

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089673.D
 Acq On : 24 Feb 2015 16:21
 Operator : TP/JJ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC010

Quant Time: Feb 24 17:06:42 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 24 16:10:11 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	46946	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	202056	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	92041	5.00	ng	0.01
13) Phenanthrene-d10	19.77	188	161469	5.00	ng	0.00
19) Chrysene-d12	23.66	240	138864	5.00	ng	0.00
25) Perylene-d12	25.34	264	103139	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	122868	10.92	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	205699	8.46	ng	0.00
21) Terphenyl-d14	22.30	244	179632	11.19	ng	0.00

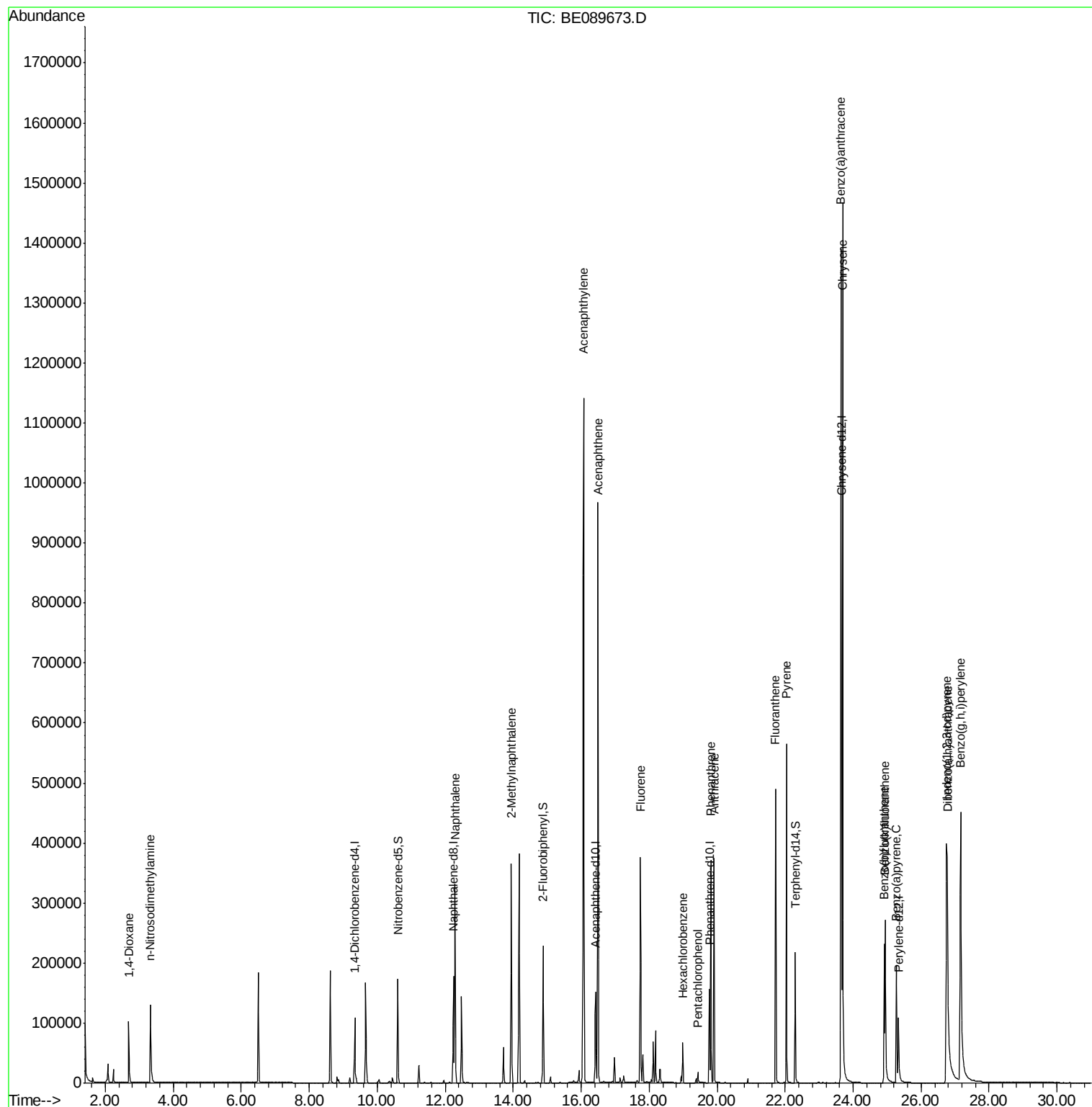
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.69	88	56003	9.45	ng	99
3) n-Nitrosodimethylamine	3.32	42	79443	11.21	ng	93
6) Naphthalene	12.29	128	389692	9.96	ng	99
7) 2-Methylnaphthalene	13.95	142	243900	11.14	ng	99
10) Acenaphthylene	16.07	152	1469019	11.30	ng	100
11) Acenaphthene	16.50	154	214419	10.28	ng	98
12) Fluorene	17.74	166	246280	10.70	ng	100
14) Hexachlorobenzene	19.00	284	43037	10.34	ng	98
15) Pentachlorophenol	19.43	266	12917	28.80	ng	93
16) Phenanthrene	19.81	178	350320	10.19	ng	99
17) Anthracene	19.91	178	341956	11.95	ng	100
18) Fluoranthene	21.72	202	340725	12.17	ng	99
20) Pyrene	22.04	202	364756	11.00	ng	99
22) Benzo(a)anthracene	23.64	228	1140481	12.95	ng	99
23) Chrysene	23.69	228	1182275	9.31	ng	96
24) Indeno(1,2,3-cd)pyrene	26.75	276	866449	23.32	ng	# 46
26) Benzo(b)fluoranthene	24.91	252	190022	25.98	ng	96
27) Benzo(k)fluoranthene	24.94	252	298559	13.59	ng	98
28) Benzo(a)pyrene	25.27	252	190966	22.23	ng	95
29) Dibenzo(a,h)anthracene	26.77	278	168468	26.84	ng	# 87
30) Benzo(g,h,i)perylene	27.16	276	746580	17.88	ng	93

(#) = 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: BE089673.D

Acq: 24 Feb 2015 16:21

Instrument :

BNA_E

LabSampleId :

SSTDIC010

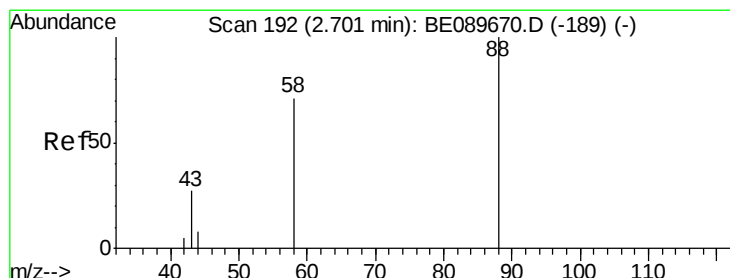
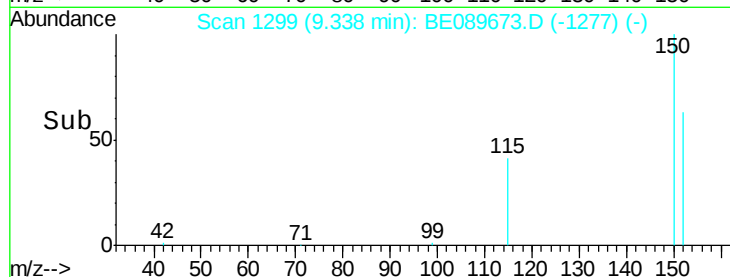
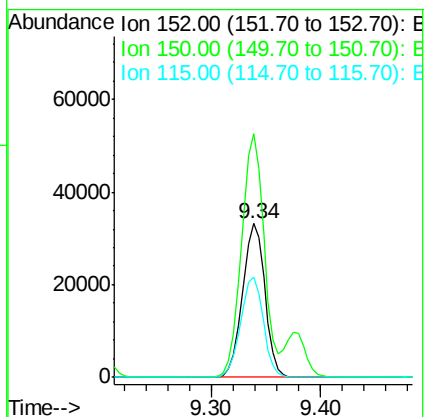
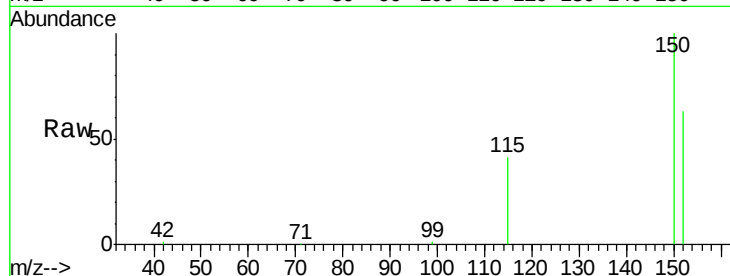
Tgt Ion:152 Resp: 46946

Ion Ratio Lower Upper

152 100

150 158.4 123.4 185.0

115 65.6 50.8 76.2



#2

1,4-Dioxane

Concen: 9.45 ng

RT: 2.69 min Scan# 190

Delta R.T. -0.01 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

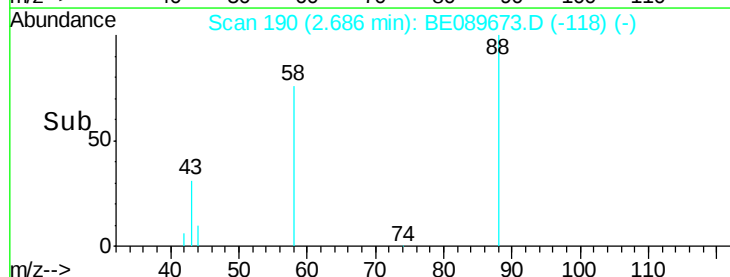
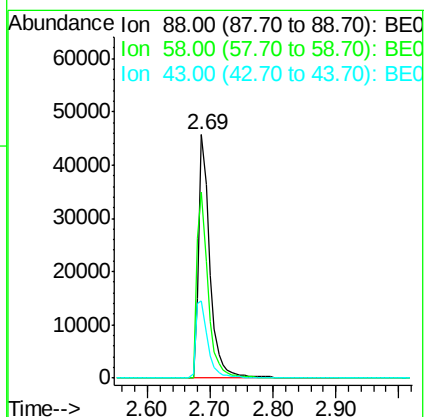
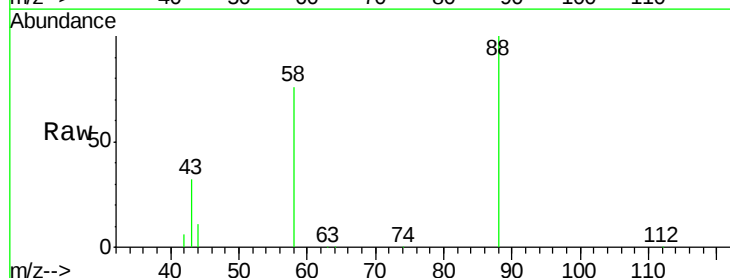
Tgt Ion: 88 Resp: 56003

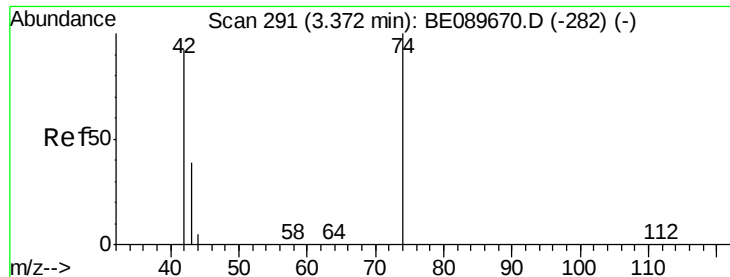
Ion Ratio Lower Upper

88 100

58 77.4 62.4 93.6

43 33.7 26.6 40.0



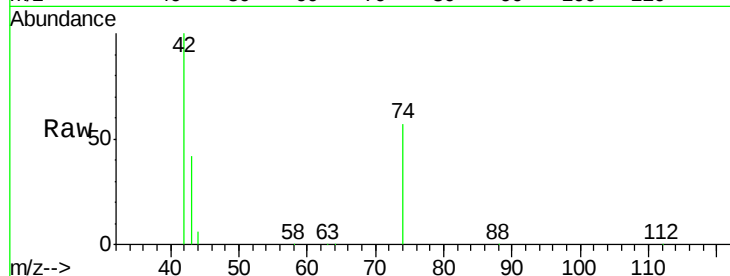


#3

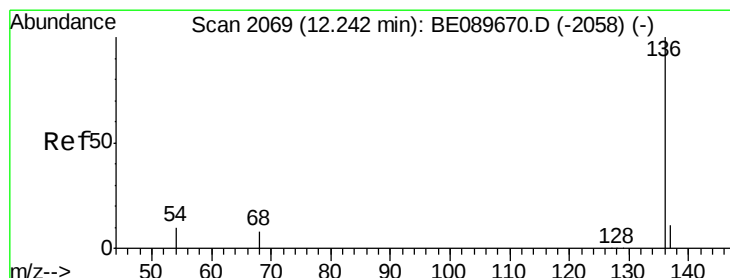
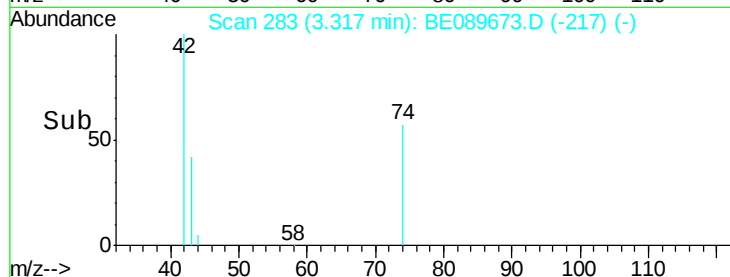
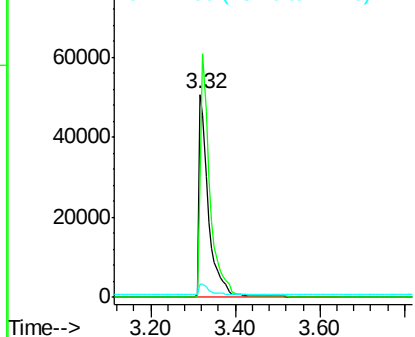
n-Nitrosodimethylamine
 Concen: 11.21 ng
 RT: 3.32 min Scan# 283
 Delta R.T. -0.06 min
 Lab File: BE089673.D
 Acq: 24 Feb 2015 16:21

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC010

Tgt Ion: 42 Resp: 79443
 Ion Ratio Lower Upper
 42 100
 74 121.4 91.1 136.7
 44 5.7 4.7 7.1



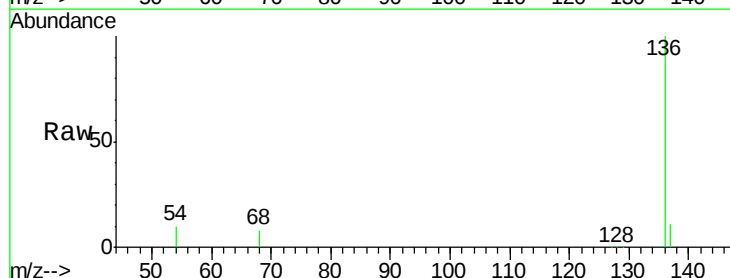
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



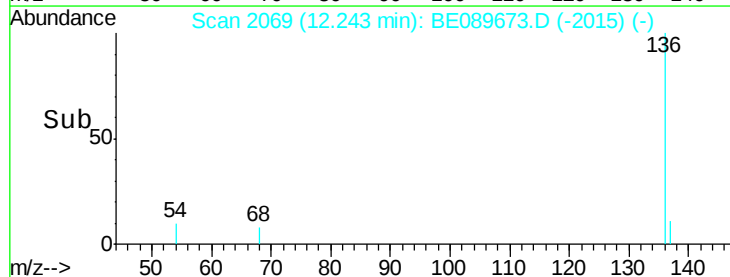
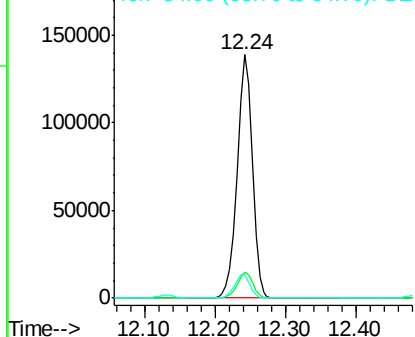
#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. 0.00 min
 Lab File: BE089673.D
 Acq: 24 Feb 2015 16:21

Tgt Ion: 136 Resp: 202056
 Ion Ratio Lower Upper
 136 100
 137 10.9 8.7 13.1
 54 9.8 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: 10.92 ng

RT: 10.61 min Scan# 1668

Delta R.T. 0.00 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

Instrument :

BNA_E

LabSampleId :

SSTDICC010

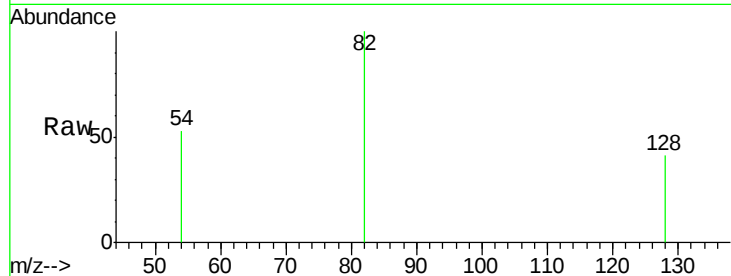
Tgt Ion: 82 Resp: 122868

Ion Ratio Lower Upper

82 100

128 41.1 30.6 46.0

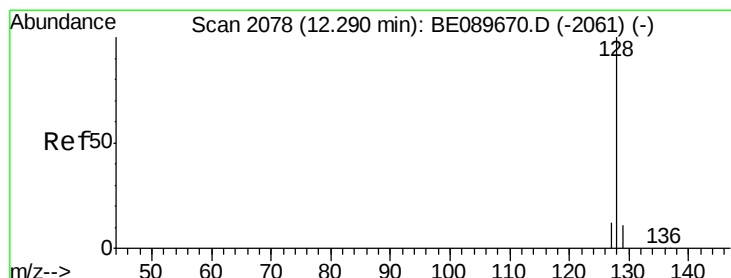
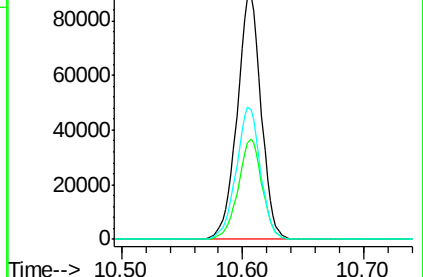
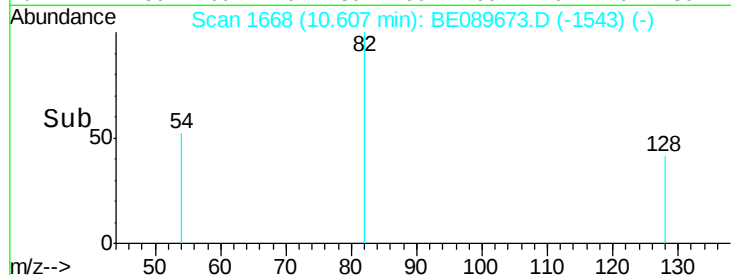
54 53.5 43.6 65.4



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: 9.96 ng

RT: 12.29 min Scan# 2078

Delta R.T. 0.00 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

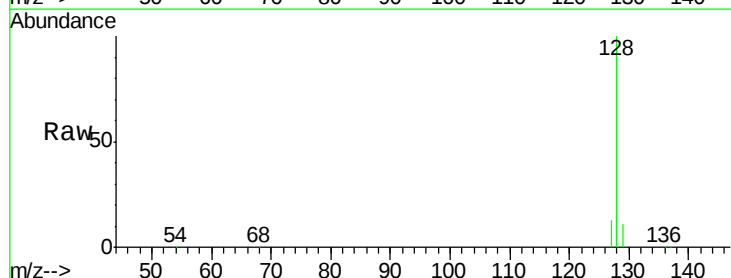
Tgt Ion: 128 Resp: 389692

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

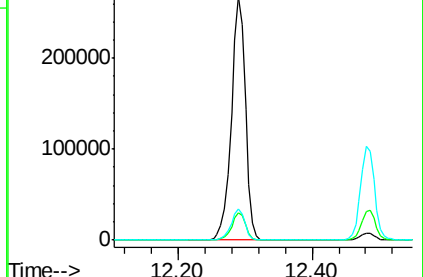
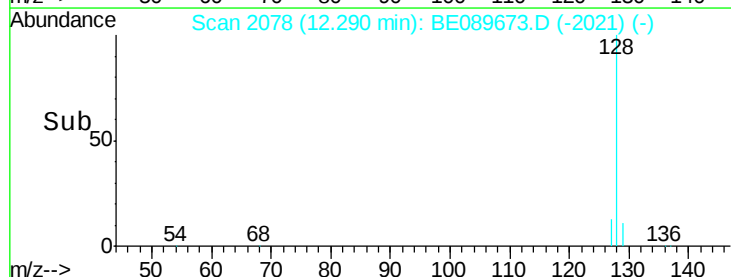
127 12.7 9.7 14.5



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: 11.14 ng

RT: 13.95 min Scan# 2417

Delta R.T. 0.00 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

Instrument :

BNA_E

LabSampleId :

SSTDIC010

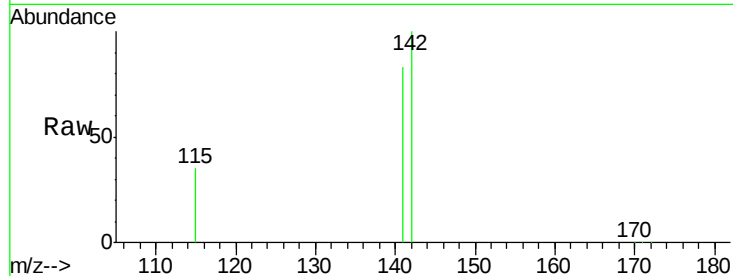
Tgt Ion:142 Resp: 243900

Ion Ratio Lower Upper

142 100

141 83.0 66.0 99.0

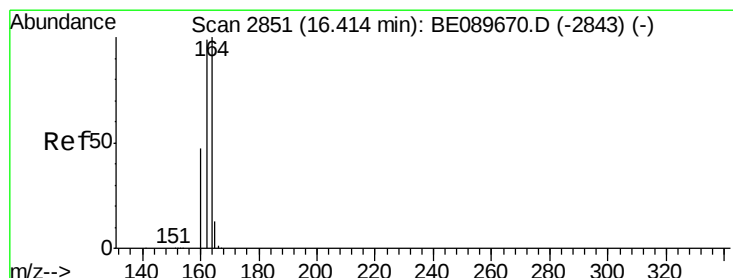
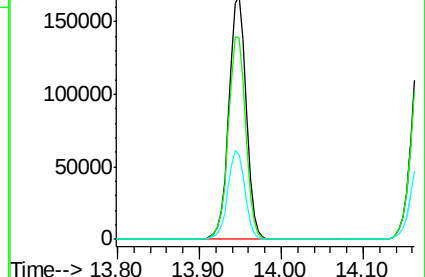
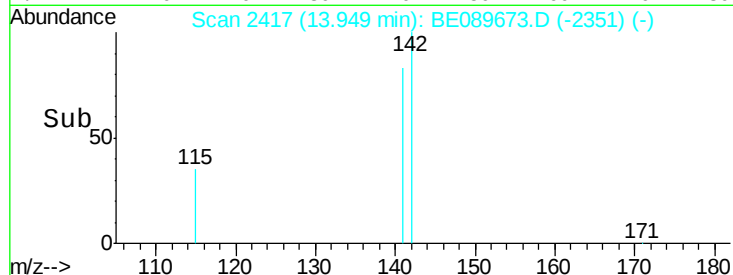
115 35.0 27.4 41.0



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: 16.42 min Scan# 2852

Delta R.T. 0.01 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

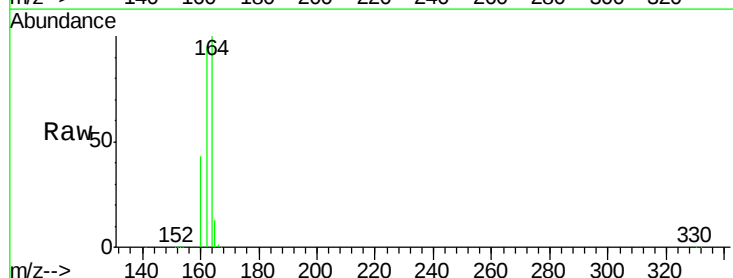
Tgt Ion:164 Resp: 92041

Ion Ratio Lower Upper

164 100

162 94.8 79.4 119.2

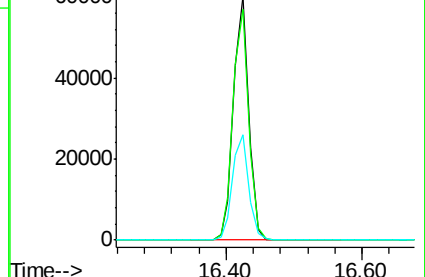
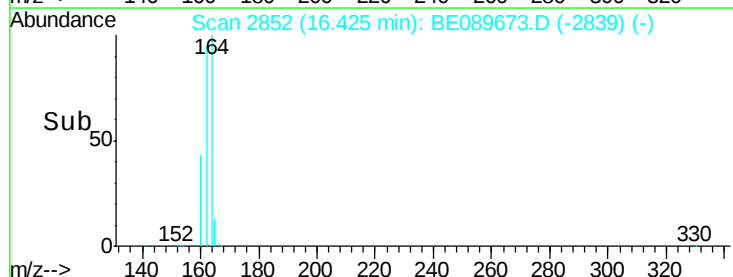
160 43.0 37.6 56.4



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

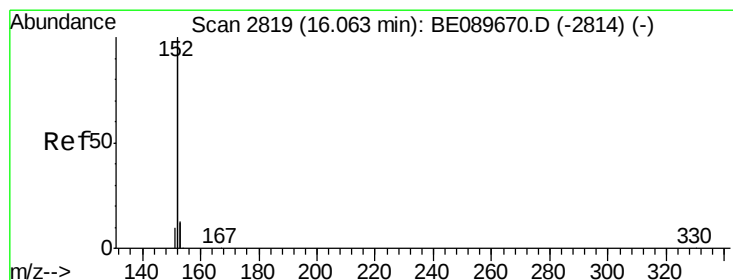
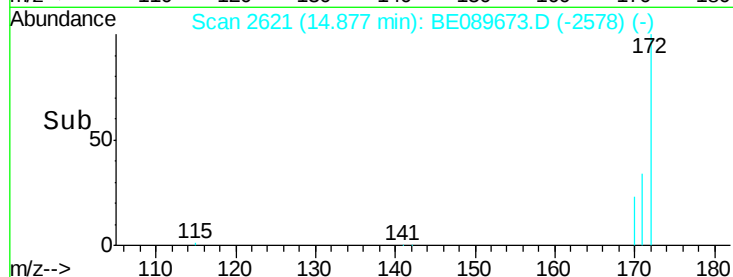
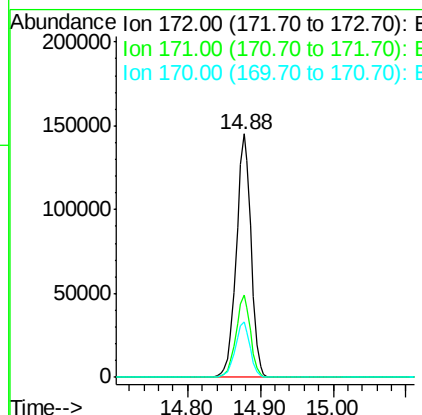
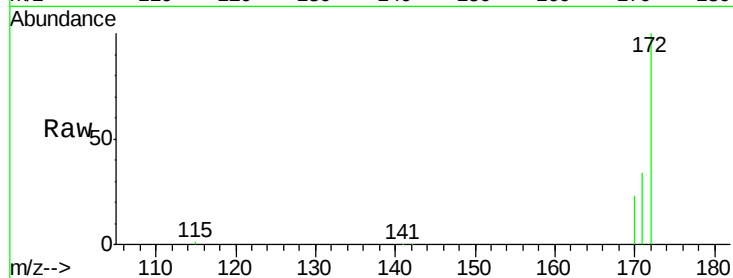




#9
 2-Fluorobiphenyl
 Concen: 8.46 ng
 RT: 14.88 min Scan# 2621
 Delta R.T. 0.00 min
 Lab File: BE089673.D
 Acq: 24 Feb 2015 16:21

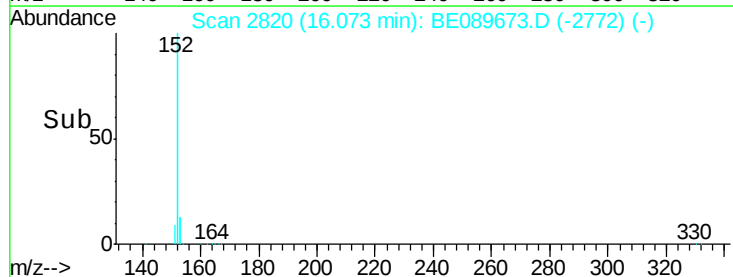
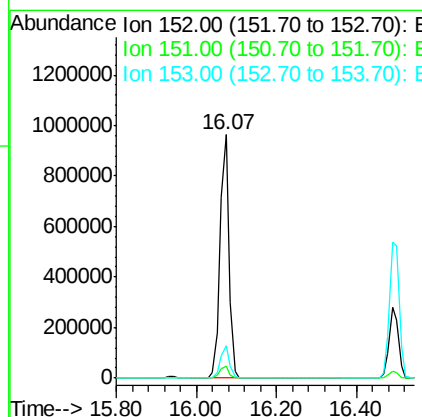
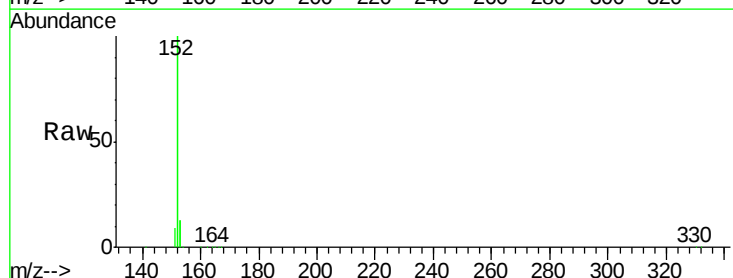
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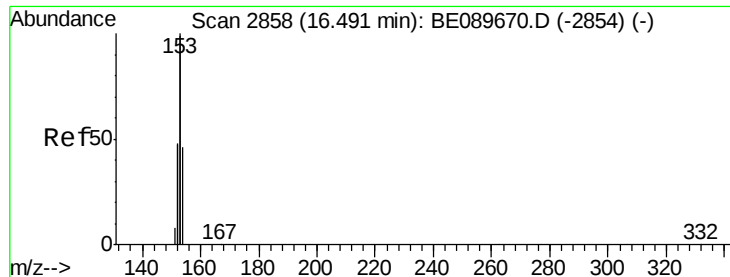
Tgt Ion:172 Resp: 205699
 Ion Ratio Lower Upper
 172 100
 171 33.6 27.3 40.9
 170 22.9 18.5 27.7



#10
 Acenaphthylene
 Concen: 11.30 ng
 RT: 16.07 min Scan# 2820
 Delta R.T. 0.01 min
 Lab File: BE089673.D
 Acq: 24 Feb 2015 16:21

Tgt Ion:152 Resp: 1469019
 Ion Ratio Lower Upper
 152 100
 151 4.8 3.8 5.6
 153 13.1 10.4 15.6





#11

Acenaphthene

Concen: 10.28 ng

RT: 16.50 min Scan# 2859

Delta R.T. 0.01 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

Instrument :

BNA_E

LabSampleId :

SSTDIC010

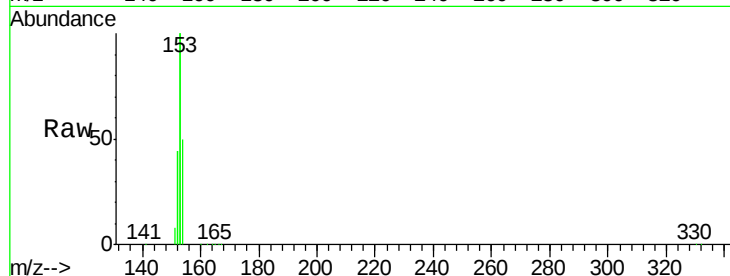
Tgt Ion:154 Resp: 214419

Ion Ratio Lower Upper

154 100

153 426.1 345.8 518.8

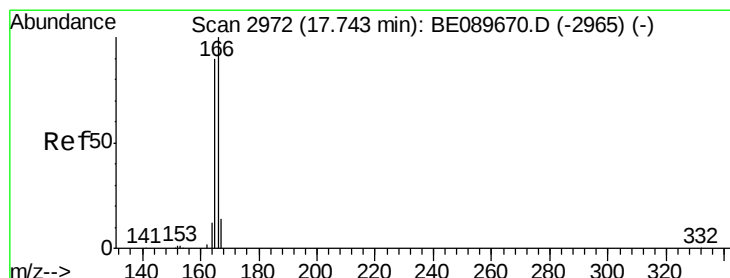
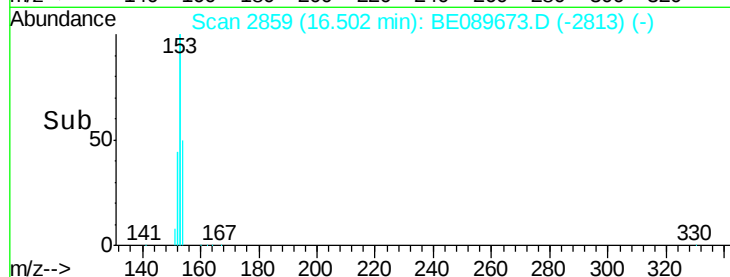
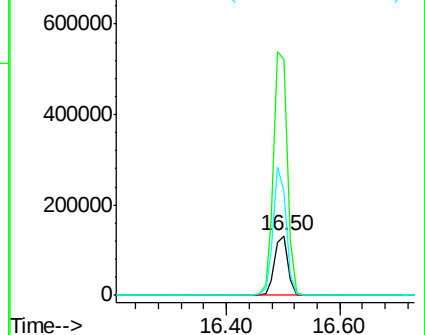
152 208.2 168.6 252.8



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



#12

Fluorene

Concen: 10.70 ng

RT: 17.74 min Scan# 2972

Delta R.T. -0.00 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

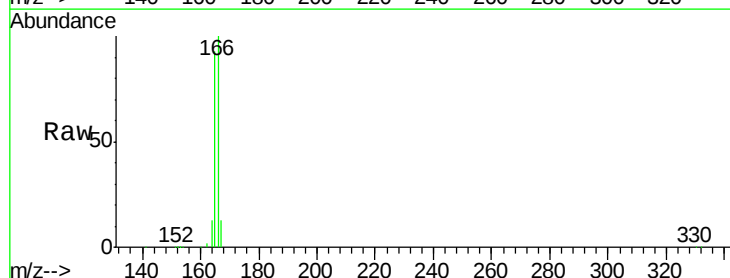
Tgt Ion:166 Resp: 246280

Ion Ratio Lower Upper

166 100

165 92.3 73.6 110.4

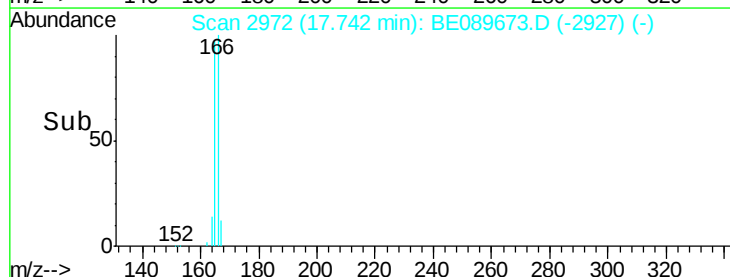
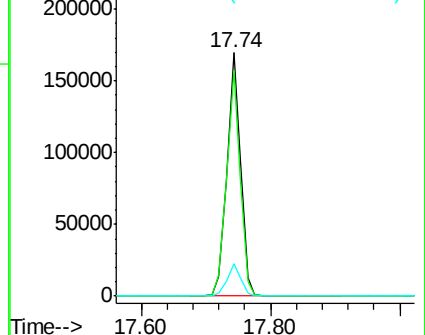
167 13.3 10.6 16.0

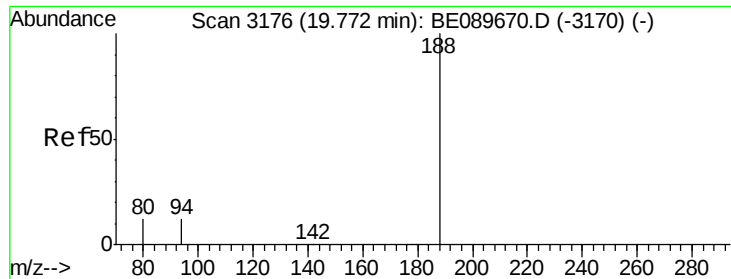


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

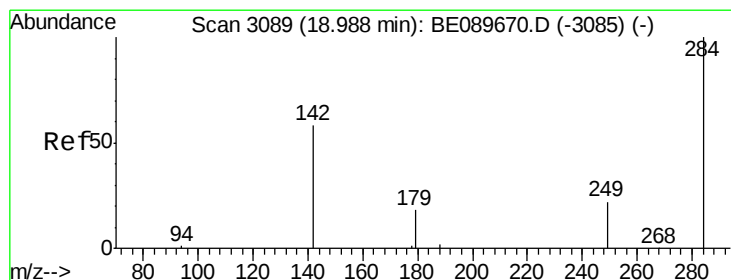
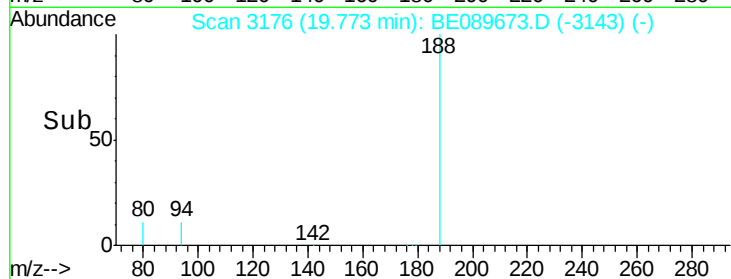
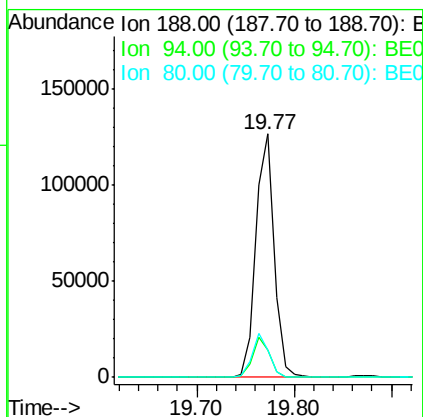
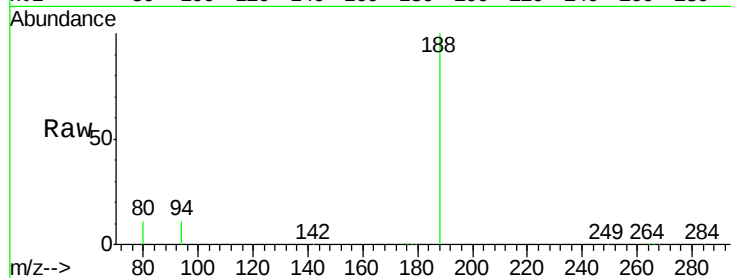




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. 0.00 min
Lab File: BE089673.D
Acq: 24 Feb 2015 16:21

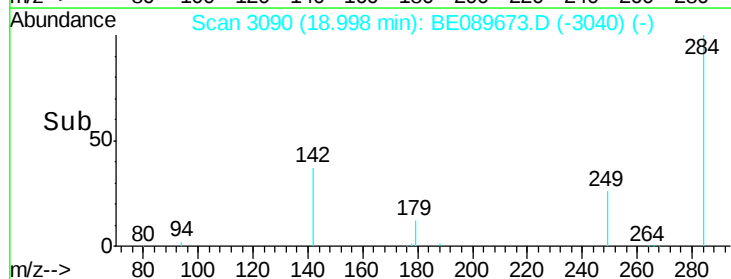
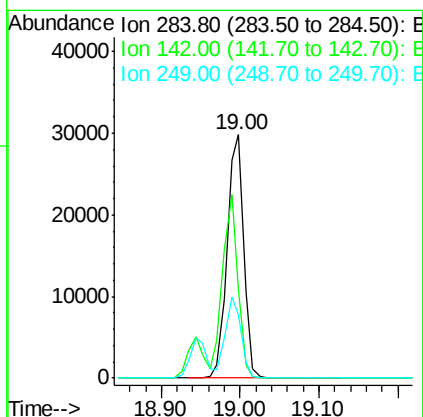
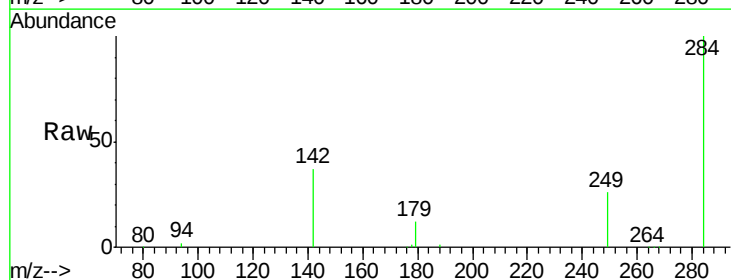
Instrument :
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Tgt Ion:188 Resp: 161469
Ion Ratio Lower Upper
188 100
94 11.3 9.4 14.2
80 11.3 9.5 14.3



#14
Hexachlorobenzene
Concen: 10.34 ng
RT: 19.00 min Scan# 3090
Delta R.T. 0.01 min
Lab File: BE089673.D
Acq: 24 Feb 2015 16:21

Tgt Ion:284 Resp: 43037
Ion Ratio Lower Upper
284 100
142 69.5 55.4 83.2
249 30.8 27.2 40.8

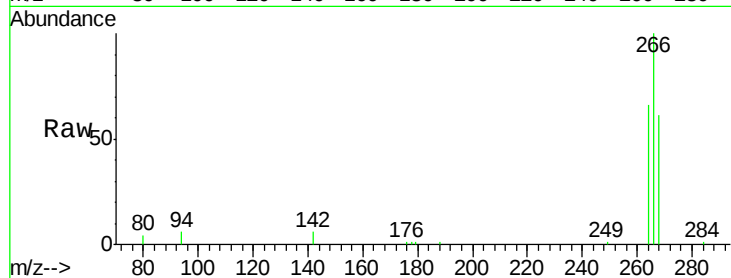




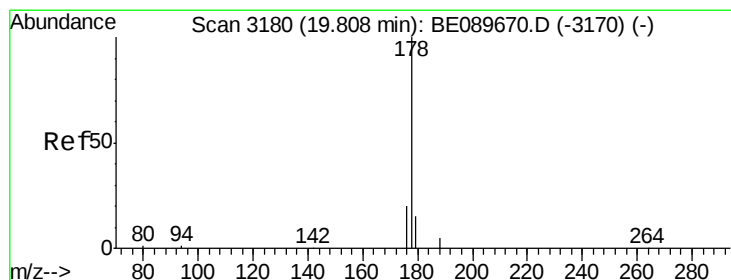
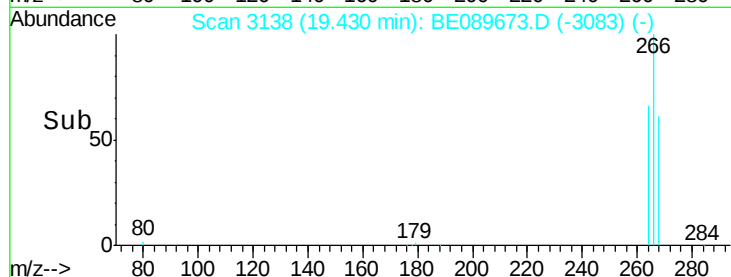
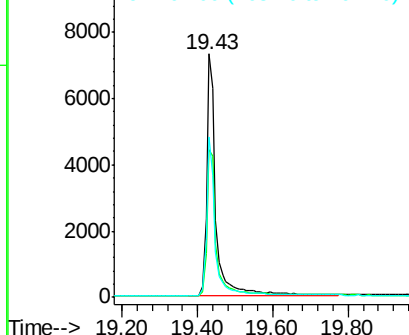
#15
 Pentachlorophenol
 Concen: 28.80 ng
 RT: 19.43 min Scan# 3138
 Delta R.T. -0.01 min
 Lab File: BE089673.D
 Acq: 24 Feb 2015 16:21

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC010

Tgt Ion: 266 Resp: 12917
 Ion Ratio Lower Upper
 266 100
 268 60.8 56.3 84.5
 264 65.8 51.8 77.8

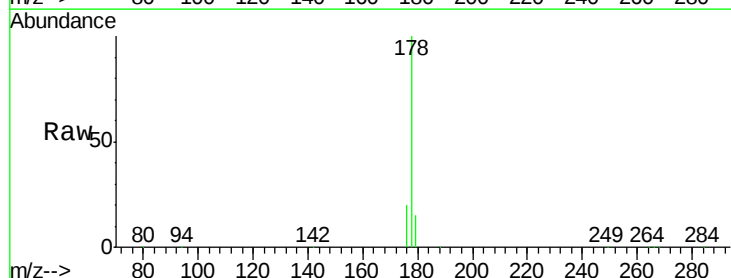


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

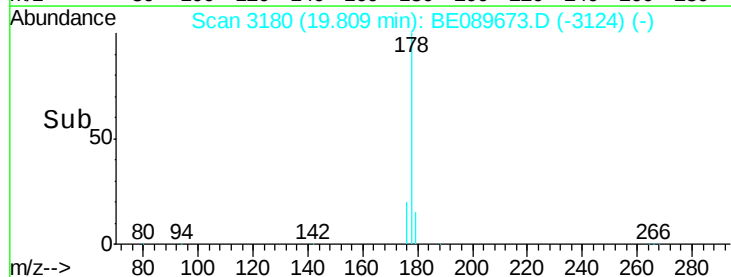
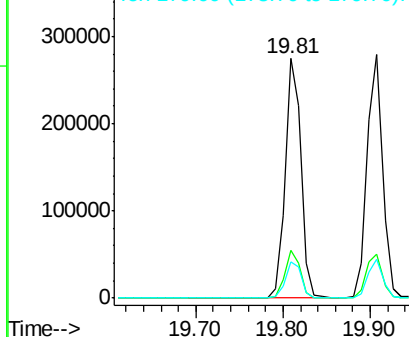


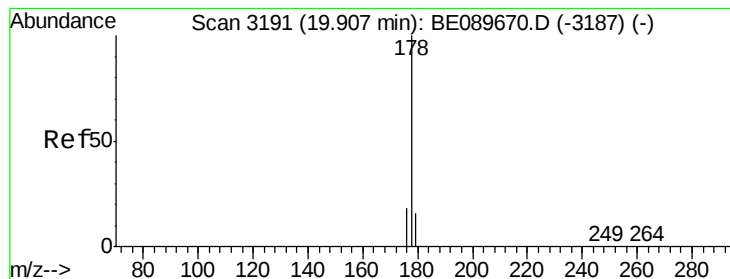
#16
 Phenanthrene
 Concen: 10.19 ng
 RT: 19.81 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: BE089673.D
 Acq: 24 Feb 2015 16:21

Tgt Ion: 178 Resp: 350320
 Ion Ratio Lower Upper
 178 100
 176 19.4 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: 11.95 ng

RT: 19.91 min Scan# 3191

Delta R.T. 0.00 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

Instrument :

BNA_E

LabSampleId :

SSTDICC010

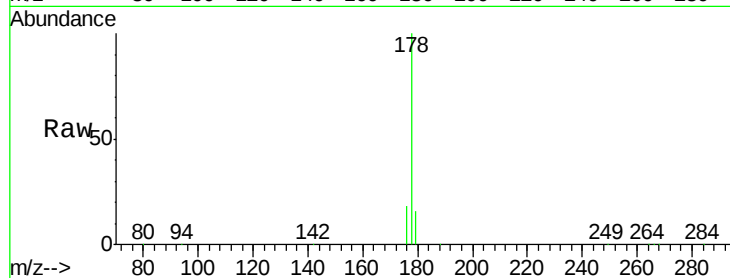
Tgt Ion:178 Resp: 341956

Ion Ratio Lower Upper

178 100

176 18.7 14.8 22.2

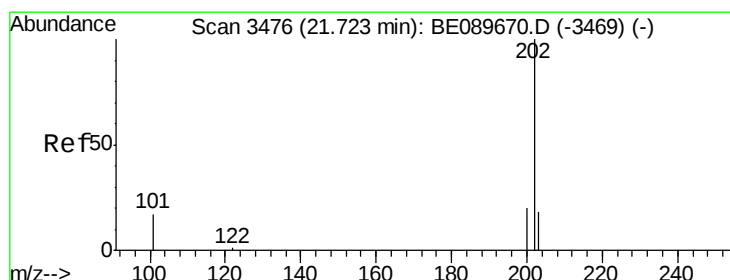
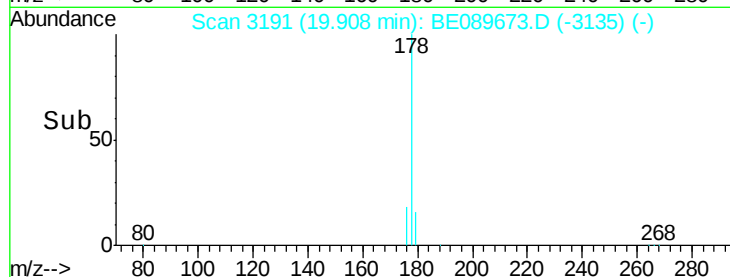
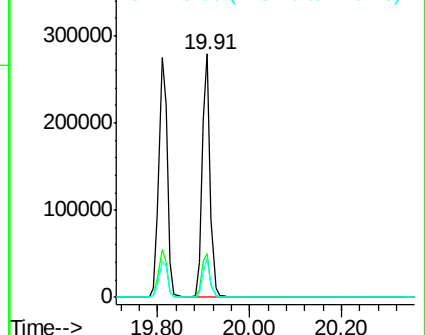
179 15.3 12.2 18.2



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



#18

Fluoranthene

Concen: 12.17 ng

RT: 21.72 min Scan# 3476

Delta R.T. 0.00 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

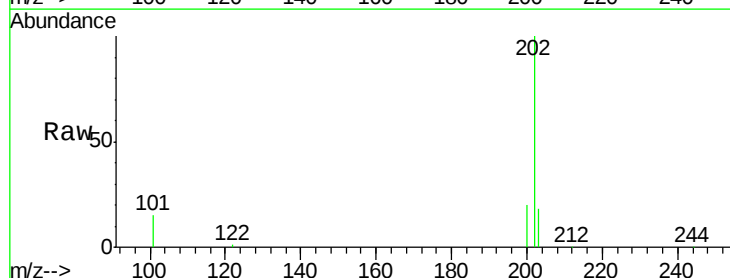
Tgt Ion:202 Resp: 340725

Ion Ratio Lower Upper

202 100

101 18.2 14.9 22.3

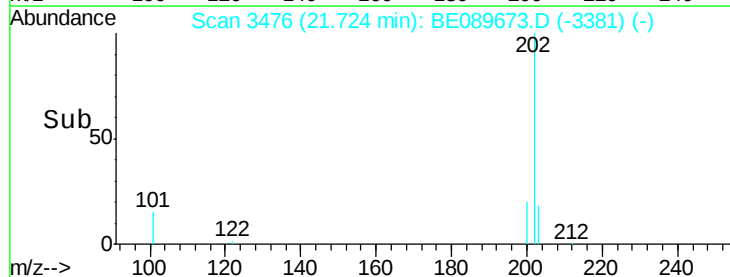
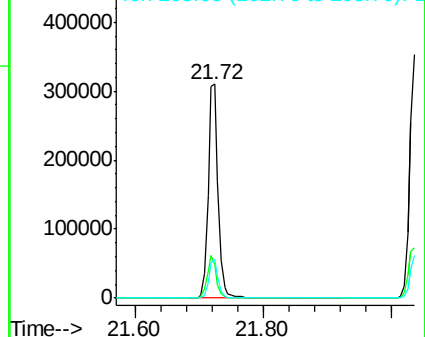
203 17.4 13.8 20.6

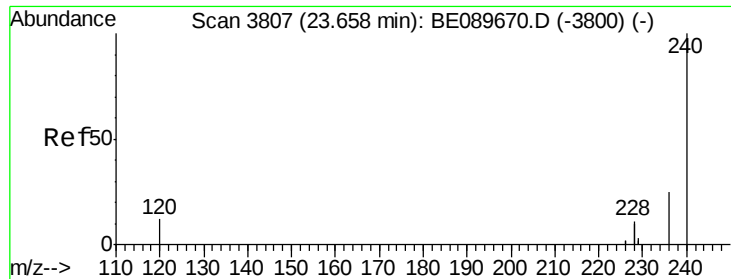


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3807

Delta R.T. -0.00 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

Instrument :

BNA_E

LabSampleId :

SSTDICC010

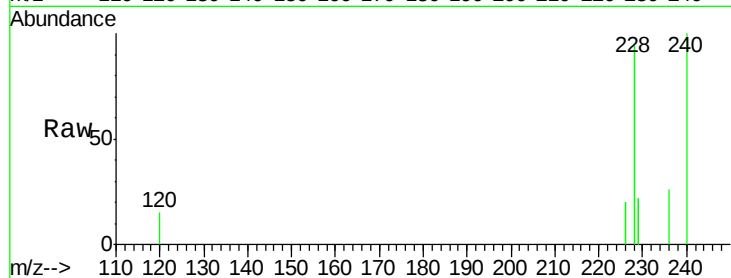
Tgt Ion:240 Resp: 138864

Ion Ratio Lower Upper

240 100

120 15.3 9.4 14.0#

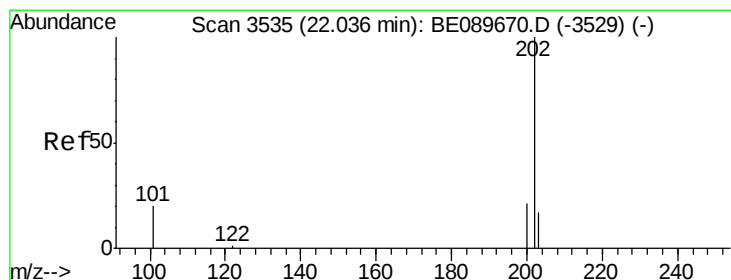
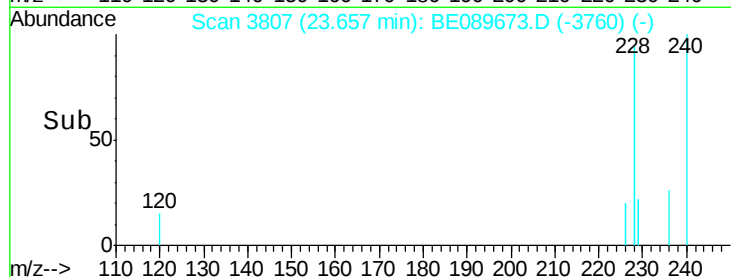
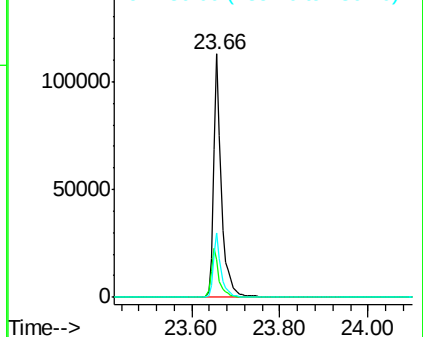
236 26.3 19.9 29.9



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: 11.00 ng

RT: 22.04 min Scan# 3535

Delta R.T. 0.00 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

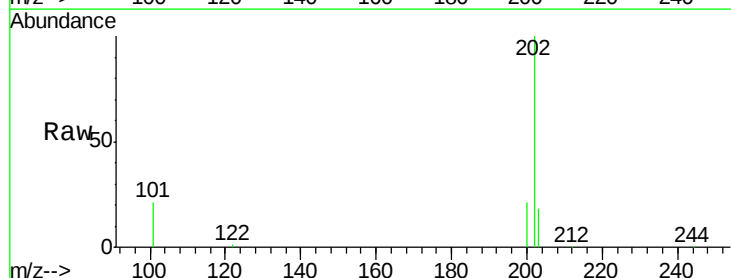
Tgt Ion:202 Resp: 364756

Ion Ratio Lower Upper

202 100

200 21.0 16.4 24.6

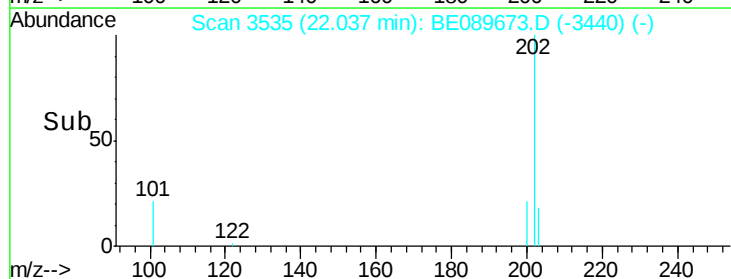
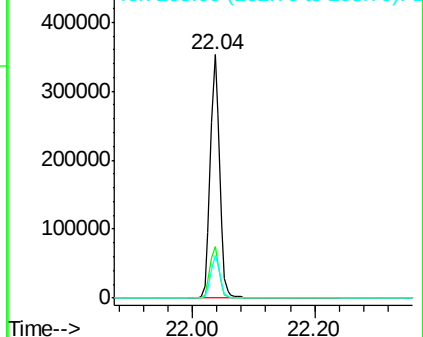
203 17.6 13.9 20.9

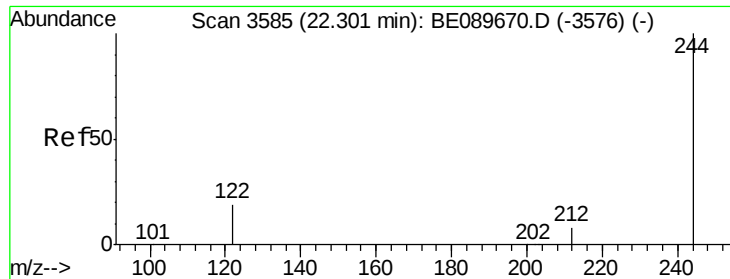


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

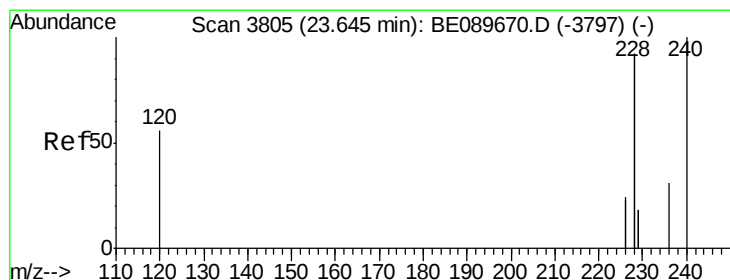
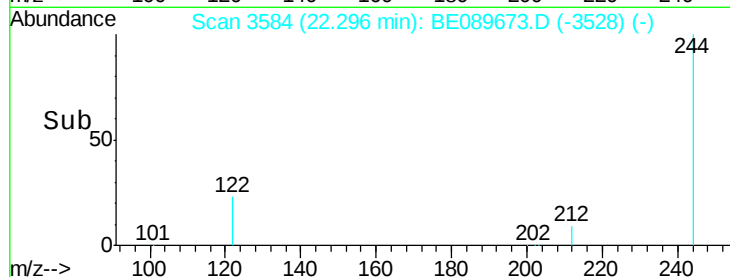
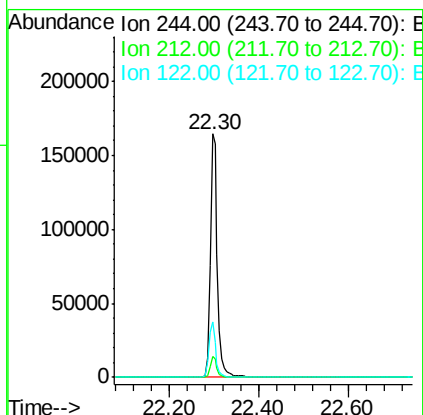
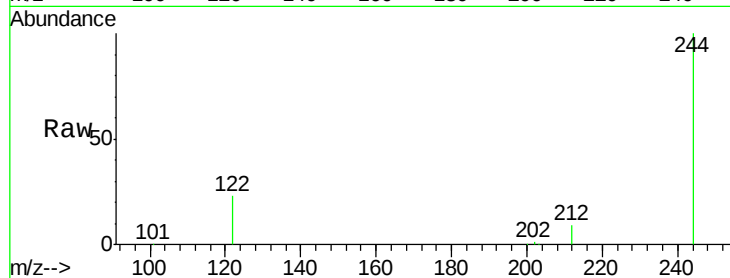




#21
 Terphenyl-d14
 Concen: 11.19 ng
 RT: 22.30 min Scan# 3584
 Delta R.T. -0.00 min
 Lab File: BE089673.D
 Acq: 24 Feb 2015 16:21

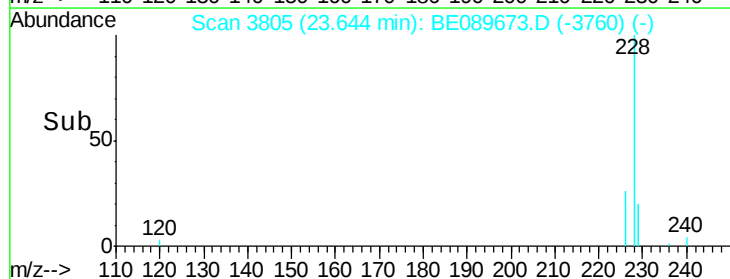
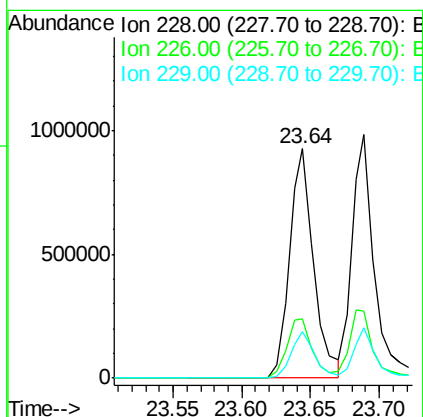
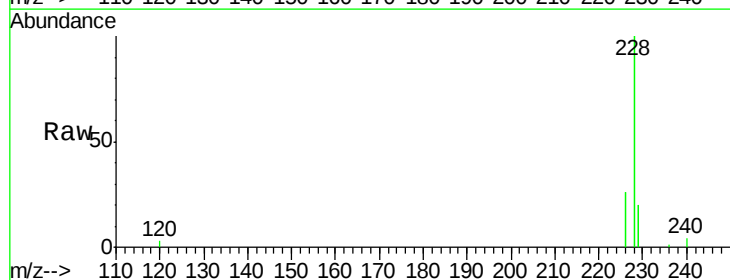
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC010

Tgt Ion:244 Resp: 179632
 Ion Ratio Lower Upper
 244 100
 212 8.6 7.0 10.6
 122 22.7 15.4 23.0



#22
 Benzo(a)anthracene
 Concen: 12.95 ng
 RT: 23.64 min Scan# 3805
 Delta R.T. -0.00 min
 Lab File: BE089673.D
 Acq: 24 Feb 2015 16:21

Tgt Ion:228 Resp: 1140481
 Ion Ratio Lower Upper
 228 100
 226 25.9 20.6 31.0
 229 20.3 15.8 23.6





#23

Chrysene

Concen: 9.31 ng

RT: 23.69 min Scan# 3812

Delta R.T. 0.01 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

Instrument :

BNA_E

LabSampleId :

SSTDICC010

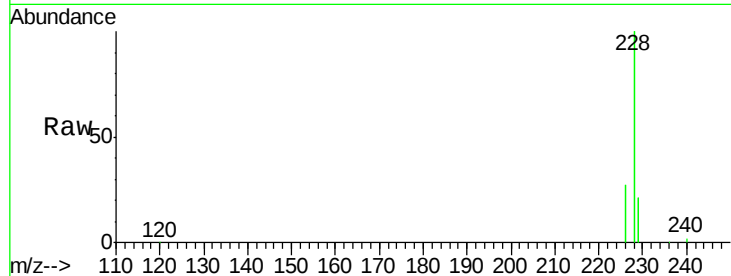
Tgt Ion:228 Resp: 1182275

Ion Ratio Lower Upper

228 100

226 27.3 23.6 35.4

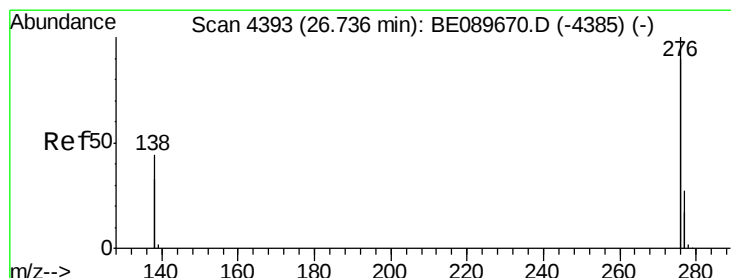
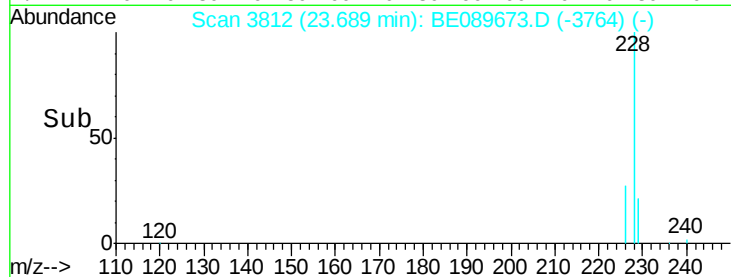
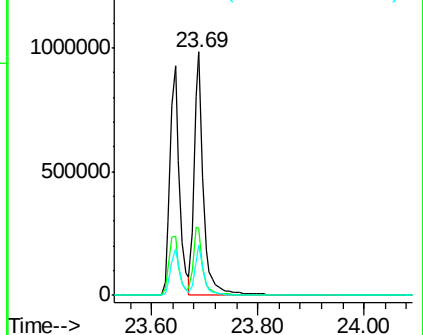
229 20.6 15.3 22.9



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 23.32 ng

RT: 26.75 min Scan# 4395

Delta R.T. 0.01 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

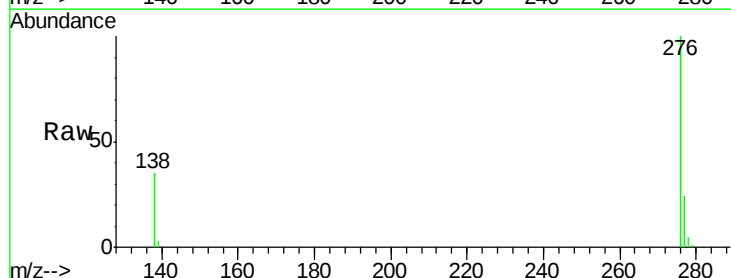
Tgt Ion:276 Resp: 866449

Ion Ratio Lower Upper

276 100

138 42.2 0.0 0.0#

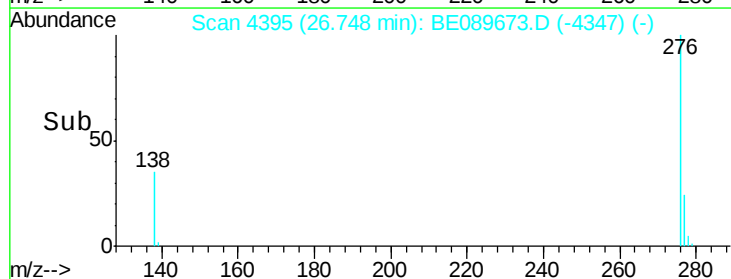
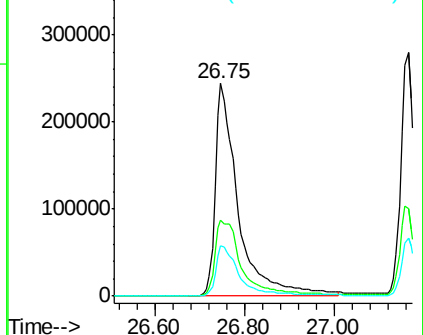
277 24.9 5.2 7.8#

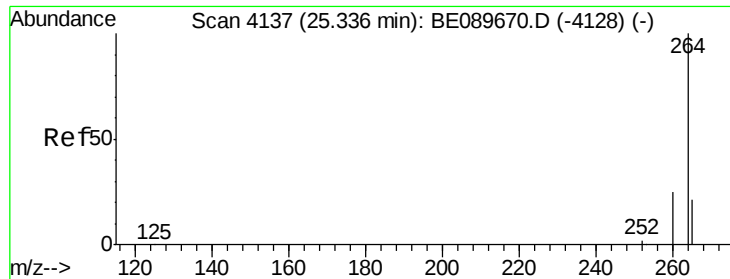


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

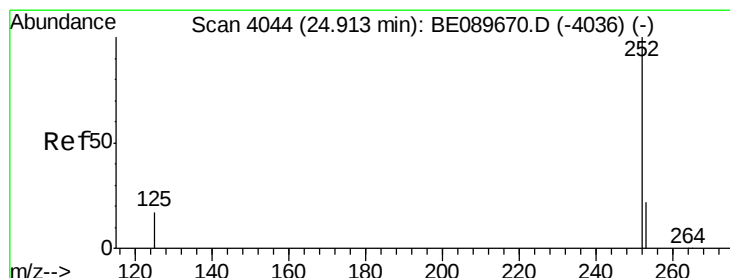
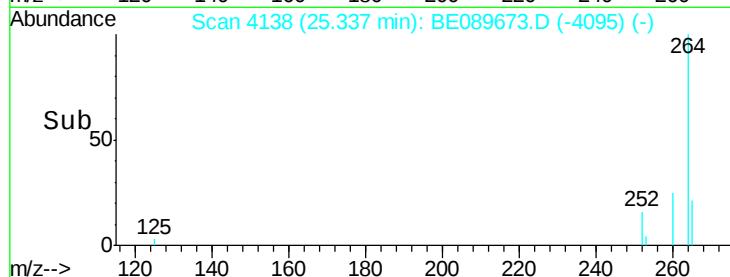
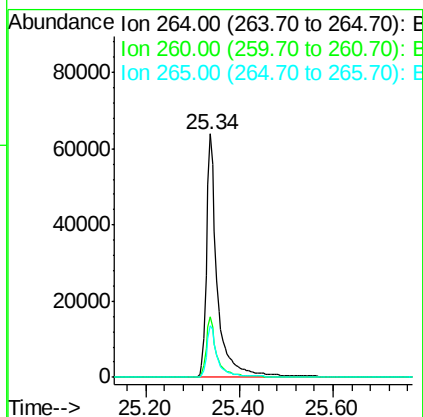
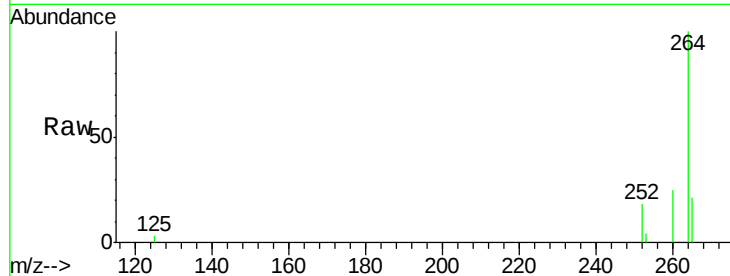




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4138
 Delta R.T. 0.00 min
 Lab File: BE089673.D
 Acq: 24 Feb 2015 16:21

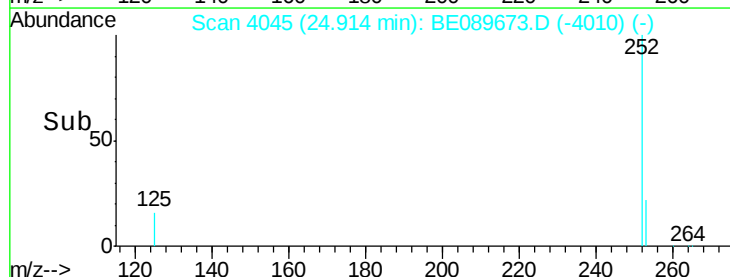
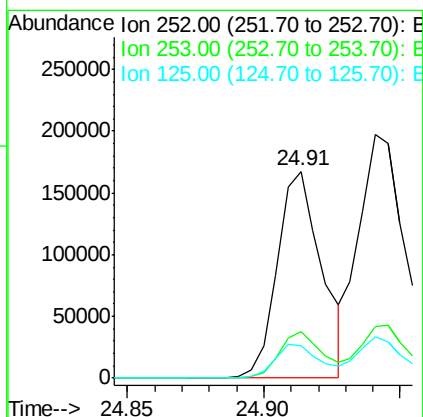
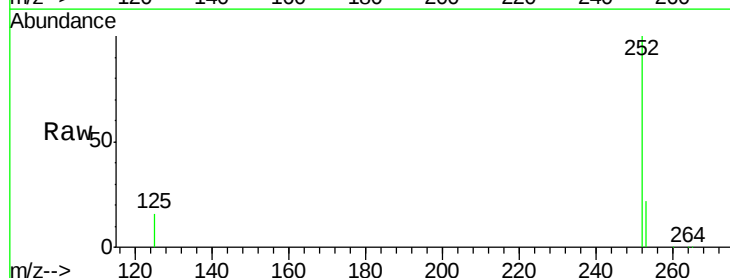
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC010

Tgt Ion: 264 Resp: 103139
 Ion Ratio Lower Upper
 264 100
 260 24.7 20.2 30.4
 265 21.4 17.0 25.4



#26
 Benzo(b)fluoranthene
 Concen: 25.98 ng
 RT: 24.91 min Scan# 4045
 Delta R.T. 0.00 min
 Lab File: BE089673.D
 Acq: 24 Feb 2015 16:21

Tgt Ion: 252 Resp: 190022
 Ion Ratio Lower Upper
 252 100
 253 22.4 18.6 27.8
 125 15.9 15.0 22.6





#27

Benzo(k)fluoranthene

Concen: 13.59 ng

RT: 24.94 min Scan# 4051

Delta R.T. 0.00 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

Instrument :

BNA_E

LabSampleId :

SSTDICC010

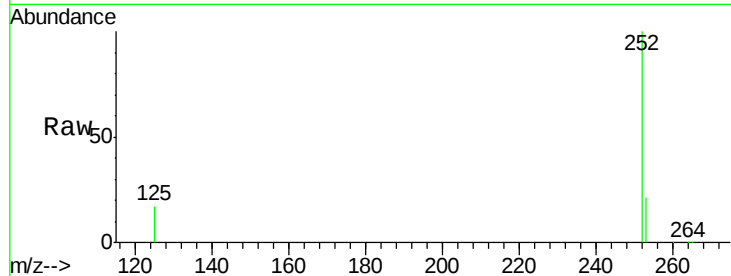
Tgt Ion:252 Resp: 298559

Ion Ratio Lower Upper

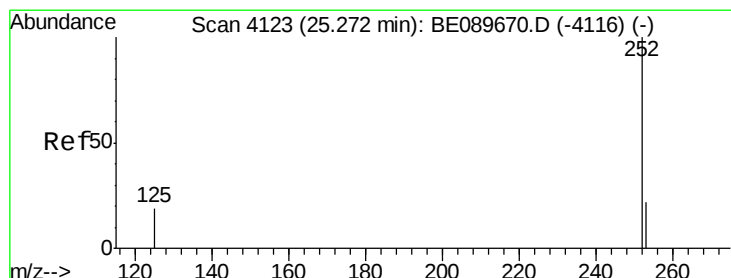
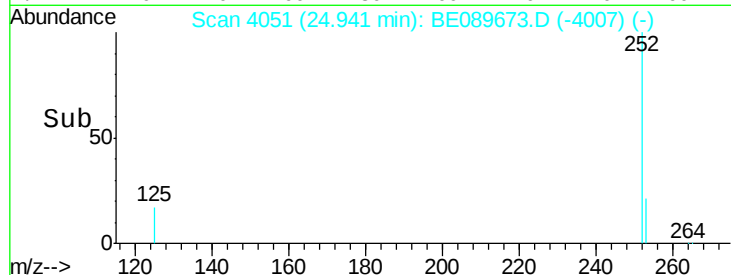
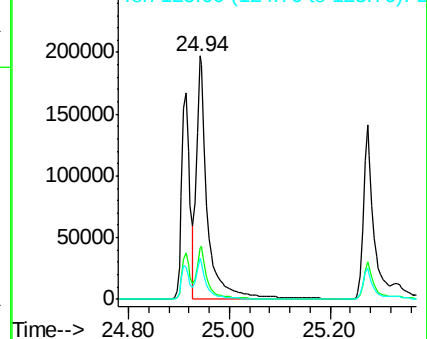
252 100

253 21.3 18.0 27.0

125 16.9 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: 22.23 ng

RT: 25.27 min Scan# 4124

Delta R.T. 0.00 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

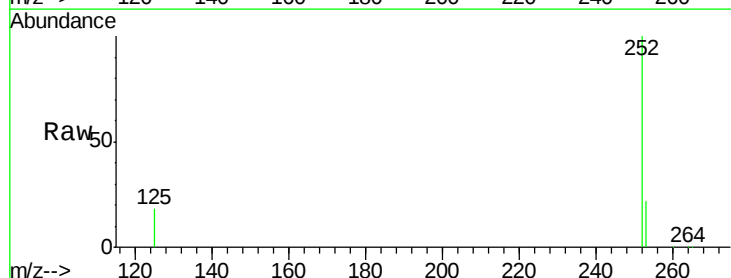
Tgt Ion:252 Resp: 190966

Ion Ratio Lower Upper

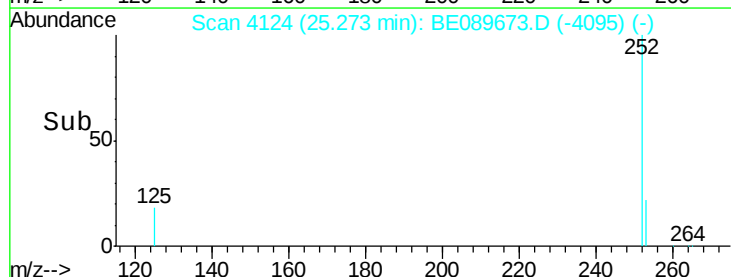
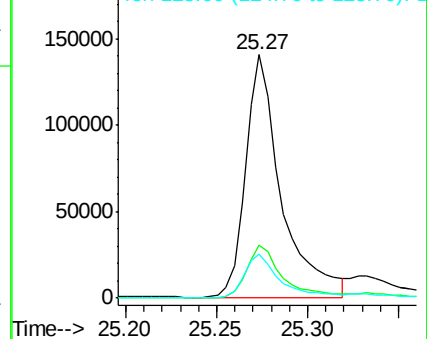
252 100

253 21.7 18.8 28.2

125 18.0 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: 26.84 ng

RT: 26.77 min Scan# 4399

Delta R.T. 0.01 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

Instrument :

BNA_E

LabSampleId :

SSTDIC010

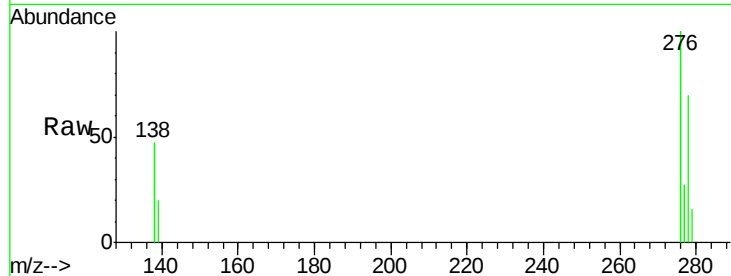
Tgt Ion:278 Resp: 168468

Ion Ratio Lower Upper

278 100

139 28.0 30.4 45.6#

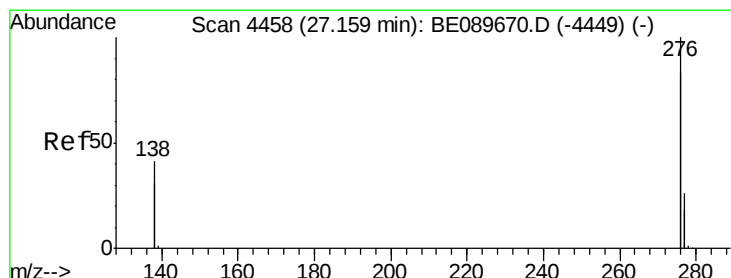
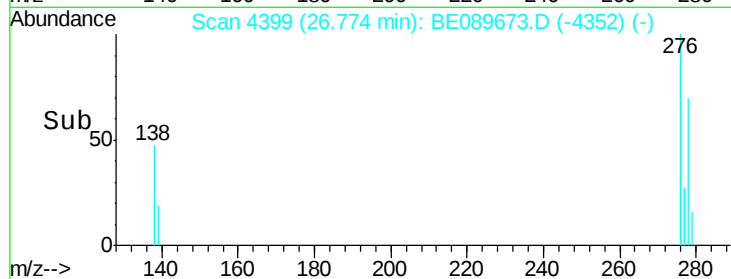
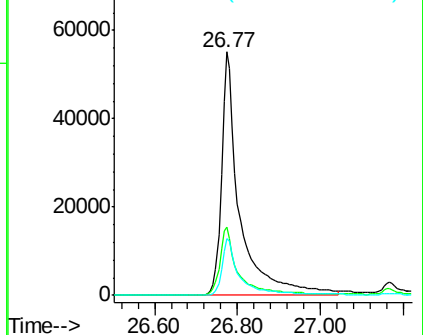
279 23.4 22.0 33.0



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: 17.88 ng

RT: 27.16 min Scan# 4459

Delta R.T. 0.01 min

Lab File: BE089673.D

Acq: 24 Feb 2015 16:21

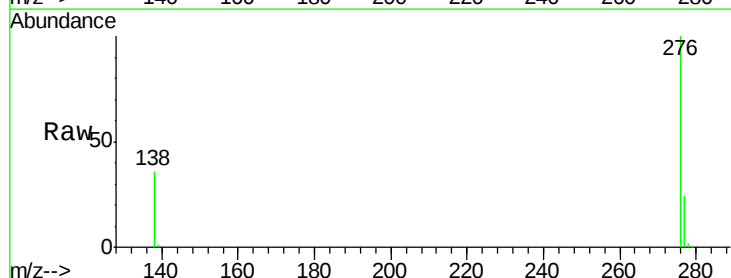
Tgt Ion:276 Resp: 746580

Ion Ratio Lower Upper

276 100

277 24.0 21.0 31.6

138 36.0 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

