

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020515\
 Data File : BE089502.D
 Acq On : 5 Feb 2015 12:39
 Operator : TP/IZ
 Sample : SSTDICC002
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC002

Quant Time: Feb 06 02:48:45 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 02:40:17 2015
 Response via : Initial Calibration

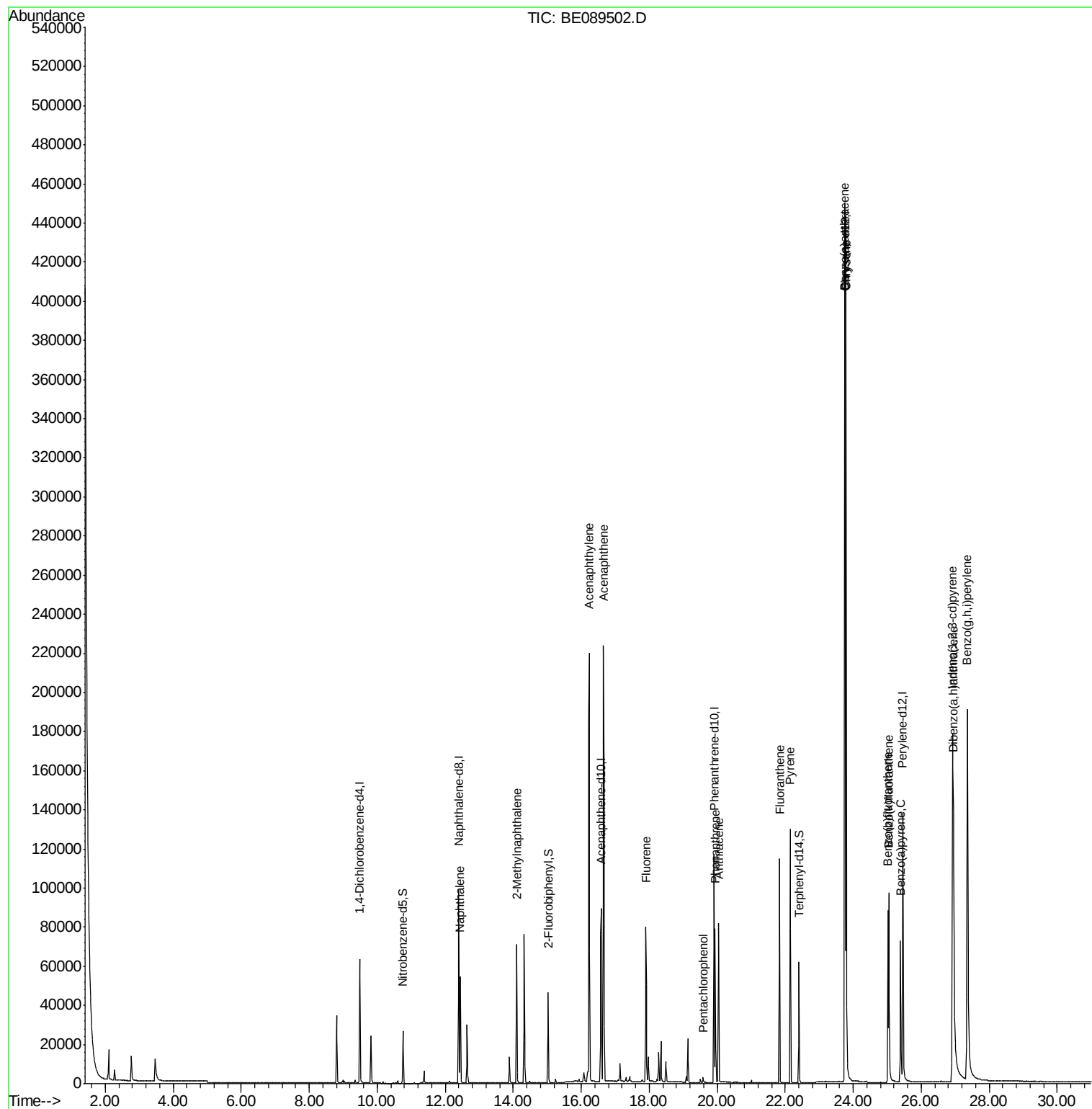
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.49	152	26390	5.00	ng	0.00
2) Naphthalene-d8	12.40	136	112274	5.00	ng	0.00
6) Acenaphthene-d10	16.59	164	55379	5.00	ng	0.00
11) Phenanthrene-d10	19.90	188	110897	5.00	ng	0.00
16) Chrysene-d12	23.76	240	121574	5.00	ng	0.00
22) Perylene-d12	25.46	264	119864	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	10.76	82	18859	2.20	ng	0.00
7) 2-Fluorobiphenyl	15.03	172	40205	2.30	ng	0.00
18) Terphenyl-d14	22.41	244	51134	2.42	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	12.45	128	60808	2.15	ng	100
5) 2-Methylnaphthalene	14.11	142	43774	2.36	ng	100
8) Acenaphthylene	16.24	152	290044	2.44	ng	100
9) Acenaphthene	16.65	154	43231	2.37	ng	99
10) Fluorene	17.91	166	50774	2.50	ng	98
12) Pentachlorophenol	19.58	266	1359	1.25	ng	96
13) Phenanthrene	19.94	178	79428	2.36	ng	99
14) Anthracene	20.04	178	74513	2.47	ng	100
15) Fluoranthene	21.83	202	79853	2.48	ng	100
17) Pyrene	22.15	202	84735	2.44	ng	100
19) Benzo(a)anthracene	23.75	228	325801	2.44	ng	99
20) Chrysene	23.79	228	326418	2.38	ng	98
21) Indeno(1,2,3-cd)pyrene	26.93	276	375082	2.63	ng	99
23) Benzo(b)fluoranthene	25.02	252	75817	2.72	ng	99
24) Benzo(k)fluoranthene	25.05	252	92794	2.43	ng	98
25) Benzo(a)pyrene	25.39	252	72350	2.56	ng	99
26) Dibenzo(a,h)anthracene	26.95	278	80158	2.66	ng	99
27) Benzo(g,h,i)perylene	27.36	276	309783	2.52	ng	100

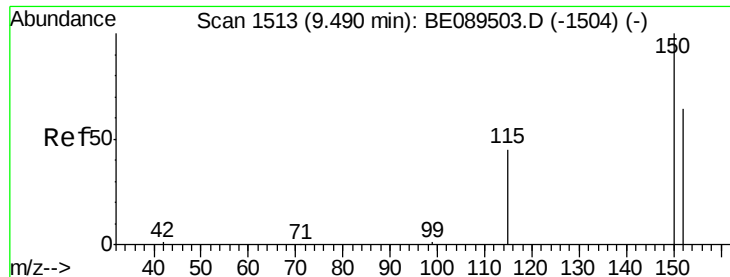
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089502.D

Acq: 5 Feb 2015 12:39

Instrument :

BNA_E

LabSampleId :

SSTDICC002

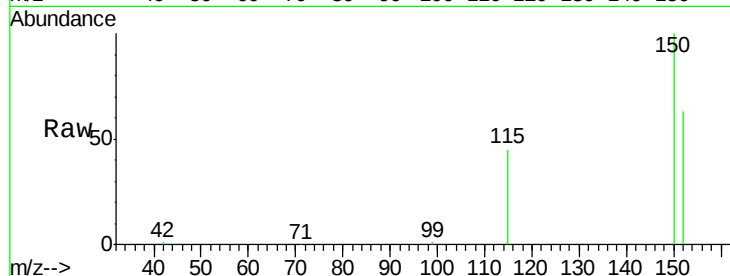
Tgt Ion:152 Resp: 26390

Ion Ratio Lower Upper

152 100

150 158.4 125.0 187.6

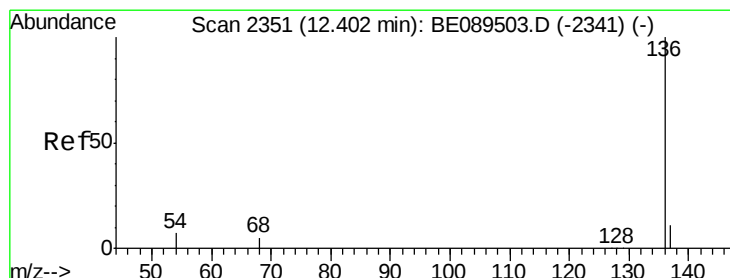
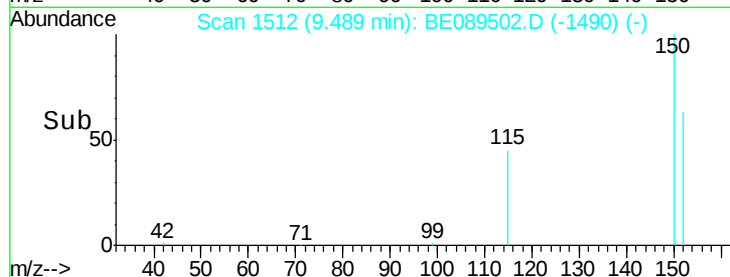
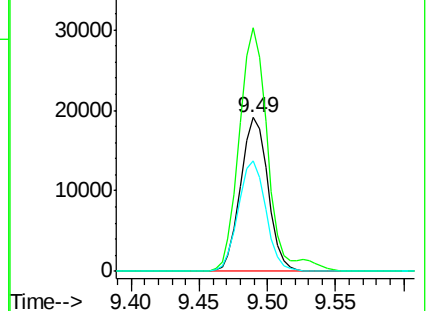
115 71.7 56.6 85.0



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# 2350

Delta R.T. -0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

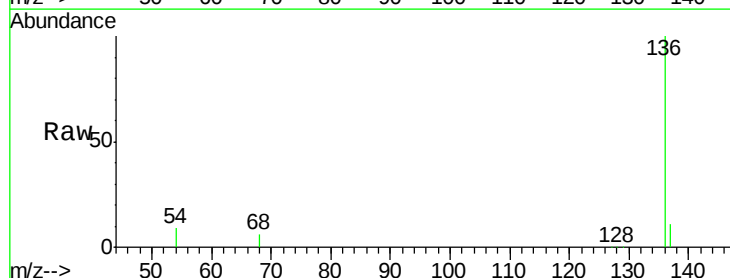
Tgt Ion:136 Resp: 112274

Ion Ratio Lower Upper

136 100

137 10.7 8.6 12.8

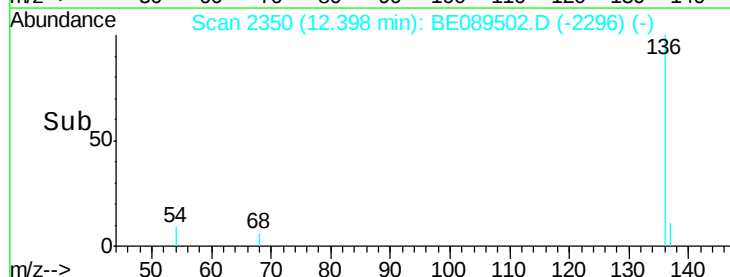
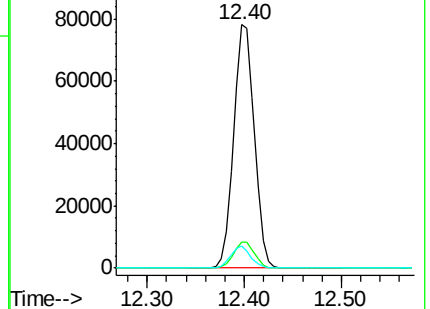
54 8.9 6.0 9.0

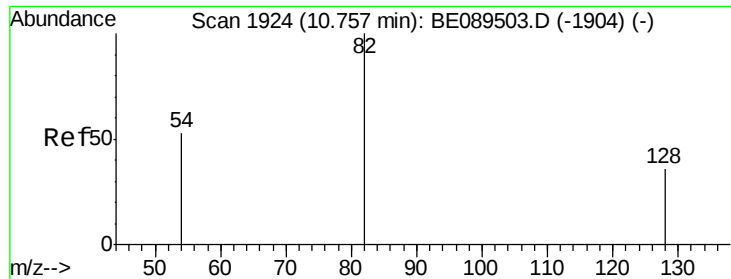


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 2.20 ng

RT: 10.76 min Scan# 1924

Delta R.T. 0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

Instrument :

BNA_E

LabSampleId :

SSTDICC002

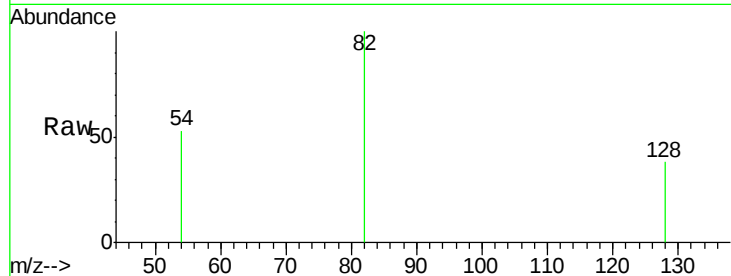
Tgt Ion: 82 Resp: 18859

Ion Ratio Lower Upper

82 100

128 37.6 29.3 43.9

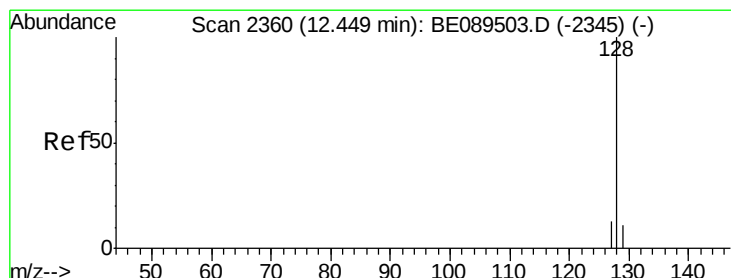
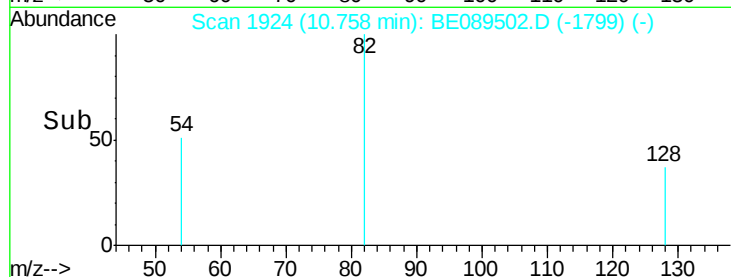
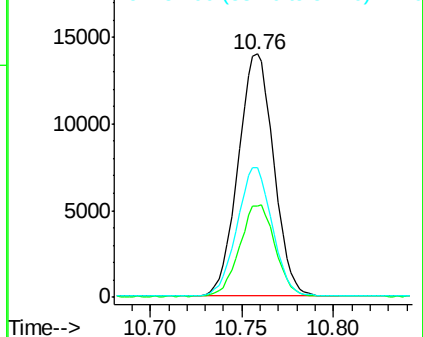
54 53.1 42.6 64.0



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: 2.15 ng

RT: 12.45 min Scan# 2359

Delta R.T. -0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

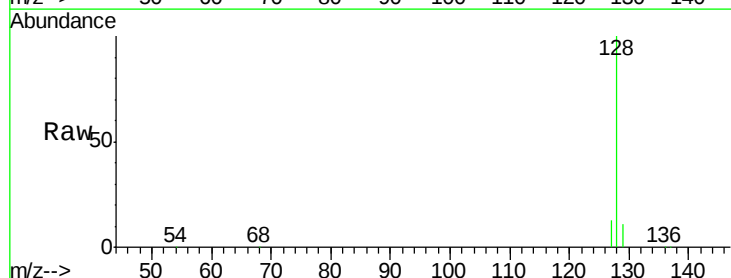
Tgt Ion: 128 Resp: 60808

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

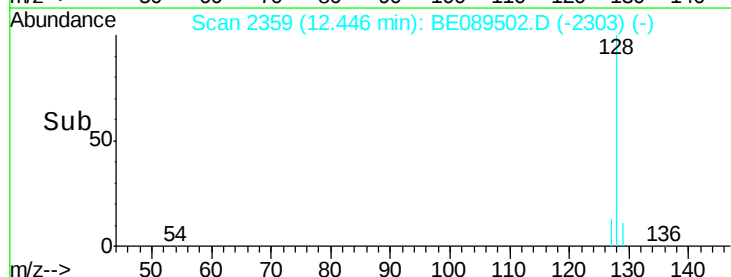
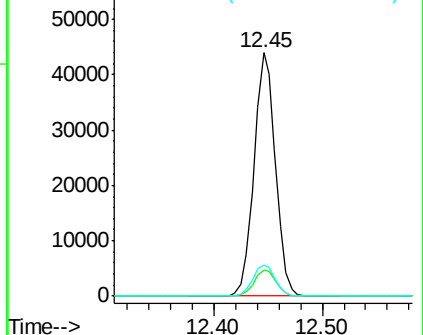
127 12.9 10.3 15.5



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: 2.36 ng

RT: 14.11 min Scan# 2694

Delta R.T. -0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

Instrument :

BNA_E

LabSampleId :

SSTDICC002

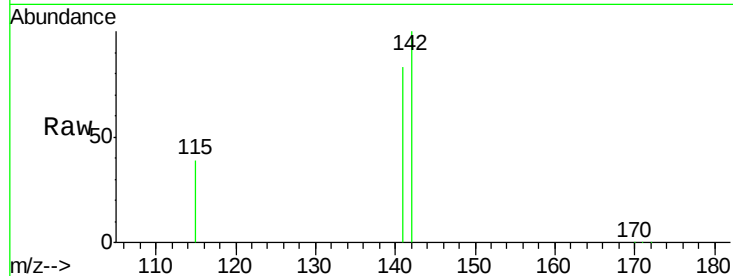
Tgt Ion:142 Resp: 43774

Ion Ratio Lower Upper

142 100

141 82.8 66.3 99.5

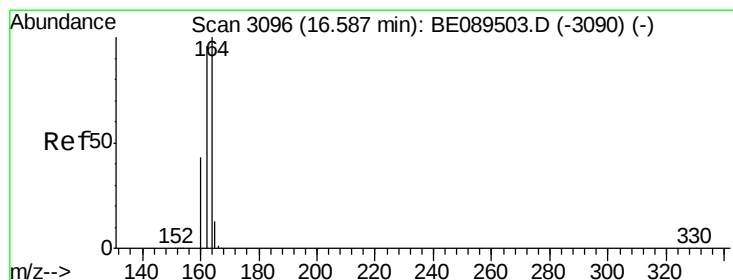
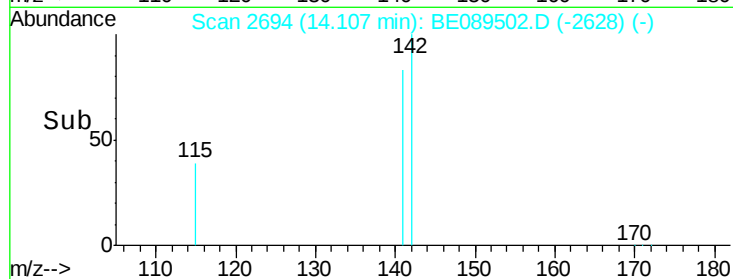
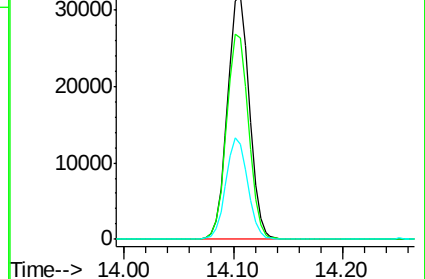
115 39.2 31.1 46.7



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: 16.59 min Scan# 3096

Delta R.T. 0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

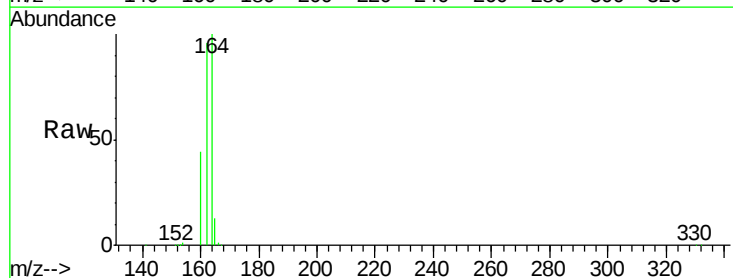
Tgt Ion:164 Resp: 55379

Ion Ratio Lower Upper

164 100

162 95.8 76.6 115.0

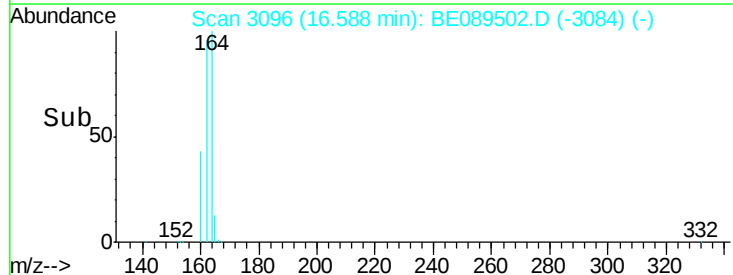
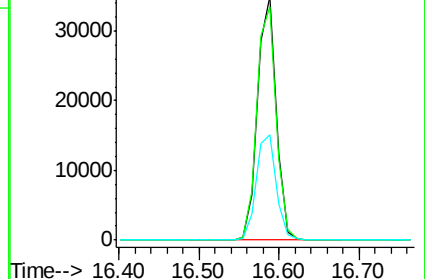
160 43.5 34.6 52.0



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: 2.30 ng

RT: 15.03 min Scan# 2897

Delta R.T. -0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

Instrument :

BNA_E

LabSampleId :

SSTDIC002

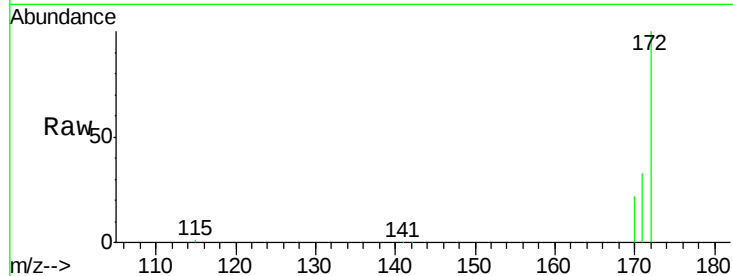
Tgt Ion:172 Resp: 40205

Ion Ratio Lower Upper

172 100

171 33.1 27.4 41.0

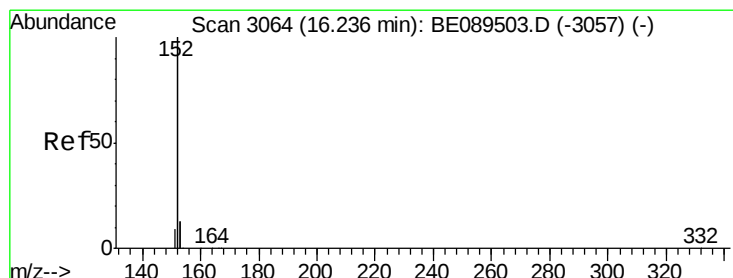
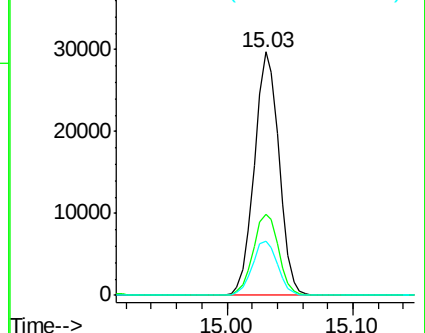
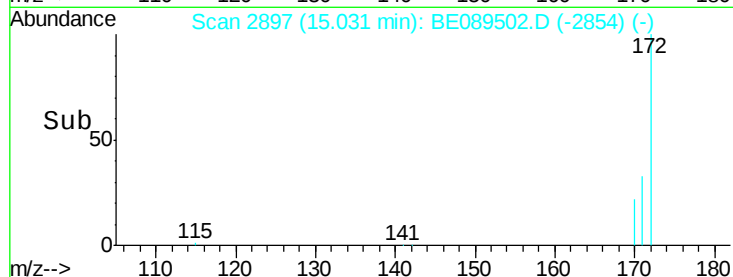
170 22.4 18.4 27.6



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: 2.44 ng

RT: 16.24 min Scan# 3064

Delta R.T. 0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

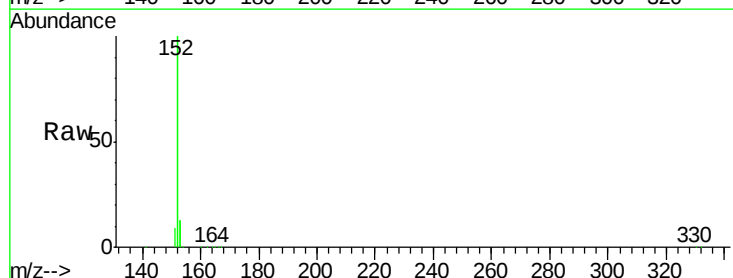
Tgt Ion:152 Resp: 290044

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

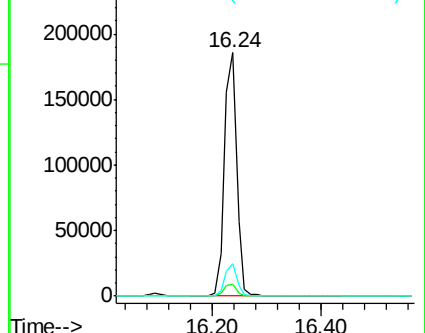
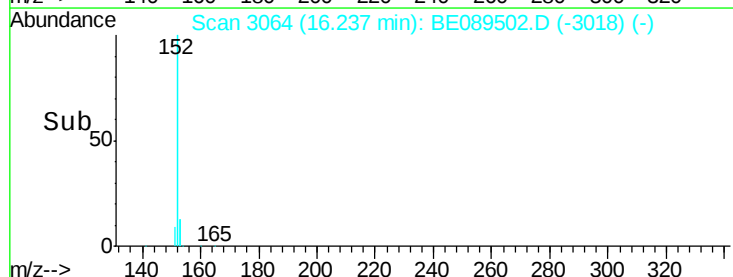
153 12.9 10.4 15.6

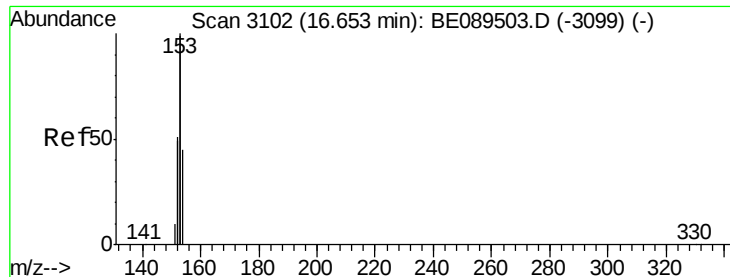


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 2.37 ng

RT: 16.65 min Scan# 3102

Delta R.T. 0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

Instrument :

BNA_E

LabSampleId :

SSTDIC002

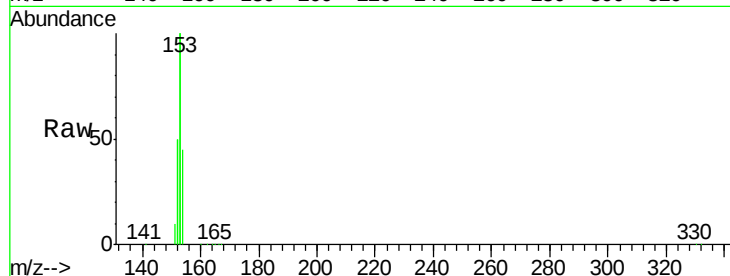
Tgt Ion:154 Resp: 43231

Ion Ratio Lower Upper

154 100

153 430.0 341.5 512.3

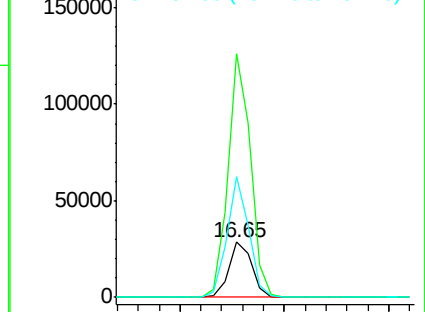
152 205.7 166.6 249.8



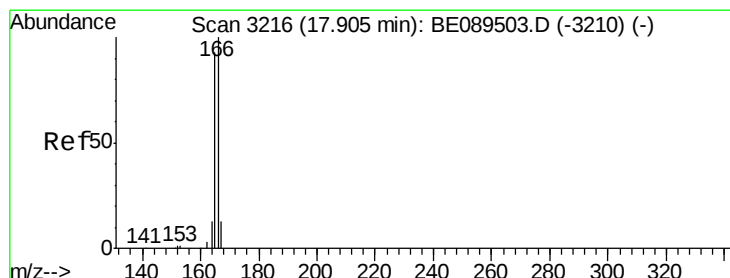
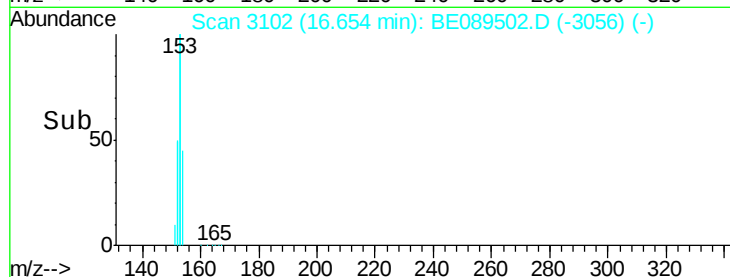
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time-->



#10

Fluorene

Concen: 2.50 ng

RT: 17.91 min Scan# 3216

Delta R.T. 0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

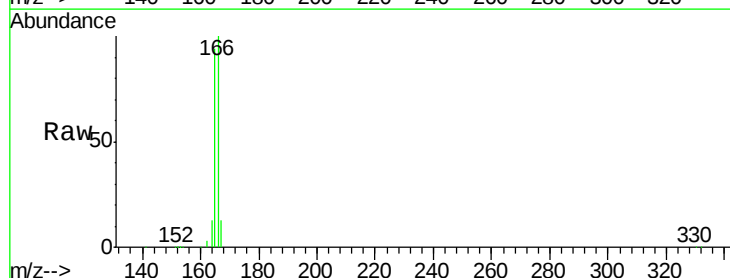
Tgt Ion:166 Resp: 50774

Ion Ratio Lower Upper

166 100

165 93.6 73.6 110.4

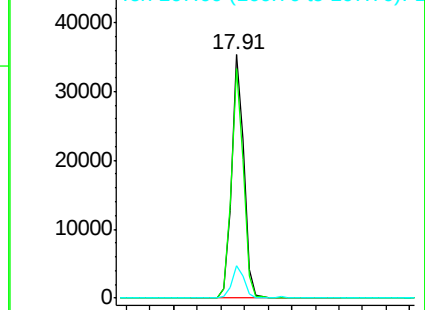
167 13.1 10.6 15.8



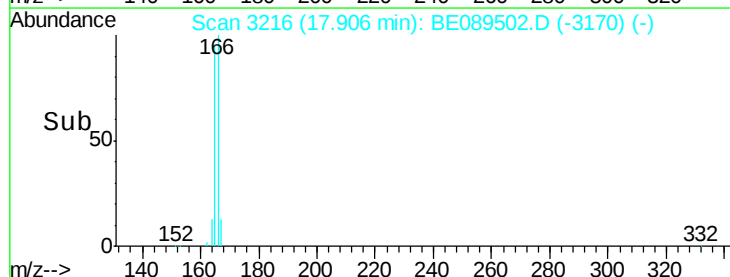
Abundance Ion 166.00 (165.70 to 166.70): E

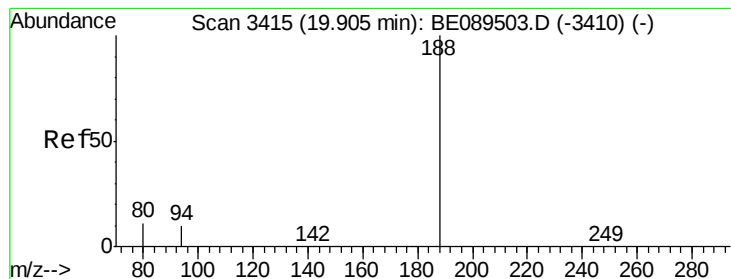
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.90 min Scan# 3415

Delta R.T. -0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

Instrument :

BNA_E

LabSampleId :

SSTDIC002

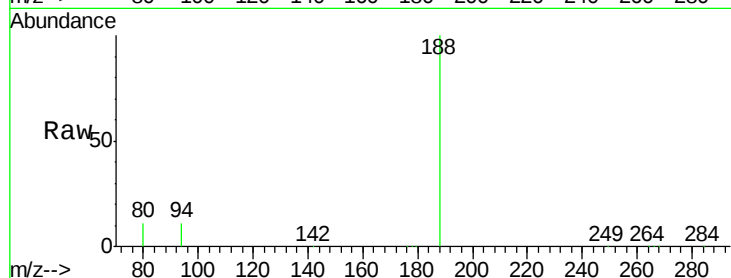
Tgt Ion:188 Resp: 110897

Ion Ratio Lower Upper

188 100

94 10.5 8.2 12.4

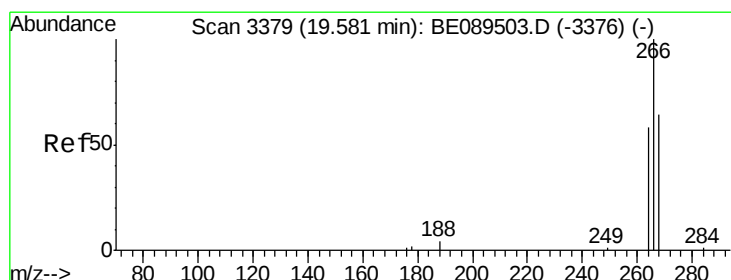
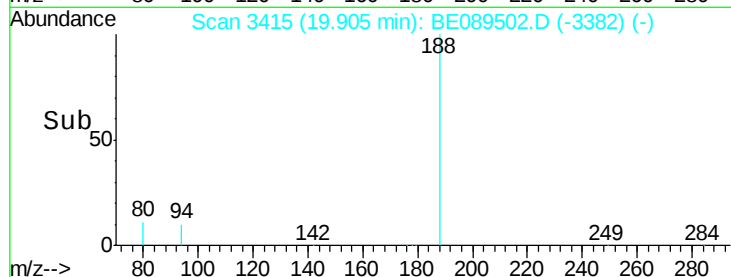
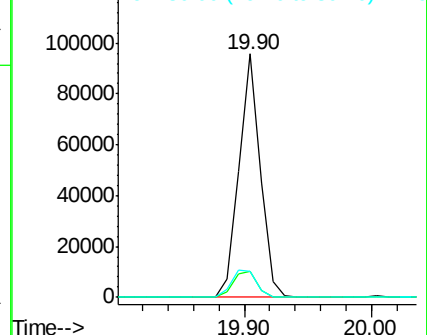
80 10.8 8.7 13.1



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: 1.25 ng

RT: 19.58 min Scan# 3379

Delta R.T. -0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

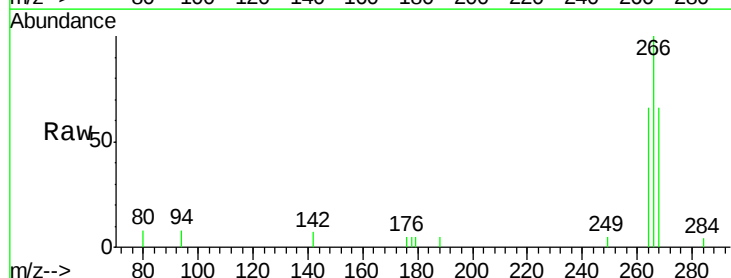
Tgt Ion:266 Resp: 1359

Ion Ratio Lower Upper

266 100

268 65.9 56.7 85.1

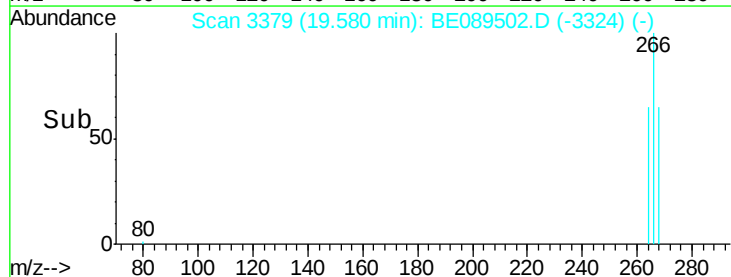
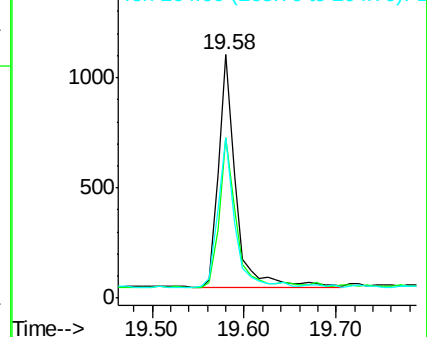
264 66.0 51.9 77.9

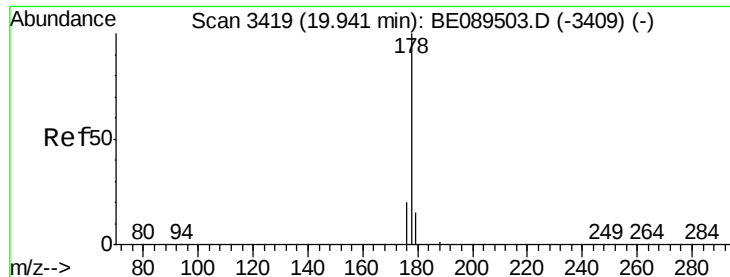


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 2.36 ng

RT: 19.94 min Scan# 3419

Delta R.T. -0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

Instrument :

BNA_E

LabSampleId :

SSTDIC002

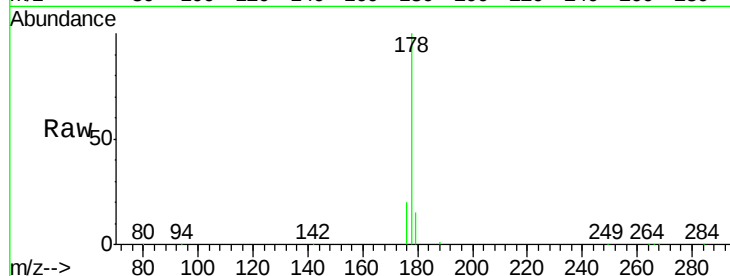
Tgt Ion:178 Resp: 79428

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.0

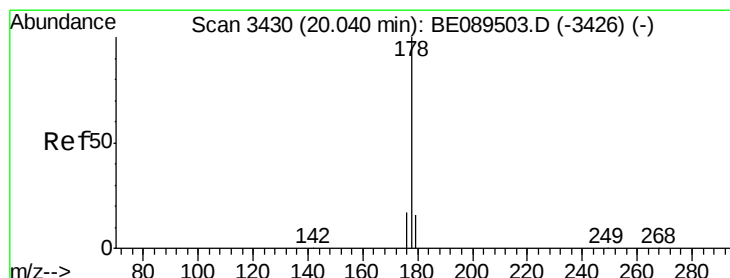
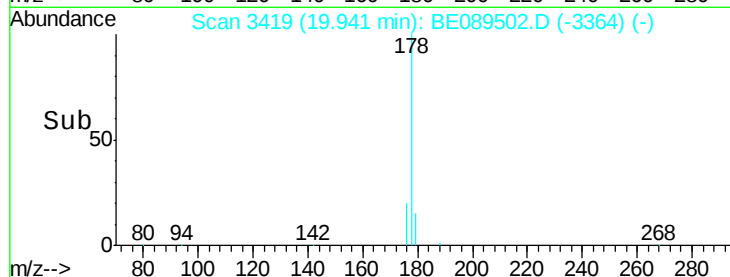
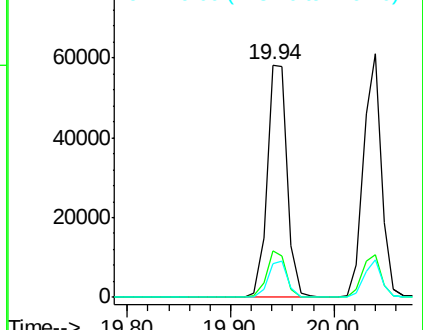
179 15.1 12.4 18.6



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: 2.47 ng

RT: 20.04 min Scan# 3430

Delta R.T. -0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

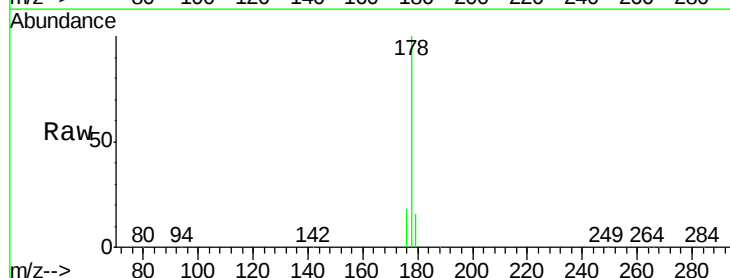
Tgt Ion:178 Resp: 74513

Ion Ratio Lower Upper

178 100

176 18.3 14.6 22.0

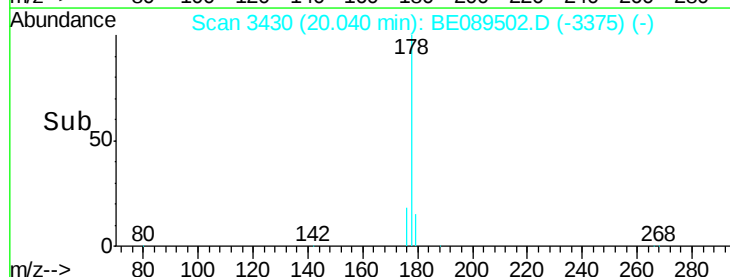
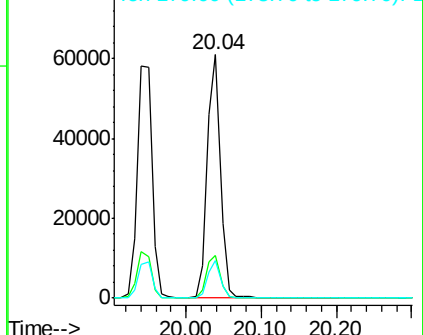
179 15.0 12.1 18.1

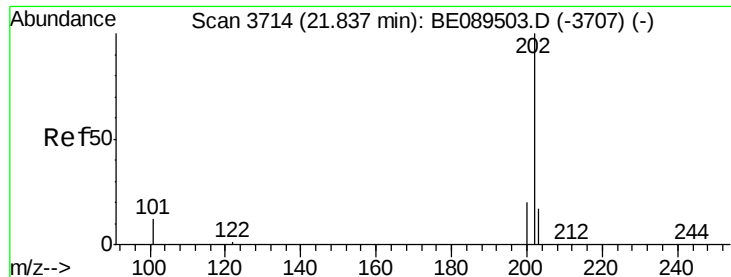


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

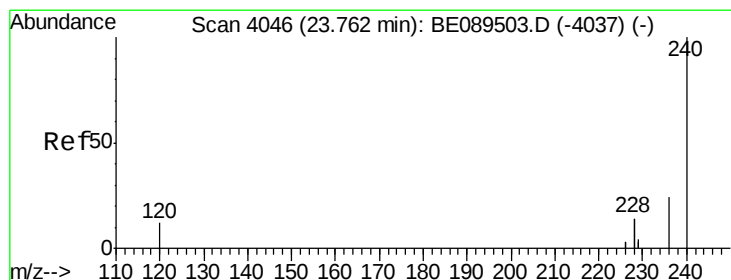
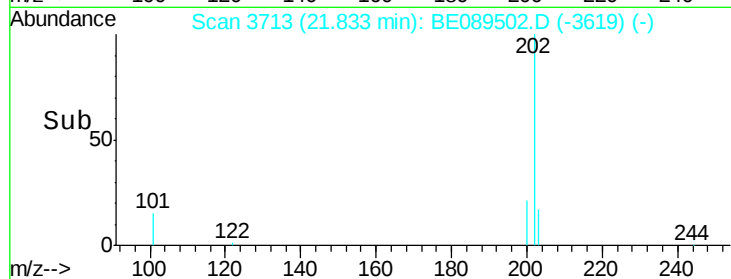
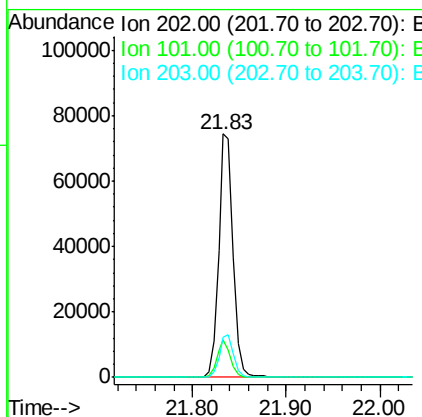
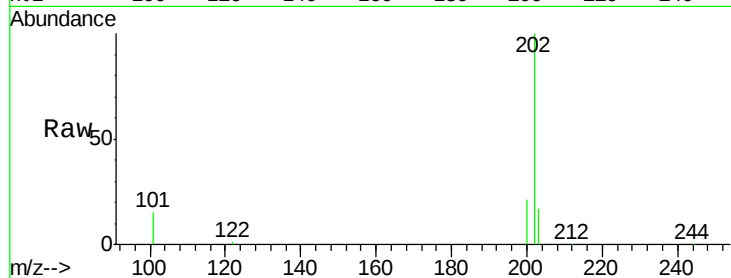




#15
 Fluoranthene
 Concen: 2.48 ng
 RT: 21.83 min Scan# 3713
 Delta R.T. -0.00 min
 Lab File: BE089502.D
 Acq: 5 Feb 2015 12:39

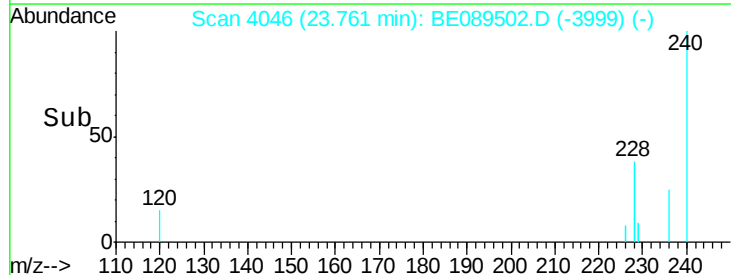
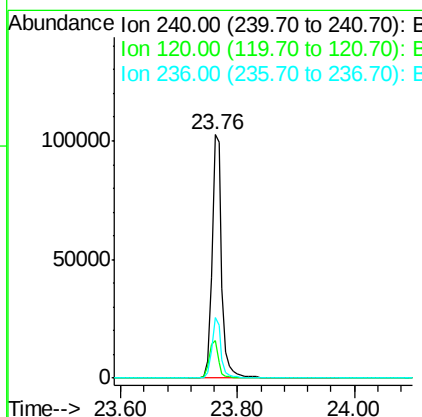
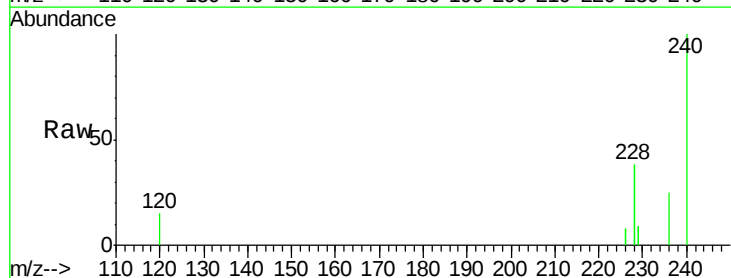
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC002

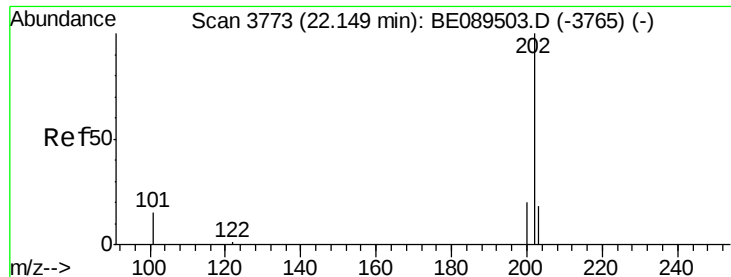
Tgt Ion: 202 Resp: 79853
 Ion Ratio Lower Upper
 202 100
 101 14.4 11.3 16.9
 203 17.1 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 4046
 Delta R.T. -0.00 min
 Lab File: BE089502.D
 Acq: 5 Feb 2015 12:39

Tgt Ion: 240 Resp: 121574
 Ion Ratio Lower Upper
 240 100
 120 15.2 9.6 14.4#
 236 24.9 19.4 29.2

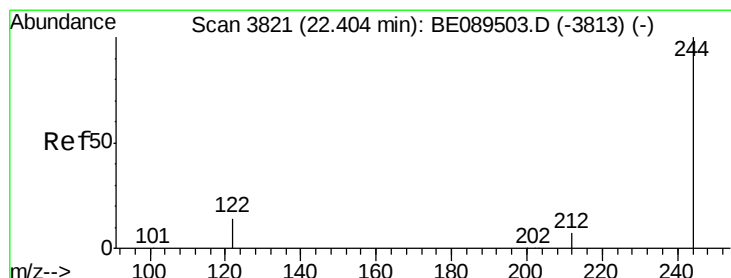
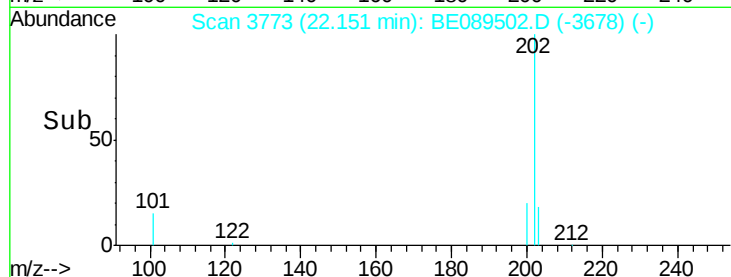
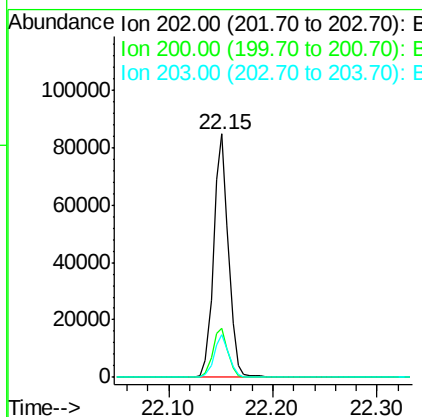
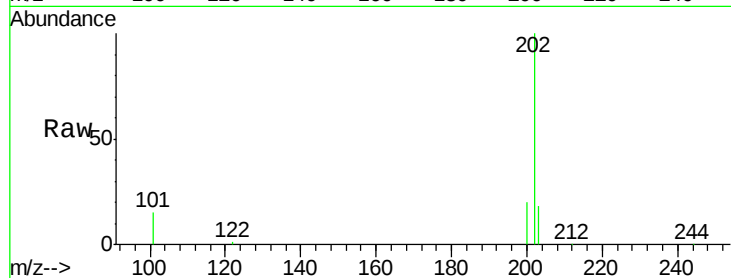




#17
 Pyrene
 Concen: 2.44 ng
 RT: 22.15 min Scan# 3773
 Delta R.T. 0.00 min
 Lab File: BE089502.D
 Acq: 5 Feb 2015 12:39

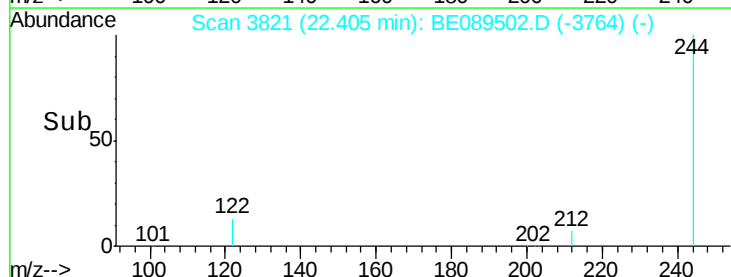
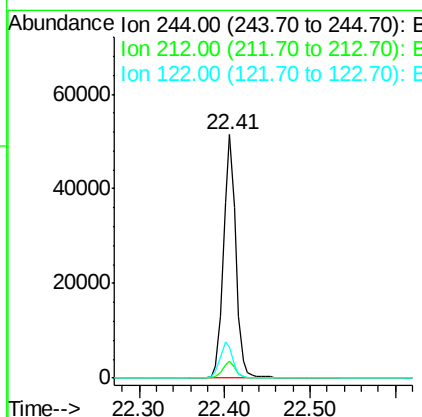
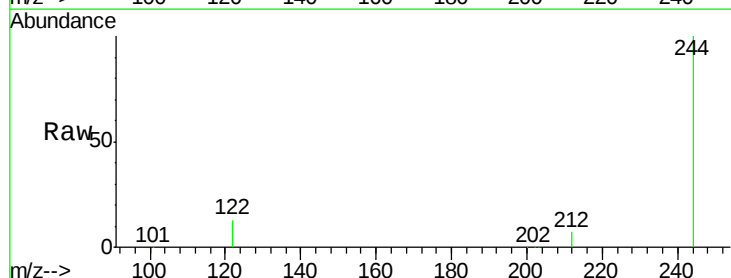
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC002

Tgt Ion: 202 Resp: 84735
 Ion Ratio Lower Upper
 202 100
 200 20.8 16.5 24.7
 203 17.4 14.0 21.0



#18
 Terphenyl-d14
 Concen: 2.42 ng
 RT: 22.41 min Scan# 3821
 Delta R.T. 0.00 min
 Lab File: BE089502.D
 Acq: 5 Feb 2015 12:39

Tgt Ion: 244 Resp: 51134
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.5 8.3
 122 12.7 11.1 16.7





#19

Benzo(a)anthracene

Concen: 2.44 ng

RT: 23.75 min Scan# 4044

Delta R.T. -0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

Instrument :

BNA_E

LabSampleId :

SSTDICC002

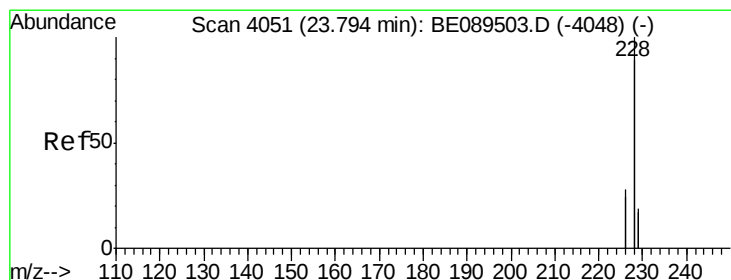
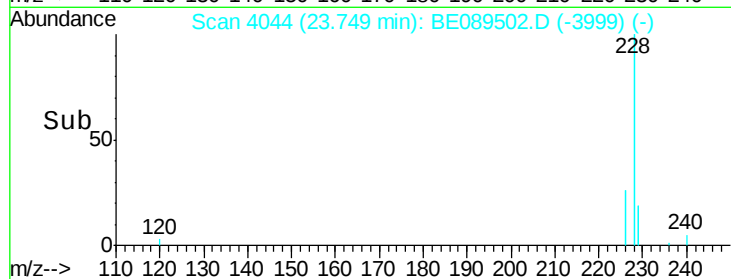
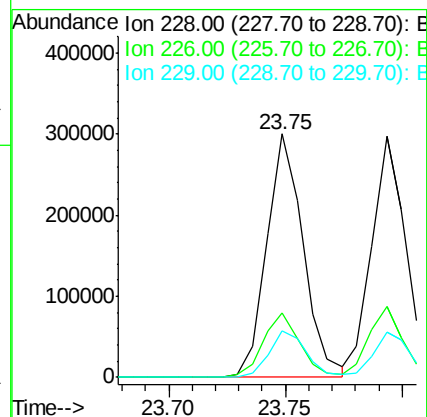
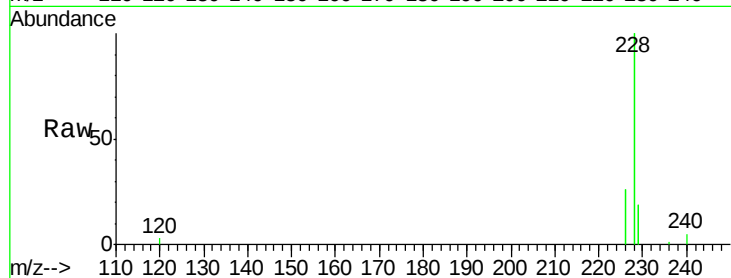
Tgt Ion:228 Resp: 325801

Ion Ratio Lower Upper

228 100

226 26.4 21.0 31.6

229 18.9 15.5 23.3



#20

Chrysene

Concen: 2.38 ng

RT: 23.79 min Scan# 4051

Delta R.T. -0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

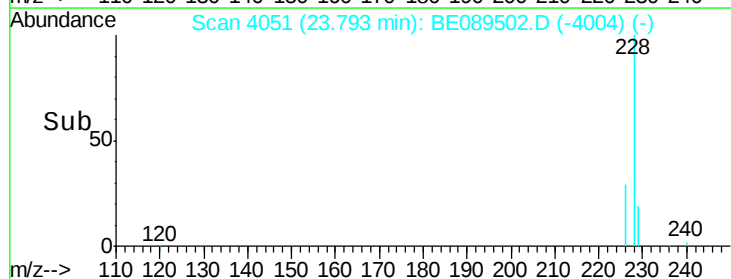
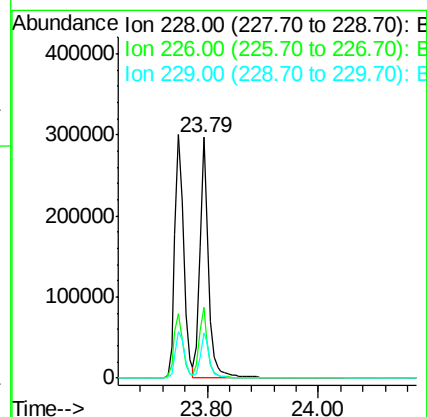
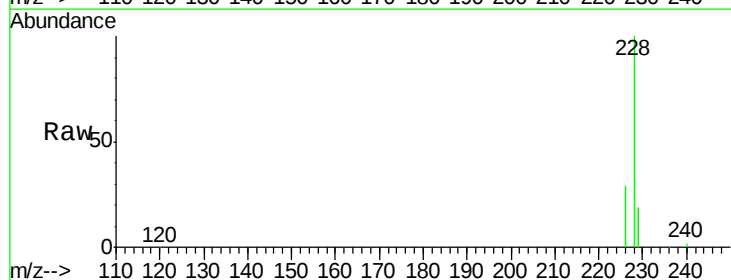
Tgt Ion:228 Resp: 326418

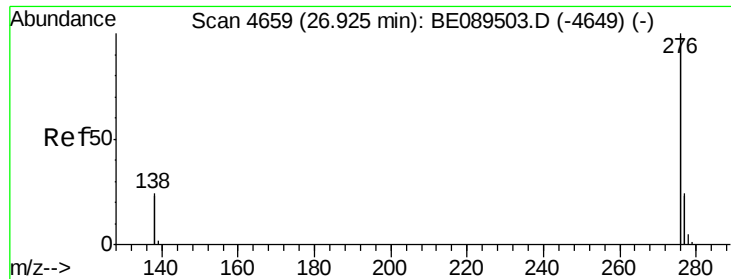
Ion Ratio Lower Upper

228 100

226 29.3 22.3 33.5

229 18.9 15.4 23.0





#21

Indeno(1,2,3-cd)pyrene

Concen: 2.63 ng

RT: 26.93 min Scan# 4659

Delta R.T. 0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

Instrument :

BNA_E

LabSampleId :

SSTDICC002

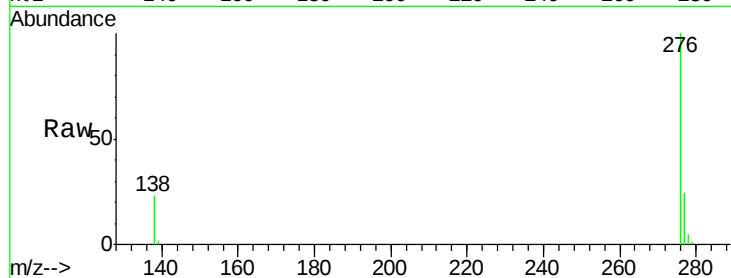
Tgt Ion: 276 Resp: 375082

Ion Ratio Lower Upper

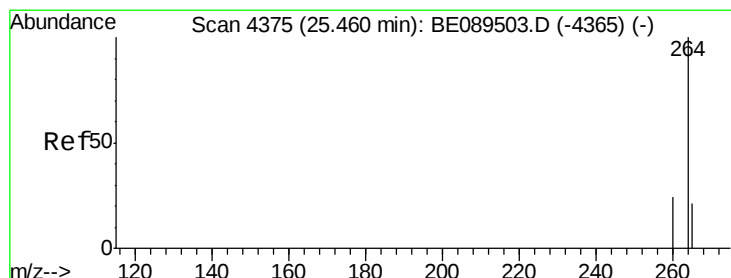
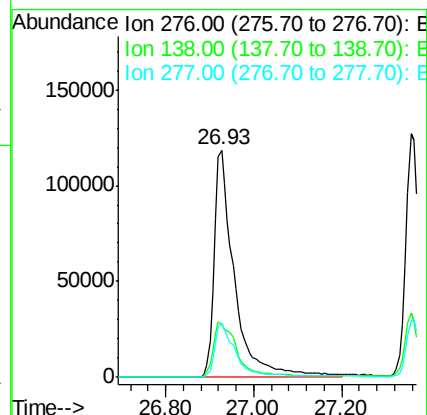
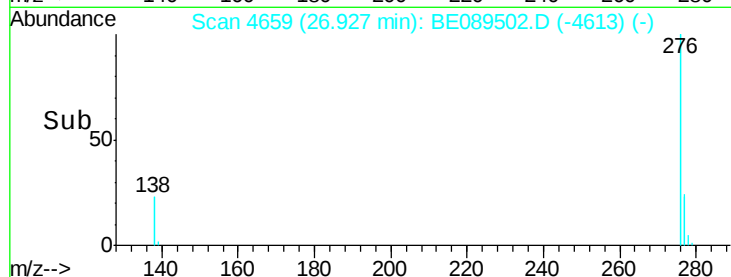
276 100

138 28.5 23.2 34.8

277 25.1 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# 4375

Delta R.T. -0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

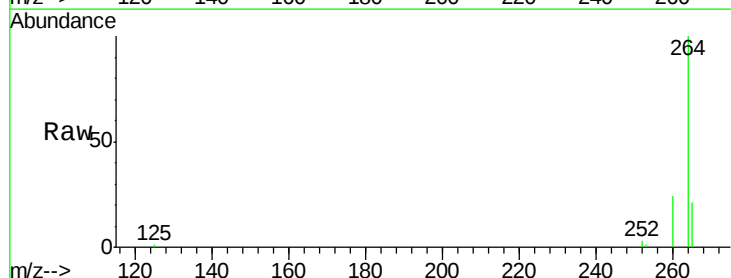
Tgt Ion: 264 Resp: 119864

Ion Ratio Lower Upper

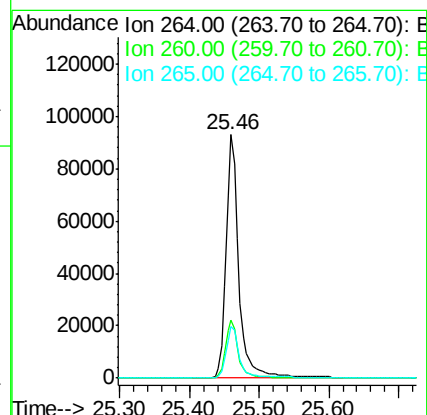
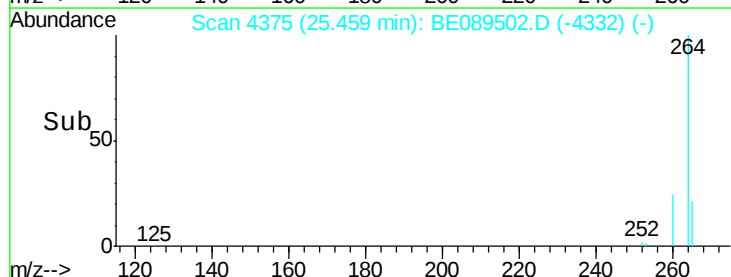
264 100

260 24.0 19.0 28.6

265 21.1 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

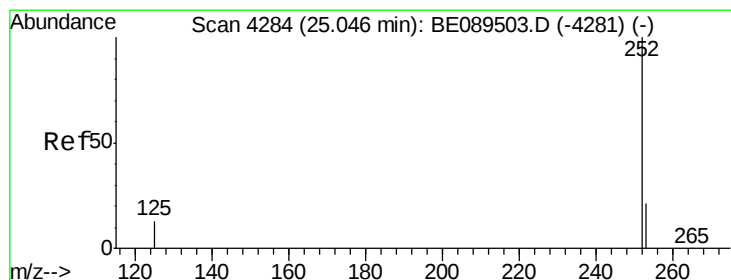
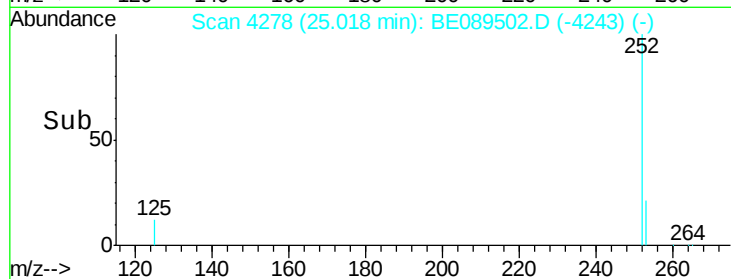
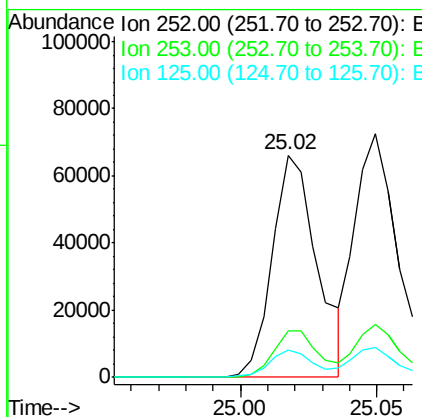
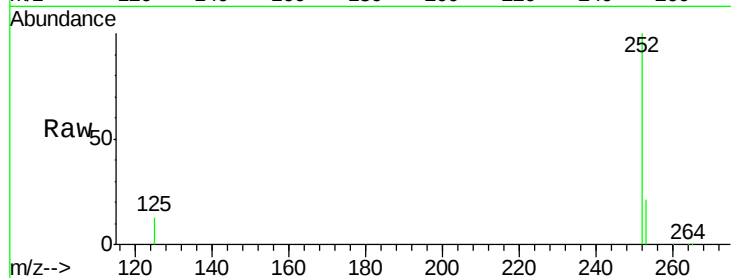




#23
Benzo(b)fluoranthene
Concen: 2.72 ng
RT: 25.02 min Scan# 4278
Delta R.T. -0.00 min
Lab File: BE089502.D
Acq: 5 Feb 2015 12:39

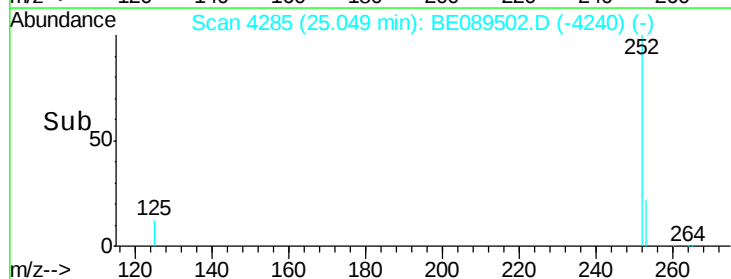
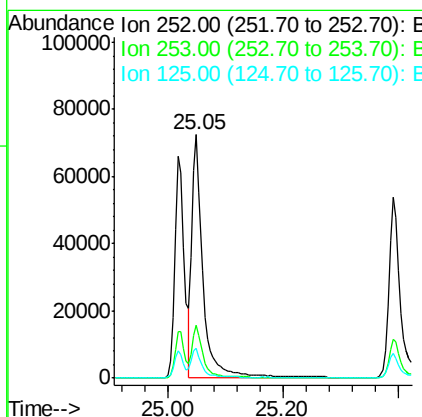
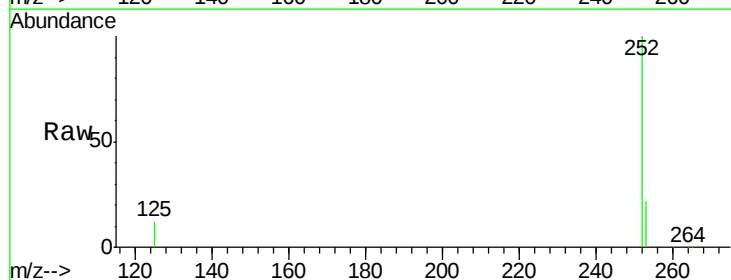
Instrument :
BNA_E
LabSampleId :
SSTDICC002

Tgt Ion:252 Resp: 75817
Ion Ratio Lower Upper
252 100
253 20.9 17.4 26.0
125 12.5 9.6 14.4



#24
Benzo(k)fluoranthene
Concen: 2.43 ng
RT: 25.05 min Scan# 4285
Delta R.T. 0.00 min
Lab File: BE089502.D
Acq: 5 Feb 2015 12:39

Tgt Ion:252 Resp: 92794
Ion Ratio Lower Upper
252 100
253 22.0 17.0 25.6
125 12.1 10.2 15.4





#25

Benzo(a)pyrene

Concen: 2.56 ng

RT: 25.39 min Scan# 4360

Delta R.T. -0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

Instrument :

BNA_E

LabSampleId :

SSTDICC002

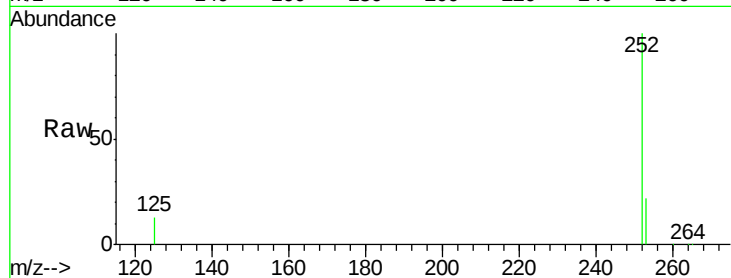
Tgt Ion:252 Resp: 72350

Ion Ratio Lower Upper

252 100

253 21.6 17.8 26.6

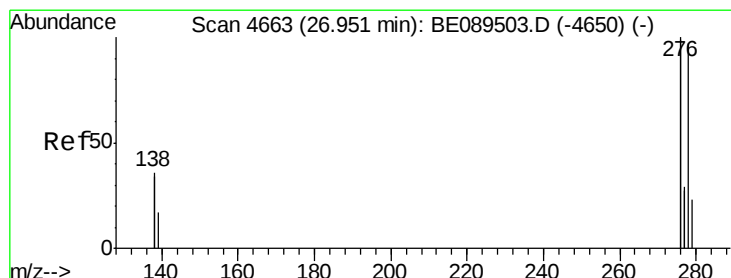
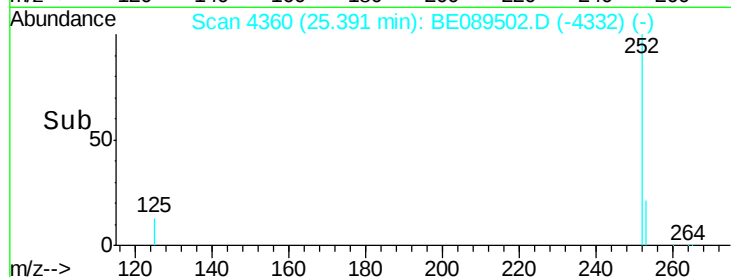
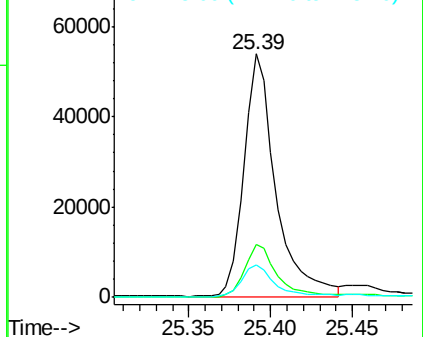
125 13.5 10.7 16.1



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

Dibenzo(a,h)anthracene

Concen: 2.66 ng

RT: 26.95 min Scan# 4663

Delta R.T. 0.00 min

Lab File: BE089502.D

Acq: 5 Feb 2015 12:39

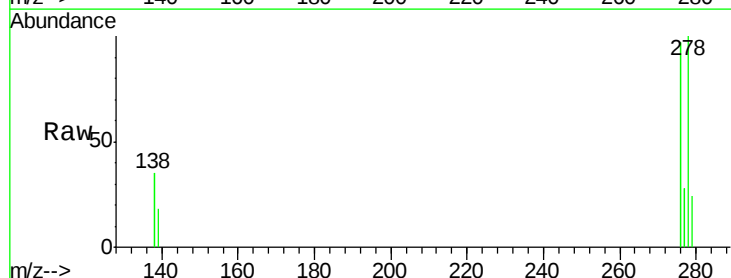
Tgt Ion:278 Resp: 80158

Ion Ratio Lower Upper

278 100

139 17.9 14.6 22.0

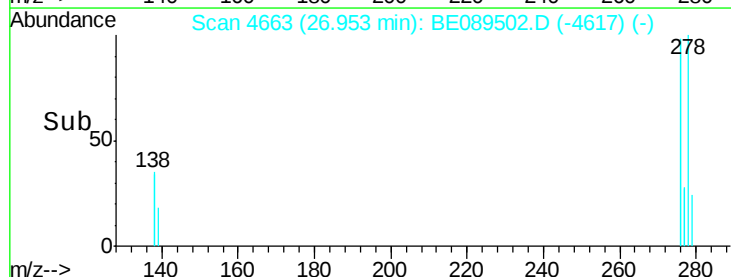
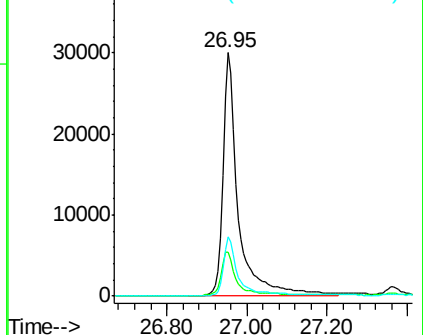
279 24.2 19.0 28.4



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





#27

Benzo(g,h,i)perylene

Concen: 2.52 ng

RT: 27.36 min Scan# 4725

Delta R.T. 0.00 min

Lab File: BE089502.D

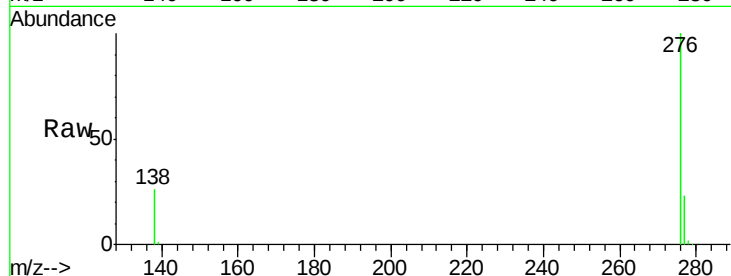
Acq: 5 Feb 2015 12:39

Instrument :

BNA_E

LabSampleId :

SSTDIC002



Tgt Ion: 276 Resp: 309783

Ion Ratio Lower Upper

276 100

277 23.2 18.6 28.0

138 26.3 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

