

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
 Data File : BE089611.D
 Acq On : 18 Feb 2015 2:12
 Operator : TP/IZ
 Sample : SSTDICC0.5
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.5

Quant Time: Feb 18 05:39:12 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 05:28:48 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	47100	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	189846	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	93406	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	182479	5.00	ng	0.00
19) Chrysene-d12	23.66	240	184498	5.00	ng	0.00
25) Perylene-d12	25.34	264	159721	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	3598	0.42	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	12069	0.42	ng	0.00
21) Terphenyl-d14	22.30	244	12771	0.38	ng	0.00

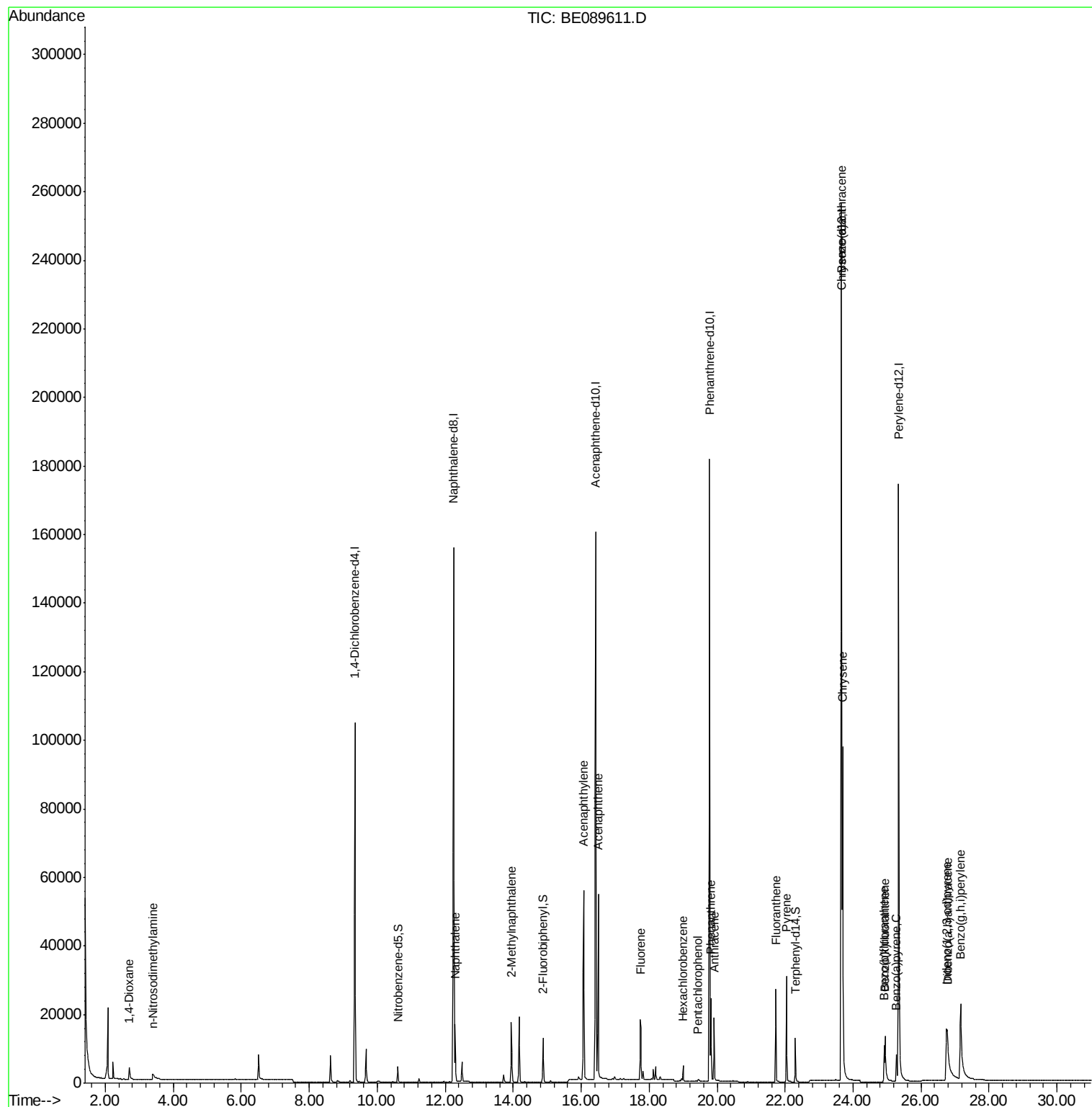
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.71	88	2859	0.46	ng	98
3) n-Nitrosodimethylamine	3.39	42	2874	0.47	ng	# 90
6) Naphthalene	12.29	128	20845	0.44	ng	99
7) 2-Methylnaphthalene	13.95	142	12504	0.42	ng	97
10) Acenaphthylene	16.07	152	71117	0.41	ng	100
11) Acenaphthene	16.50	154	11781	0.41	ng	99
12) Fluorene	17.74	166	13362	0.42	ng	98
14) Hexachlorobenzene	19.00	284	3786	0.40	ng	# 91
15) Pentachlorophenol	19.44	266	514	0.18	ng	99
16) Phenanthrene	19.82	178	21840	0.41	ng	100
17) Anthracene	19.91	178	17834	0.41	ng	100
18) Fluoranthene	21.72	202	19868	0.44	ng	100
20) Pyrene	22.04	202	21565	0.38	ng	100
22) Benzo(a)anthracene	23.65	228	75132	0.40	ng	100
23) Chrysene	23.69	228	88019	0.40	ng	99
24) Indeno(1,2,3-cd)pyrene	26.75	276	53697	0.34	ng	100
26) Benzo(b)fluoranthene	24.91	252	10304	0.33	ng	100
27) Benzo(k)fluoranthene	24.95	252	21832	0.42	ng	100
28) Benzo(a)pyrene	25.27	252	10476	0.34	ng	98
29) Dibenzo(a,h)anthracene	26.77	278	10262	0.33	ng	97
30) Benzo(g,h,i)perylene	27.17	276	51815	0.35	ng	99

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

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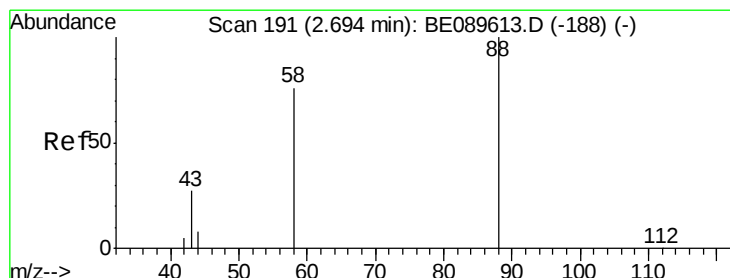
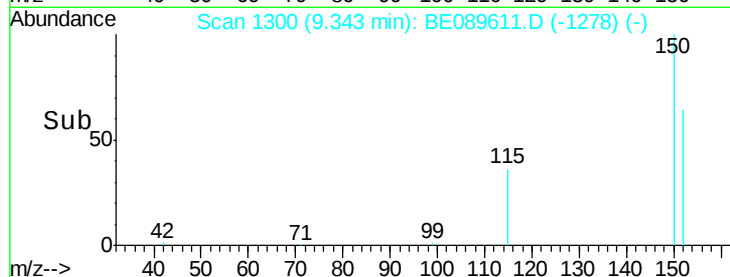
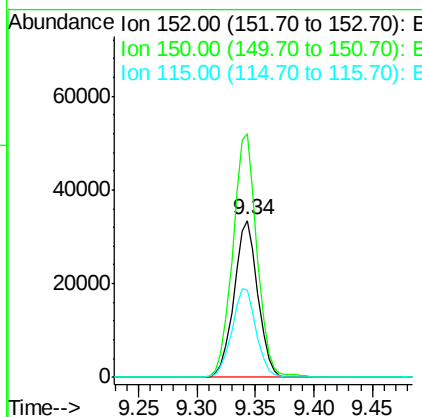
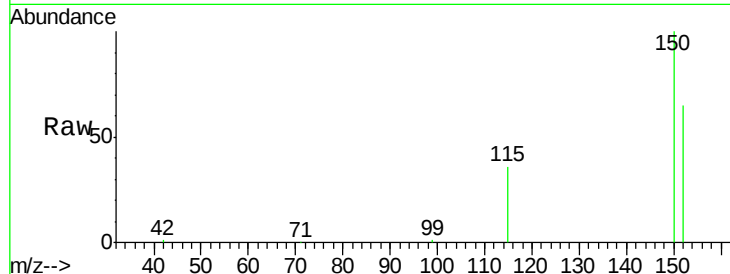




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 9.34 min Scan# 1300
 Delta R.T. 0.00 min
 Lab File: BE089611.D
 Acq: 18 Feb 2015 2:12

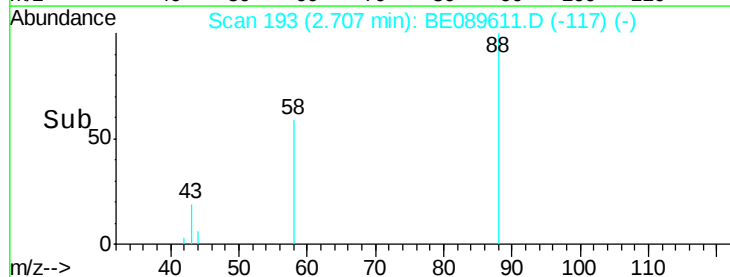
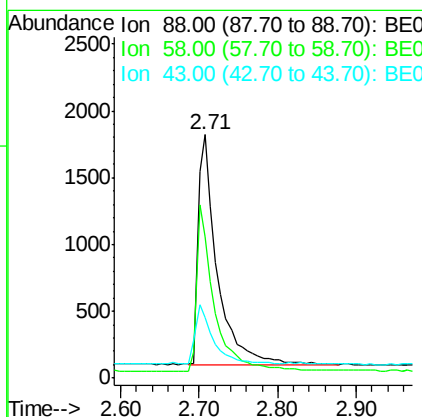
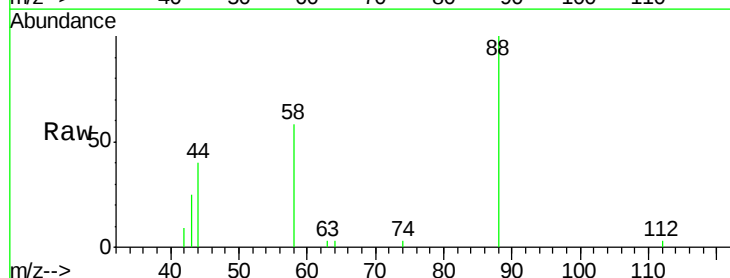
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.5

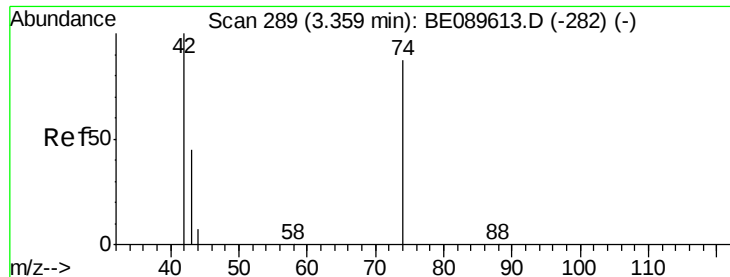
Tgt Ion:152 Resp: 47100
 Ion Ratio Lower Upper
 152 100
 150 155.0 122.4 183.6
 115 55.4 44.2 66.2



#2
 1,4-Dioxane
 Concen: 0.46 ng
 RT: 2.71 min Scan# 193
 Delta R.T. 0.01 min
 Lab File: BE089611.D
 Acq: 18 Feb 2015 2:12

Tgt Ion: 88 Resp: 2859
 Ion Ratio Lower Upper
 88 100
 58 66.3 54.6 81.8
 43 24.2 20.6 30.8



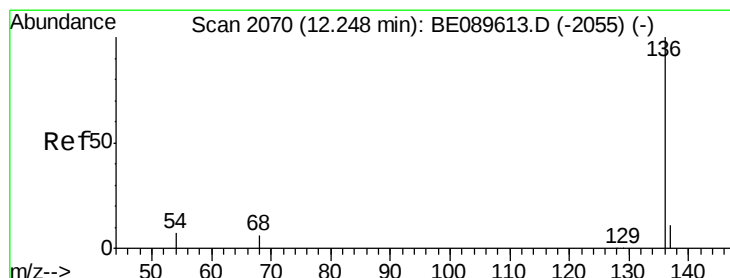
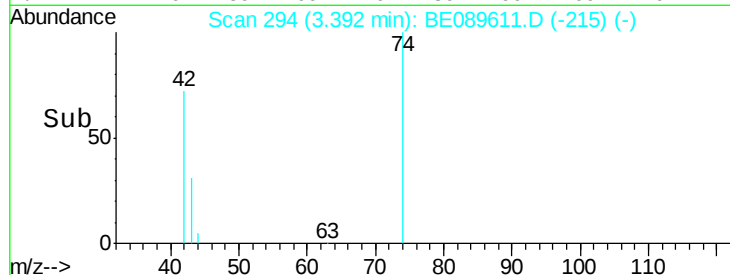
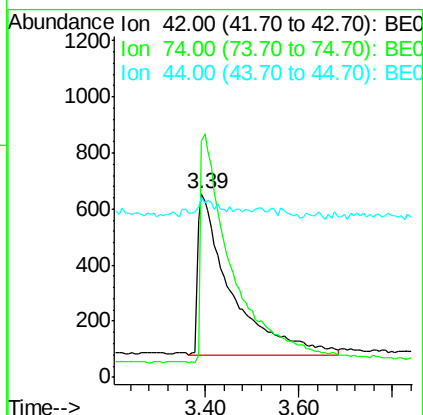
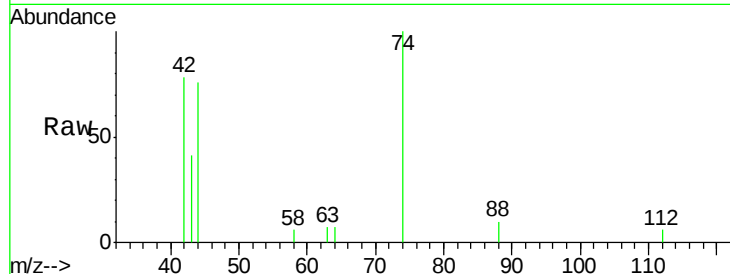


#3

n-Nitrosodimethylamine
 Concen: 0.47 ng
 RT: 3.39 min Scan# 294
 Delta R.T. 0.03 min
 Lab File: BE089611.D
 Acq: 18 Feb 2015 2:12

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.5

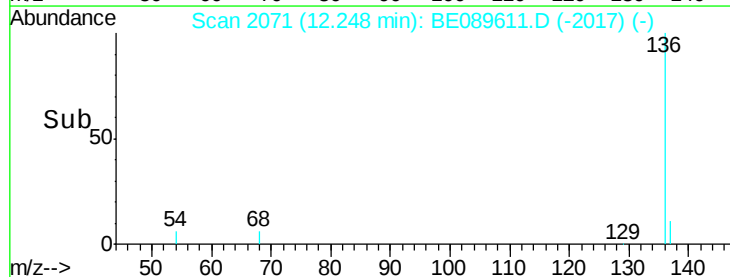
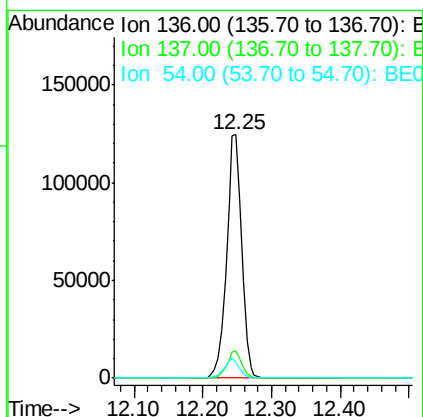
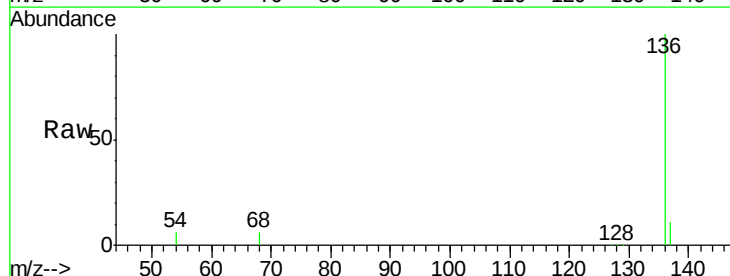
Tgt Ion: 42 Resp: 2874
 Ion Ratio Lower Upper
 42 100
 74 138.7 121.4 182.0
 44 4.1 4.5 6.7#

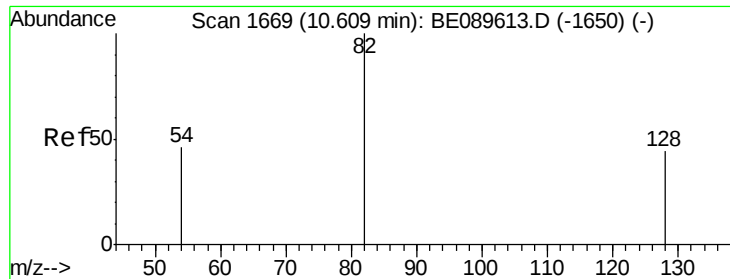


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.25 min Scan# 2071
 Delta R.T. 0.00 min
 Lab File: BE089611.D
 Acq: 18 Feb 2015 2:12

Tgt Ion: 136 Resp: 189846
 Ion Ratio Lower Upper
 136 100
 137 11.1 8.9 13.3
 54 6.5 5.3 7.9





#5

Nitrobenzene-d5

Concen: 0.42 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

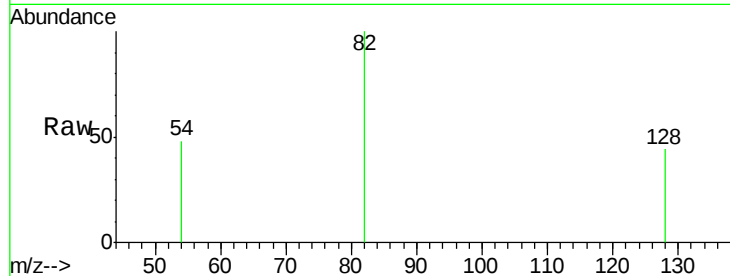
Tgt Ion: 82 Resp: 3598

Ion Ratio Lower Upper

82 100

128 43.9 35.5 53.3

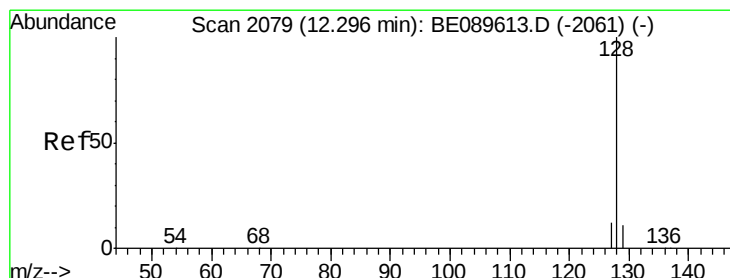
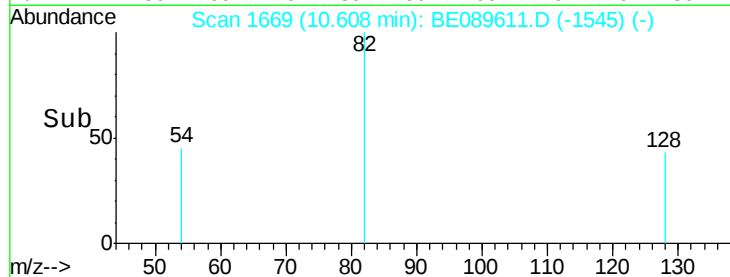
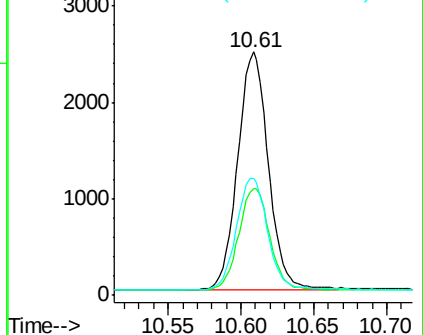
54 48.0 37.5 56.3



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



#6

Naphthalene

Concen: 0.44 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

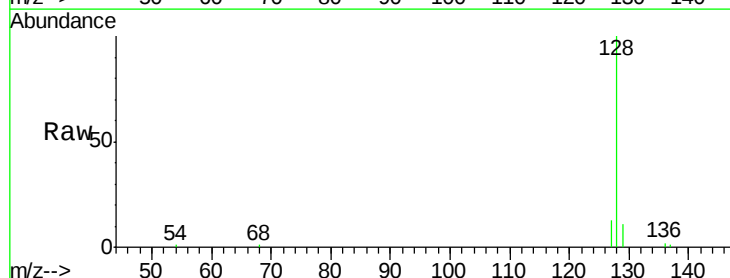
Tgt Ion: 128 Resp: 20845

Ion Ratio Lower Upper

128 100

129 11.3 8.9 13.3

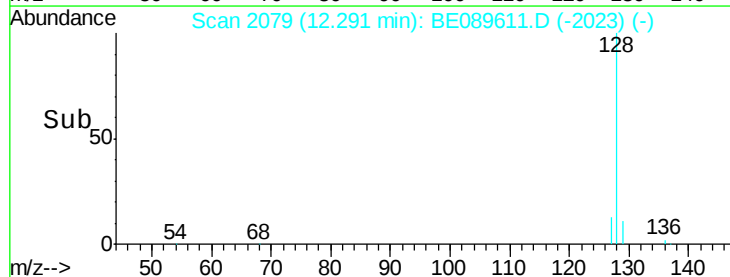
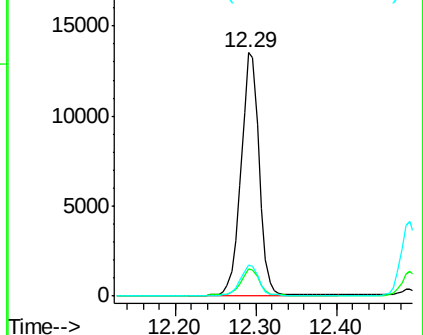
127 13.0 9.8 14.8



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





#7

2-Methylnaphthalene

Concen: 0.42 ng

RT: 13.95 min Scan# 2419

Delta R.T. 0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

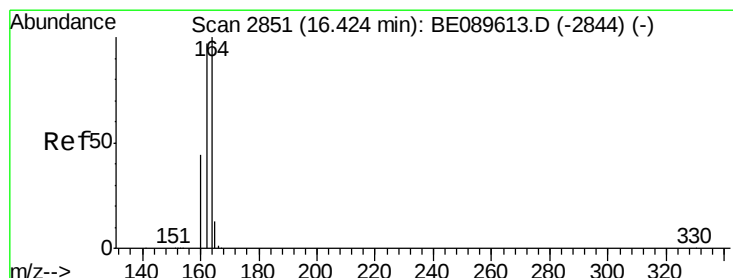
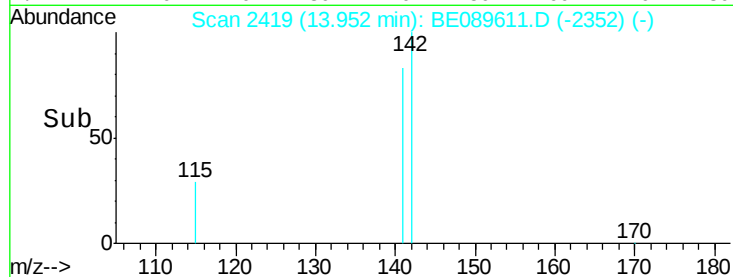
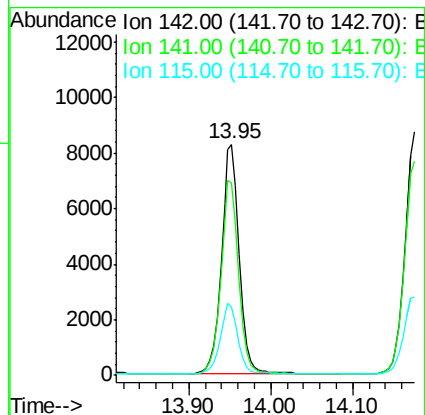
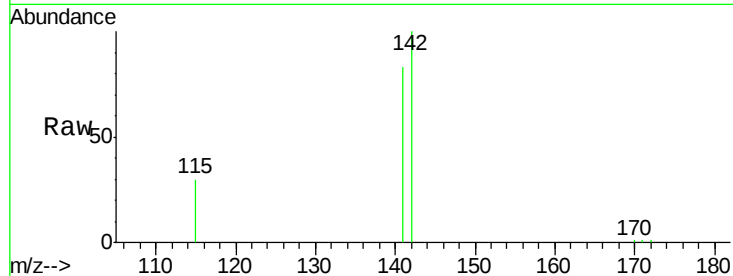
Tgt Ion:142 Resp: 12504

Ion Ratio Lower Upper

142 100

141 83.0 68.3 102.5

115 29.8 25.1 37.7



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2853

Delta R.T. 0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

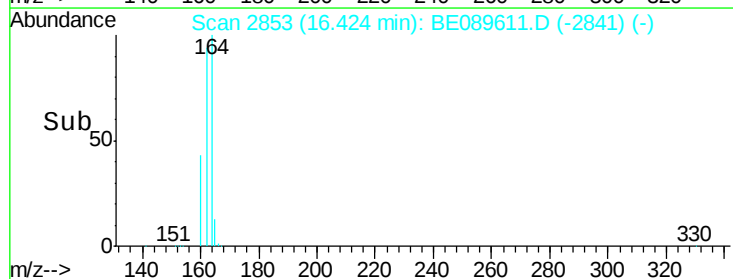
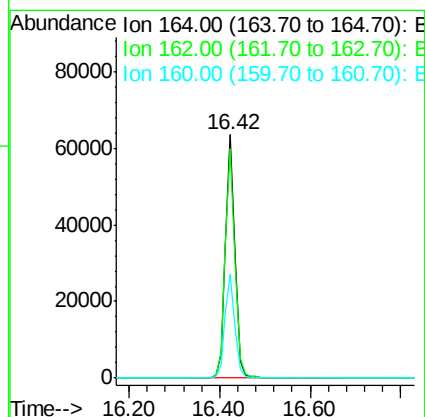
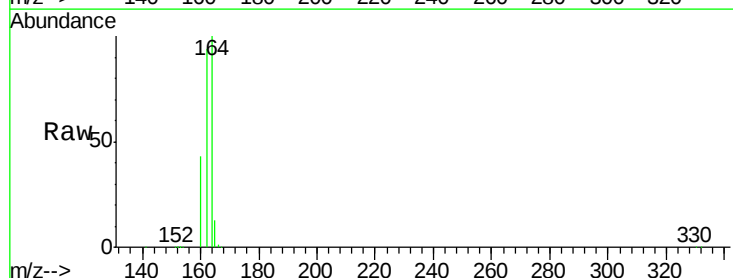
Tgt Ion:164 Resp: 93406

Ion Ratio Lower Upper

164 100

162 94.5 77.5 116.3

160 42.8 35.5 53.3





#9

2-Fluorobiphenyl

Concen: 0.42 ng

RT: 14.88 min Scan# 2623

Delta R.T. -0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

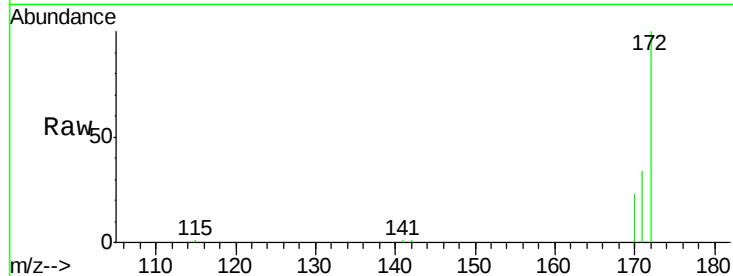
Tgt Ion:172 Resp: 12069

Ion Ratio Lower Upper

172 100

171 34.1 26.9 40.3

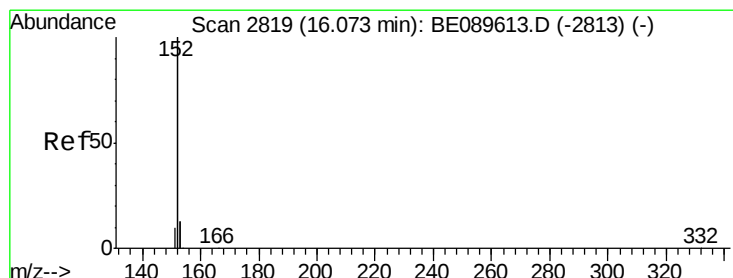
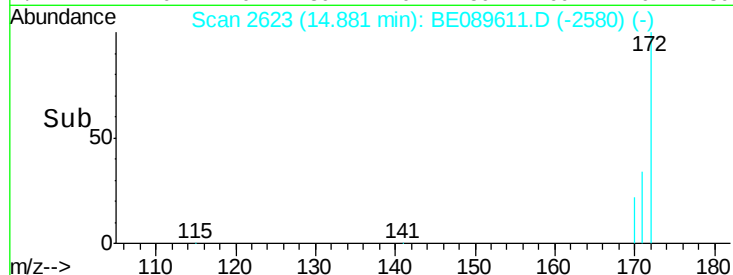
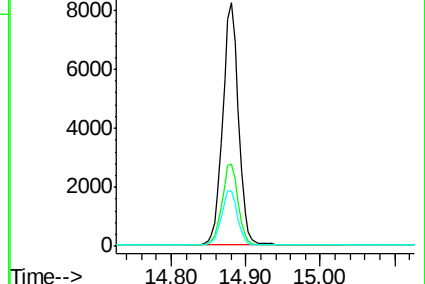
170 22.6 17.4 26.0



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



#10

Acenaphthylene

Concen: 0.41 ng

RT: 16.07 min Scan# 2821

Delta R.T. 0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

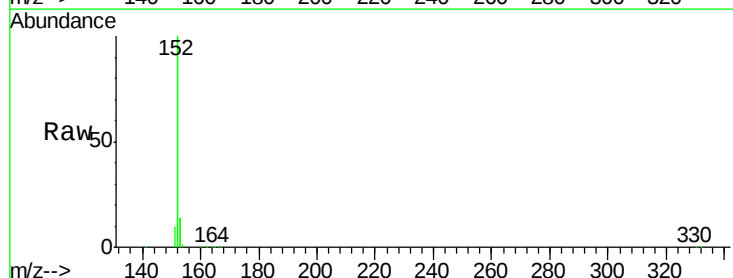
Tgt Ion:152 Resp: 71117

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

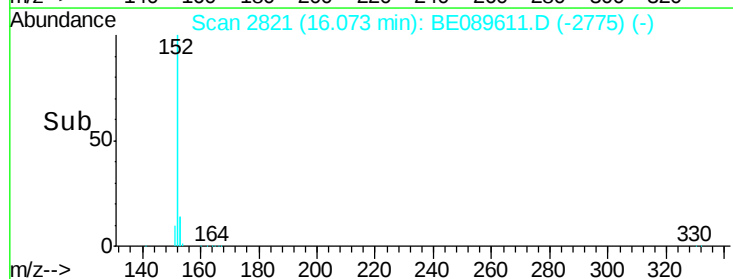
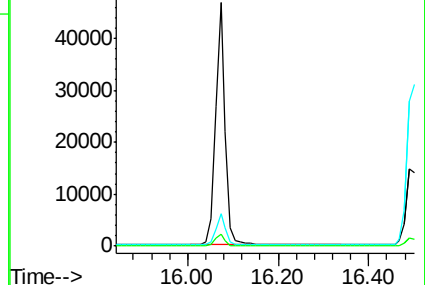
153 13.0 10.5 15.7

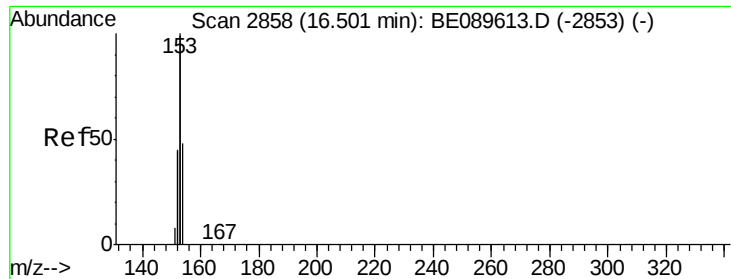


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.41 ng

RT: 16.50 min Scan# 2860

Delta R.T. 0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

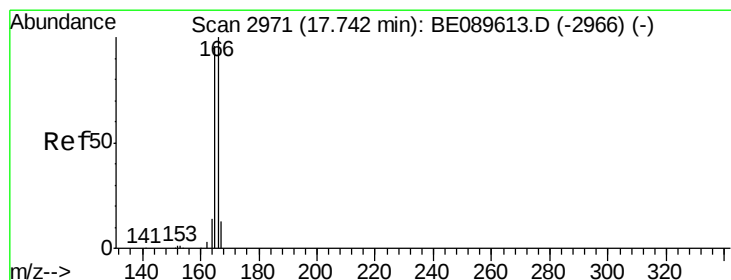
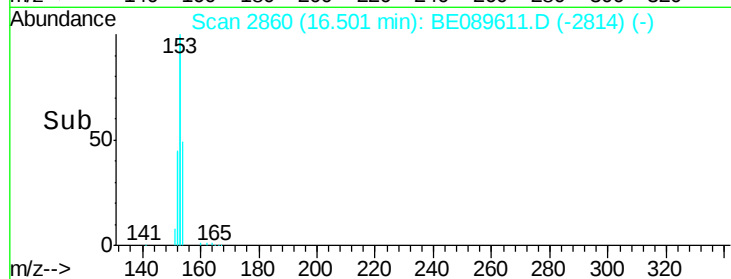
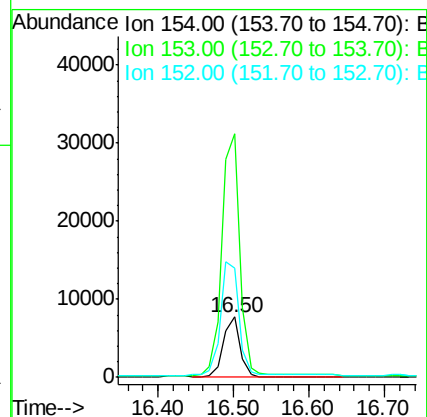
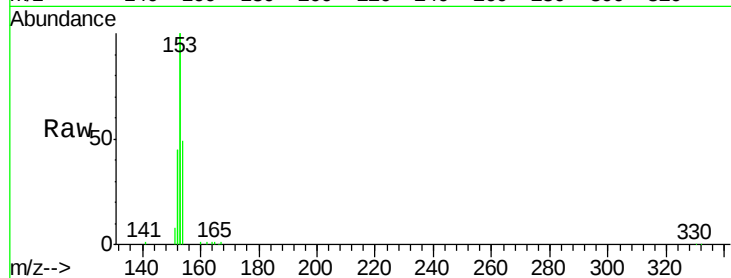
Tgt Ion:154 Resp: 11781

Ion Ratio Lower Upper

154 100

153 436.8 348.9 523.3

152 213.5 166.6 249.8



#12

Fluorene

Concen: 0.42 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

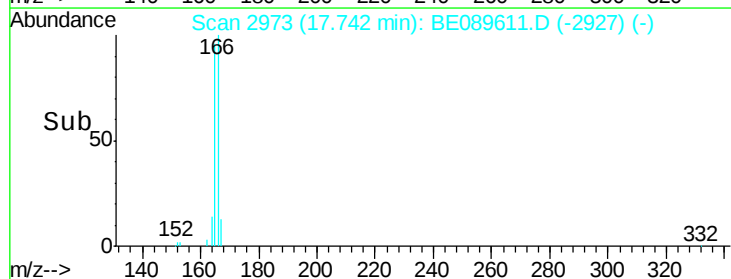
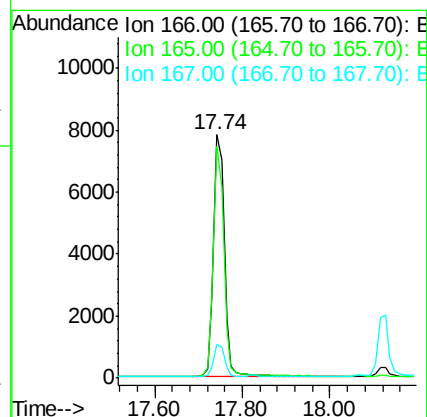
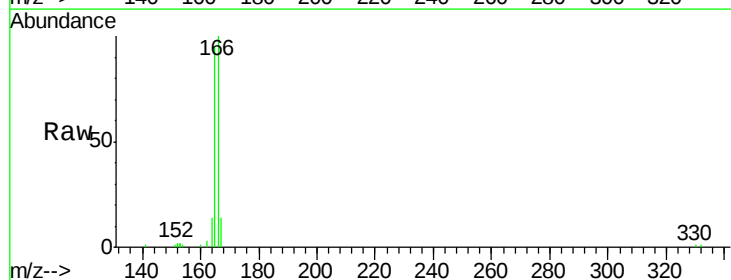
Tgt Ion:166 Resp: 13362

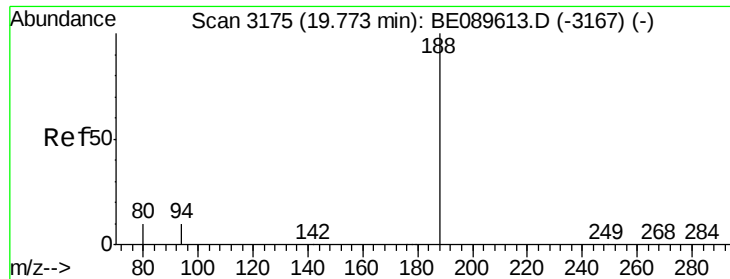
Ion Ratio Lower Upper

166 100

165 91.4 74.7 112.1

167 13.2 10.5 15.7

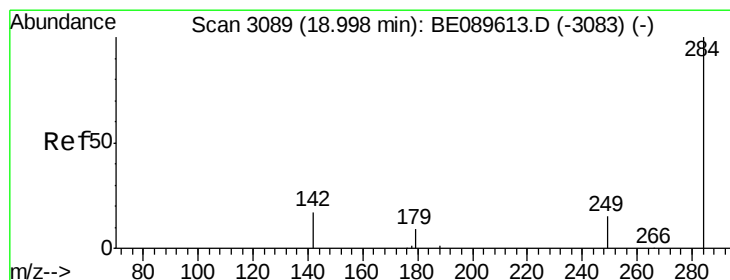
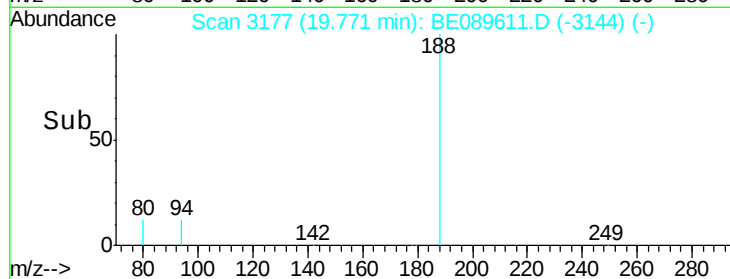
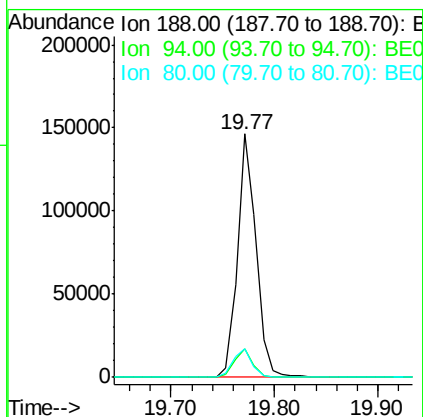
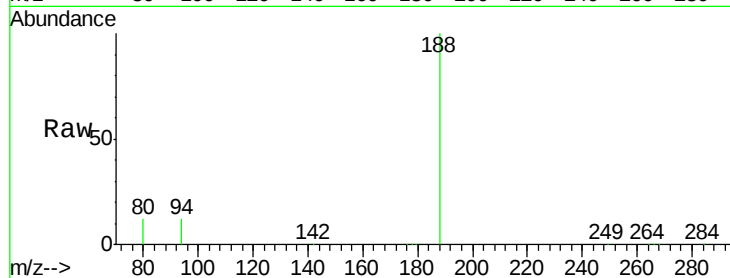




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3177
Delta R.T. -0.00 min
Lab File: BE089611.D
Acq: 18 Feb 2015 2:12

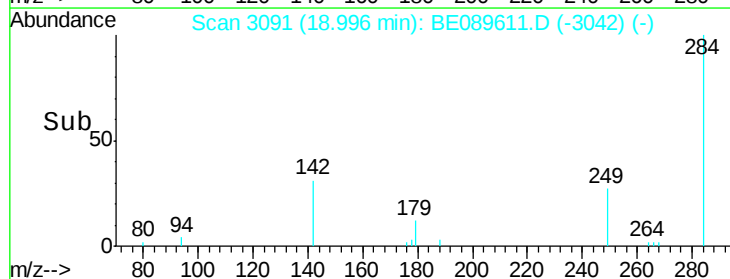
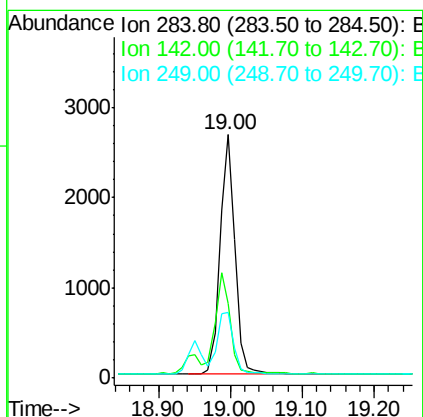
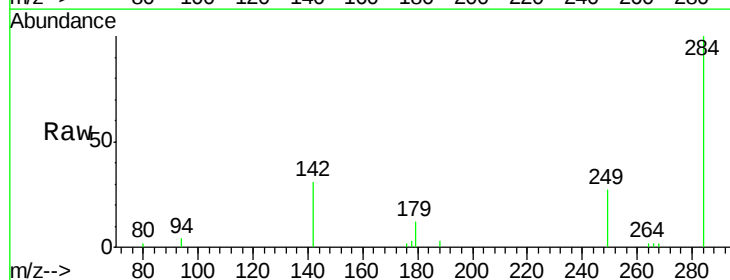
Instrument :
BNA_E
LabSampleId :
SSTDIC0.5

Tgt Ion:188 Resp: 182479
Ion Ratio Lower Upper
188 100
94 11.7 8.2 12.4
80 11.9 8.1 12.1



#14
Hexachlorobenzene
Concen: 0.40 ng
RT: 19.00 min Scan# 3091
Delta R.T. -0.00 min
Lab File: BE089611.D
Acq: 18 Feb 2015 2:12

Tgt Ion:284 Resp: 3786
Ion Ratio Lower Upper
284 100
142 49.4 32.3 48.5#
249 28.0 22.3 33.5

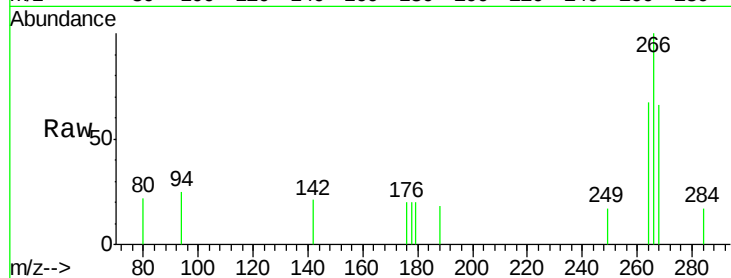




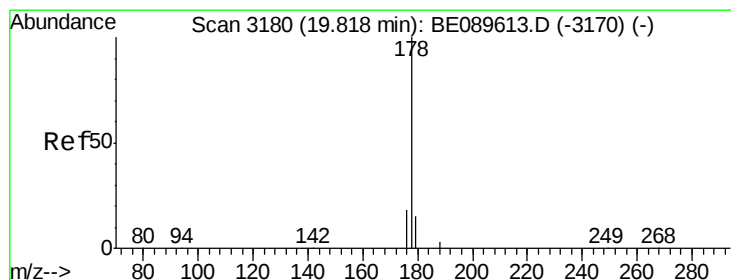
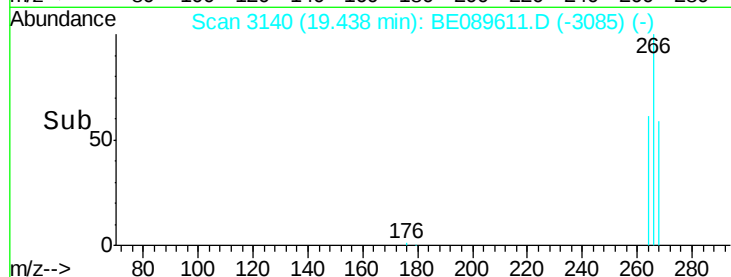
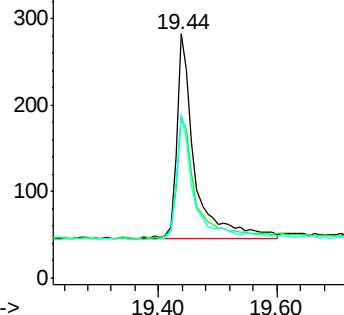
#15
 Pentachlorophenol
 Concen: 0.18 ng
 RT: 19.44 min Scan# 3140
 Delta R.T. -0.00 min
 Lab File: BE089611.D
 Acq: 18 Feb 2015 2:12

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.5

Tgt Ion: 266 Resp: 514
 Ion Ratio Lower Upper
 266 100
 268 66.0 52.6 79.0
 264 67.0 51.8 77.8

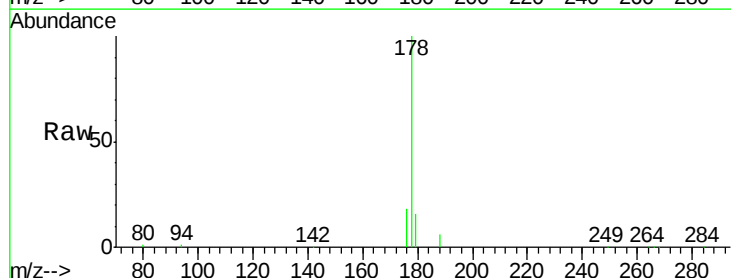


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

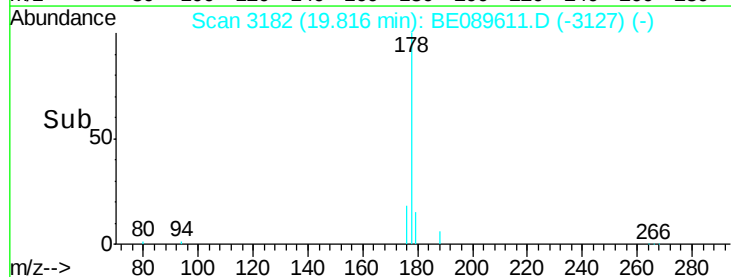
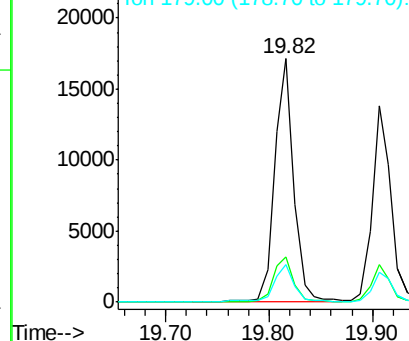


#16
 Phenanthrene
 Concen: 0.41 ng
 RT: 19.82 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: BE089611.D
 Acq: 18 Feb 2015 2:12

Tgt Ion: 178 Resp: 21840
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.1 22.7
 179 15.7 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

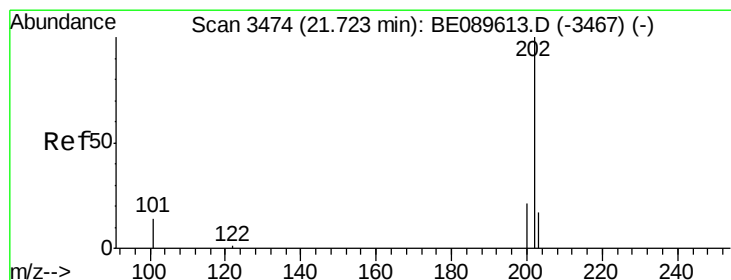
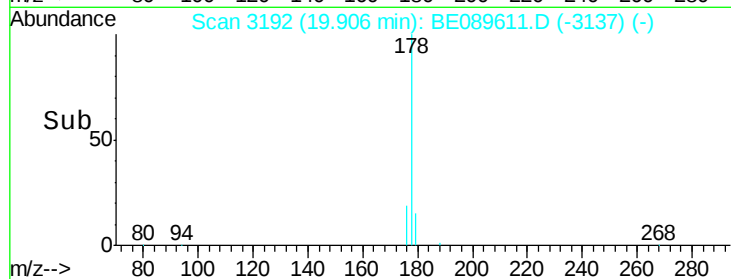
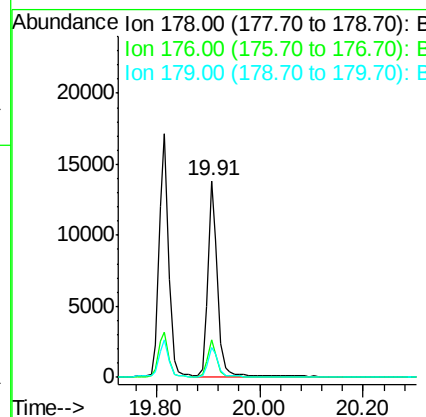
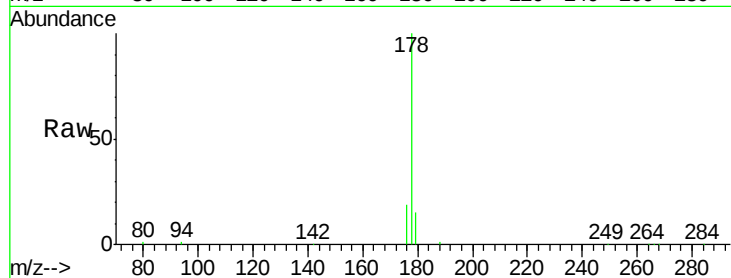




#17
 Anthracene
 Concen: 0.41 ng
 RT: 19.91 min Scan# 3192
 Delta R.T. -0.00 min
 Lab File: BE089611.D
 Acq: 18 Feb 2015 2:12

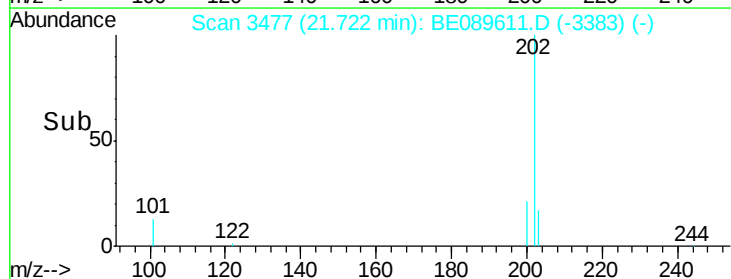
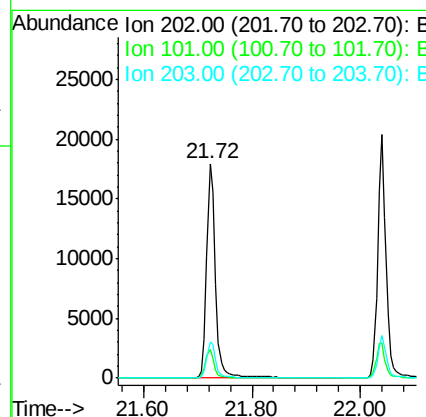
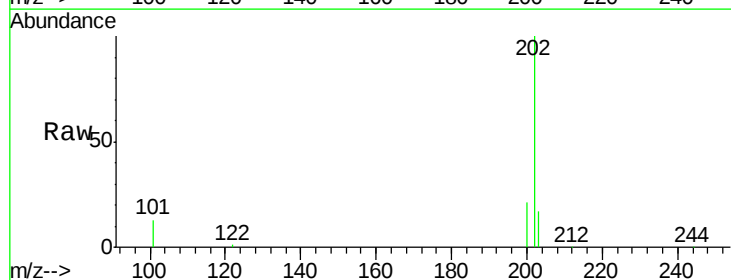
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.5

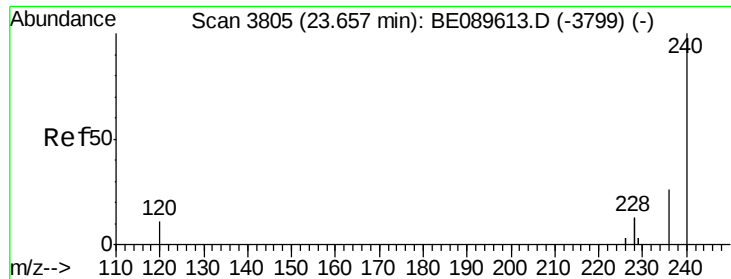
Tgt Ion:178 Resp: 17834
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.6 22.0
 179 15.4 12.3 18.5



#18
 Fluoranthene
 Concen: 0.44 ng
 RT: 21.72 min Scan# 3477
 Delta R.T. -0.00 min
 Lab File: BE089611.D
 Acq: 18 Feb 2015 2:12

Tgt Ion:202 Resp: 19868
 Ion Ratio Lower Upper
 202 100
 101 12.9 10.4 15.6
 203 17.2 13.9 20.9





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3808

Delta R.T. 0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

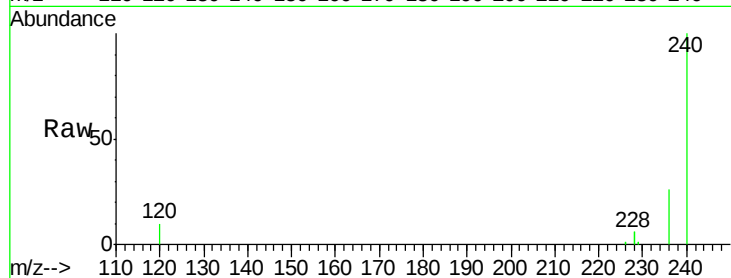
Tgt Ion:240 Resp: 184498

Ion Ratio Lower Upper

240 100

120 9.5 9.0 13.4

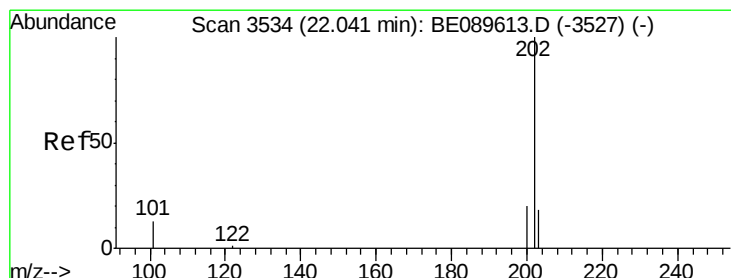
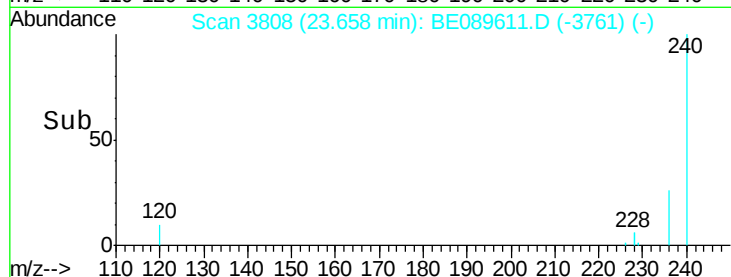
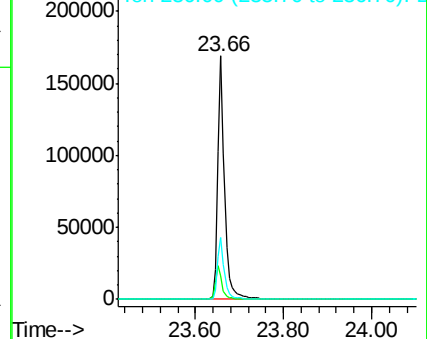
236 25.6 21.0 31.6



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



#20

Pyrene

Concen: 0.38 ng

RT: 22.04 min Scan# 3537

Delta R.T. -0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

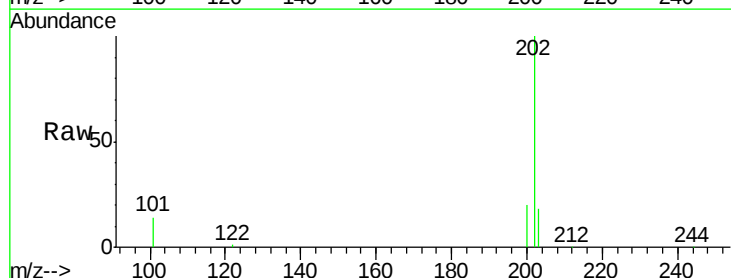
Tgt Ion:202 Resp: 21565

Ion Ratio Lower Upper

202 100

200 20.5 16.3 24.5

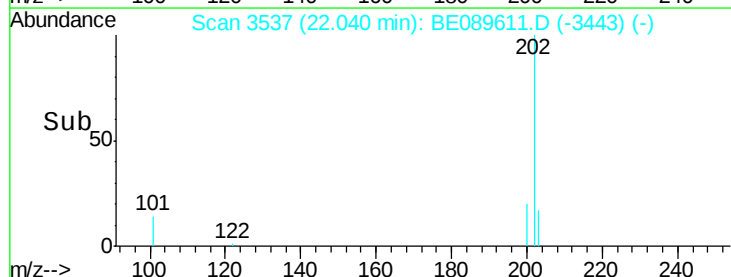
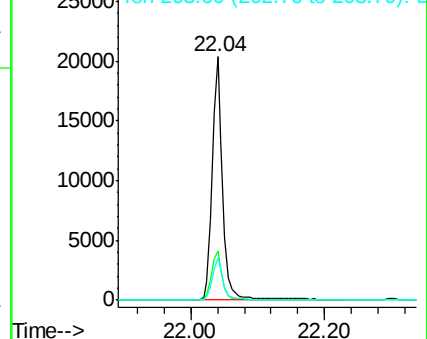
203 17.3 13.8 20.8



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





#21

Terphenyl-d14

Concen: 0.38 ng

RT: 22.30 min Scan# 3586

Delta R.T. -0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

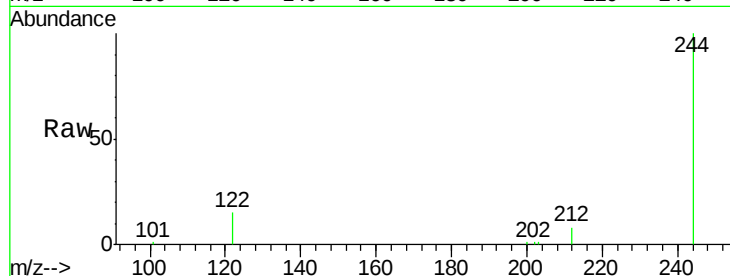
Tgt Ion:244 Resp: 12771

Ion Ratio Lower Upper

244 100

212 7.5 5.8 8.8

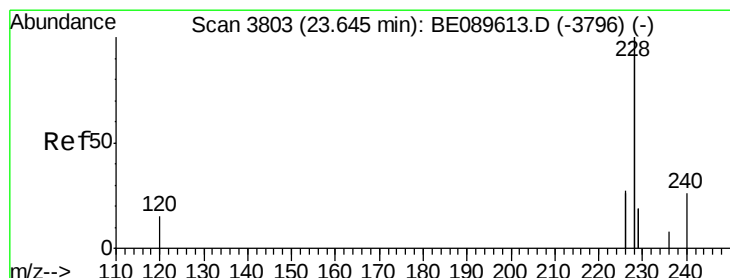
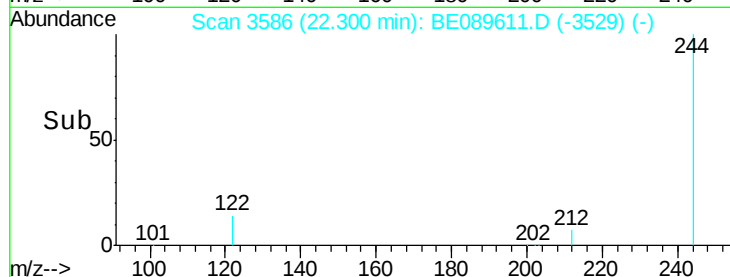
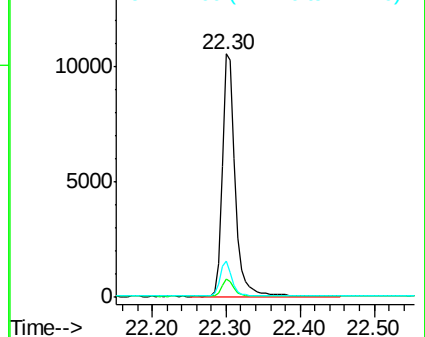
122 14.9 11.8 17.8



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



#22

Benzo(a)anthracene

Concen: 0.40 ng

RT: 23.65 min Scan# 3806

Delta R.T. 0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

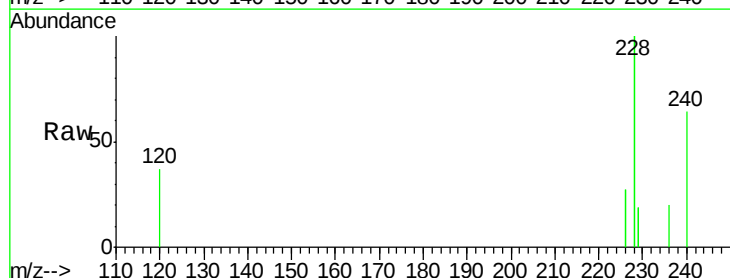
Tgt Ion:228 Resp: 75132

Ion Ratio Lower Upper

228 100

226 26.6 21.2 31.8

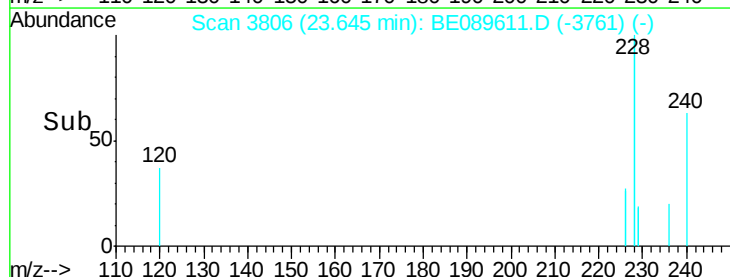
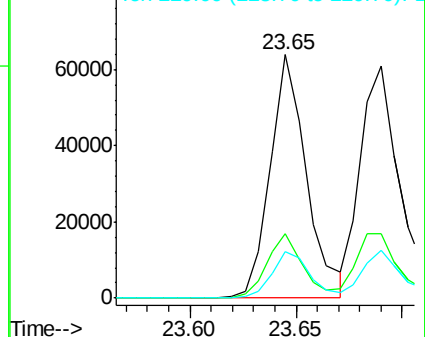
229 19.0 15.2 22.8



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





#23

Chrysene

Concen: 0.40 ng

RT: 23.69 min Scan# 3813

Delta R.T. 0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

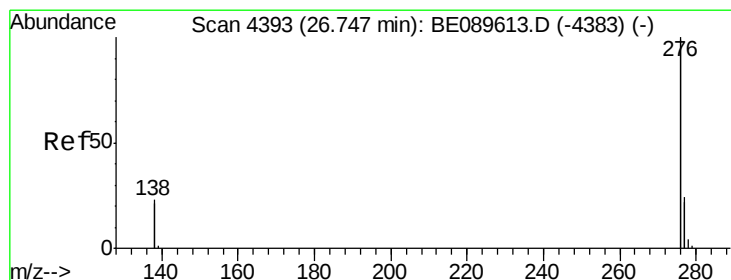
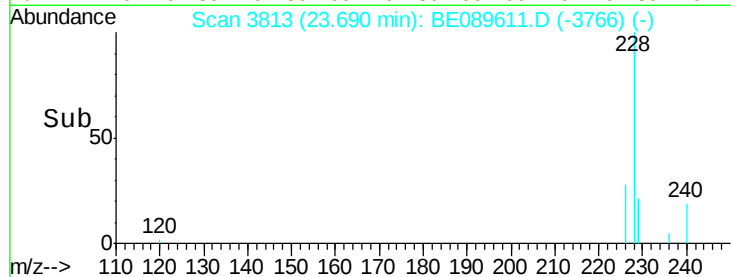
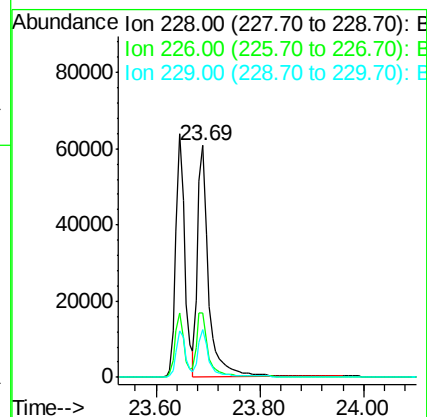
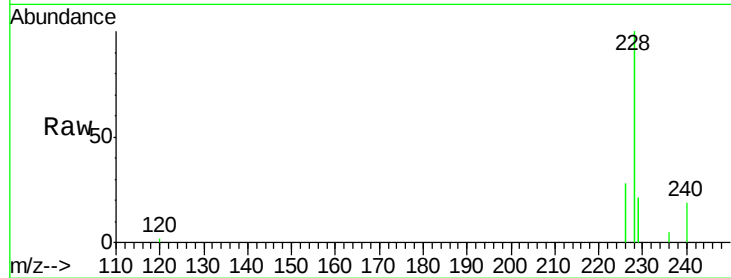
Tgt Ion:228 Resp: 88019

Ion Ratio Lower Upper

228 100

226 27.7 22.2 33.4

229 20.6 16.0 24.0



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.34 ng

RT: 26.75 min Scan# 4396

Delta R.T. 0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

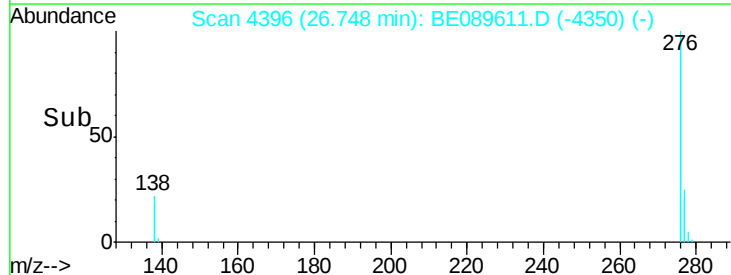
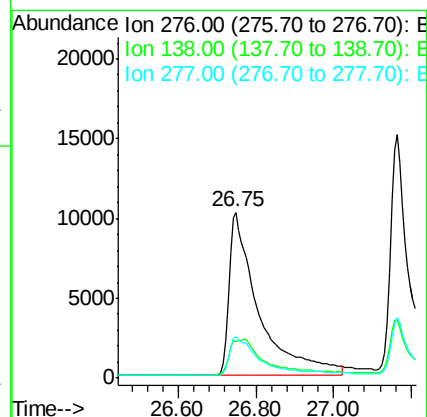
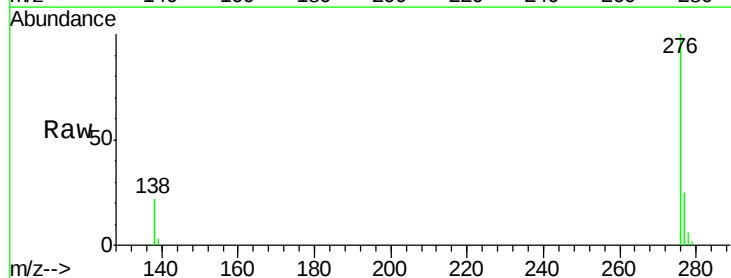
Tgt Ion:276 Resp: 53697

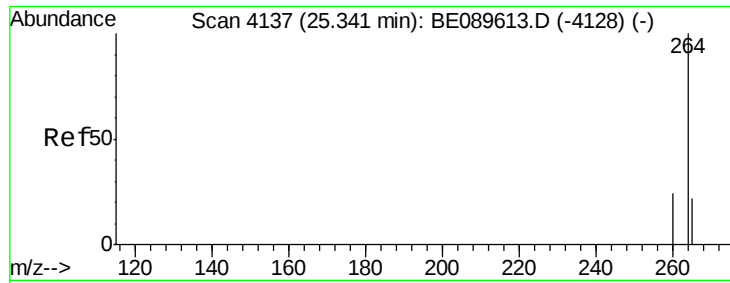
Ion Ratio Lower Upper

276 100

138 26.5 21.4 32.2

277 25.0 19.9 29.9

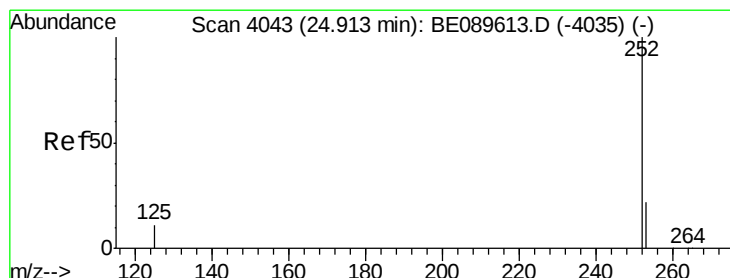
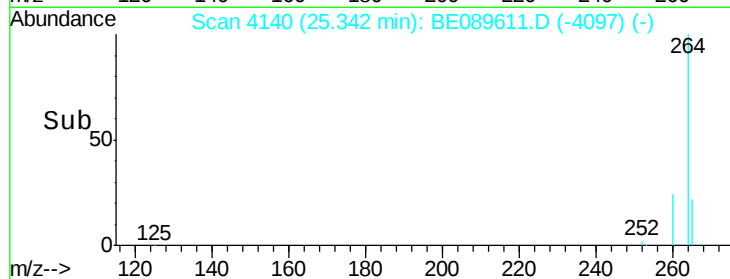
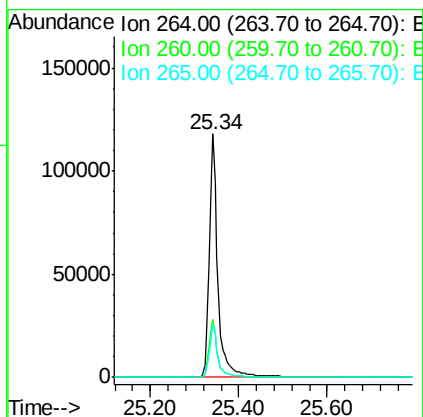
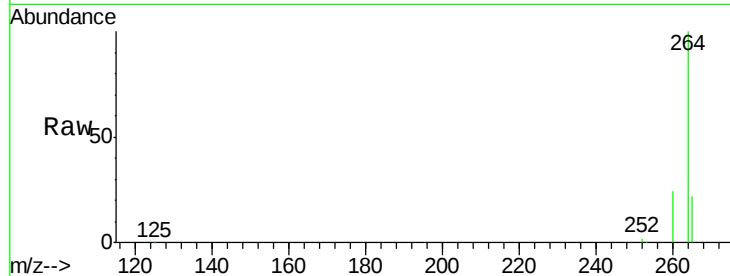




#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4140
Delta R.T. 0.00 min
Lab File: BE089611.D
Acq: 18 Feb 2015 2:12

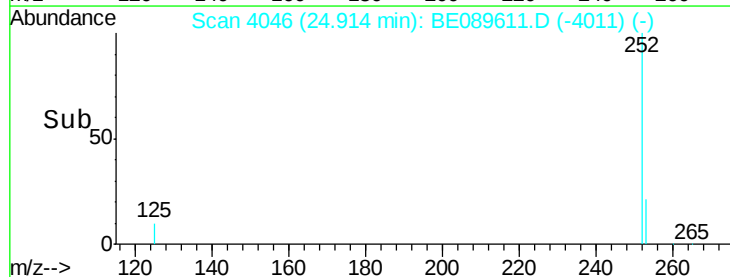
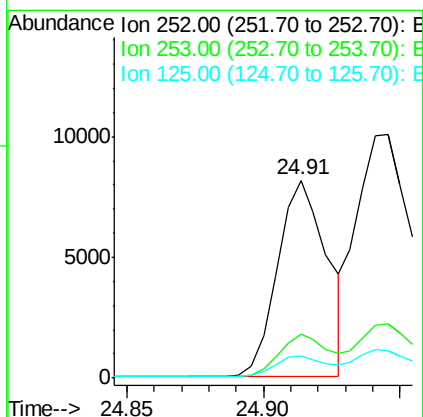
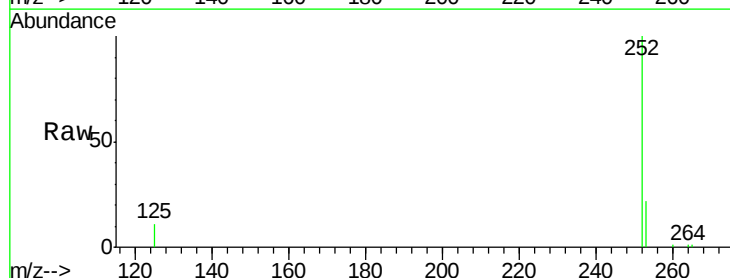
Instrument :
BNA_E
LabSampleId :
SSTDIC0.5

Tgt Ion: 264 Resp: 159721
Ion Ratio Lower Upper
264 100
260 24.0 19.0 28.6
265 21.7 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 0.33 ng
RT: 24.91 min Scan# 4046
Delta R.T. 0.00 min
Lab File: BE089611.D
Acq: 18 Feb 2015 2:12

Tgt Ion: 252 Resp: 10304
Ion Ratio Lower Upper
252 100
253 22.1 17.6 26.4
125 11.1 8.8 13.2





#27

Benzo(k)fluoranthene

Concen: 0.42 ng

RT: 24.95 min Scan# 4053

Delta R.T. 0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

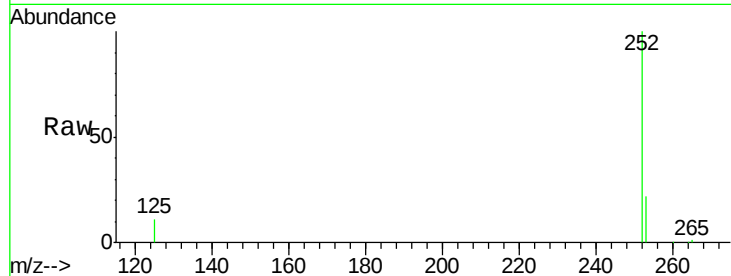
Tgt Ion:252 Resp: 21832

Ion Ratio Lower Upper

252 100

253 22.2 17.7 26.5

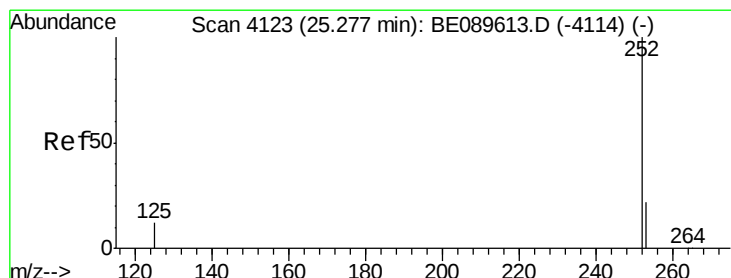
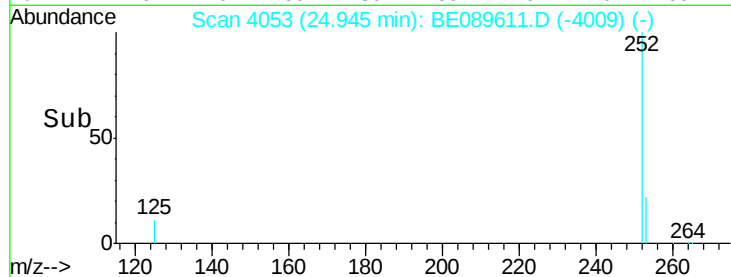
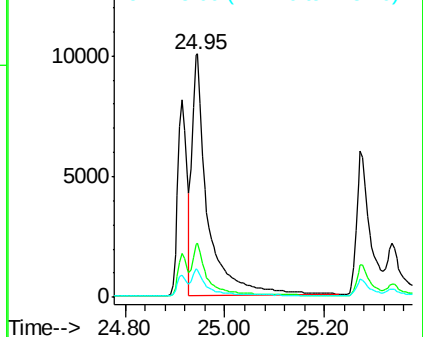
125 11.1 8.8 13.2



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



#28

Benzo(a)pyrene

Concen: 0.34 ng

RT: 25.27 min Scan# 4125

Delta R.T. -0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

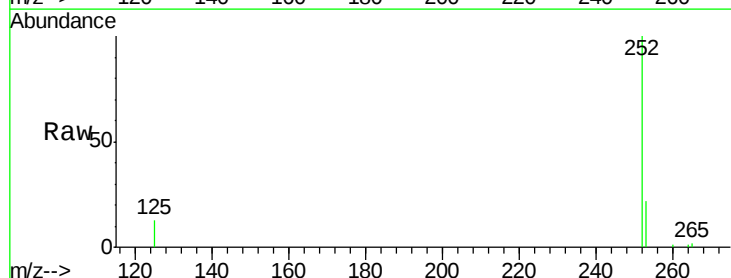
Tgt Ion:252 Resp: 10476

Ion Ratio Lower Upper

252 100

253 21.9 18.1 27.1

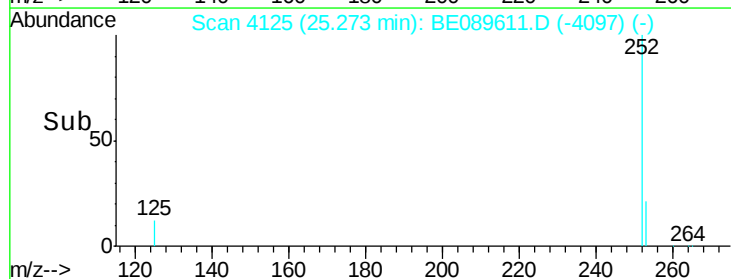
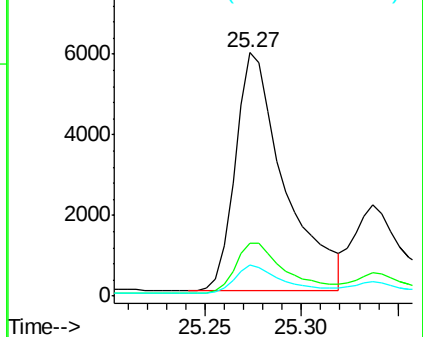
125 13.0 9.6 14.4

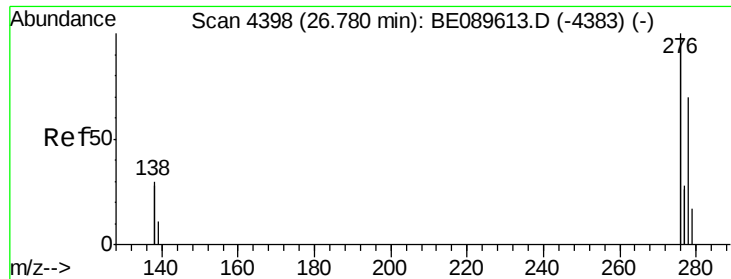


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.33 ng

RT: 26.77 min Scan# 4400

Delta R.T. -0.01 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5

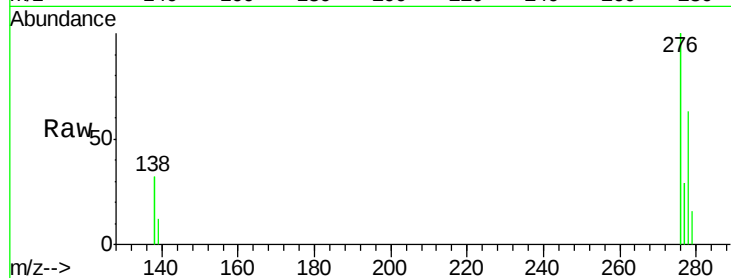
Tgt Ion:278 Resp: 10262

Ion Ratio Lower Upper

278 100

139 19.4 13.7 20.5

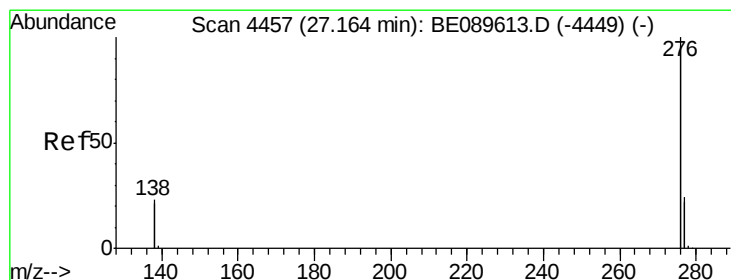
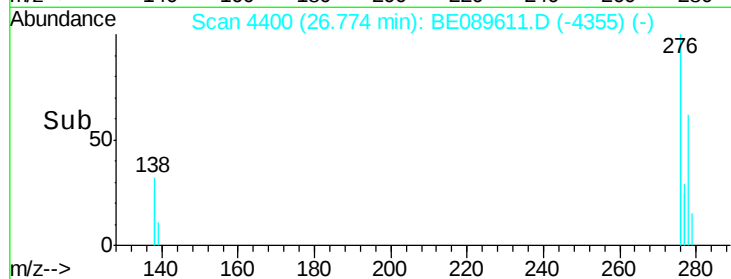
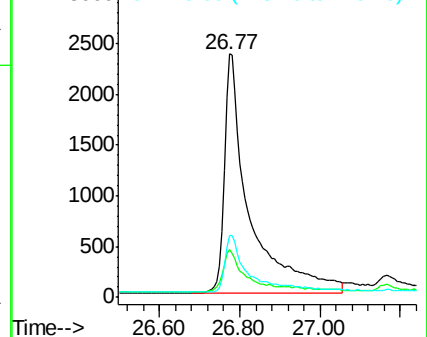
279 25.4 19.7 29.5



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



#30

Benzo(g,h,i)perylene

Concen: 0.35 ng

RT: 27.17 min Scan# 4460

Delta R.T. 0.00 min

Lab File: BE089611.D

Acq: 18 Feb 2015 2:12

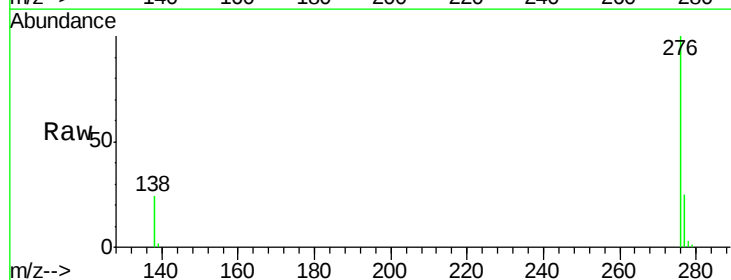
Tgt Ion:276 Resp: 51815

Ion Ratio Lower Upper

276 100

277 24.8 19.1 28.7

138 24.0 18.7 28.1



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

