

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE011515\
 Data File : BE089393.D
 Acq On : 15 Jan 2015 15:12
 Operator : TP/IZ
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 LabSampleId :
 SSTDICC0.5

Quant Time: Jan 16 05:28:37 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	20580	5.00	ng	0.00
3) Naphthalene-d8	8.36	136	77853	5.00	ng	0.00
7) Acenaphthene-d10	10.49	164	35195	5.00	ng	0.00
12) Phenanthrene-d10	12.50	188	54453	5.00	ng	0.00
17) Chrysene-d12	17.78	240	35927	5.00	ng	0.00
23) Perylene-d12	20.81	264	26733	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.52	82	542	0.11	ng	0.01
8) 2-Fluorobiphenyl	9.71	172	1597	0.17	ng	0.00
19) Terphenyl-d14	15.59	244	758	0.12	ng	0.00

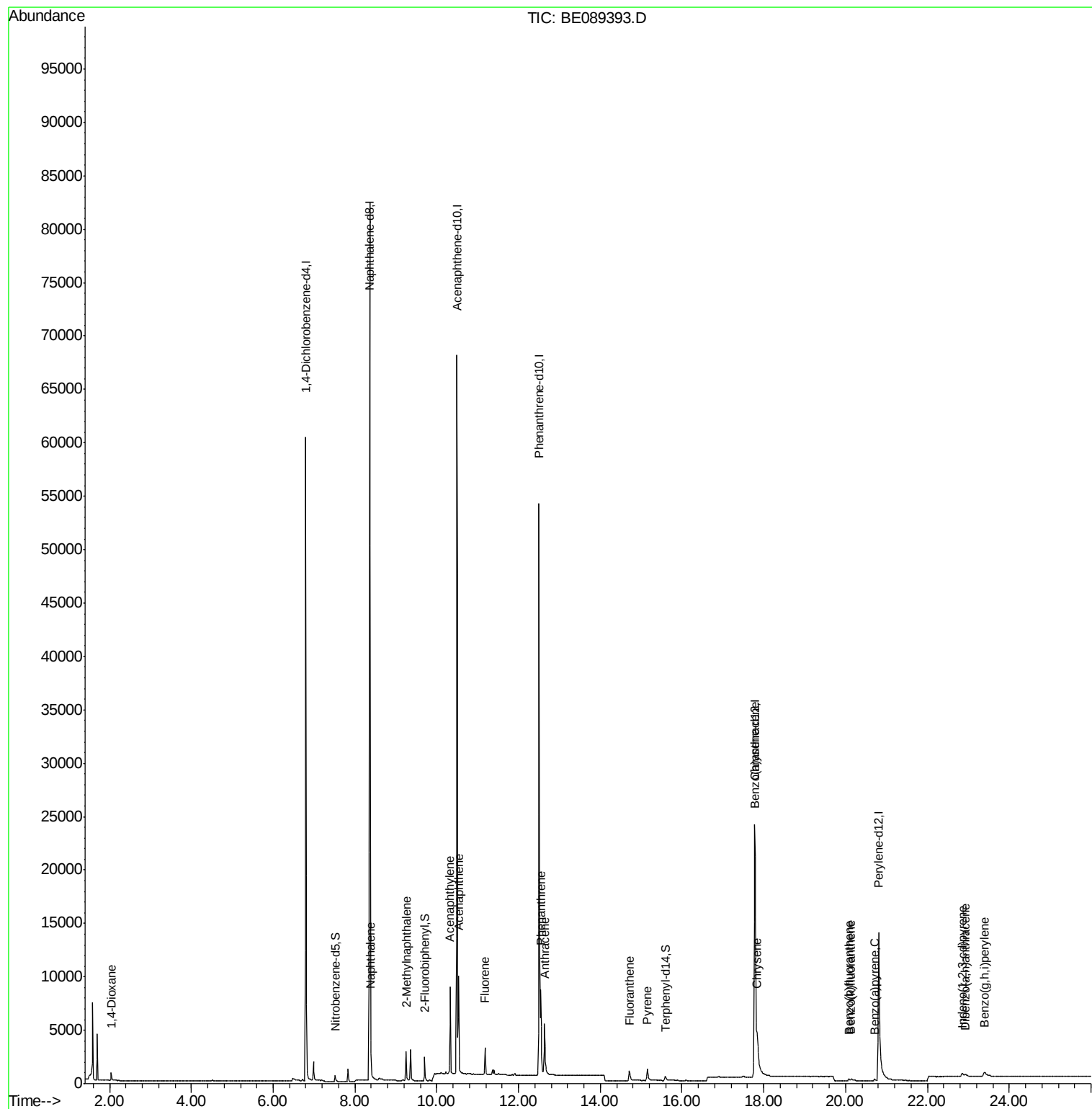
Target Compounds						Qvalue
2) 1,4-Dioxane	2.04	88	485	0.16	ng	# 82
5) Naphthalene	8.39	128	3006	0.17	ng	# 96
6) 2-Methylnaphthalene	9.25	142	1729	0.16	ng	# 98
9) Acenaphthylene	10.33	152	8794	0.15	ng	# 98
10) Acenaphthene	10.54	154	1665	0.18	ng	# 91
11) Fluorene	11.18	166	1552	0.16	ng	# 99
14) Phenanthrene	12.55	178	9378	0.17	ng	# 98
15) Anthracene	12.63	178	7047	0.14	ng	# 99
16) Fluoranthene	14.71	202	1455	0.14	ng	# 99
18) Pyrene	15.15	202	1525	0.13	ng	# 99
20) Benzo(a)anthracene	17.77	228	3832	0.12	ng	# 88
21) Chrysene	17.84	228	5999	0.16	ng	# 88
22) Indeno(1,2,3-cd)pyrene	22.85	276	678	0.03	ng	# 68
24) Benzo(b)fluoranthene	20.08	252	305	0.07	ng	# 60
25) Benzo(k)fluoranthene	20.14	252	524	0.07	ng	# 62
26) Benzo(a)pyrene	20.70	252	281	0.06	ng	# 58
27) Dibenzo(a,h)anthracene	22.92	278	147	0.04	ng	# 40
28) Benzo(g,h,i)perylene	23.39	276	1574	0.07	ng	# 59

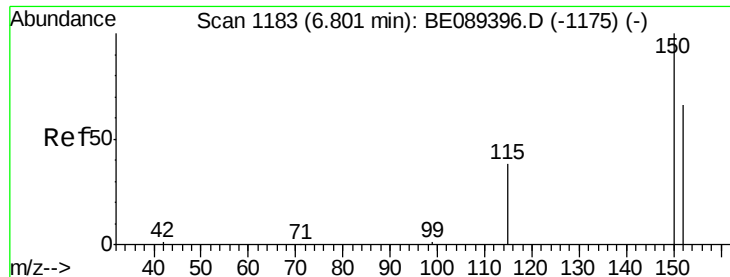
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.80 min Scan# 1183

Delta R.T. -0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

Instrument :

BNA_M

LabSampleId :

SSTDIC0.5

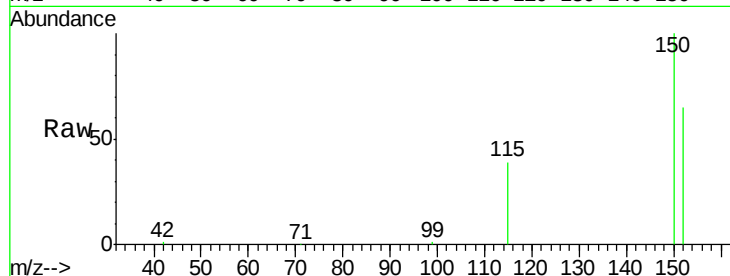
Tgt Ion: 152 Resp: 20580

Ion Ratio Lower Upper

152 100

150 153.6 121.9 182.9

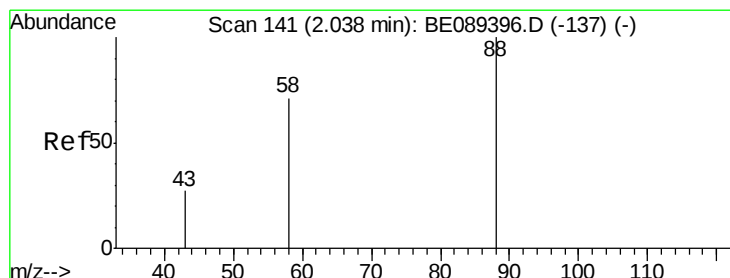
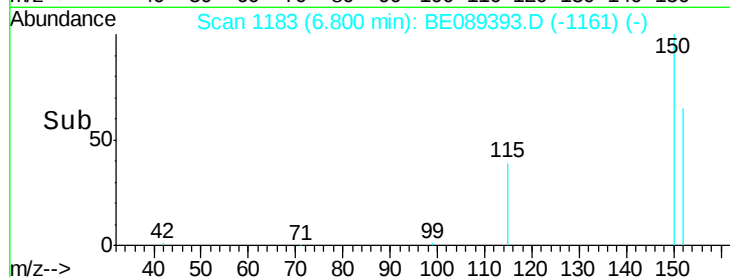
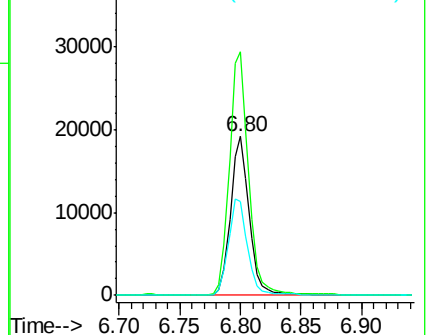
115 59.6 47.0 70.6



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: 0.16 ng

RT: 2.04 min Scan# 141

Delta R.T. -0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

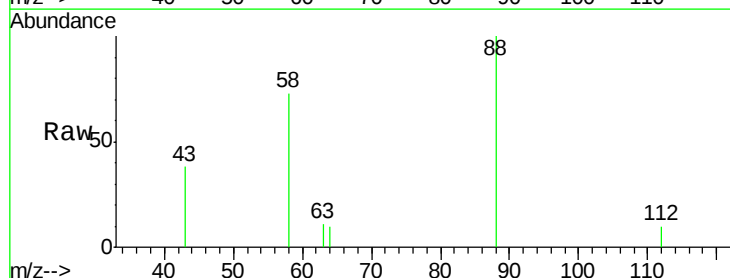
Tgt Ion: 88 Resp: 485

Ion Ratio Lower Upper

88 100

58 78.4 64.6 96.8

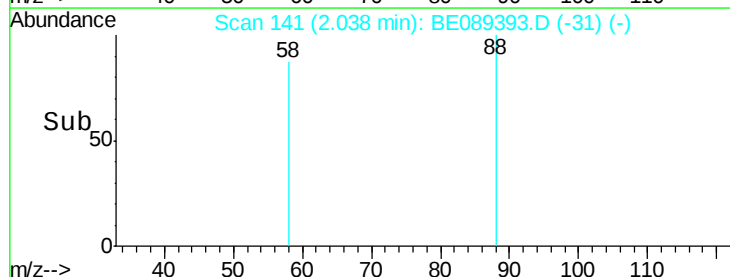
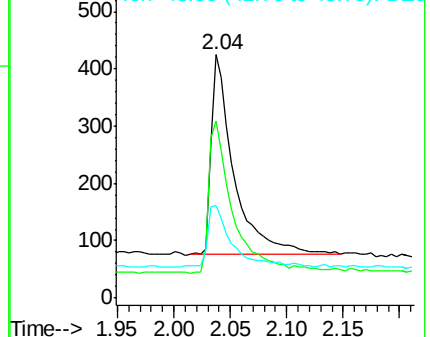
43 0.0 25.7 38.5#

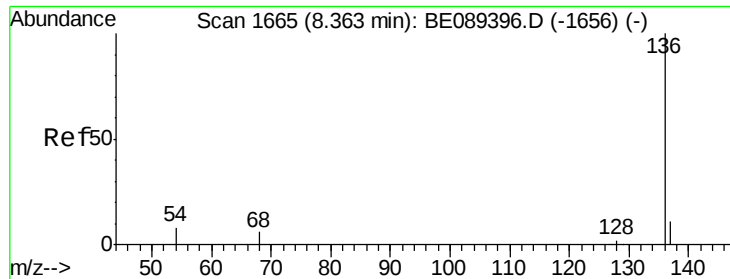


Abundance Ion 88.00 (87.70 to 88.70): BE0

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# 1666

Delta R.T. 0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

Instrument :

BNA_M

LabSampleId :

SSTDIC0.5

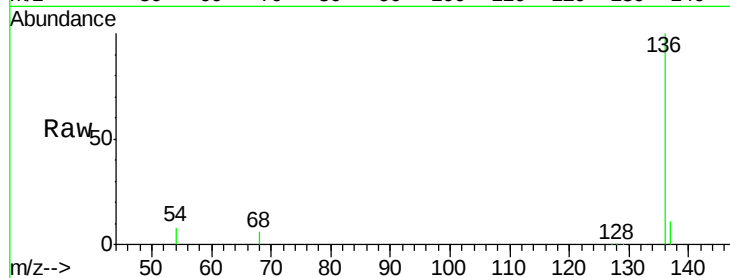
Tgt Ion:136 Resp: 77853

Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

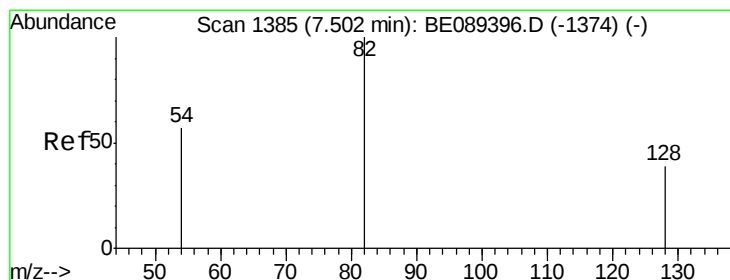
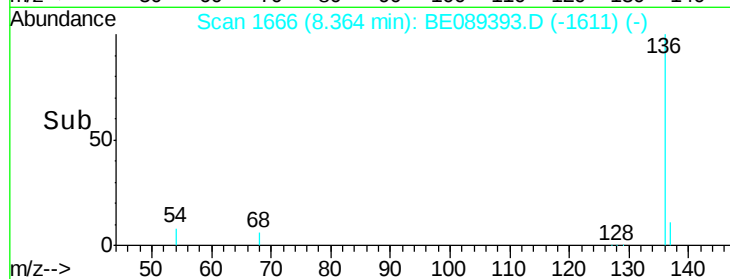
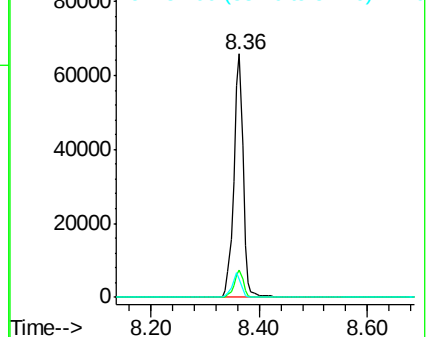
54 7.6 6.5 9.7



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



#4

Nitrobenzene-d5

Concen: 0.11 ng

RT: 7.52 min Scan# 1391

Delta R.T. 0.01 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

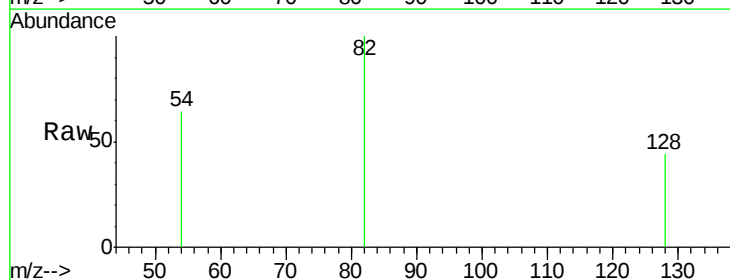
Tgt Ion: 82 Resp: 542

Ion Ratio Lower Upper

82 100

128 44.2 31.5 47.3

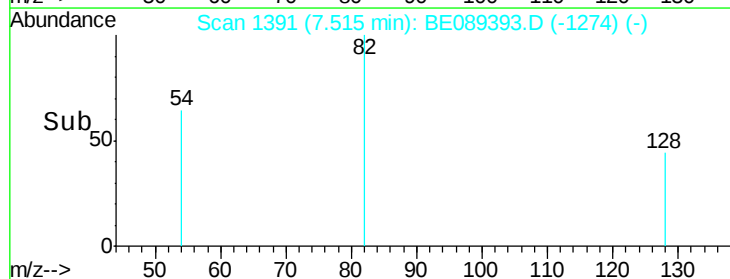
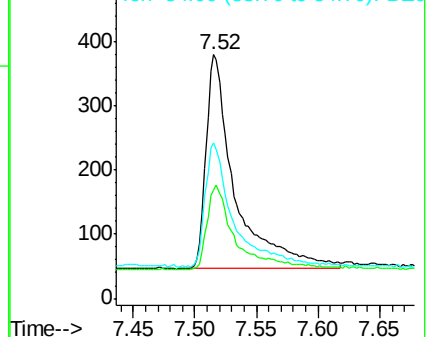
54 63.7 46.2 69.2

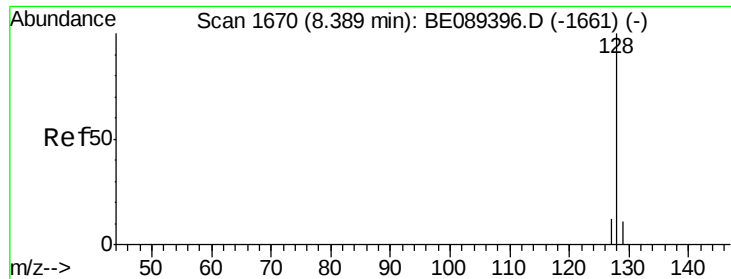


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 0.17 ng

RT: 8.39 min Scan# 1671

Delta R.T. 0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

Instrument :

BNA_M

LabSampleId :

SSTDIC0.5

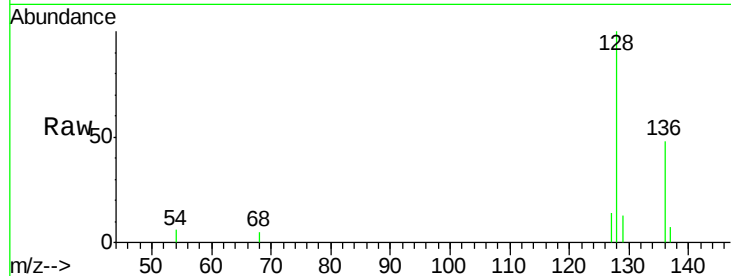
Tgt Ion:128 Resp: 3006

Ion Ratio Lower Upper

128 100

129 13.2 9.0 13.6

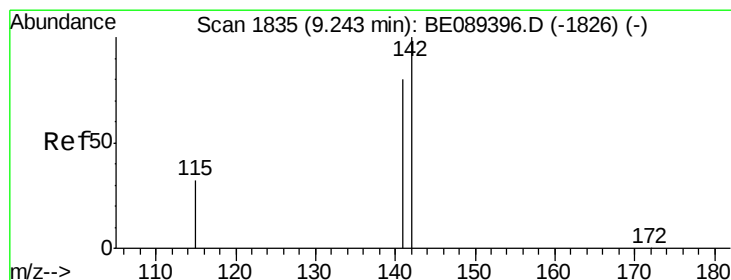
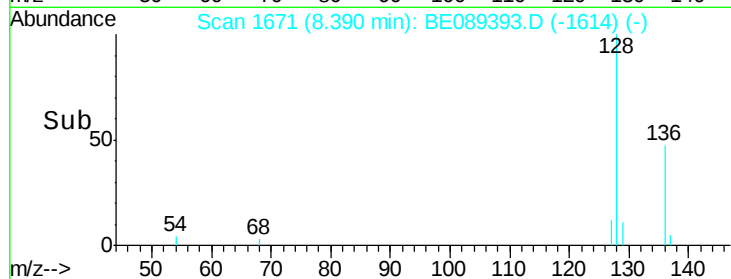
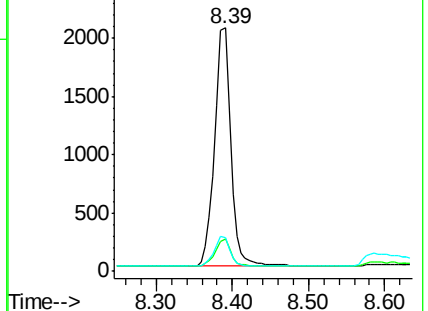
127 13.6 9.6 14.4



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: 0.16 ng

RT: 9.25 min Scan# 1837

Delta R.T. 0.01 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

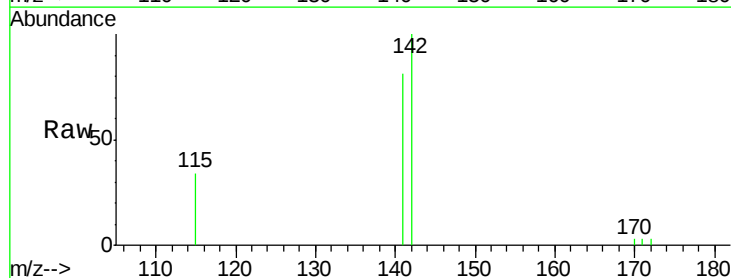
Tgt Ion:142 Resp: 1729

Ion Ratio Lower Upper

142 100

141 80.7 63.7 95.5

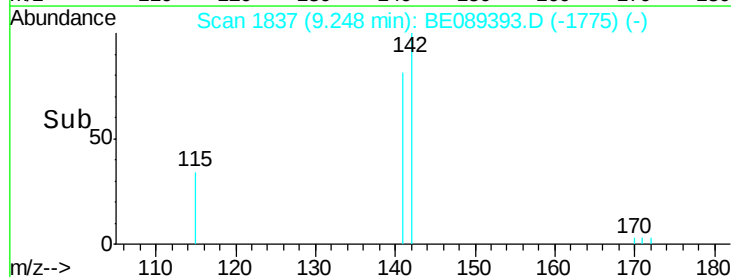
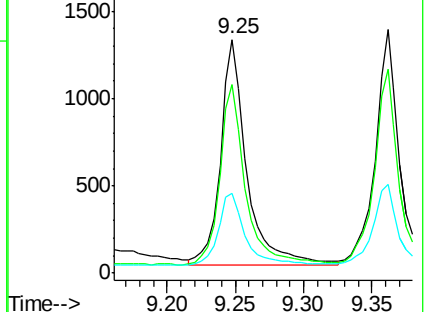
115 34.3 25.4 38.0

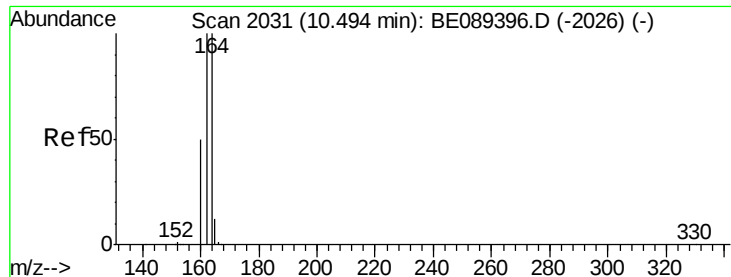


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.49 min Scan# 2032

Delta R.T. 0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

Instrument :

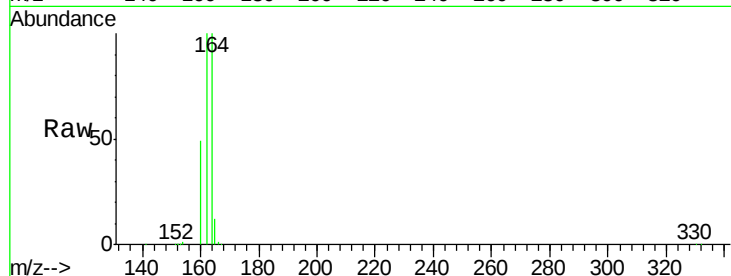
BNA_M

LabSampleId :

SSTDICC0.5

Tgt Ion:164 Resp: 35195

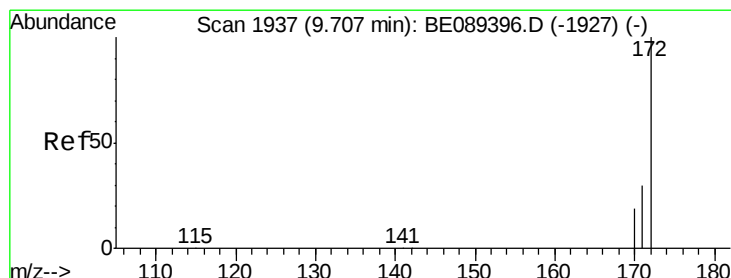
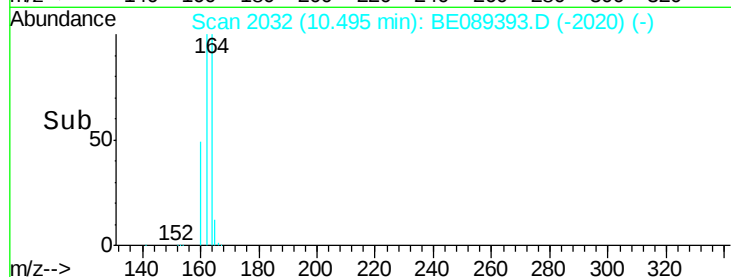
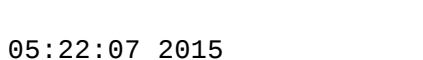
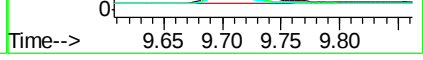
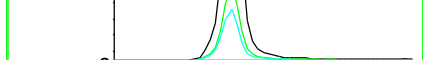
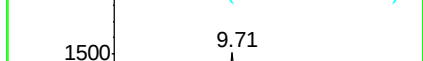
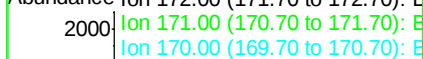
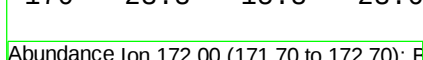
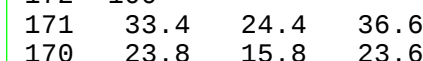
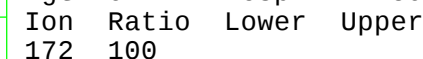
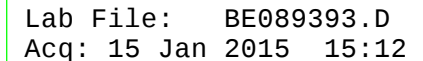
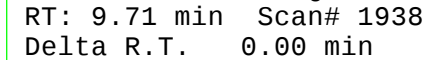
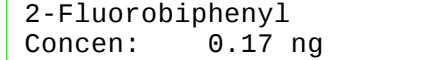
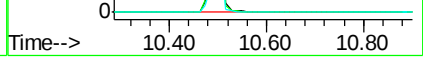
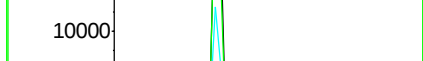
Ion	Ratio	Lower	Upper
164	100		
162	99.7	80.2	120.4
160	49.3	40.1	60.1



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



#8

2-Fluorobiphenyl

Concen: 0.17 ng

RT: 9.71 min Scan# 1938

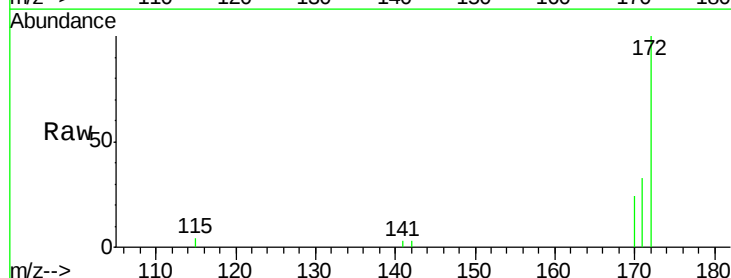
Delta R.T. 0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

Tgt Ion:172 Resp: 1597

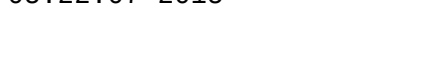
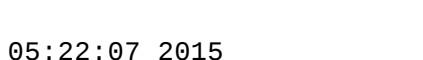
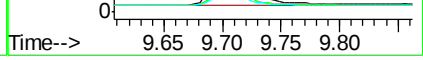
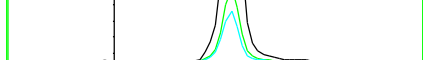
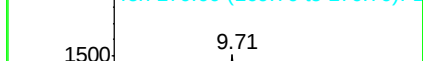
Ion	Ratio	Lower	Upper
172	100		
171	33.4	24.4	36.6
170	23.8	15.8	23.6

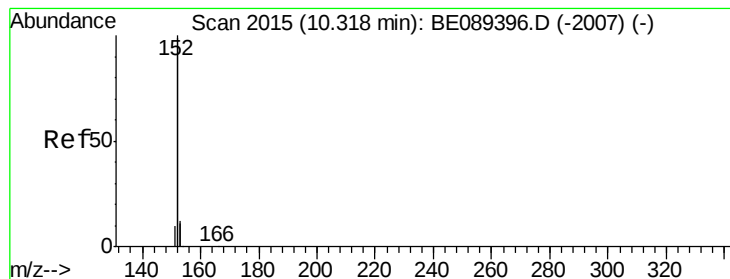


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.15 ng

RT: 10.33 min Scan# 2017

Delta R.T. 0.01 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

Instrument :

BNA_M

LabSampleId :

SSTDIC0.5

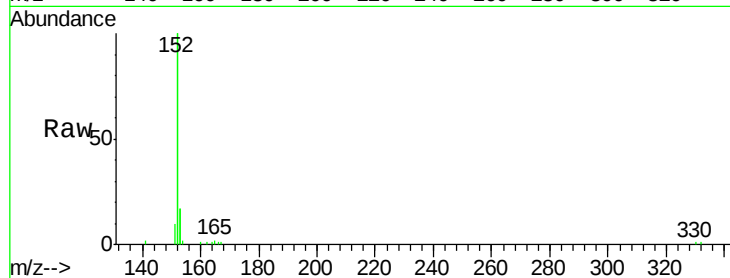
Tgt Ion:152 Resp: 8794

Ion Ratio Lower Upper

152 100

151 4.7 3.7 5.5

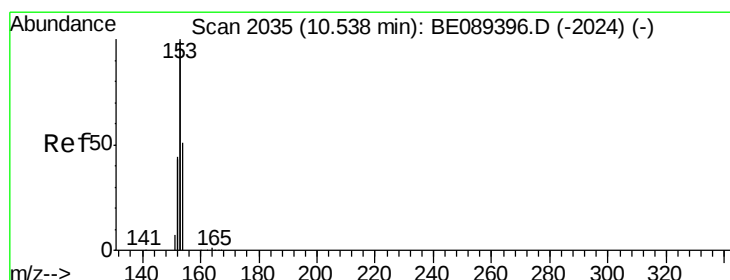
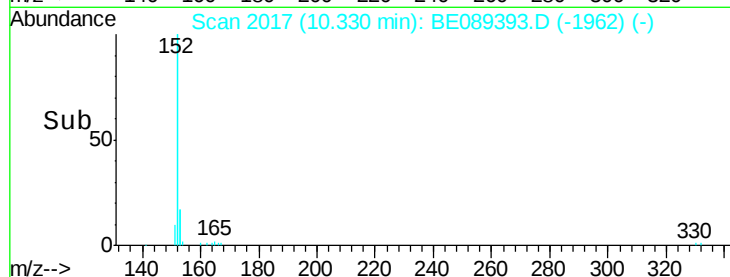
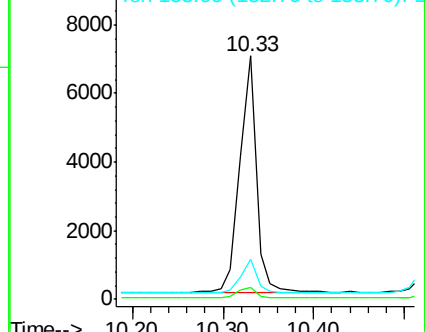
153 13.7 10.2 15.4



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: 0.18 ng

RT: 10.54 min Scan# 2036

Delta R.T. 0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

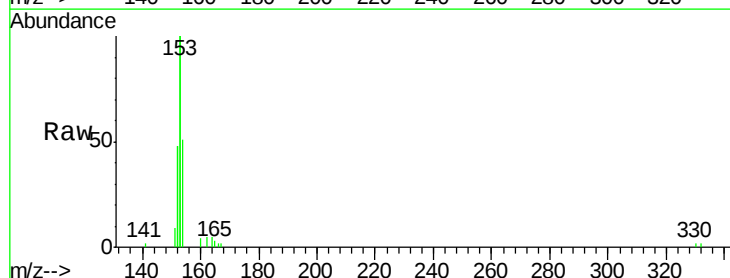
Tgt Ion:154 Resp: 1665

Ion Ratio Lower Upper

154 100

153 382.3 327.0 490.4

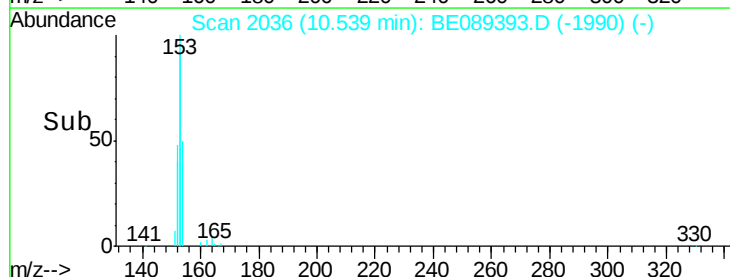
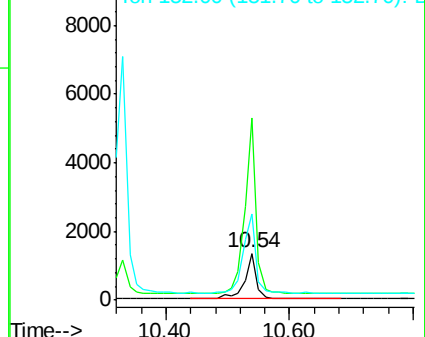
152 193.1 162.2 243.4

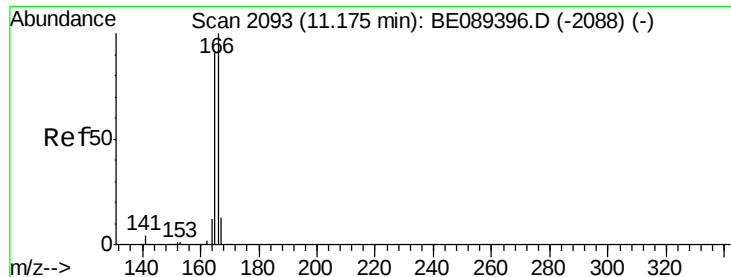


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.16 ng

RT: 11.18 min Scan# 2094

Delta R.T. 0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

Instrument :

BNA_M

LabSampleId :

SSTDICC0.5

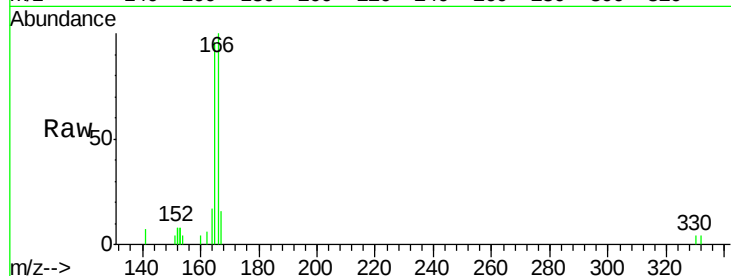
Tgt Ion:166 Resp: 1552

Ion Ratio Lower Upper

166 100

165 89.2 72.5 108.7

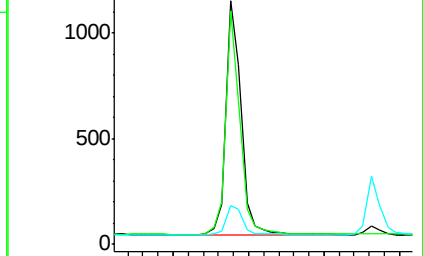
167 13.3 10.7 16.1



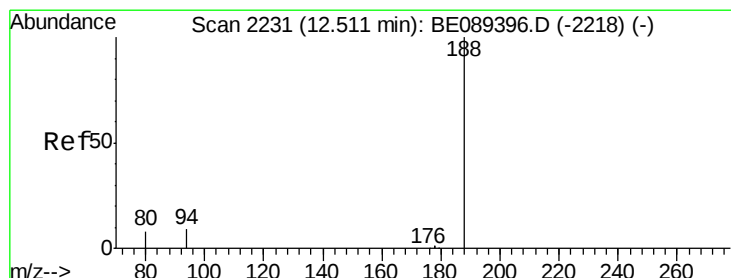
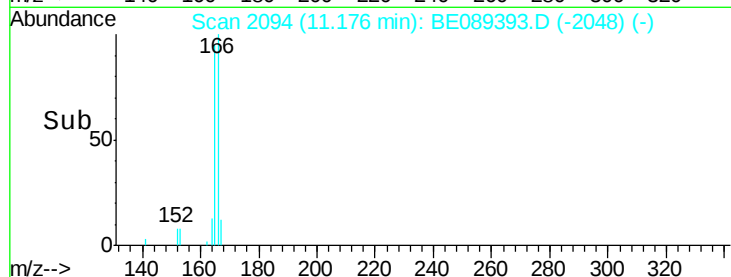
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.50 min Scan# 2231

Delta R.T. -0.01 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

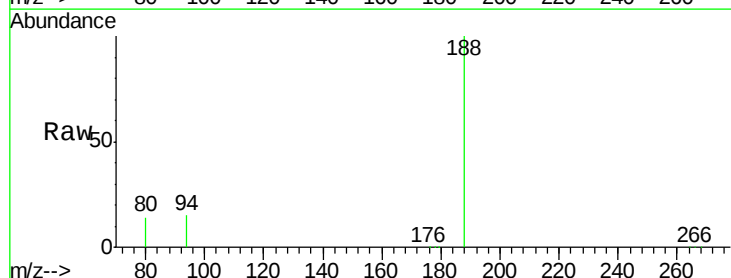
Tgt Ion:188 Resp: 54453

Ion Ratio Lower Upper

188 100

94 14.7 7.6 11.4#

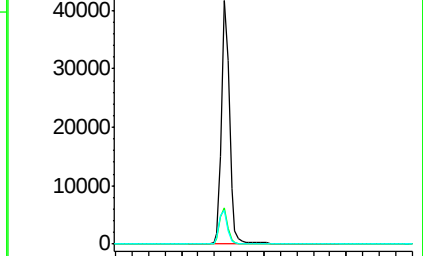
80 13.7 6.8 10.2#



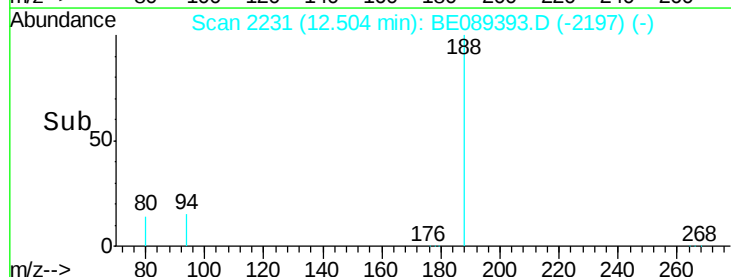
Abundance Ion 188.00 (187.70 to 188.70): E

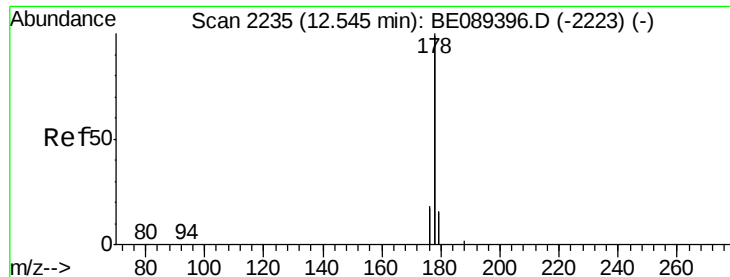
Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



Time-->





#14

Phenanthrene

Concen: 0.17 ng

RT: 12.55 min Scan# 2236

Delta R.T. 0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

Instrument :

BNA_M

LabSampleId :

SSTDIC0.5

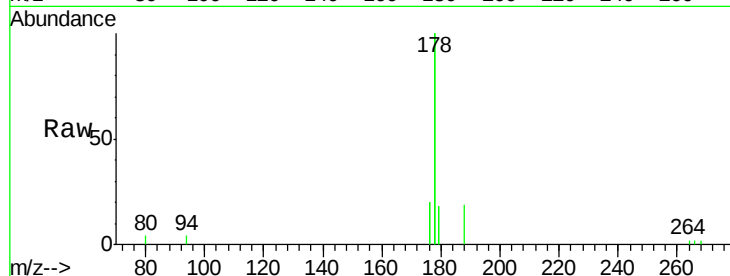
Tgt Ion:178 Resp: 9378

Ion Ratio Lower Upper

178 100

176 18.6 14.9 22.3

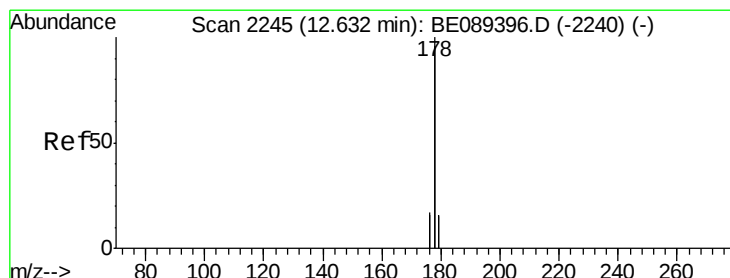
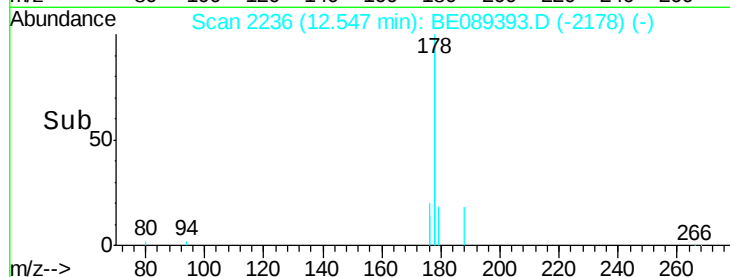
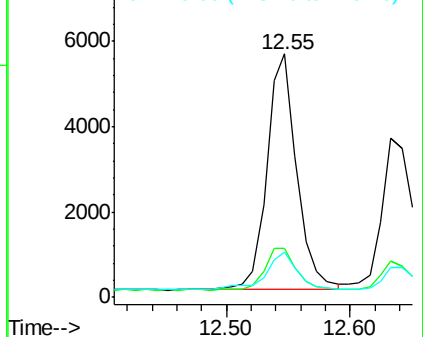
179 16.9 12.3 18.5



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



#15

Anthracene

Concen: 0.14 ng

RT: 12.63 min Scan# 2246

Delta R.T. 0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

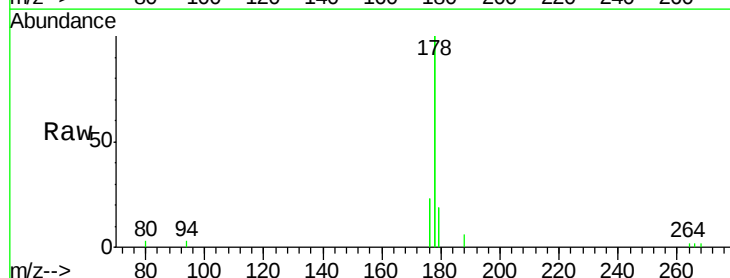
Tgt Ion:178 Resp: 7047

Ion Ratio Lower Upper

178 100

176 17.9 14.4 21.6

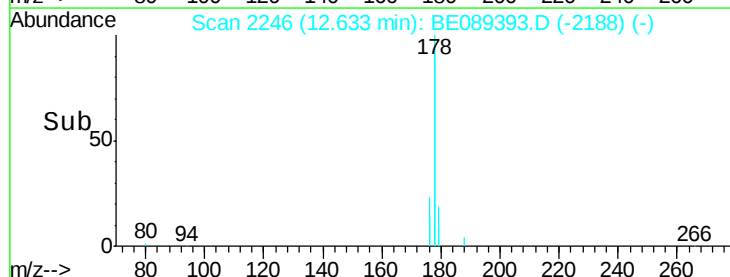
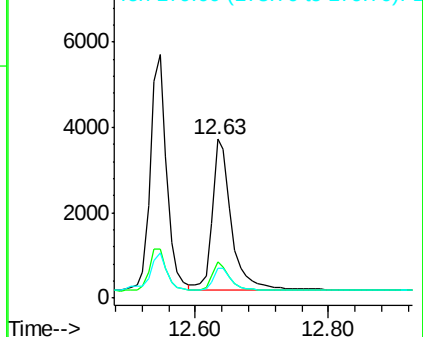
179 15.6 12.0 18.0

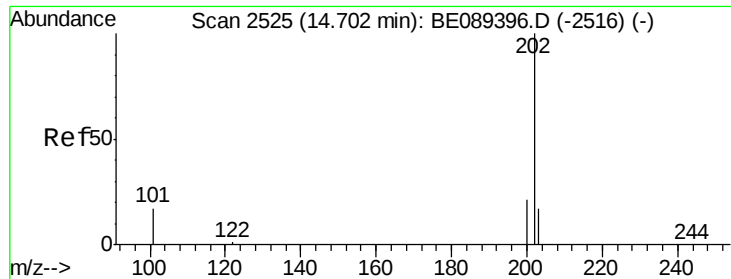


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

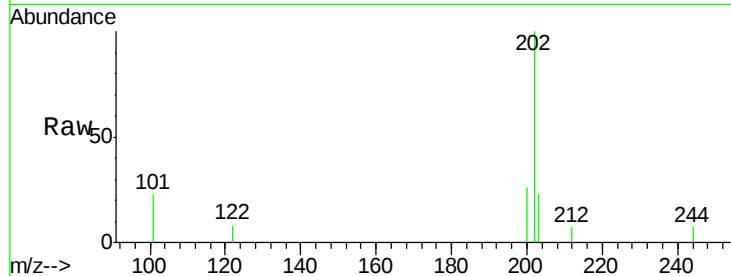




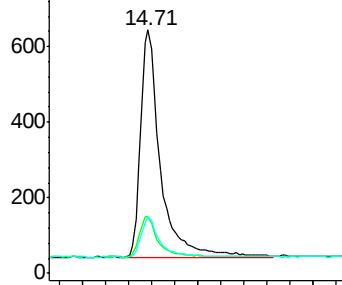
#16
 Fluoranthene
 Concen: 0.14 ng
 RT: 14.71 min Scan# 2528
 Delta R.T. 0.01 min
 Lab File: BE089393.D
 Acq: 15 Jan 2015 15:12

Instrument :
 BNA_M
 LabSampleId :
 SSTDICC0.5

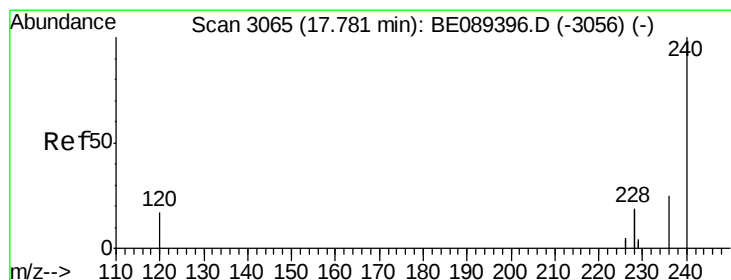
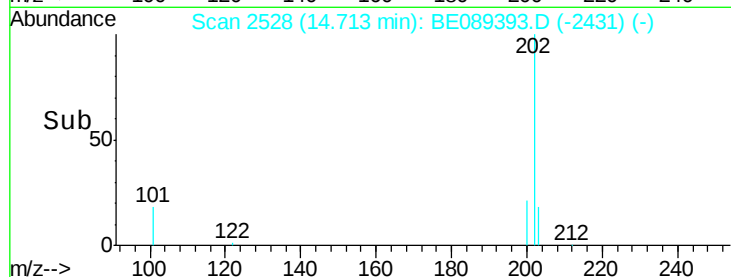
Tgt Ion: 202 Resp: 1455
 Ion Ratio Lower Upper
 202 100
 101 16.6 13.2 19.8
 203 16.4 13.5 20.3



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

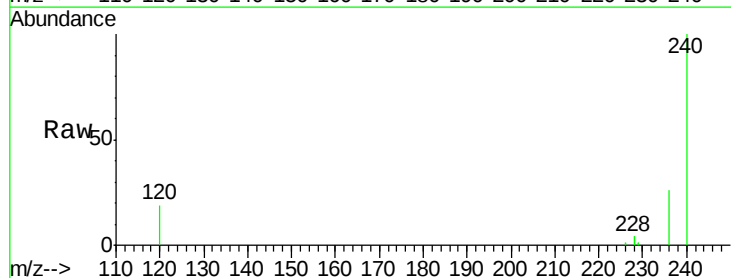


Time-->

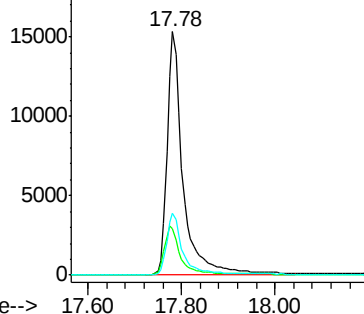


#17
 Chrysene-d12
 Concen: 5.00 ng
 RT: 17.78 min Scan# 3066
 Delta R.T. 0.00 min
 Lab File: BE089393.D
 Acq: 15 Jan 2015 15:12

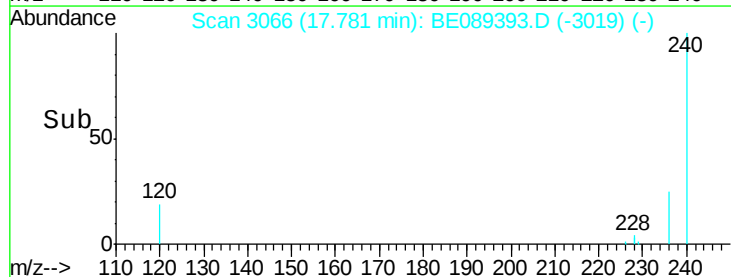
Tgt Ion: 240 Resp: 35927
 Ion Ratio Lower Upper
 240 100
 120 18.9 14.2 21.2
 236 25.6 20.6 30.8

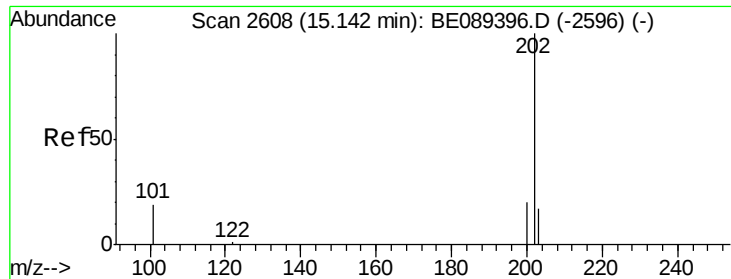


Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E



Time-->





#18

Pyrene

Concen: 0.13 ng

RT: 15.15 min Scan# 2611

Delta R.T. 0.01 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

Instrument :

BNA_M

LabSampleId :

SSTDIC0.5

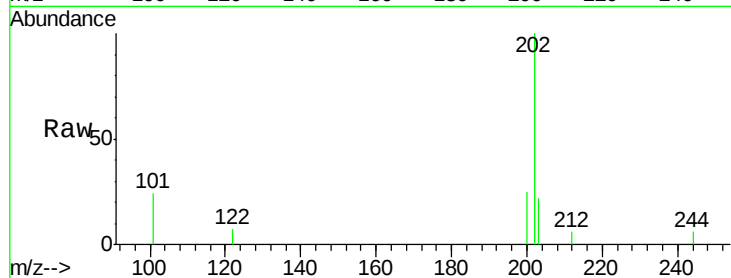
Tgt Ion:202 Resp: 1525

Ion Ratio Lower Upper

202 100

200 20.4 16.2 24.2

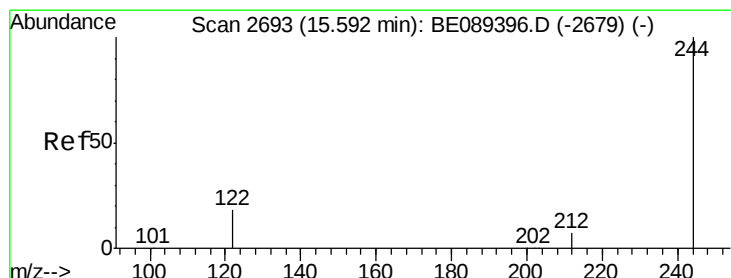
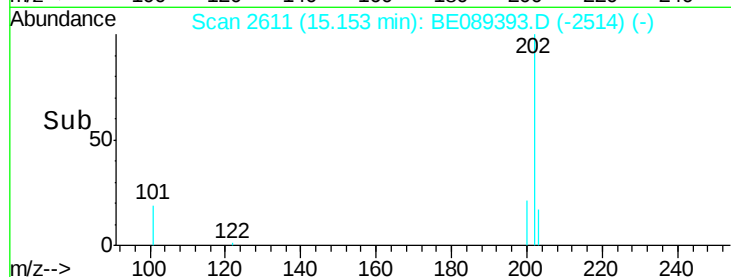
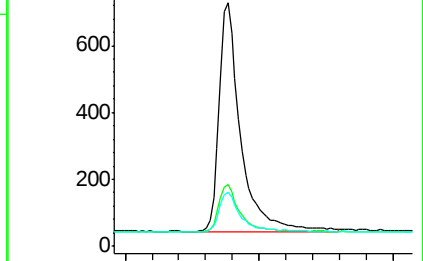
203 16.8 13.7 20.5



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



#19

Terphenyl-d14

Concen: 0.12 ng

RT: 15.59 min Scan# 2694

Delta R.T. 0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

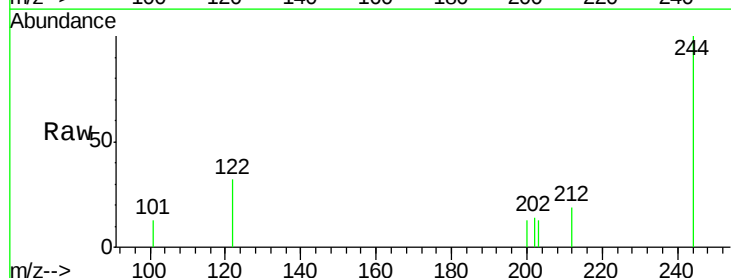
Tgt Ion:244 Resp: 758

Ion Ratio Lower Upper

244 100

212 18.8 6.7 10.1#

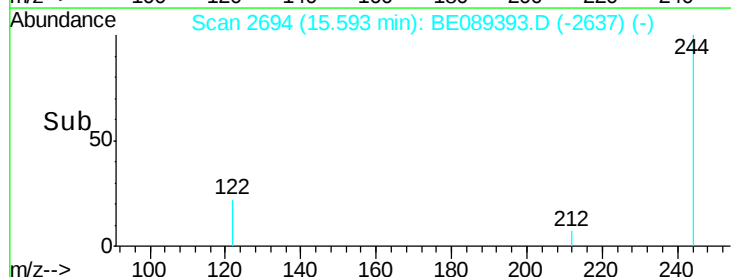
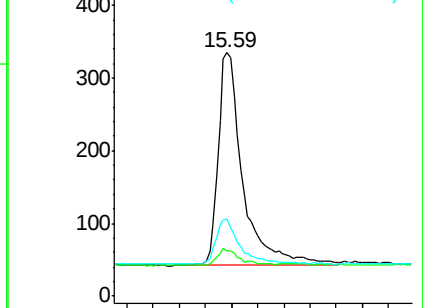
122 31.9 15.7 23.5#

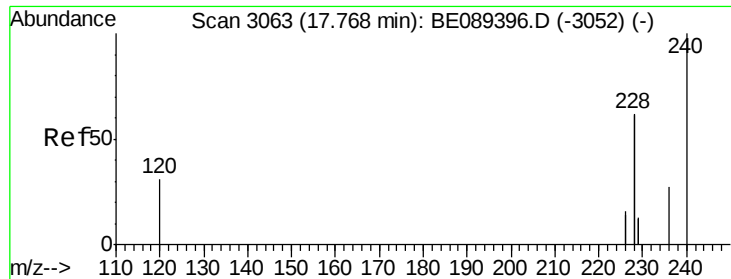


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#20

Benzo(a)anthracene

Concen: 0.12 ng

RT: 17.77 min Scan# 3064

Delta R.T. 0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

Instrument :

BNA_M

LabSampleId :

SSTDIC0.5

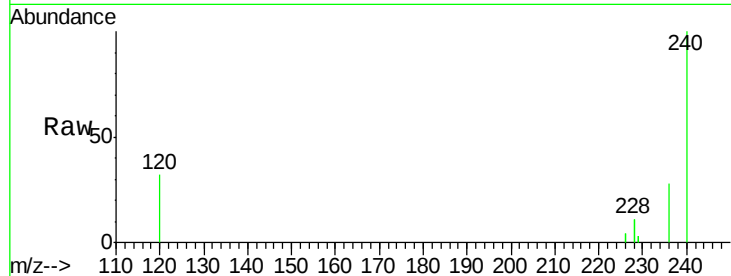
Tgt Ion:228 Resp: 3832

Ion Ratio Lower Upper

228 100

226 31.5 20.6 31.0#

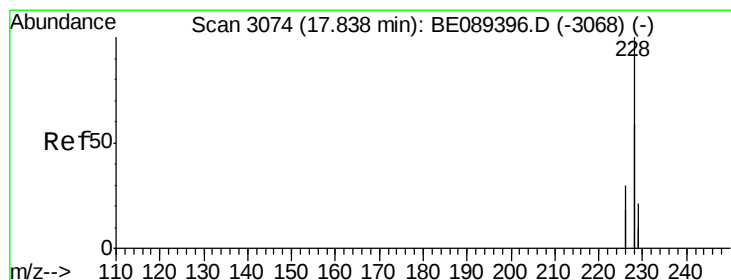
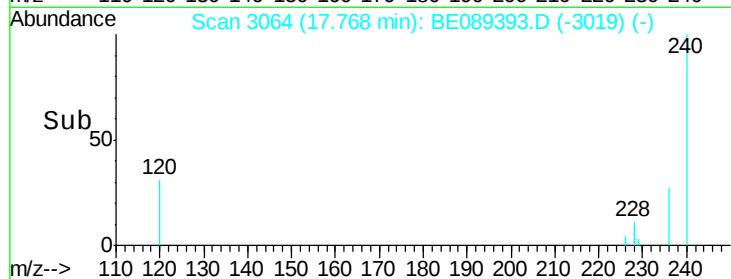
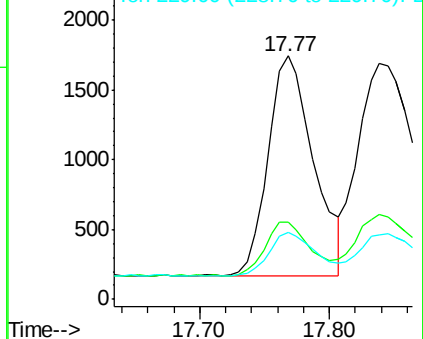
229 27.5 17.1 25.7#



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: 0.16 ng

RT: 17.84 min Scan# 3075

Delta R.T. 0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

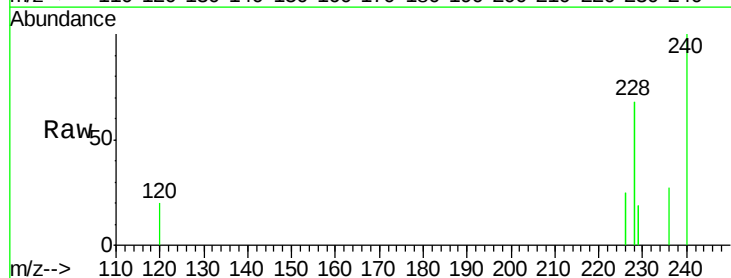
Tgt Ion:228 Resp: 5999

Ion Ratio Lower Upper

228 100

226 36.2 24.2 36.4

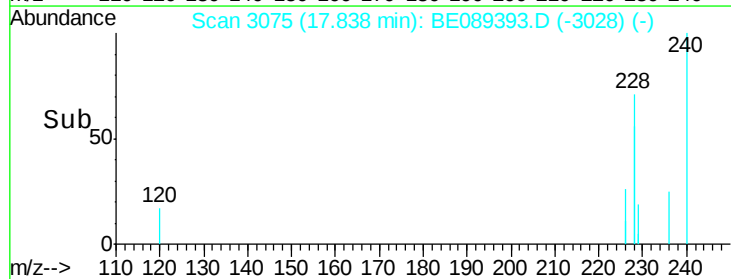
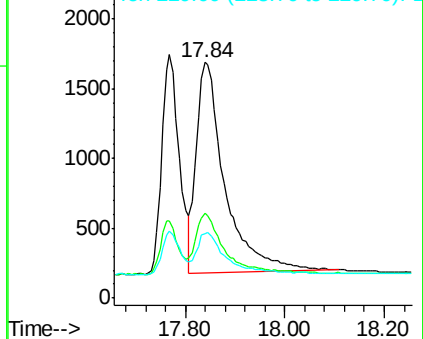
229 27.5 16.5 24.7#

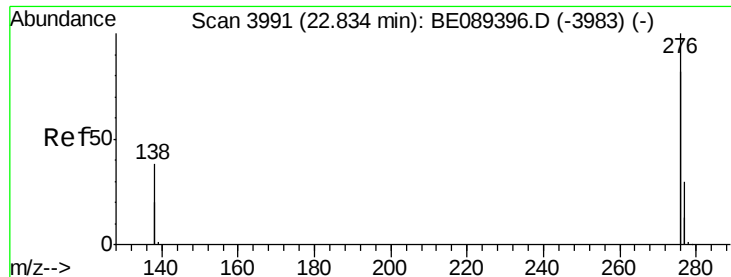


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#22

Indeno(1,2,3-cd)pyrene

Concen: 0.03 ng

RT: 22.85 min Scan# 3995

Delta R.T. 0.02 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

Instrument :

BNA_M

LabSampleId :

SSTDIC0.5

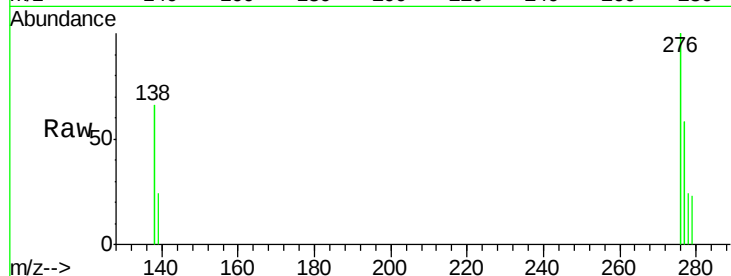
Tgt Ion: 276 Resp: 678

Ion Ratio Lower Upper

276 100

138 35.1 15.0 22.6#

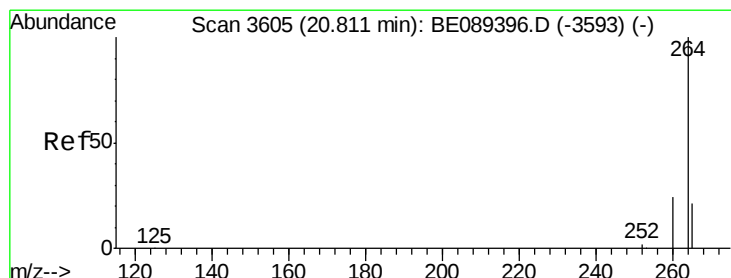
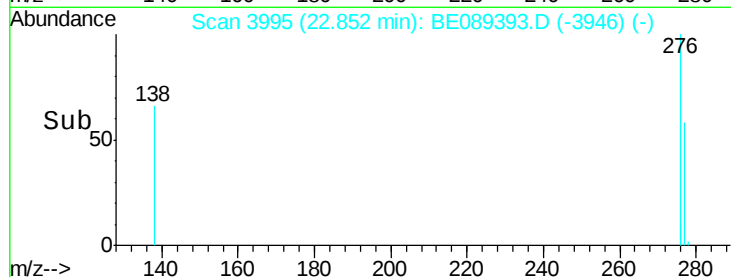
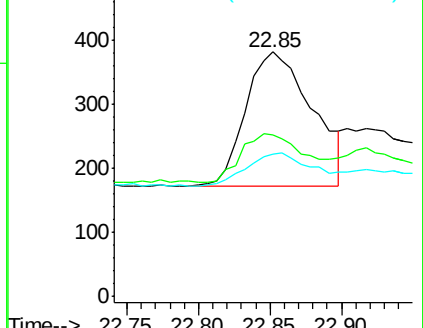
277 24.6 11.4 17.2#



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



#23

Perylene-d12

Concen: 5.00 ng

RT: 20.81 min Scan# 3606

Delta R.T. -0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

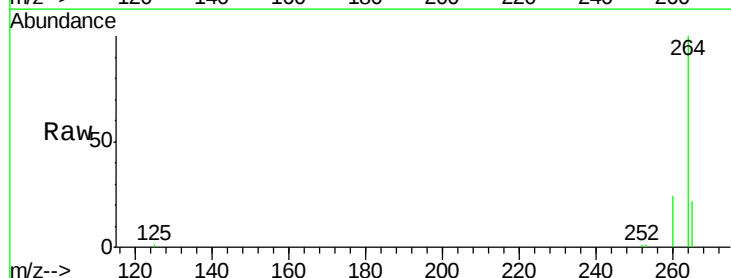
Tgt Ion: 264 Resp: 26733

Ion Ratio Lower Upper

264 100

260 24.2 19.2 28.8

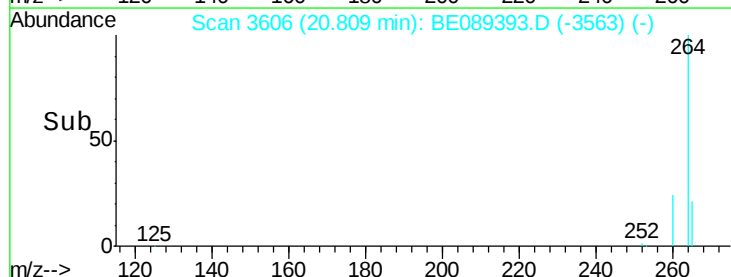
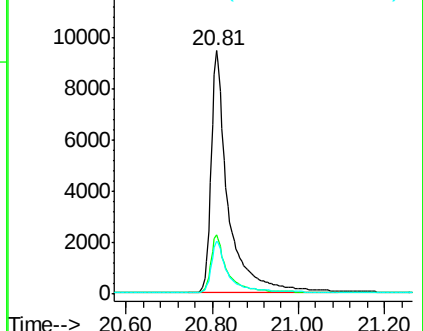
265 21.8 17.3 25.9

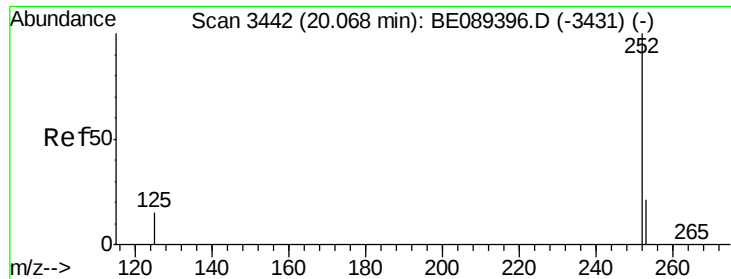


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

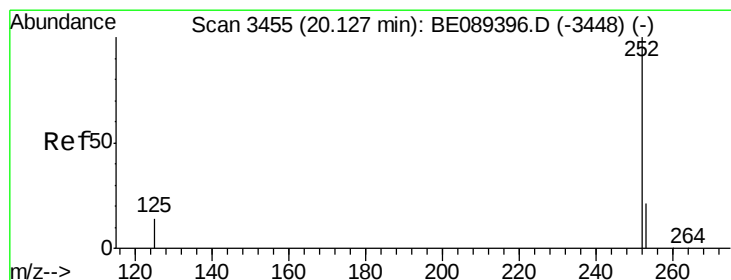
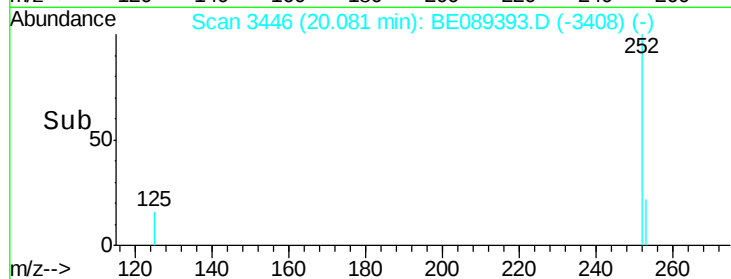
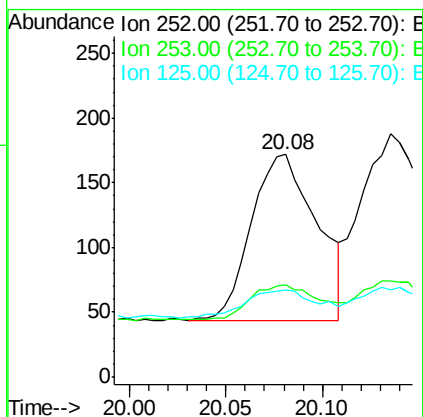
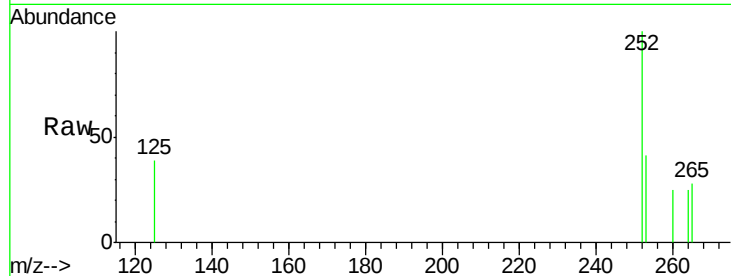




#24
Benzo(b)fluoranthene
Concen: 0.07 ng
RT: 20.08 min Scan# 3446
Delta R.T. 0.01 min
Lab File: BE089393.D
Acq: 15 Jan 2015 15:12

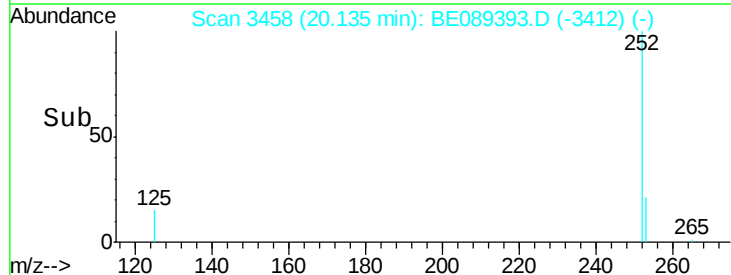
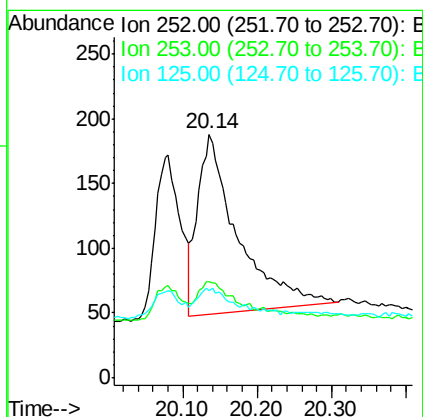
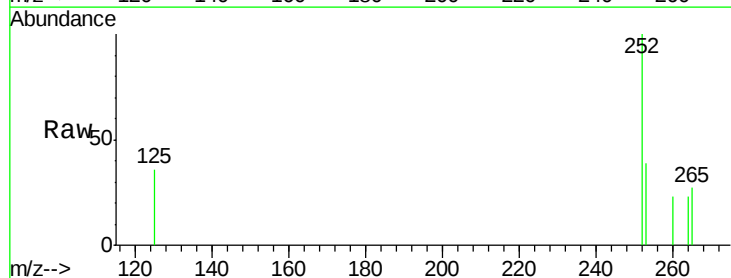
Instrument :
BNA_M
LabSampleId :
SSTDIC0.5

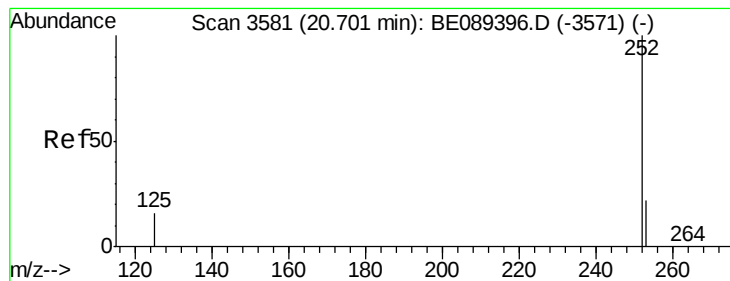
Tgt Ion:252 Resp: 305
Ion Ratio Lower Upper
252 100
253 41.3 19.1 28.7#
125 39.0 14.5 21.7#



#25
Benzo(k)fluoranthene
Concen: 0.07 ng
RT: 20.14 min Scan# 3458
Delta R.T. 0.01 min
Lab File: BE089393.D
Acq: 15 Jan 2015 15:12

Tgt Ion:252 Resp: 524
Ion Ratio Lower Upper
252 100
253 39.4 18.7 28.1#
125 35.6 13.1 19.7#





#26

Benzo(a)pyrene

Concen: 0.06 ng

RT: 20.70 min Scan# 3583

Delta R.T. 0.00 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

Instrument :

BNA_M

LabSampleId :

SSTDIC0.5

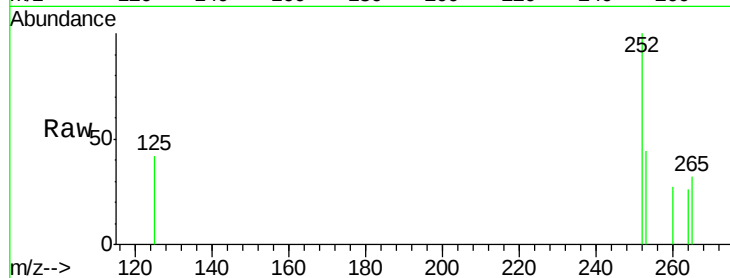
Tgt Ion: 252 Resp: 281

Ion Ratio Lower Upper

252 100

253 43.6 20.0 30.0#

125 41.7 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

20.70

150

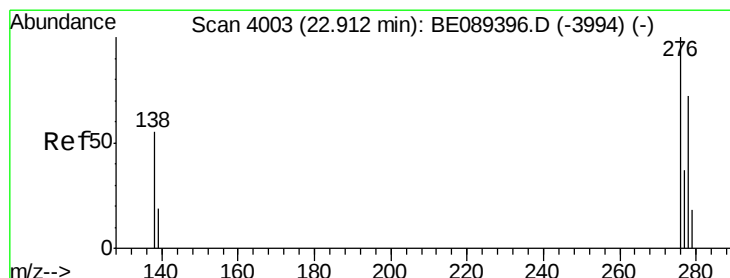
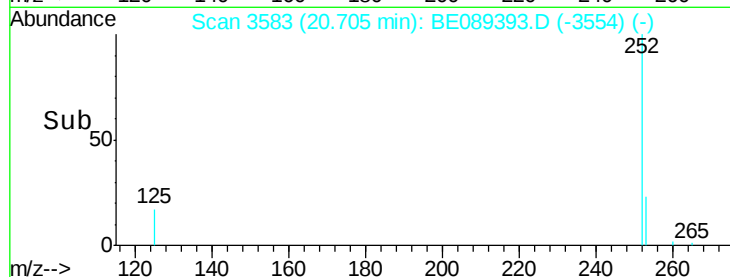
100

50

0

20.65 20.70 20.75

Time-->



#27

Dibenzo(a,h)anthracene

Concen: 0.04 ng

RT: 22.92 min Scan# 4006

Delta R.T. 0.01 min

Lab File: BE089393.D

Acq: 15 Jan 2015 15:12

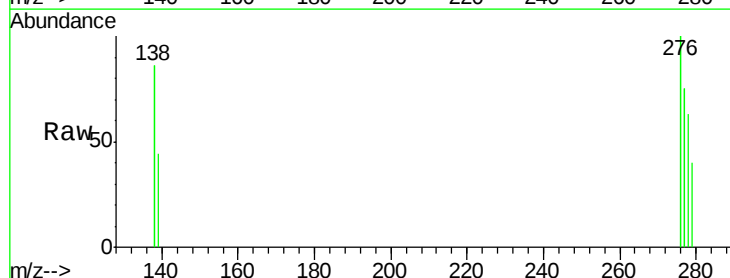
Tgt Ion: 278 Resp: 147

Ion Ratio Lower Upper

278 100

139 69.5 26.8 40.2#

279 63.4 25.4 38.0#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

22.92

100

80

60

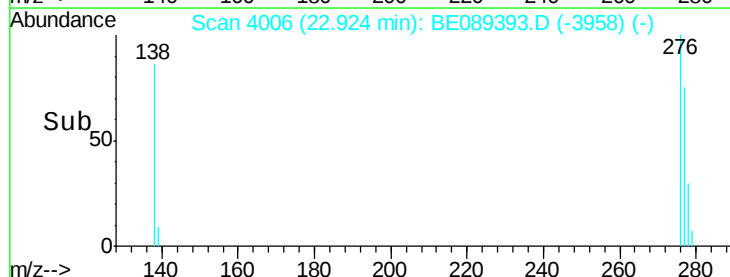
40

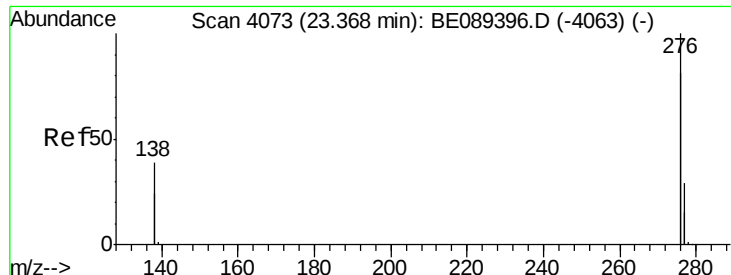
20

0

22.90 23.00

Time-->





#28

Benzo(g,h,i)perylene

Concen: 0.07 ng

RT: 23.39 min Scan# 4078

Delta R.T. 0.02 min

Lab File: BE089393.D

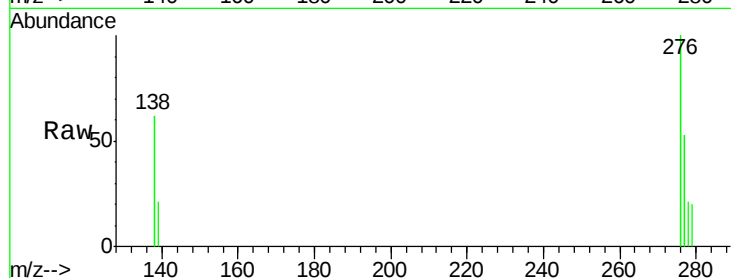
Acq: 15 Jan 2015 15:12

Instrument :

BNA_M

LabSampleId :

SSTDIC0.5



Tgt Ion: 276 Resp: 1574

Ion Ratio Lower Upper

276 100

277 53.4 22.9 34.3#

138 61.6 31.2 46.8#

