

Data Path : Z:\HPCHEM1\BNA_E\Data\BE022515\
 Data File : BE089684.D
 Acq On : 25 Feb 2015 16:57
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001

Quant Time: Feb 25 23:56:45 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 14:06:35 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	23006	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	114662	5.00	ng	0.00
8) Acenaphthene-d10	16.41	164	60121	5.00	ng	0.00
13) Phenanthrene-d10	19.76	188	103808	5.00	ng	0.00
19) Chrysene-d12	23.65	240	62823	5.00	ng	0.00
25) Perylene-d12	25.34	264	39395	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	4125	0.78	ng	0.00
9) 2-Fluorobiphenyl	14.87	172	14609	1.07	ng	0.00
21) Terphenyl-d14	22.30	244	9226	1.25	ng	0.00

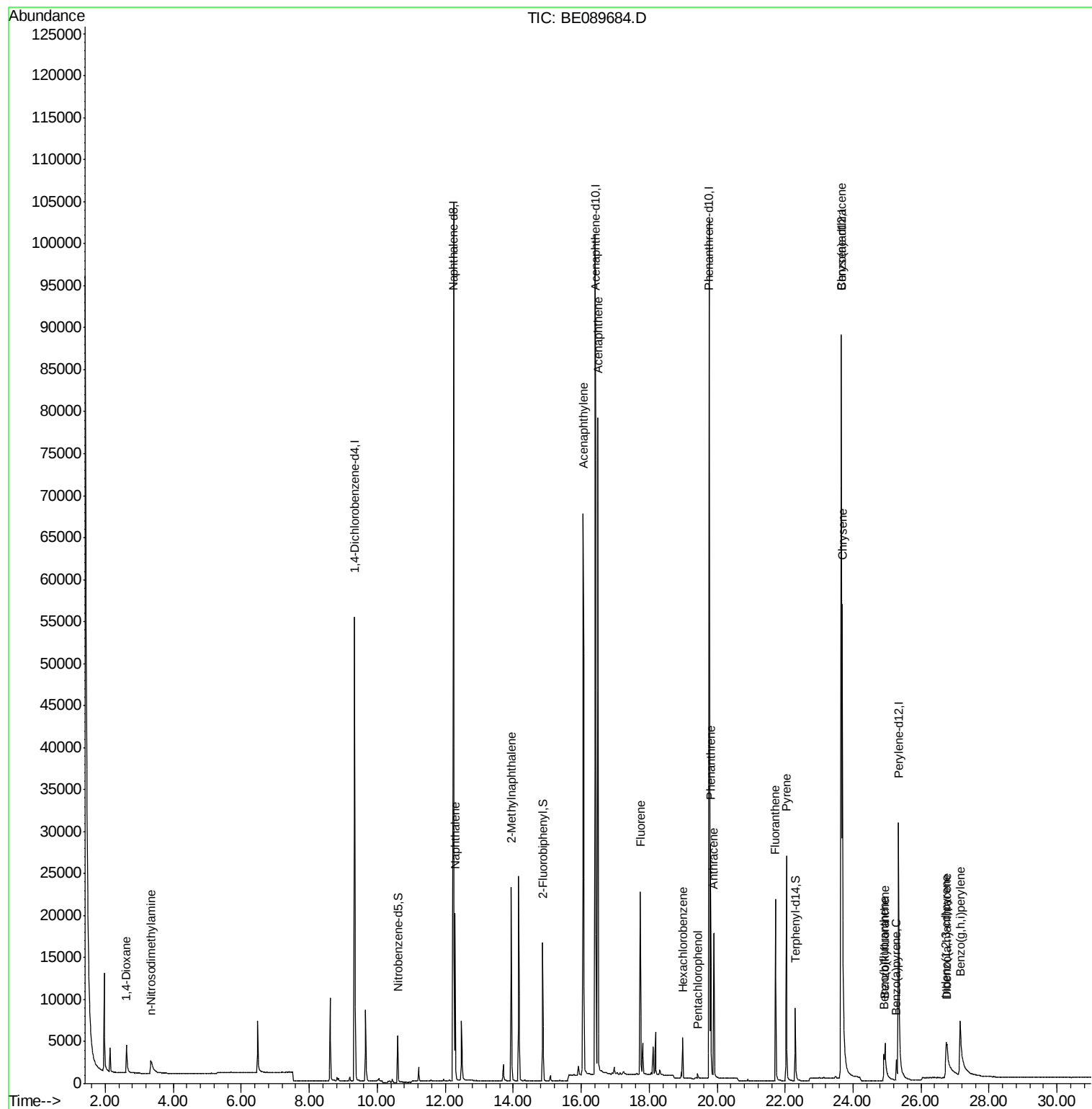
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.62	88	2653	0.92	ng	96
3) n-Nitrosodimethylamine	3.33	42	3232	0.91	ng	95
6) Naphthalene	12.29	128	22664	1.02	ng	99
7) 2-Methylnaphthalene	13.94	142	14757	1.17	ng	97
10) Acenaphthylene	16.06	152	89207	1.03	ng	100
11) Acenaphthene	16.49	154	14818	1.08	ng	99
12) Fluorene	17.74	166	16367	1.08	ng	99
14) Hexachlorobenzene	18.99	284	3094	1.15	ng	98
15) Pentachlorophenol	19.43	266	506	1.73	ng	98
16) Phenanthrene	19.81	178	24125	1.09	ng	99
17) Anthracene	19.91	178	19182	1.02	ng	100
18) Fluoranthene	21.72	202	17337	0.94	ng	99
20) Pyrene	22.04	202	19204	1.26	ng	100
22) Benzo(a)anthracene	23.65	228	38218	0.93	ng	99
23) Chrysene	23.68	228	62906	1.10	ng	99
24) Indeno(1,2,3-cd)pyrene	26.74	276	15925	0.97	ng	# 53
26) Benzo(b)fluoranthene	24.91	252	3090	1.20	ng	99
27) Benzo(k)fluoranthene	24.94	252	10403	1.11	ng	99
28) Benzo(a)pyrene	25.27	252	3501	1.11	ng	99
29) Dibenzo(a,h)anthracene	26.77	278	3004	1.20	ng	93
30) Benzo(g,h,i)perylene	27.15	276	18989	1.09	ng	98

(#) = 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# 1299

Delta R.T. -0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

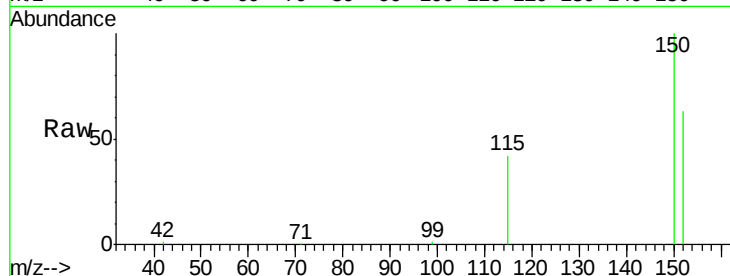
Tgt Ion:152 Resp: 23006

Ion Ratio Lower Upper

152 100

150 158.8 123.4 185.0

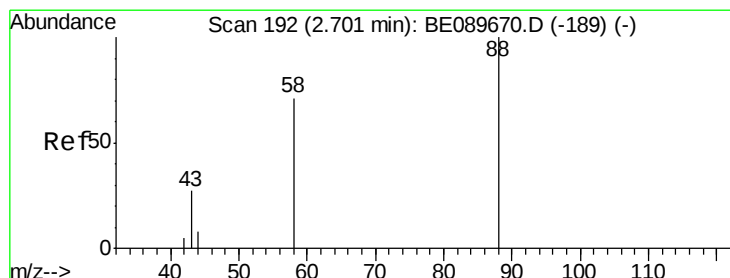
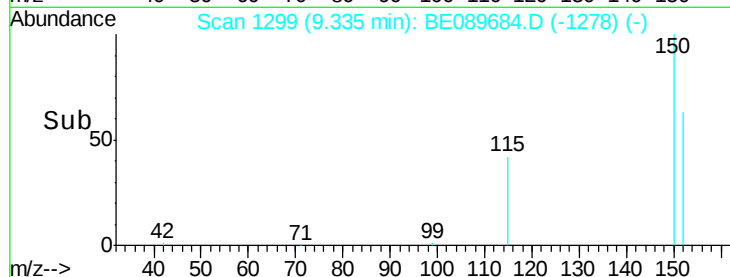
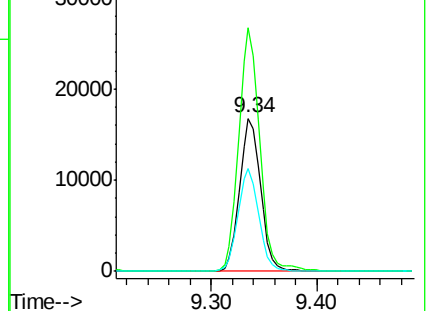
115 67.2 50.8 76.2



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: 0.92 ng

RT: 2.62 min Scan# 180

Delta R.T. -0.08 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

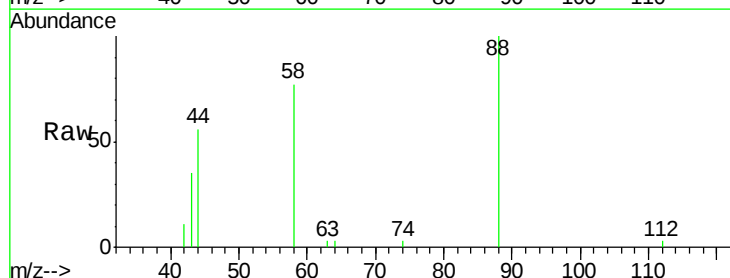
Tgt Ion: 88 Resp: 2653

Ion Ratio Lower Upper

88 100

58 82.7 62.4 93.6

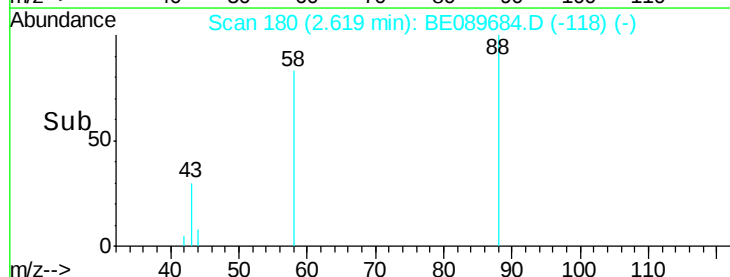
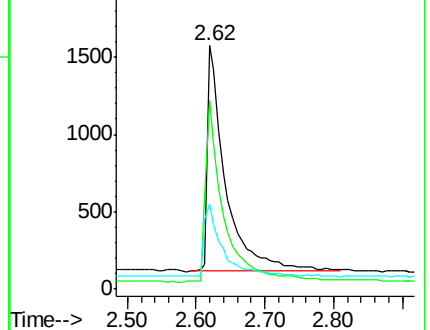
43 32.8 26.6 40.0

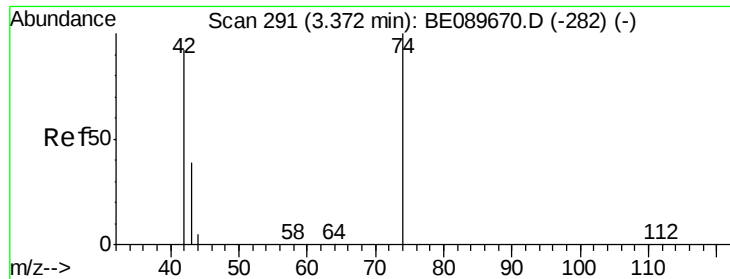


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



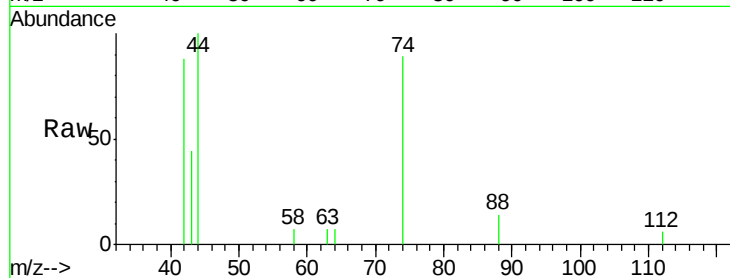


#3

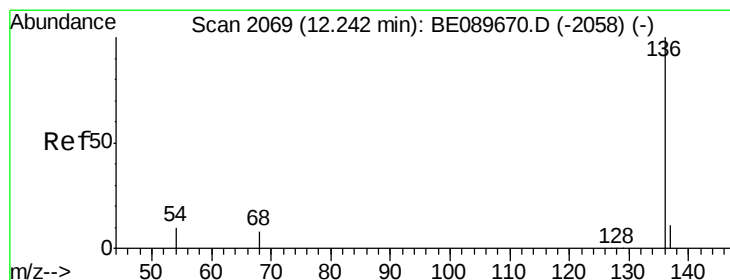
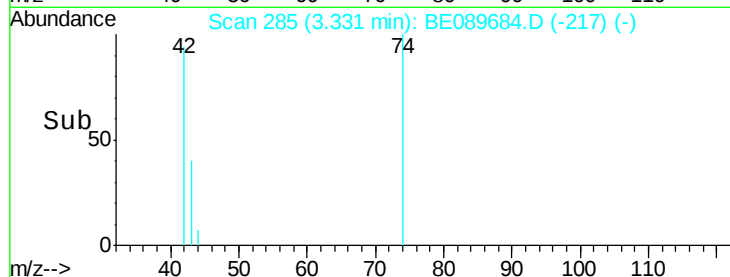
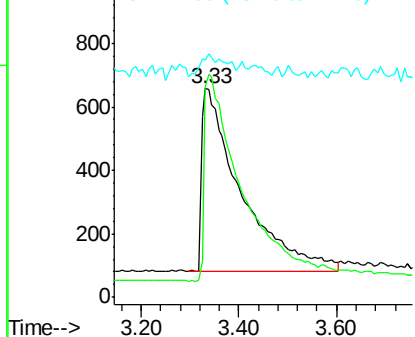
n-Nitrosodimethylamine
Concen: 0.91 ng
RT: 3.33 min Scan# 285
Delta R.T. -0.04 min
Lab File: BE089684.D
Acq: 25 Feb 2015 16:57

Instrument :
BNA_E
LabSampleId :
SSTDCCC001

Tgt Ion: 42 Resp: 3232
Ion Ratio Lower Upper
42 100
74 108.2 91.1 136.7
44 5.9 4.7 7.1



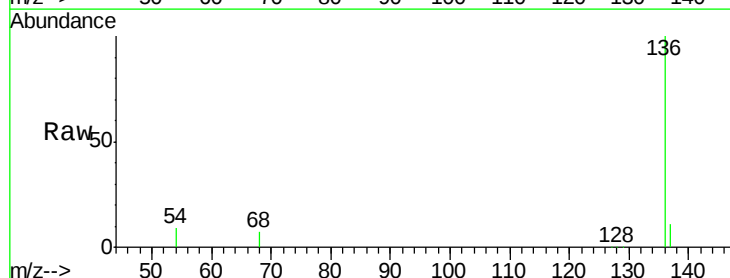
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



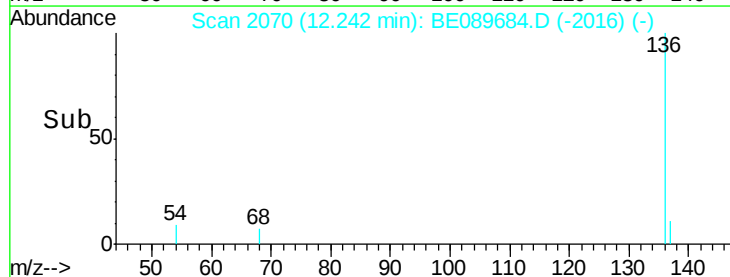
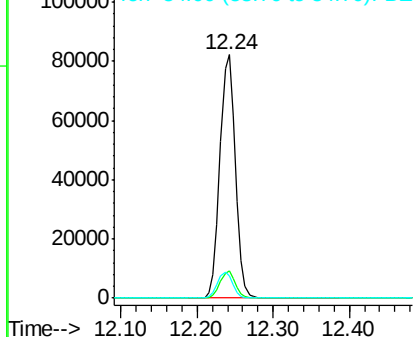
#4

Naphthalene-d8
Concen: 5.00 ng
RT: 12.24 min Scan# 2070
Delta R.T. -0.00 min
Lab File: BE089684.D
Acq: 25 Feb 2015 16:57

Tgt Ion: 136 Resp: 114662
Ion Ratio Lower Upper
136 100
137 11.0 8.7 13.1
54 9.0 7.8 11.8



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





#5

Nitrobenzene-d5

Concen: 0.78 ng

RT: 10.60 min Scan# 1667

Delta R.T. -0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

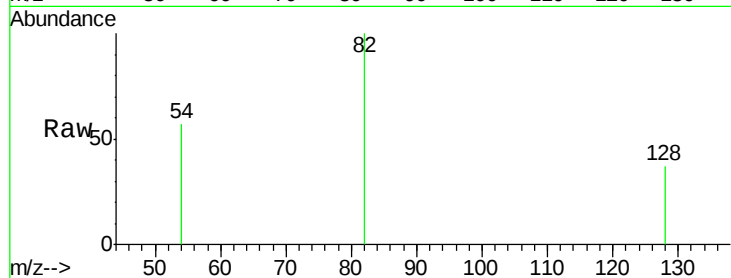
Tgt Ion: 82 Resp: 4125

Ion Ratio Lower Upper

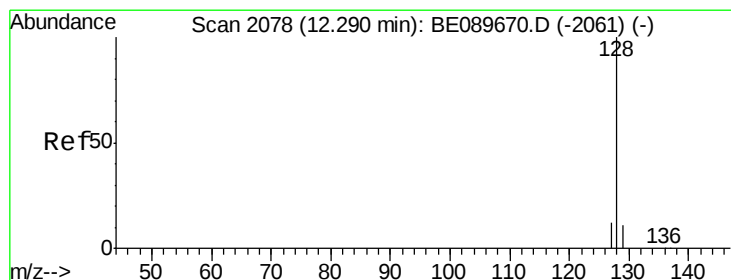
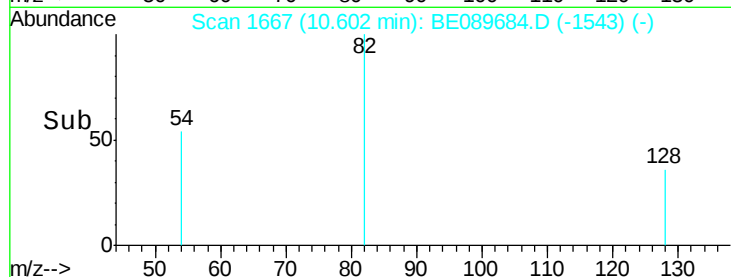
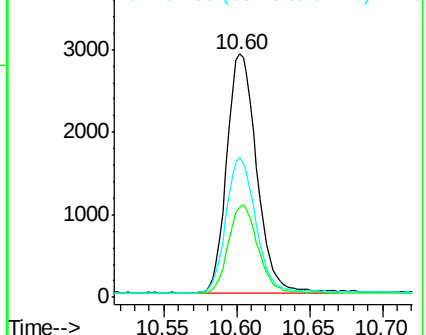
82 100

128 36.8 30.6 46.0

54 57.4 43.6 65.4



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: 1.02 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

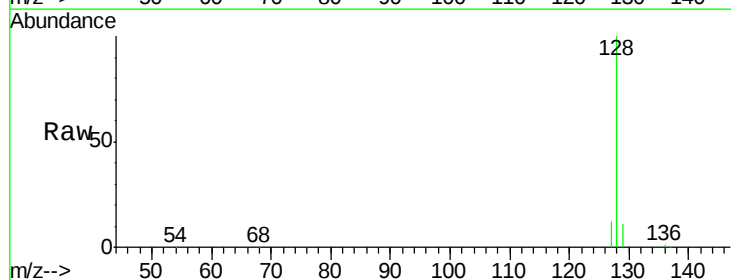
Tgt Ion: 128 Resp: 22664

Ion Ratio Lower Upper

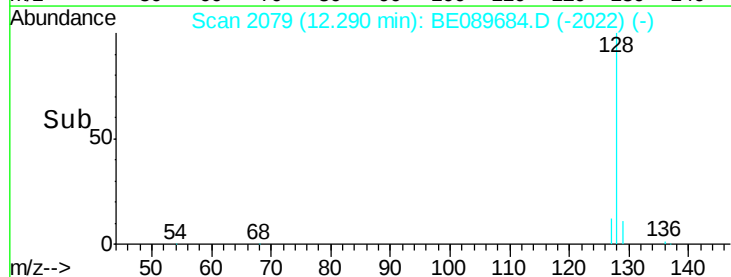
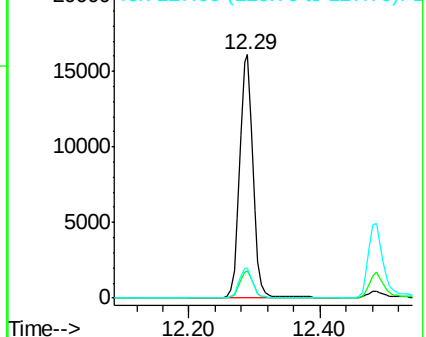
128 100

129 11.3 8.9 13.3

127 12.3 9.7 14.5



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





#7

2-Methylnaphthalene

Concen: 1.17 ng

RT: 13.94 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

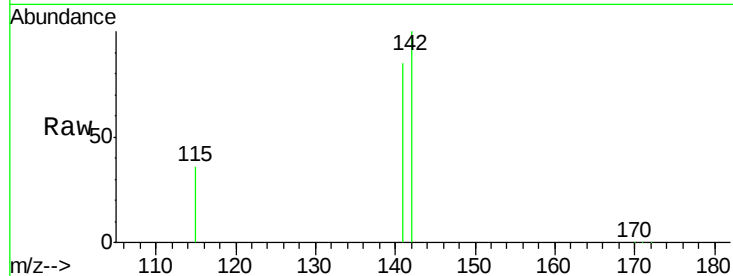
Tgt Ion:142 Resp: 14757

Ion Ratio Lower Upper

142 100

141 84.6 66.0 99.0

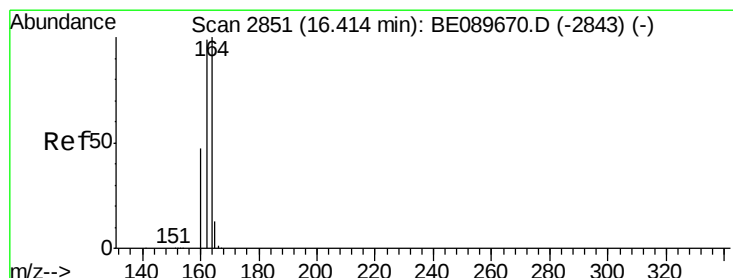
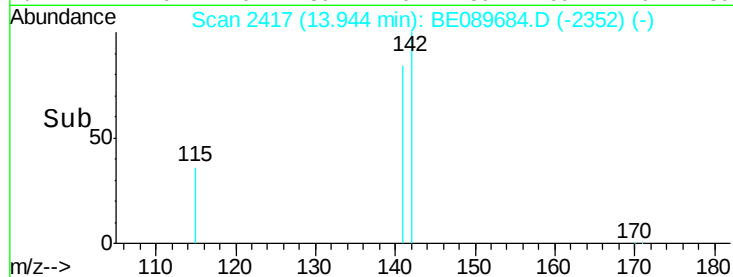
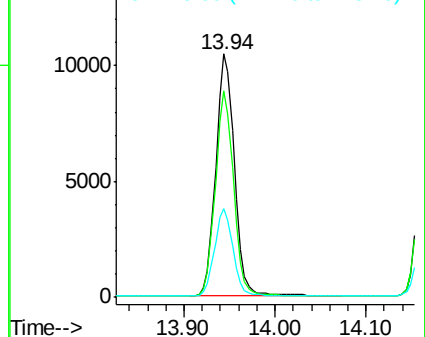
115 36.4 27.4 41.0



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.41 min Scan# 2852

Delta R.T. -0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

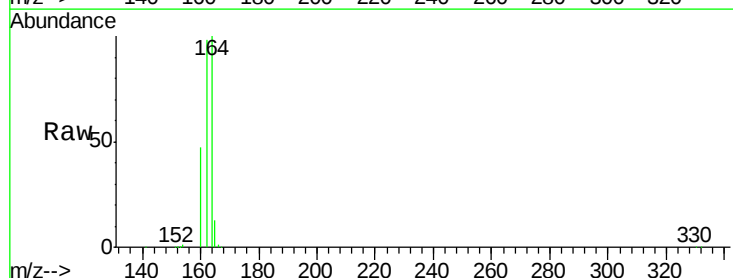
Tgt Ion:164 Resp: 60121

Ion Ratio Lower Upper

164 100

162 97.8 79.4 119.2

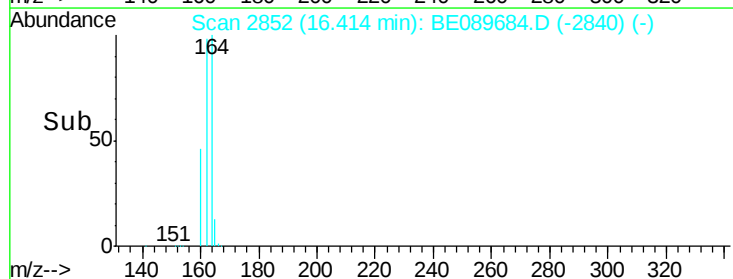
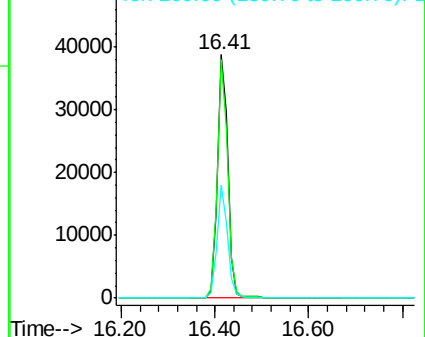
160 46.6 37.6 56.4



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





#9

2-Fluorobiphenyl

Concen: 1.07 ng

RT: 14.87 min Scan# 2621

Delta R.T. -0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

Instrument :

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LabSampleId :

SSTDCCC001

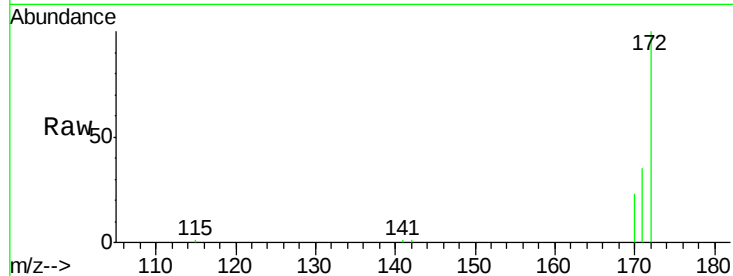
Tgt Ion:172 Resp: 14609

Ion Ratio Lower Upper

172 100

171 34.7 27.3 40.9

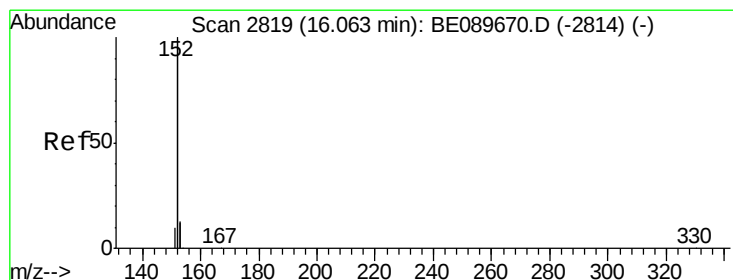
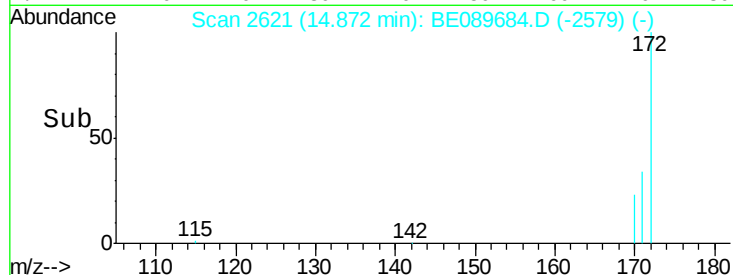
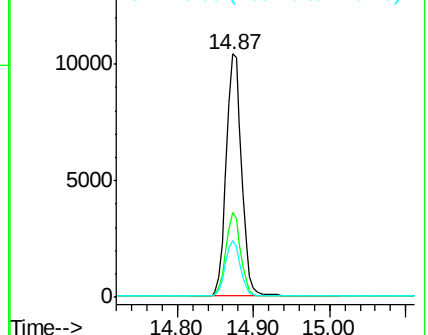
170 23.5 18.5 27.7



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: 1.03 ng

RT: 16.06 min Scan# 2820

Delta R.T. -0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

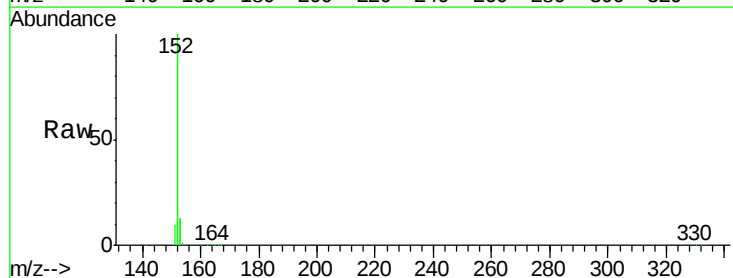
Tgt Ion:152 Resp: 89207

Ion Ratio Lower Upper

152 100

151 4.7 3.8 5.6

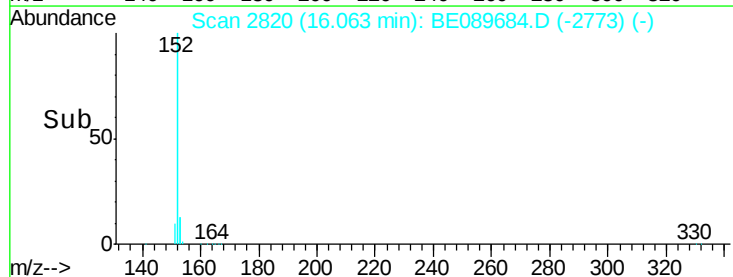
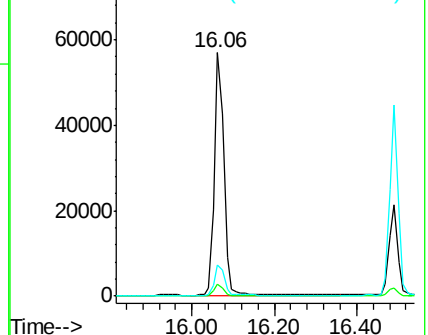
153 12.9 10.4 15.6

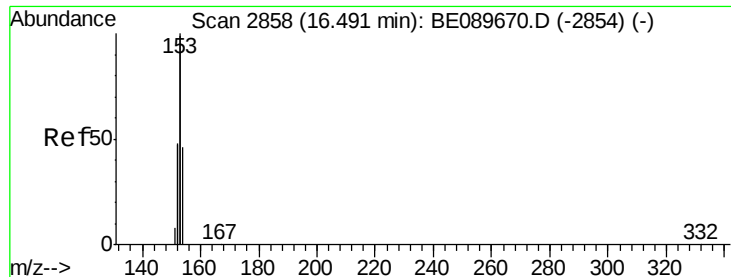


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 1.08 ng

RT: 16.49 min Scan# 2859

Delta R.T. -0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

Instrument :

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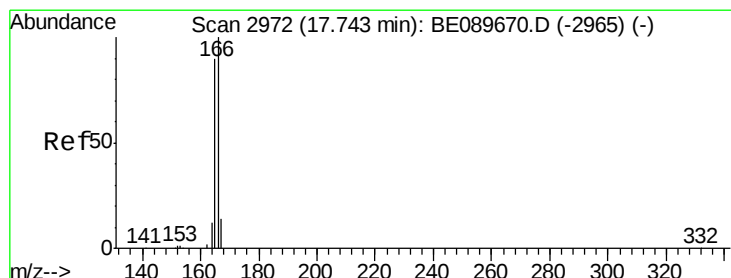
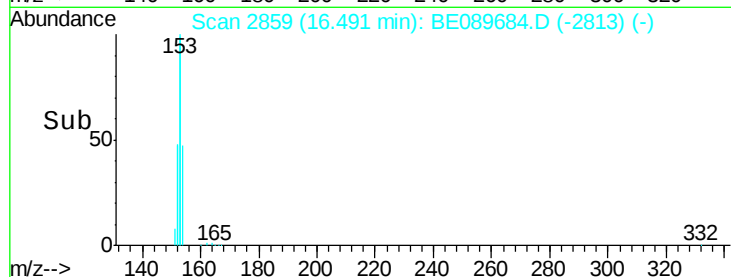
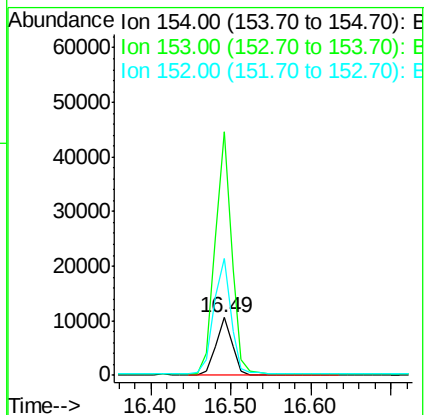
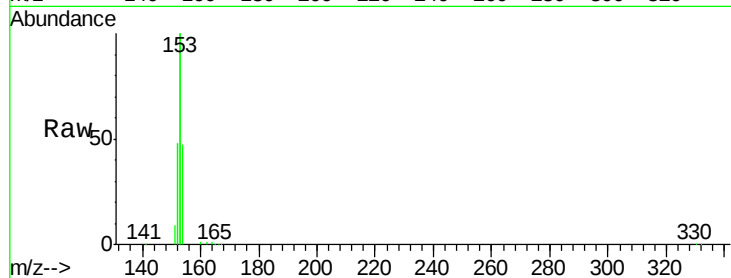
Tgt Ion:154 Resp: 14818

Ion Ratio Lower Upper

154 100

153 428.7 345.8 518.8

152 212.4 168.6 252.8



#12

Fluorene

Concen: 1.08 ng

RT: 17.74 min Scan# 2973

Delta R.T. -0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

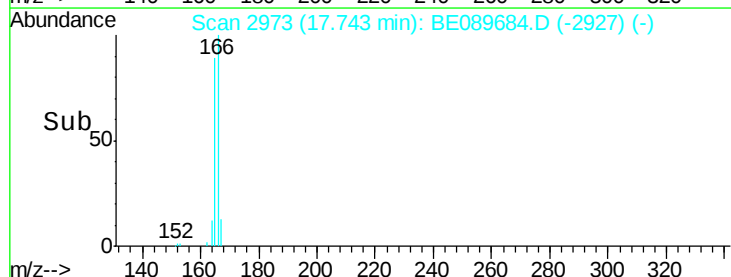
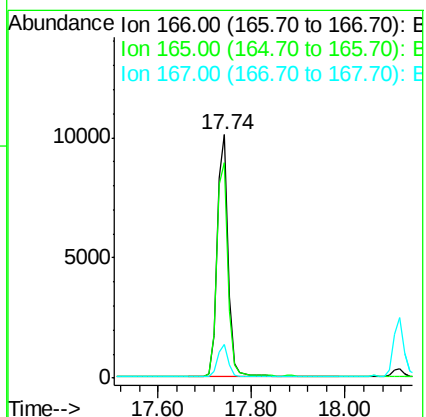
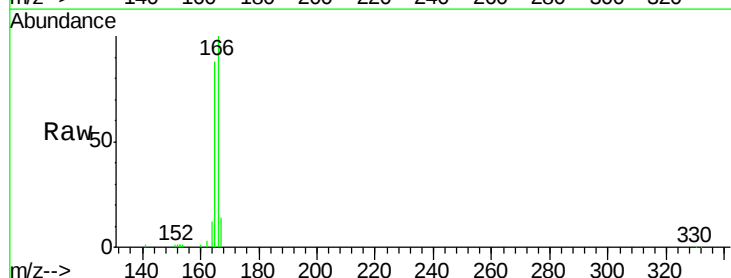
Tgt Ion:166 Resp: 16367

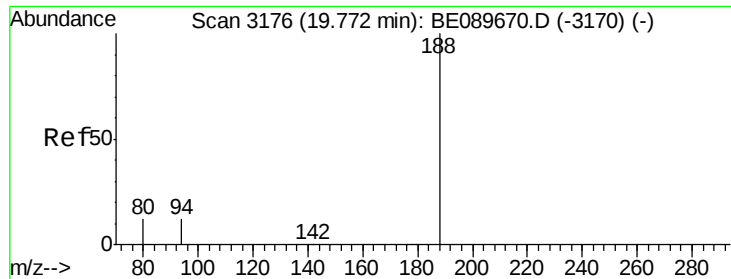
Ion Ratio Lower Upper

166 100

165 90.7 73.6 110.4

167 13.1 10.6 16.0

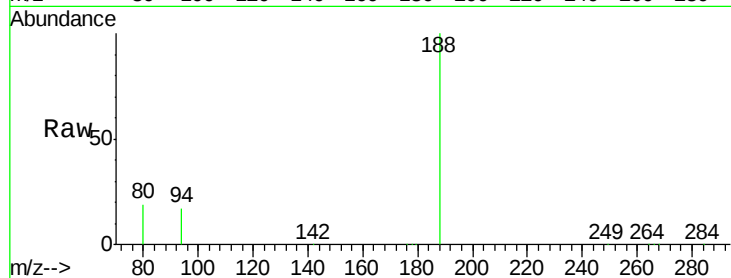




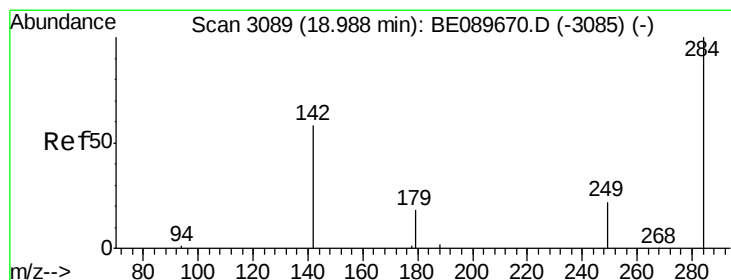
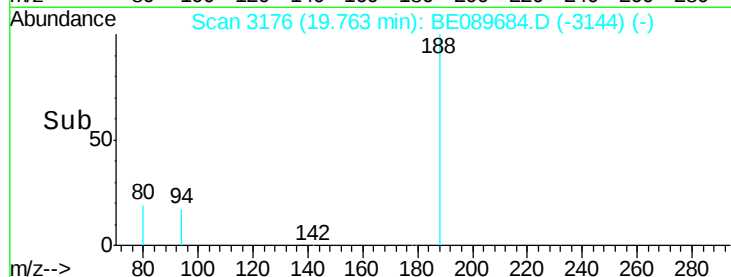
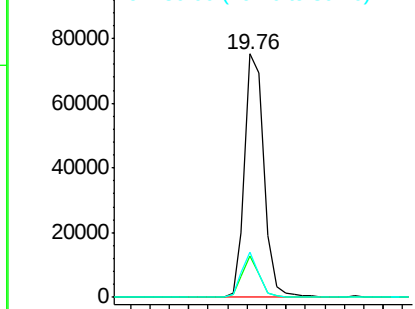
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.76 min Scan# 3176
Delta R.T. -0.01 min
Lab File: BE089684.D
Acq: 25 Feb 2015 16:57

Instrument :
BNA_E
LabSampleId :
SSTDCCC001

Tgt Ion:188 Resp: 103808
Ion Ratio Lower Upper
188 100
94 17.1 9.4 14.2#
80 18.6 9.5 14.3#

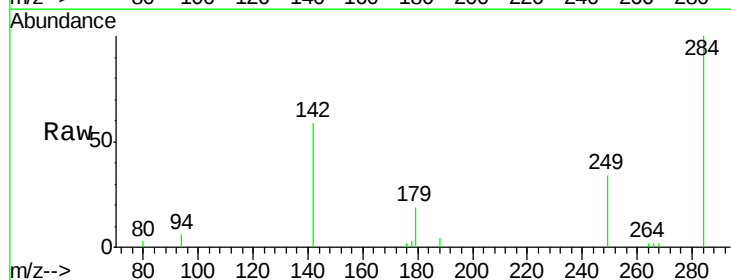


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

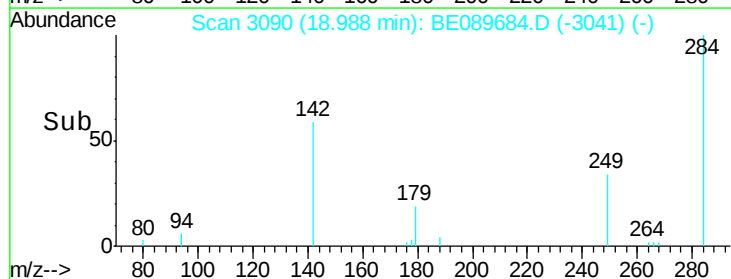
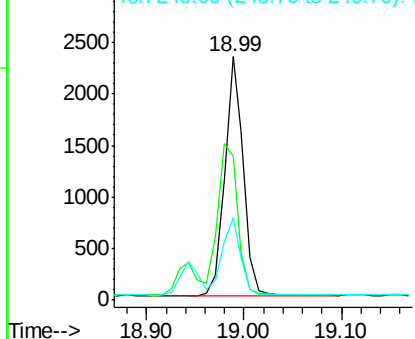


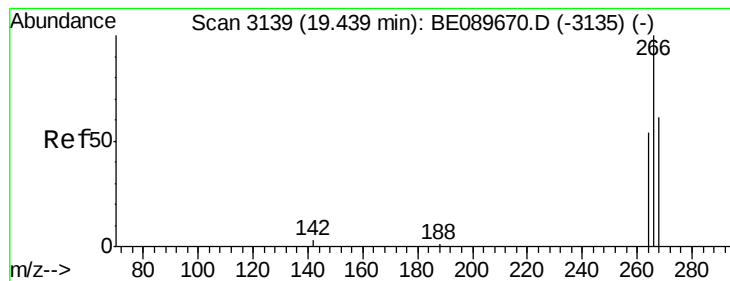
#14
Hexachlorobenzene
Concen: 1.15 ng
RT: 18.99 min Scan# 3090
Delta R.T. 0.00 min
Lab File: BE089684.D
Acq: 25 Feb 2015 16:57

Tgt Ion:284 Resp: 3094
Ion Ratio Lower Upper
284 100
142 67.7 55.4 83.2
249 32.3 27.2 40.8



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: 1.73 ng

RT: 19.43 min Scan# 3139

Delta R.T. -0.01 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

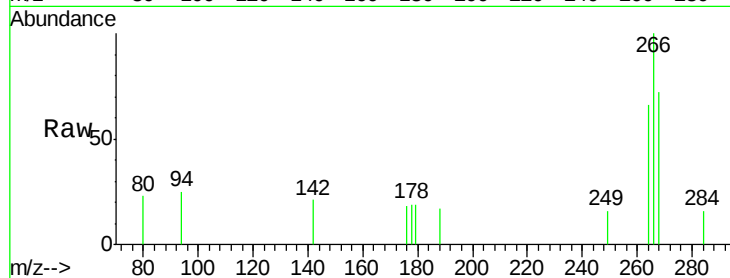
Tgt Ion:266 Resp: 506

Ion Ratio Lower Upper

266 100

268 72.3 56.3 84.5

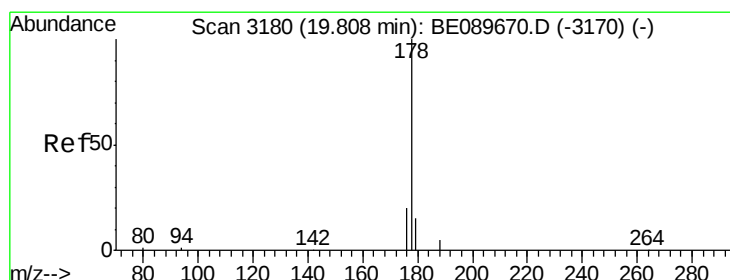
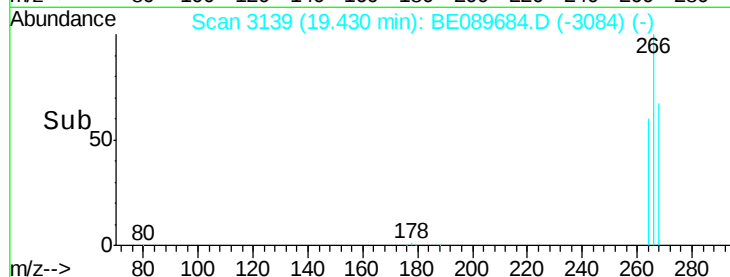
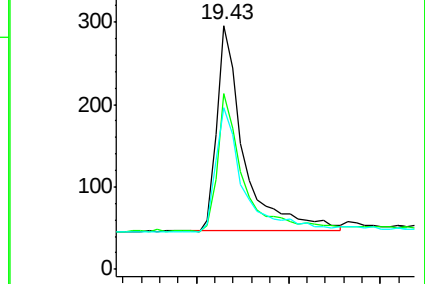
264 66.2 51.8 77.8



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: 1.09 ng

RT: 19.81 min Scan# 3181

Delta R.T. 0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

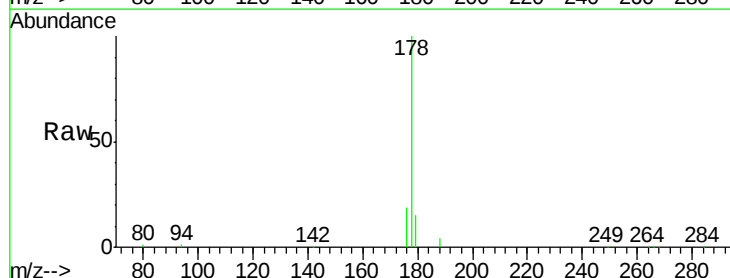
Tgt Ion:178 Resp: 24125

Ion Ratio Lower Upper

178 100

176 18.8 15.3 22.9

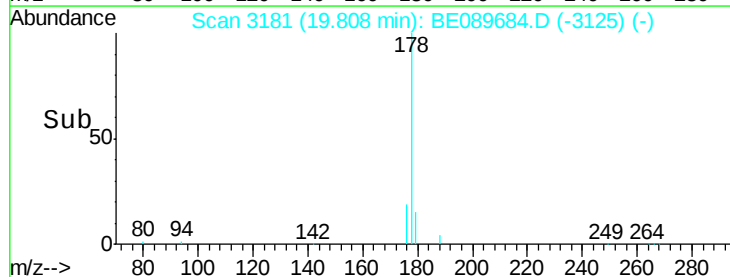
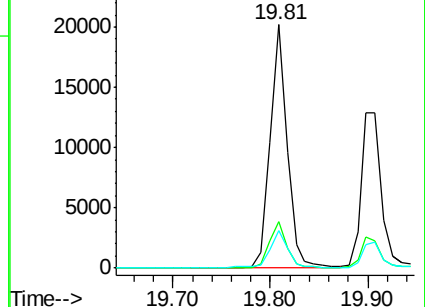
179 15.4 12.5 18.7

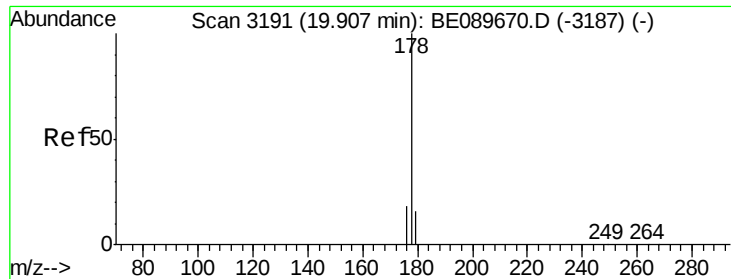


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

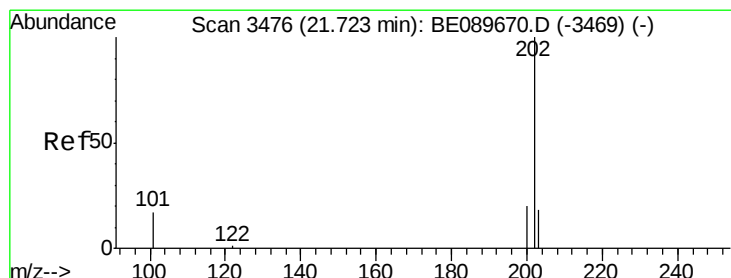
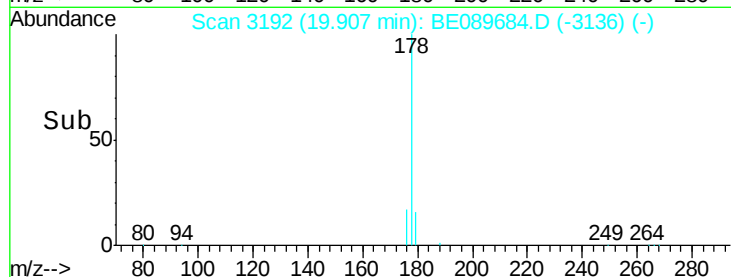
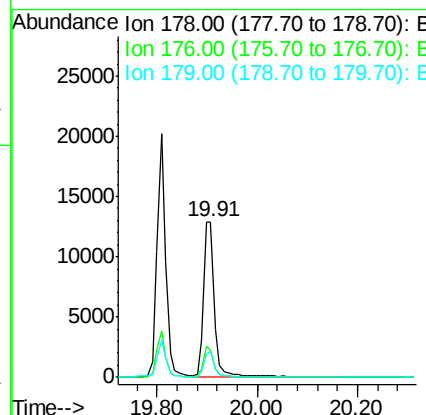
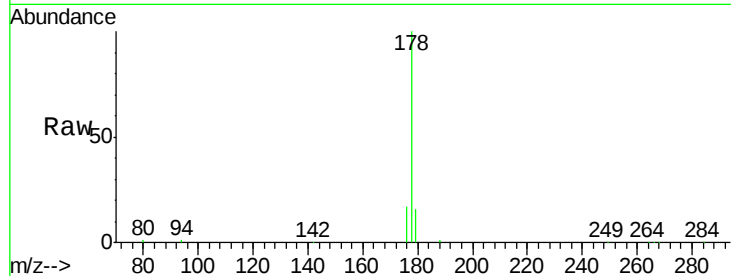




#17
 Anthracene
 Concen: 1.02 ng
 RT: 19.91 min Scan# 3192
 Delta R.T. 0.00 min
 Lab File: BE089684.D
 Acq: 25 Feb 2015 16:57

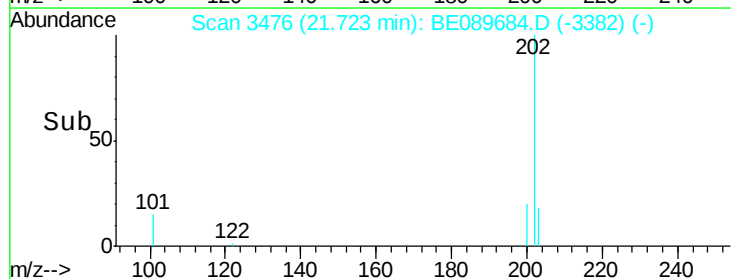
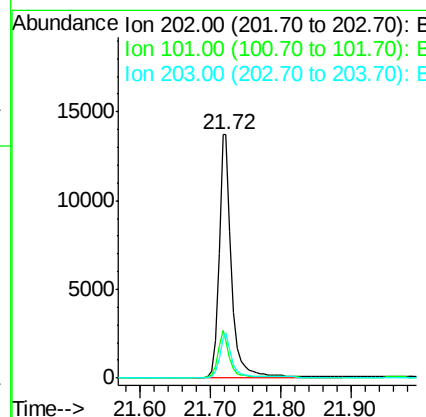
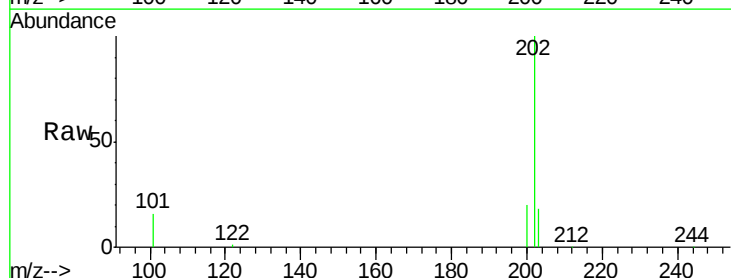
Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001

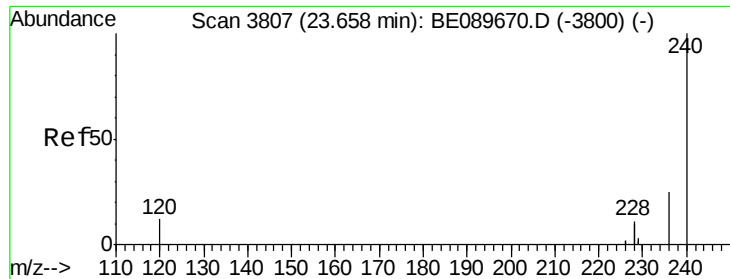
Tgt Ion:178 Resp: 19182
 Ion Ratio Lower Upper
 178 100
 176 18.4 14.8 22.2
 179 15.3 12.2 18.2



#18
 Fluoranthene
 Concen: 0.94 ng
 RT: 21.72 min Scan# 3476
 Delta R.T. -0.00 min
 Lab File: BE089684.D
 Acq: 25 Feb 2015 16:57

Tgt Ion:202 Resp: 17337
 Ion Ratio Lower Upper
 202 100
 101 17.8 14.9 22.3
 203 17.2 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.65 min Scan# 3806

Delta R.T. -0.01 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

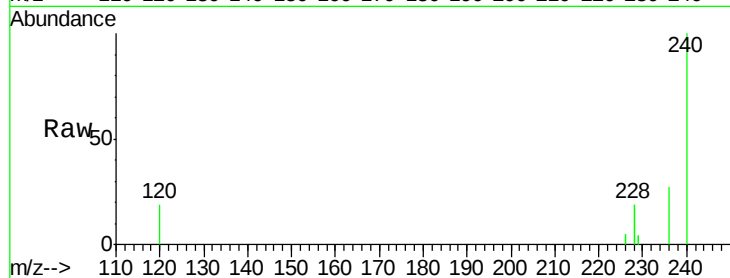
Tgt Ion:240 Resp: 62823

Ion Ratio Lower Upper

240 100

120 18.8 9.4 14.0#

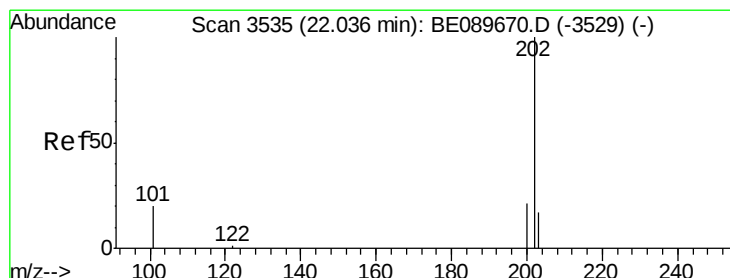
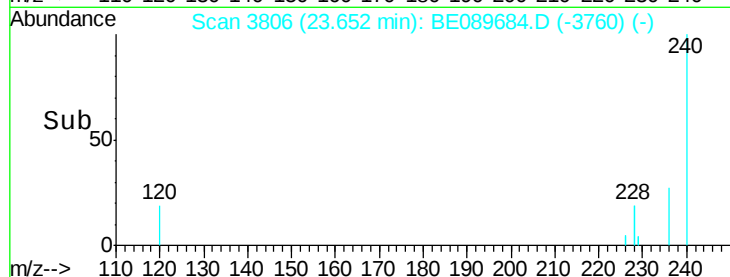
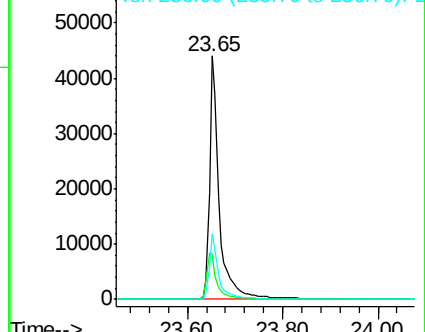
236 27.1 19.9 29.9



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: 1.26 ng

RT: 22.04 min Scan# 3535

Delta R.T. -0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

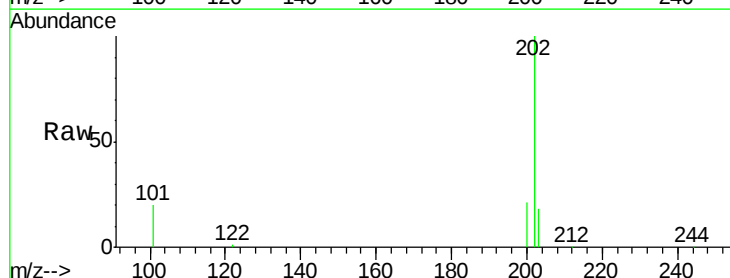
Tgt Ion:202 Resp: 19204

Ion Ratio Lower Upper

202 100

200 20.4 16.4 24.6

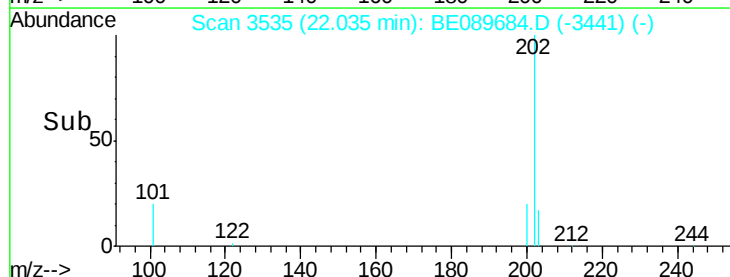
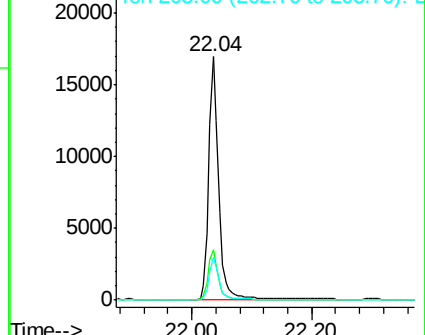
203 17.3 13.9 20.9



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: 1.25 ng

RT: 22.30 min Scan# 3585

Delta R.T. -0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

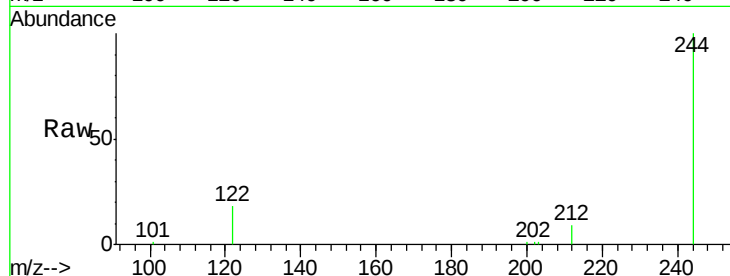
Tgt Ion:244 Resp: 9226

Ion Ratio Lower Upper

244 100

212 8.7 7.0 10.6

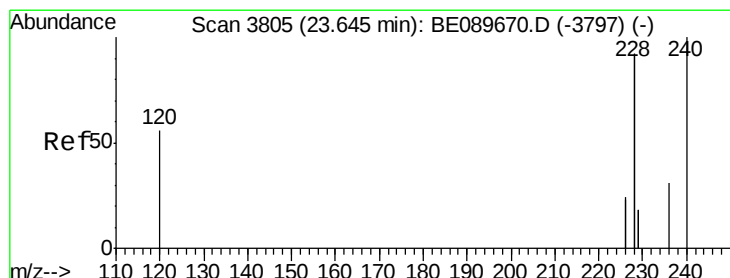
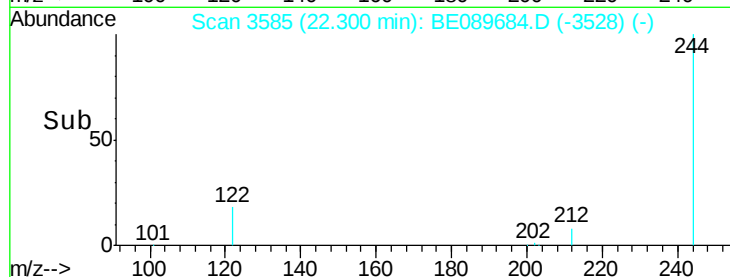
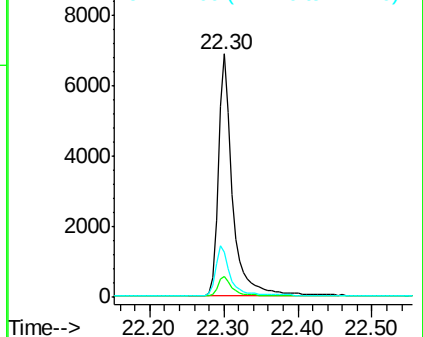
122 18.3 15.4 23.0



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: 0.93 ng

RT: 23.65 min Scan# 3805

Delta R.T. 0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

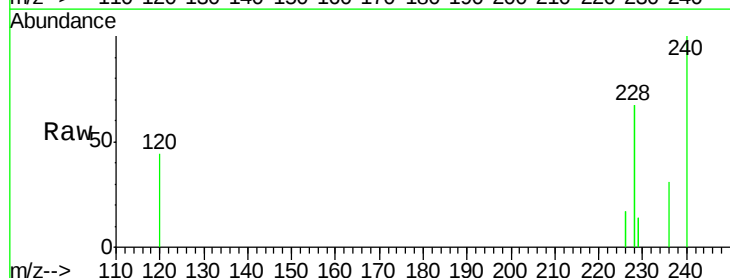
Tgt Ion:228 Resp: 38218

Ion Ratio Lower Upper

228 100

226 25.6 20.6 31.0

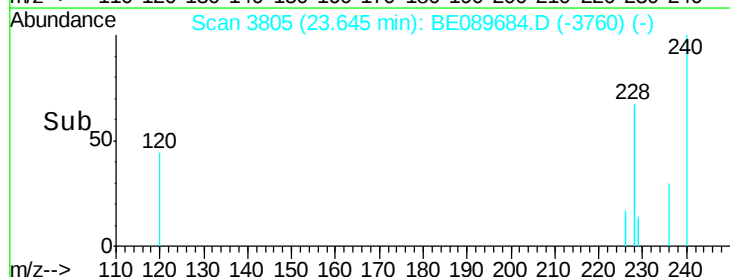
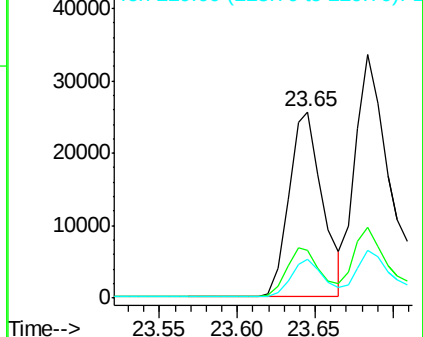
229 20.8 15.8 23.6



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: 1.10 ng

RT: 23.68 min Scan# 3811

Delta R.T. 0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

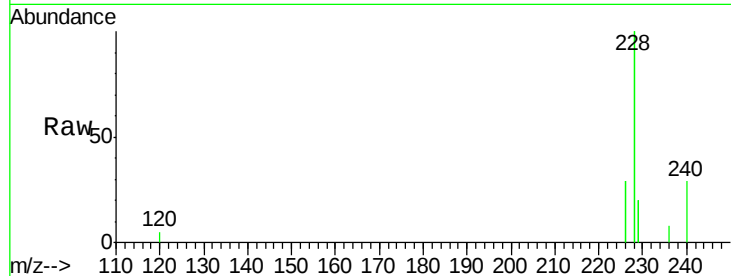
Tgt Ion:228 Resp: 62906

Ion Ratio Lower Upper

228 100

226 29.0 23.6 35.4

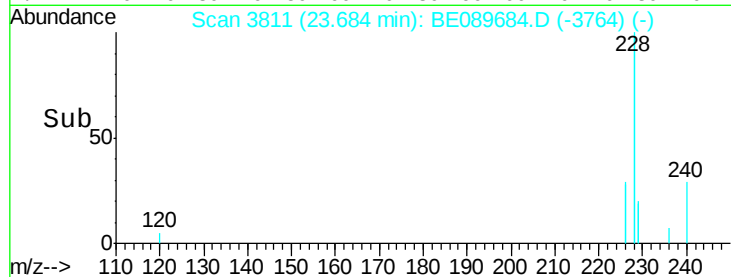
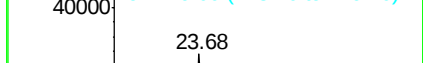
229 19.7 15.3 22.9



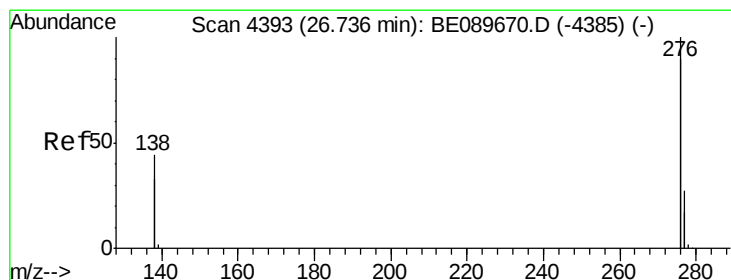
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.97 ng

RT: 26.74 min Scan# 4393

Delta R.T. 0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

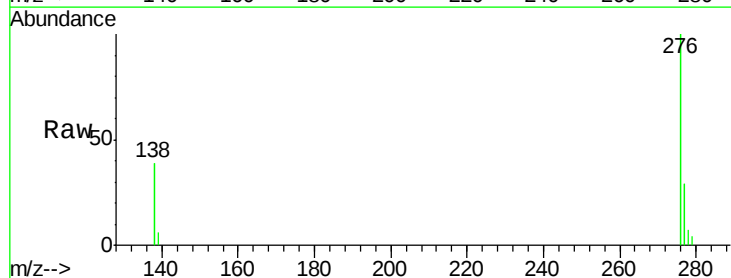
Tgt Ion:276 Resp: 15925

Ion Ratio Lower Upper

276 100

138 11.9 0.0 0.0#

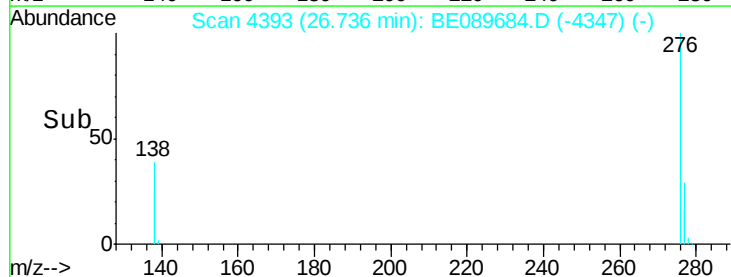
277 22.6 5.2 7.8#



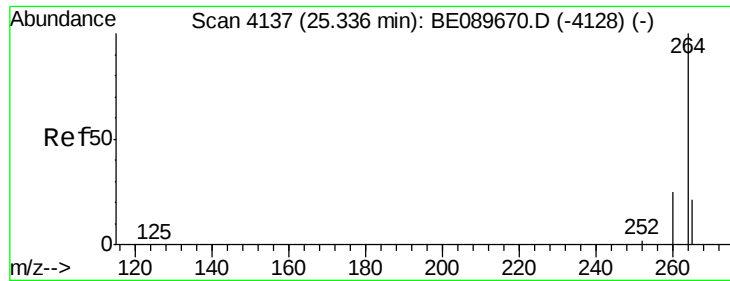
Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



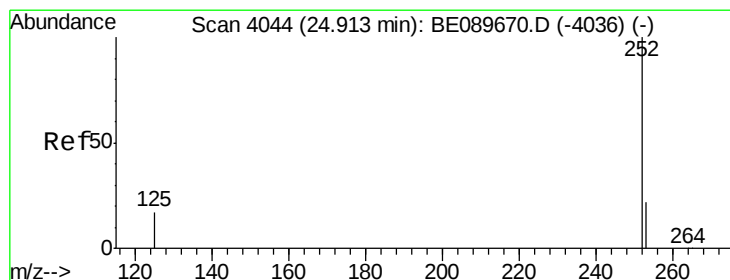
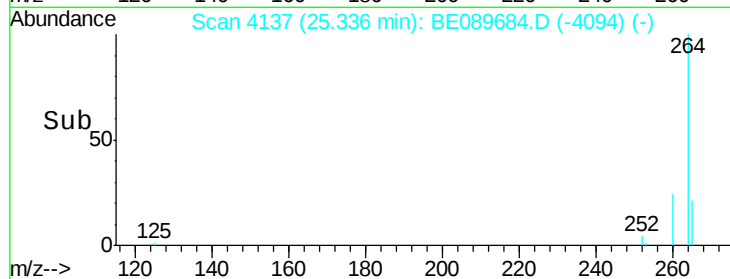
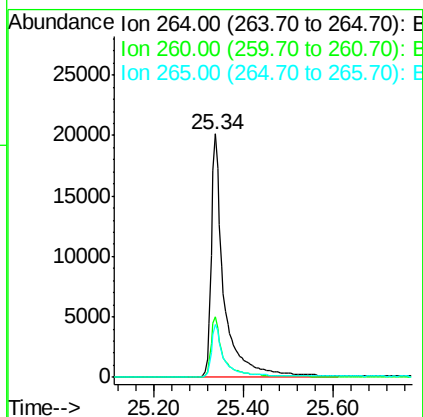
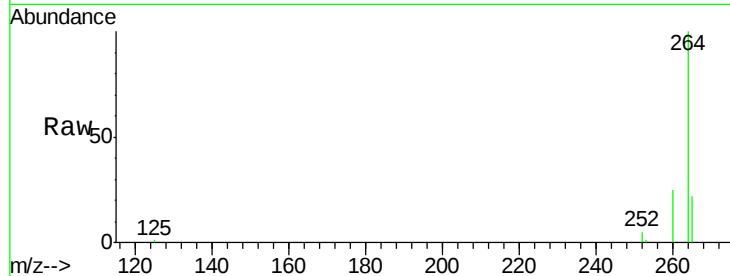
Time-->



#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4137
 Delta R.T. 0.00 min
 Lab File: BE089684.D
 Acq: 25 Feb 2015 16:57

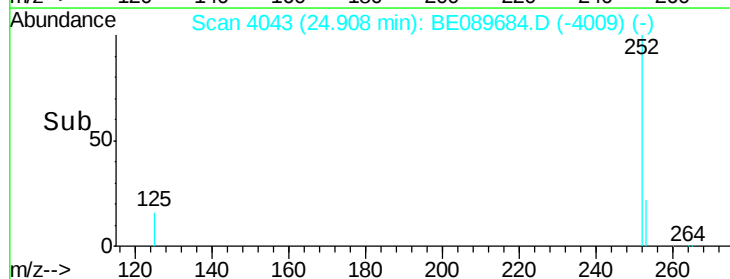
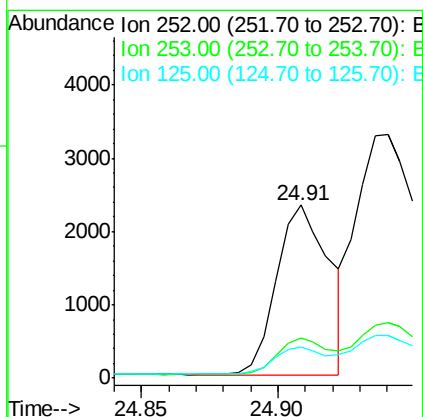
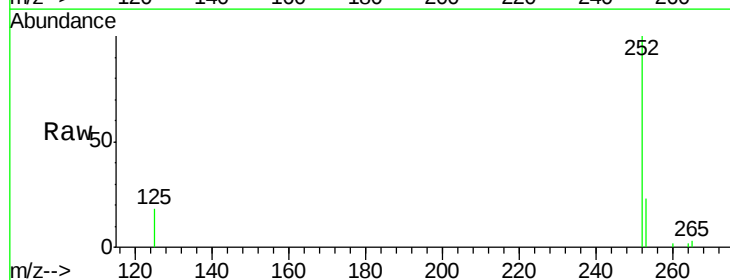
Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001

Tgt Ion: 264 Resp: 39395
 Ion Ratio Lower Upper
 264 100
 260 24.7 20.2 30.4
 265 21.8 17.0 25.4



#26
 Benzo(b)fluoranthene
 Concen: 1.20 ng
 RT: 24.91 min Scan# 4043
 Delta R.T. -0.00 min
 Lab File: BE089684.D
 Acq: 25 Feb 2015 16:57

Tgt Ion: 252 Resp: 3090
 Ion Ratio Lower Upper
 252 100
 253 23.4 18.6 27.8
 125 18.2 15.0 22.6





#27

Benzo(k)fluoranthene

Concen: 1.11 ng

RT: 24.94 min Scan# 4050

Delta R.T. 0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

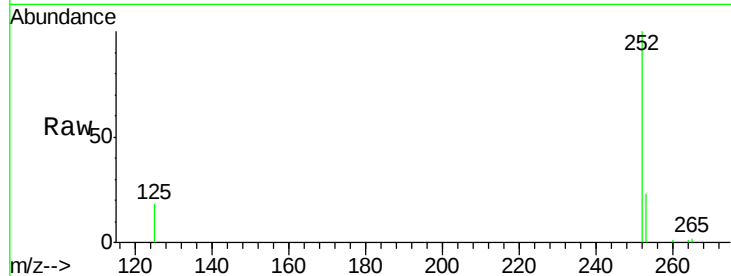
Tgt Ion:252 Resp: 10403

Ion Ratio Lower Upper

252 100

253 23.0 18.0 27.0

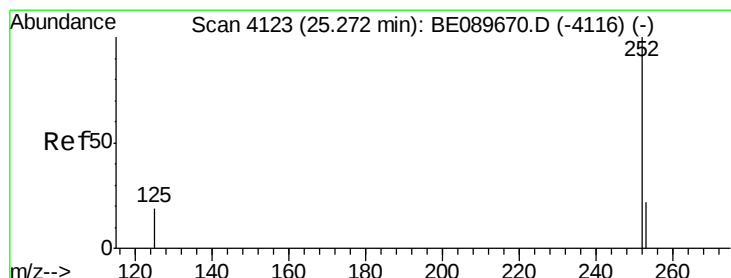
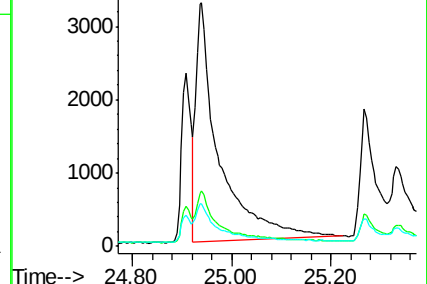
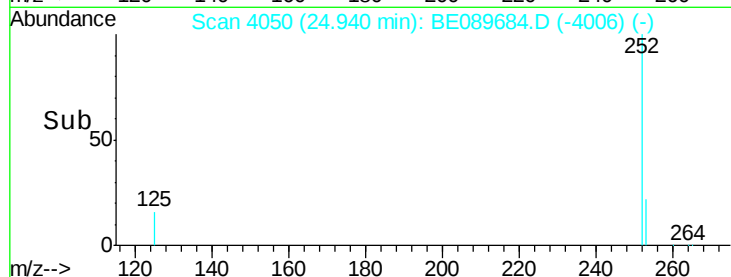
125 17.7 14.3 21.5



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: 1.11 ng

RT: 25.27 min Scan# 4122

Delta R.T. -0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

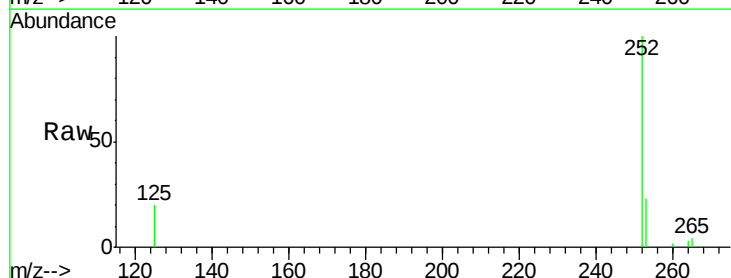
Tgt Ion:252 Resp: 3501

Ion Ratio Lower Upper

252 100

253 23.1 18.8 28.2

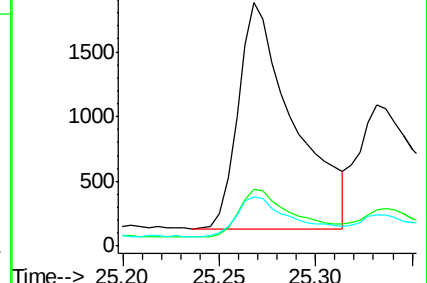
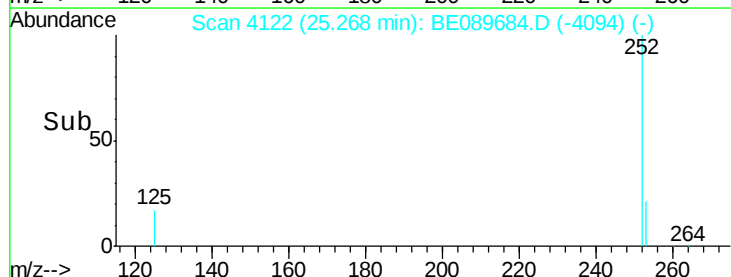
125 20.2 16.6 24.8



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: 1.20 ng

RT: 26.77 min Scan# 4398

Delta R.T. 0.00 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

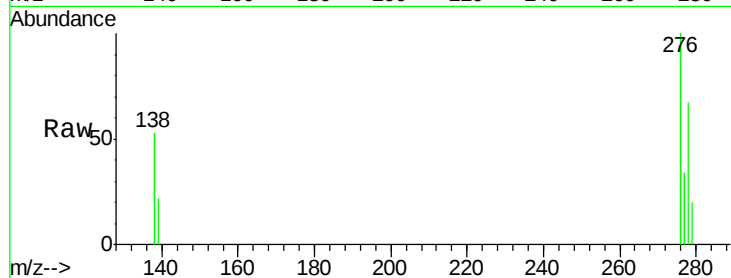
Tgt Ion: 278 Resp: 3004

Ion Ratio Lower Upper

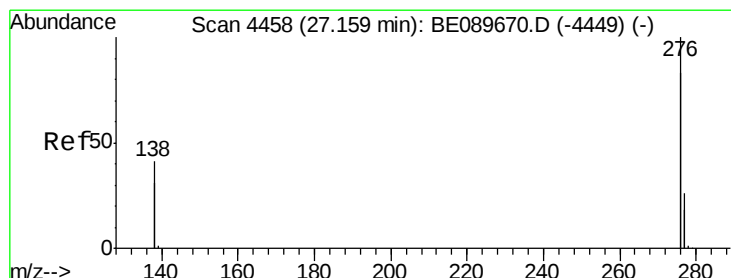
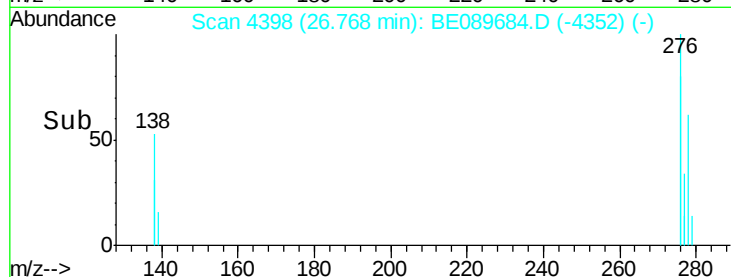
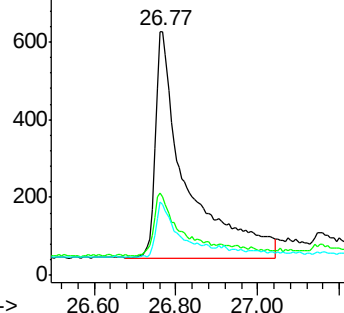
278 100

139 32.1 30.4 45.6

279 29.1 22.0 33.0



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



#30

Benzo(g,h,i)perylene

Concen: 1.09 ng

RT: 27.15 min Scan# 4457

Delta R.T. -0.01 min

Lab File: BE089684.D

Acq: 25 Feb 2015 16:57

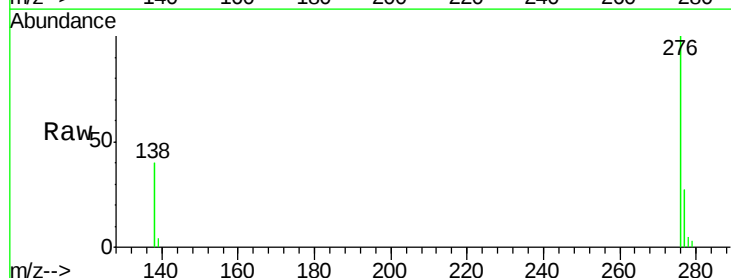
Tgt Ion: 276 Resp: 18989

Ion Ratio Lower Upper

276 100

277 27.4 21.0 31.6

138 40.4 33.0 49.4



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

