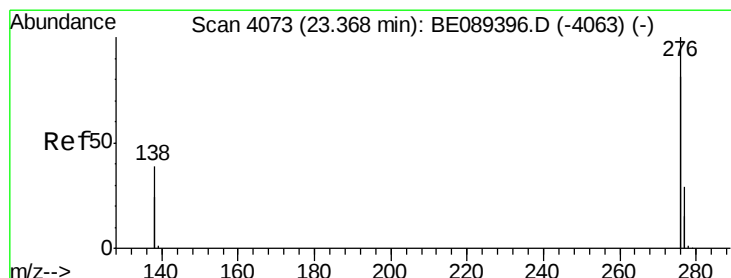
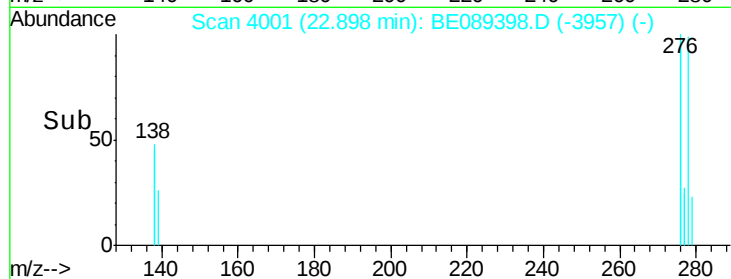
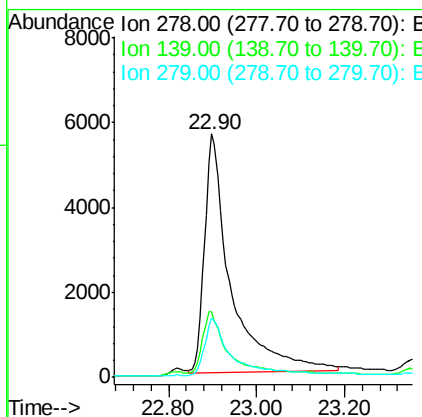
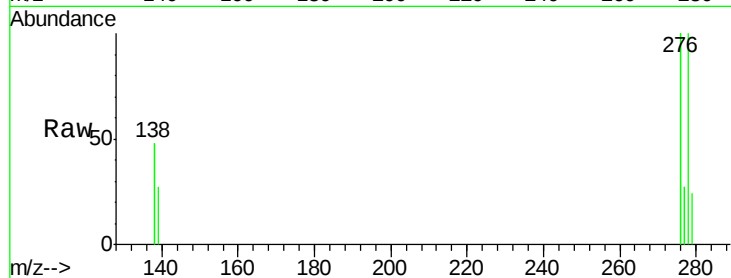




#27
Dibenzo(a,h)anthracene
Concen: 5.44 ng
RT: 22.90 min Scan# 4001
Delta R.T. -0.01 min
Lab File: BE089398.D
Acq: 15 Jan 2015 17:59

Instrument :
BNA_M
LabSampleId :
SSTDIC005

Tgt Ion: 278 Resp: 23643
Ion Ratio Lower Upper
278 100
139 26.9 26.8 40.2
279 24.2 25.4 38.0#



#28
Benzo(g,h,i)perylene
Concen: 5.21 ng
RT: 23.35 min Scan# 4070
Delta R.T. -0.02 min
Lab File: BE089398.D
Acq: 15 Jan 2015 17:59

Tgt Ion: 276 Resp: 131506
Ion Ratio Lower Upper
276 100
277 23.5 22.9 34.3
138 34.3 31.2 46.8

