

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
 Data File : BE089616.D
 Acq On : 18 Feb 2015 5:26
 Operator : TP/IZ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC010

Quant Time: Feb 18 15:27:49 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

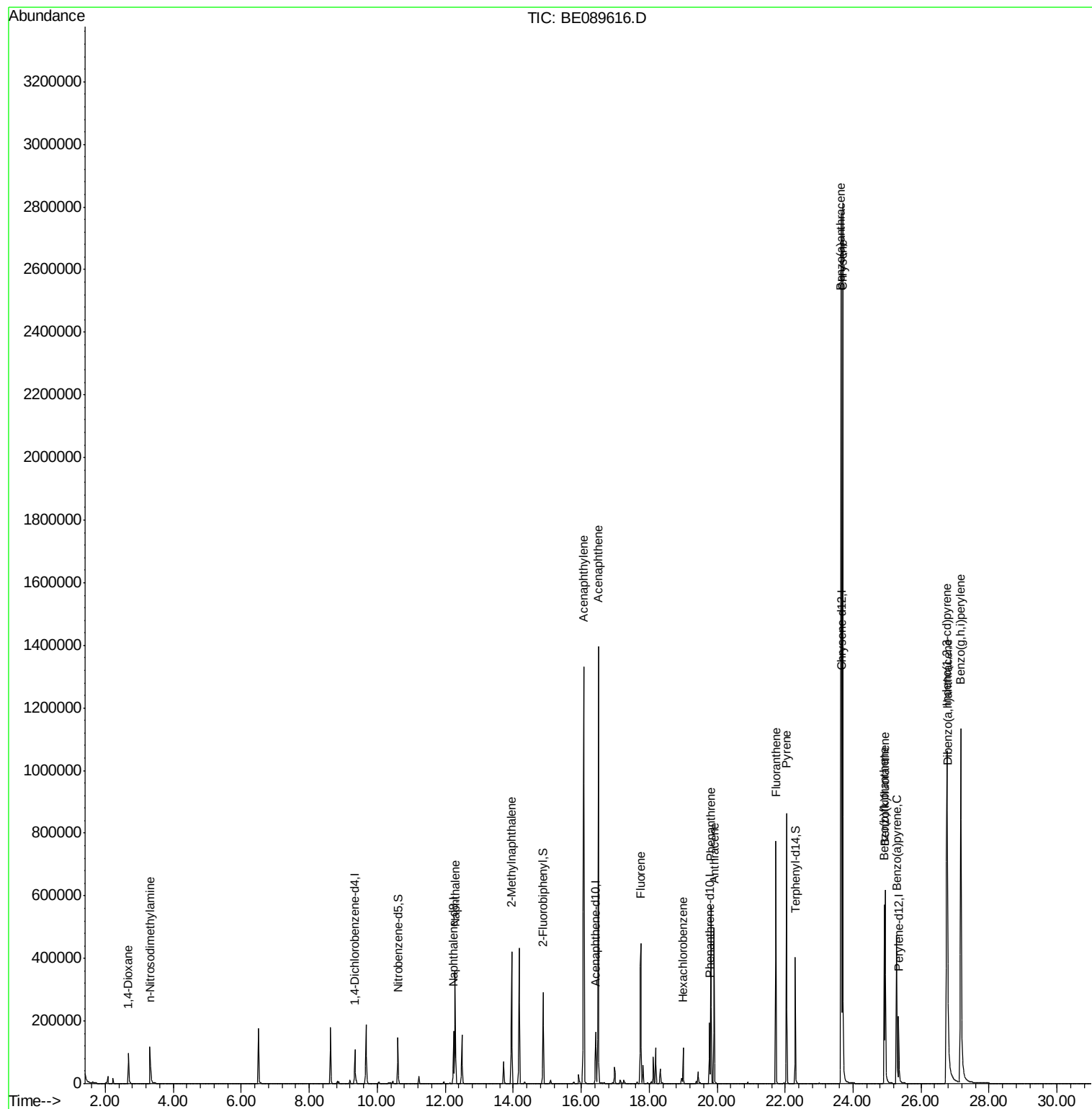
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	48988	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	198010	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	99889	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	196905	5.00	ng	0.00
19) Chrysene-d12	23.66	240	227056	5.00	ng	0.00
25) Perylene-d12	25.34	264	183566	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	106176	11.99	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	259487	8.35	ng	0.00
21) Terphenyl-d14	22.30	244	330672	8.01	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.68	88	57947	8.94	ng	98
3) n-Nitrosodimethylamine	3.32	42	61113	9.67	ng	100
6) Naphthalene	12.30	128	419973	8.59	ng	99
7) 2-Methylnaphthalene	13.95	142	278004	8.89	ng	100
10) Acenaphthylene	16.07	152	1723980	9.26	ng	100
11) Acenaphthene	16.50	154	259226	8.52	ng	98
12) Fluorene	17.75	166	312749	9.14	ng	99
14) Hexachlorobenzene	19.00	284	83739	8.20	ng	97
16) Phenanthrene	19.82	178	471578	8.19	ng	99
17) Anthracene	19.91	178	460700	9.73	ng	99
18) Fluoranthene	21.73	202	535691	10.98	ng	99
20) Pyrene	22.04	202	573371	8.21	ng	98
22) Benzo(a)anthracene	23.64	228	2212836	9.64	ng	97
23) Chrysene	23.69	228	2121364	7.89	ng	93
24) Indeno(1,2,3-cd)pyrene	26.76	276	2042752	10.48	ng	99
26) Benzo(b)fluoranthene	24.92	252	448414	12.42	ng	98
27) Benzo(k)fluoranthene	24.94	252	570881	9.65	ng	100
28) Benzo(a)pyrene	25.28	252	422826	12.10	ng	100
29) Dibenzo(a,h)anthracene	26.78	278	408045	11.56	ng	99
30) Benzo(g,h,i)perylene	27.17	276	1659692	9.62	ng	98

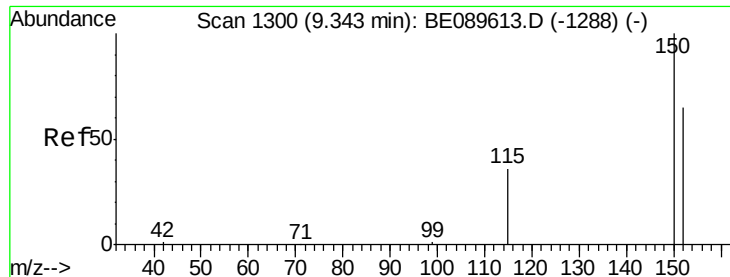
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. -0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

Instrument :

BNA_E

LabSampleId :

SSTDIC010

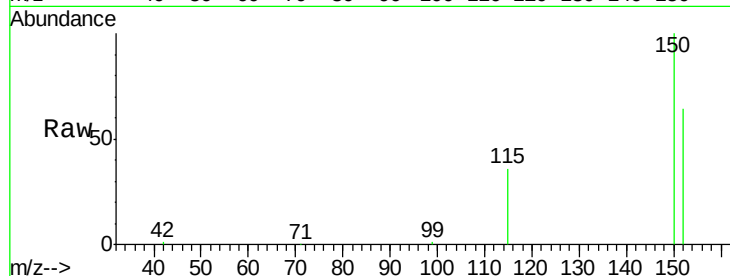
Tgt Ion:152 Resp: 48988

Ion Ratio Lower Upper

152 100

150 156.5 122.4 183.6

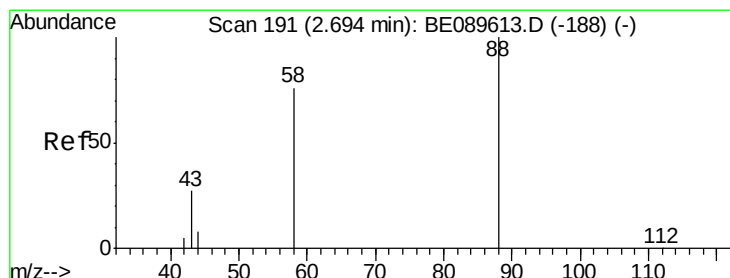
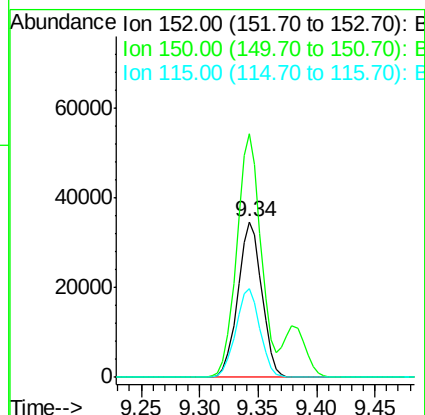
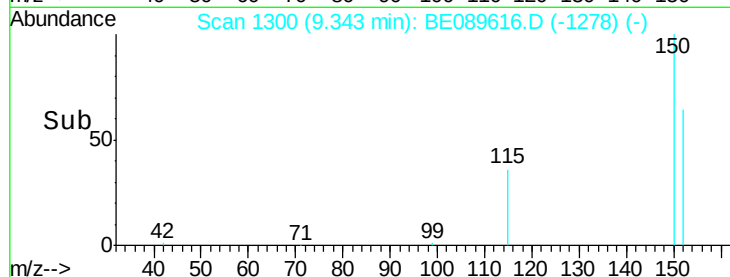
115 57.0 44.2 66.2



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: 8.94 ng

RT: 2.68 min Scan# 189

Delta R.T. -0.01 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

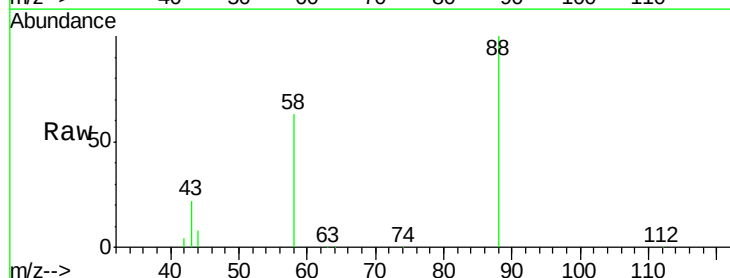
Tgt Ion: 88 Resp: 57947

Ion Ratio Lower Upper

88 100

58 66.6 54.6 81.8

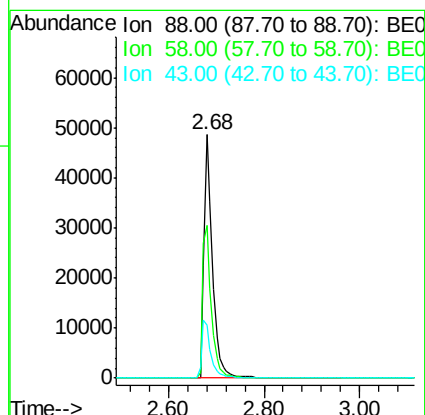
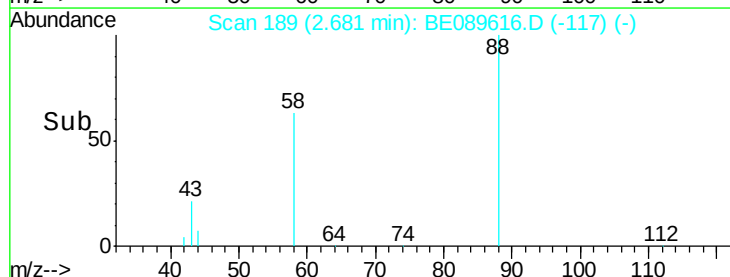
43 24.8 20.6 30.8

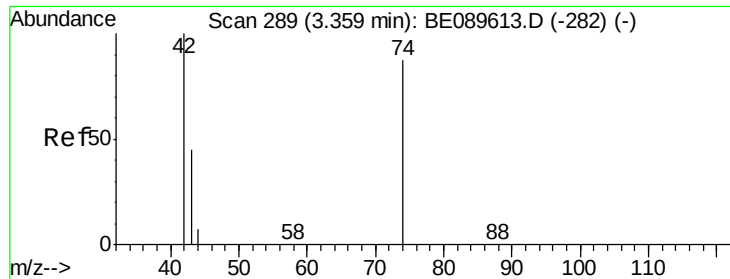


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



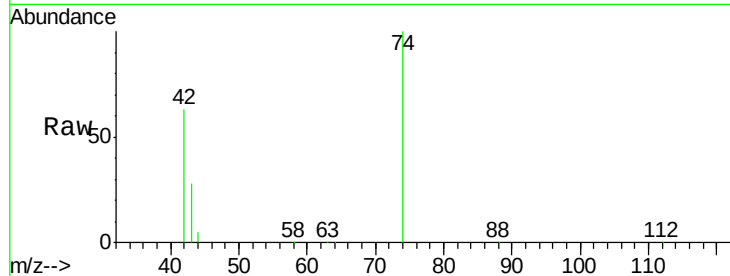


#3

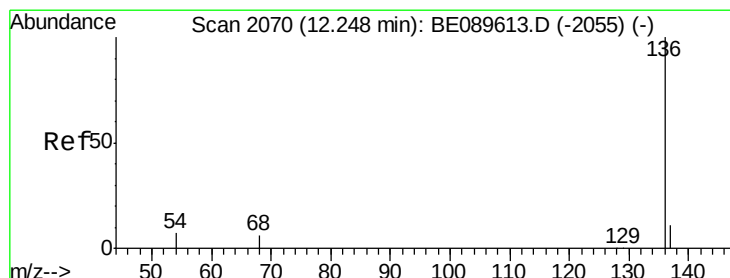
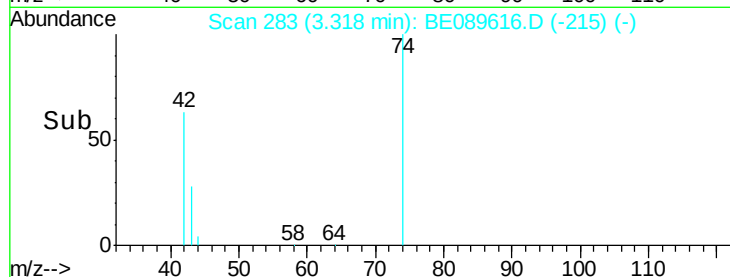
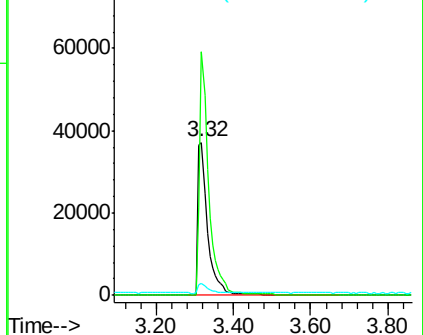
n-Nitrosodimethylamine
 Concen: 9.67 ng
 RT: 3.32 min Scan# 283
 Delta R.T. -0.04 min
 Lab File: BE089616.D
 Acq: 18 Feb 2015 5:26

Instrument :
 BNA_E
 LabSampleId :
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Tgt Ion: 42 Resp: 61113
 Ion Ratio Lower Upper
 42 100
 74 151.8 121.4 182.0
 44 6.4 4.5 6.7



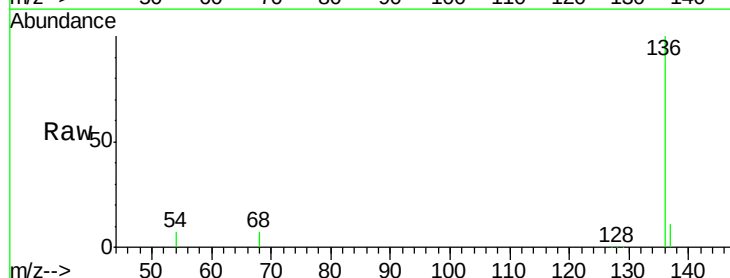
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



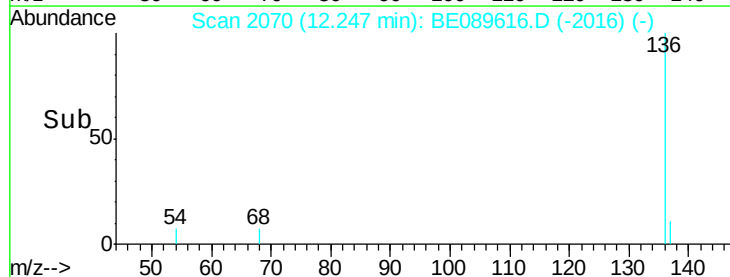
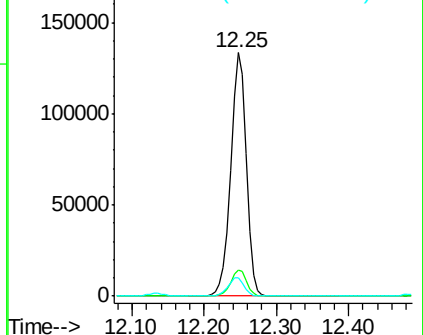
#4

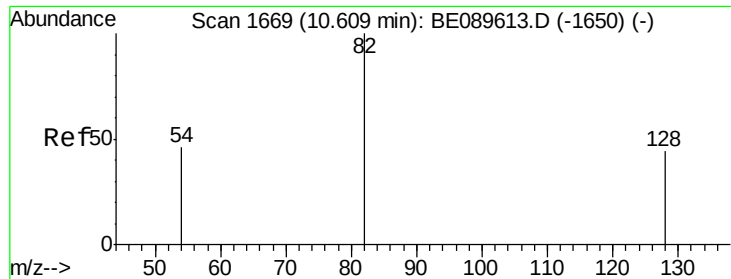
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.25 min Scan# 2070
 Delta R.T. -0.00 min
 Lab File: BE089616.D
 Acq: 18 Feb 2015 5:26

Tgt Ion: 136 Resp: 198010
 Ion Ratio Lower Upper
 136 100
 137 10.9 8.9 13.3
 54 7.5 5.3 7.9



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: 11.99 ng

RT: 10.61 min Scan# 1670

Delta R.T. 0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

Instrument :

BNA_E

LabSampleId :

SSTDICC010

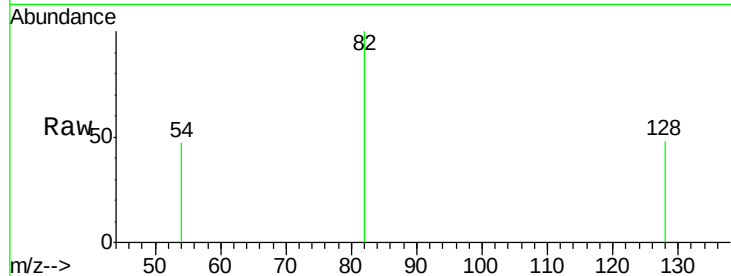
Tgt Ion: 82 Resp: 106176

Ion Ratio Lower Upper

82 100

128 47.7 35.5 53.3

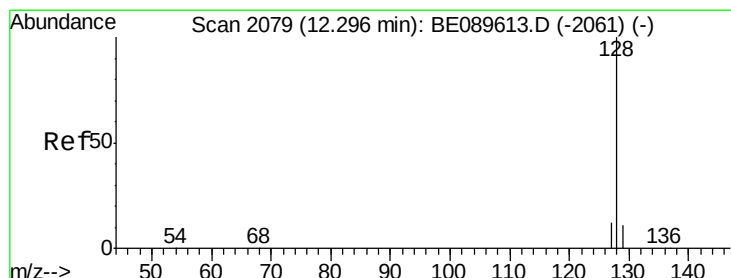
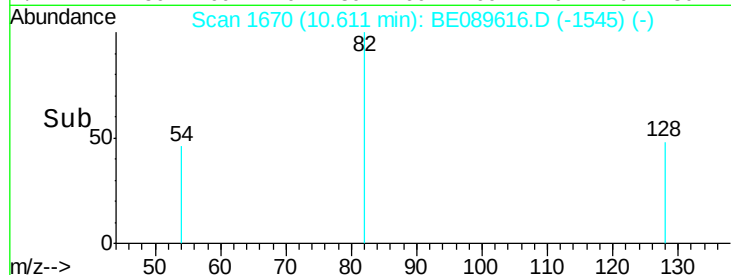
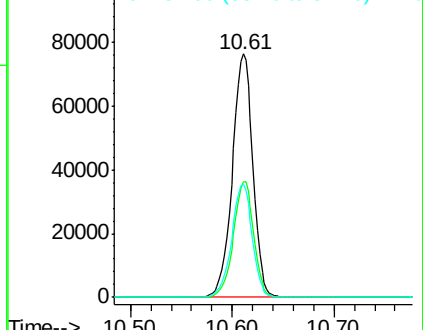
54 46.6 37.5 56.3



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: 8.59 ng

RT: 12.30 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

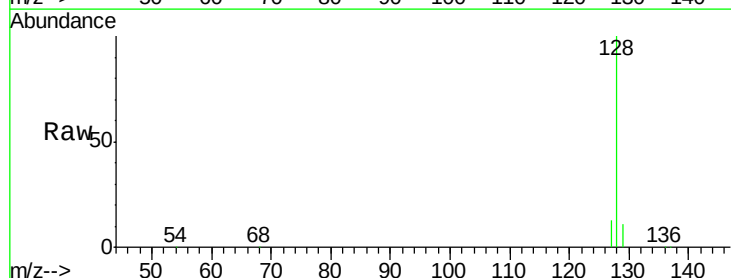
Tgt Ion: 128 Resp: 419973

Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

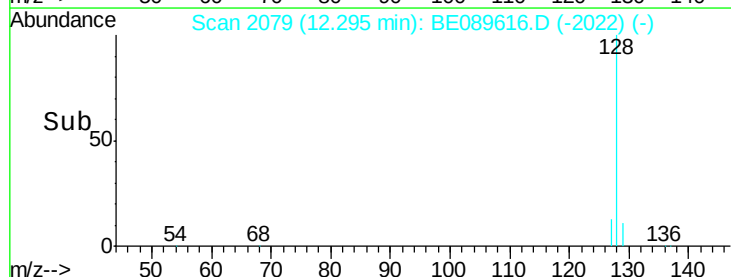
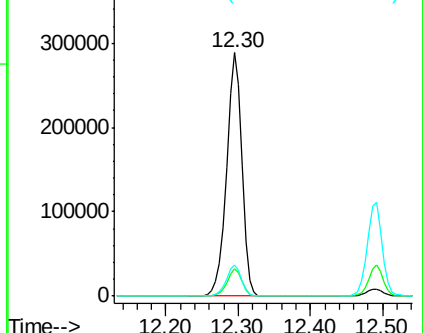
127 12.8 9.8 14.8

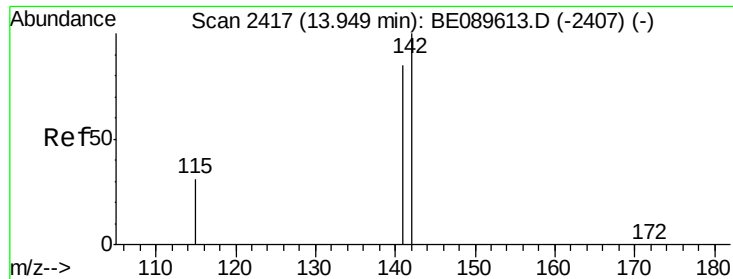


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 8.89 ng

RT: 13.95 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

Instrument :

BNA_E

LabSampleId :

SSTDIC010

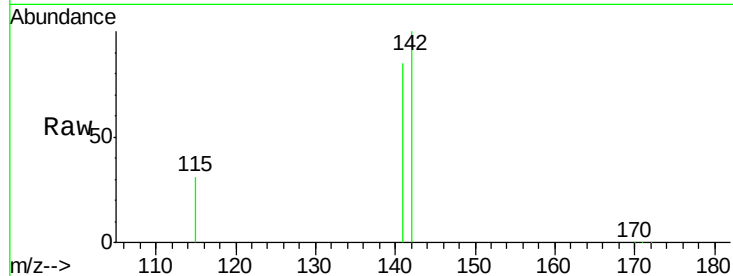
Tgt Ion:142 Resp: 278004

Ion Ratio Lower Upper

142 100

141 85.4 68.3 102.5

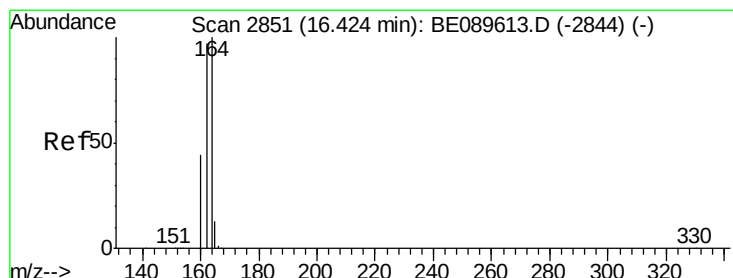
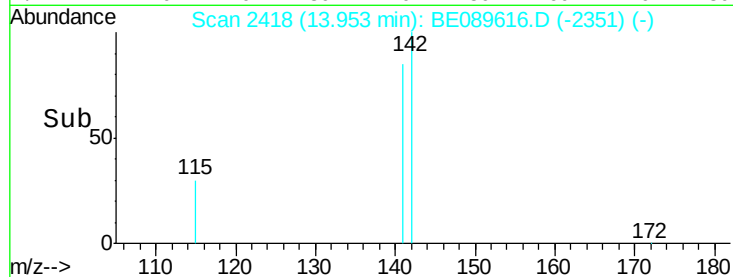
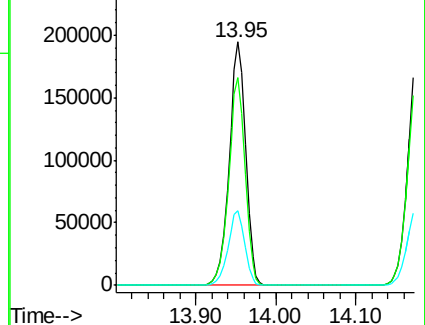
115 30.5 25.1 37.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

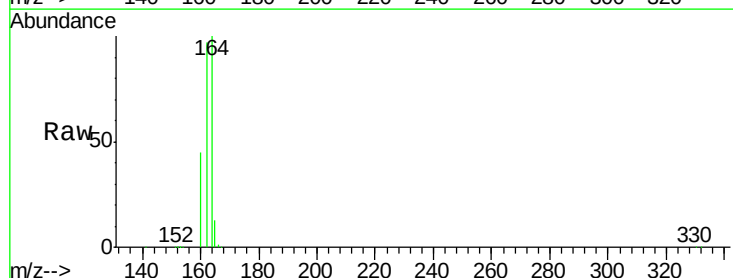
Tgt Ion:164 Resp: 99889

Ion Ratio Lower Upper

164 100

162 96.7 77.5 116.3

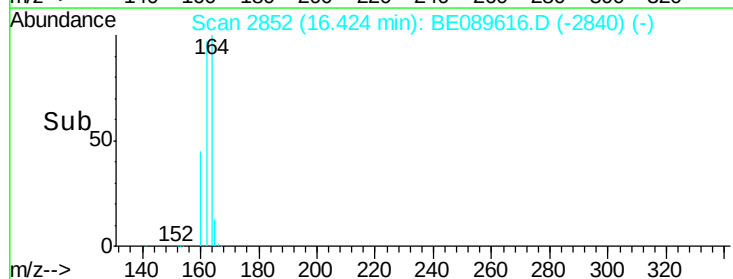
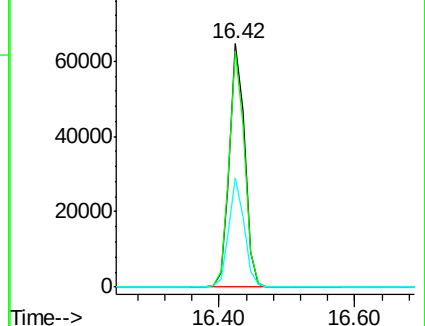
160 44.6 35.5 53.3

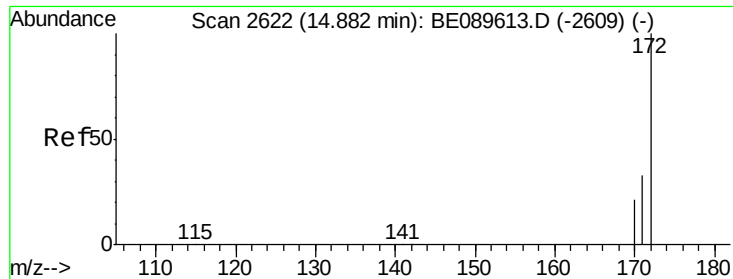


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 8.35 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

Instrument :

BNA_E

LabSampleId :

SSTDIC010

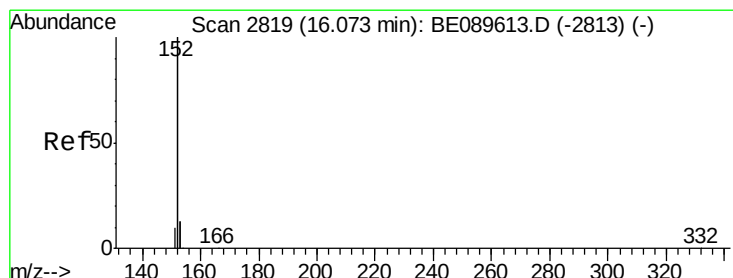
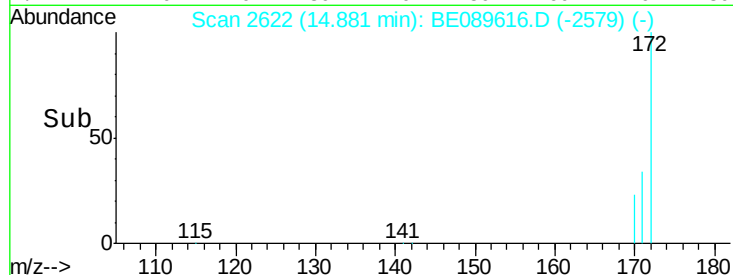
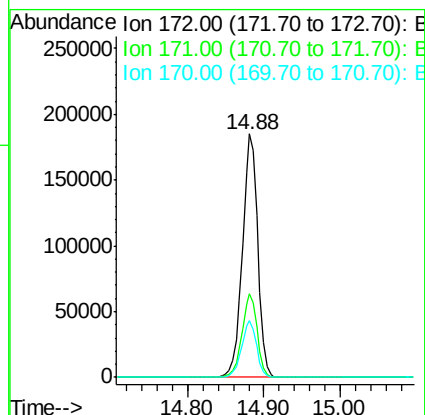
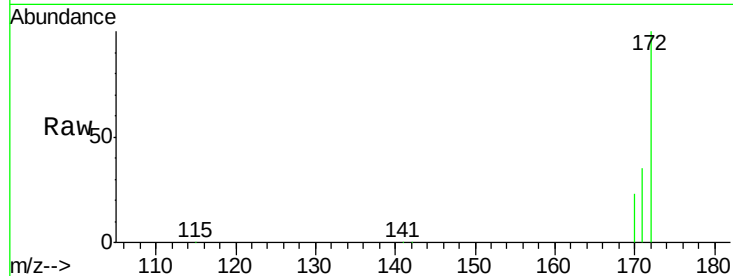
Tgt Ion:172 Resp: 259487

Ion Ratio Lower Upper

172 100

171 34.5 26.9 40.3

170 23.2 17.4 26.0



#10

Acenaphthylene

Concen: 9.26 ng

RT: 16.07 min Scan# 2820

Delta R.T. 0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

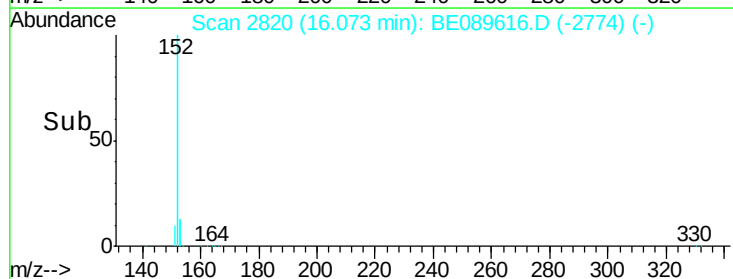
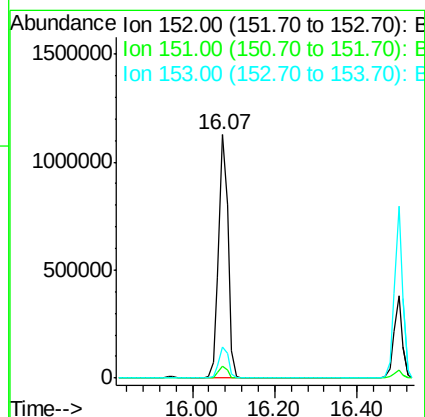
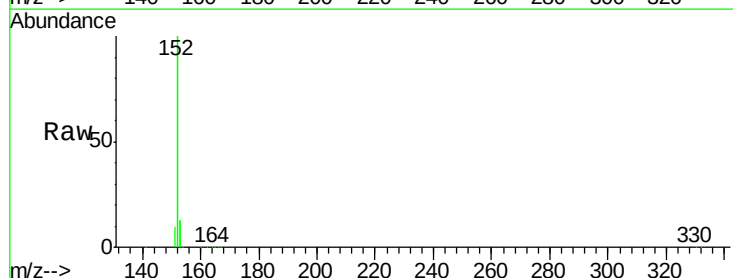
Tgt Ion:152 Resp: 1723980

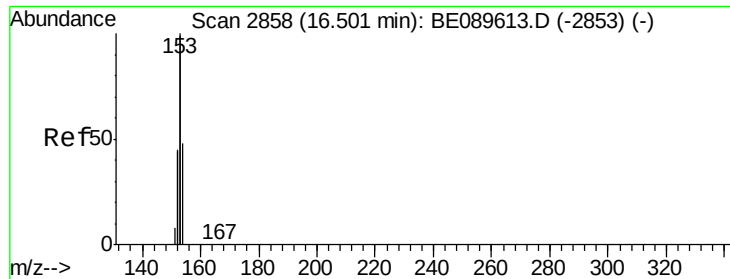
Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

153 13.3 10.5 15.7





#11

Acenaphthene

Concen: 8.52 ng

RT: 16.50 min Scan# 2859

Delta R.T. 0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

Instrument :

BNA_E

LabSampleId :

SSTDIC010

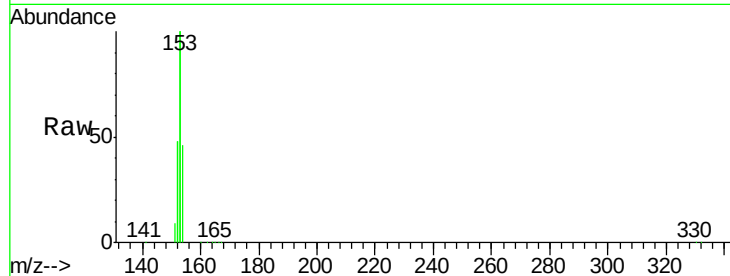
Tgt Ion:154 Resp: 259226

Ion Ratio Lower Upper

154 100

153 428.2 348.9 523.3

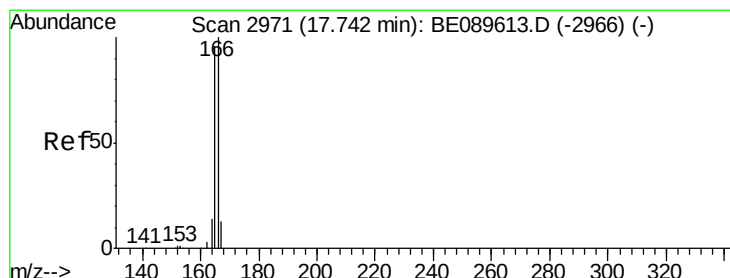
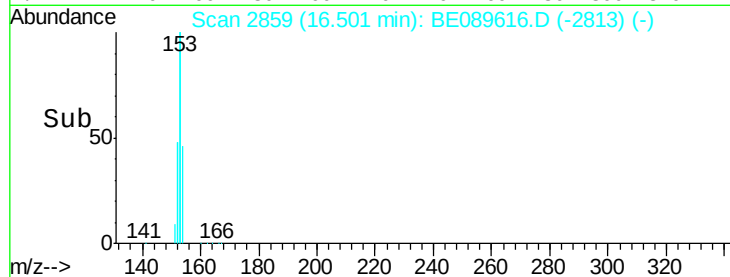
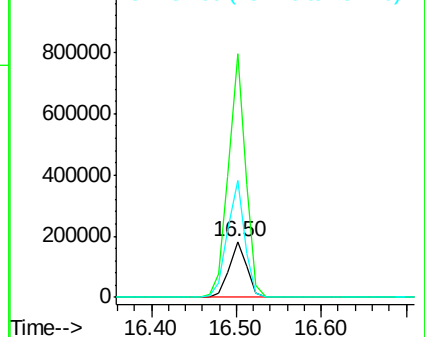
152 206.5 166.6 249.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#12

Fluorene

Concen: 9.14 ng

RT: 17.75 min Scan# 2973

Delta R.T. 0.01 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

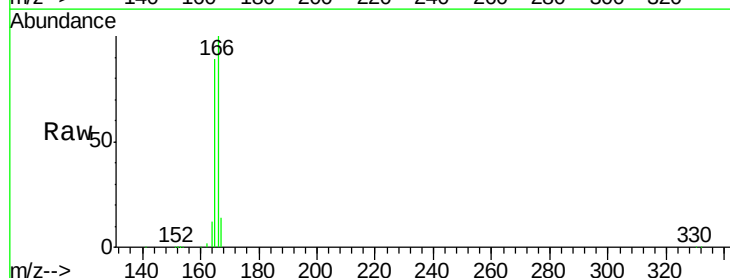
Tgt Ion:166 Resp: 312749

Ion Ratio Lower Upper

166 100

165 92.3 74.7 112.1

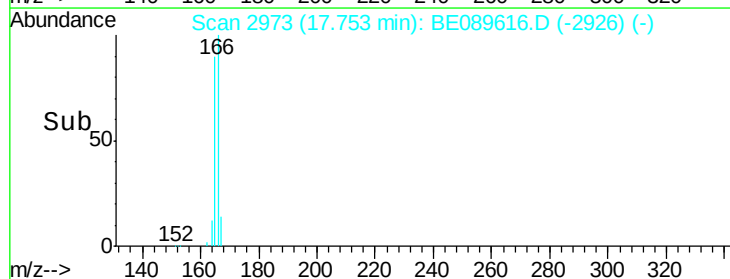
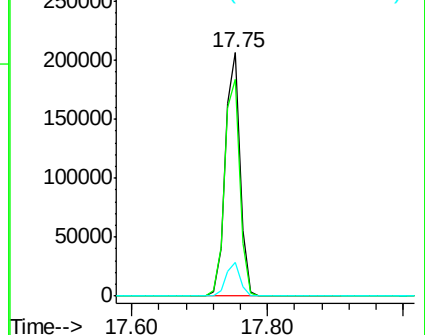
167 13.4 10.5 15.7

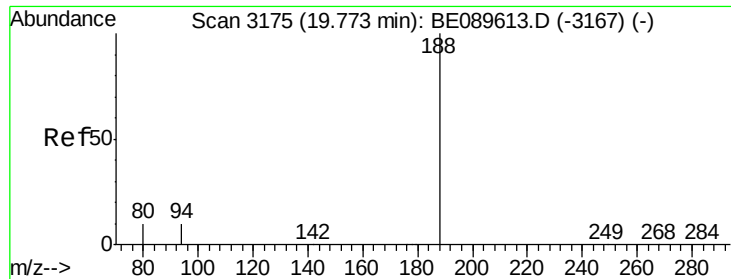


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE089616.D

Acq: 18 Feb 2015 5:26

Instrument :

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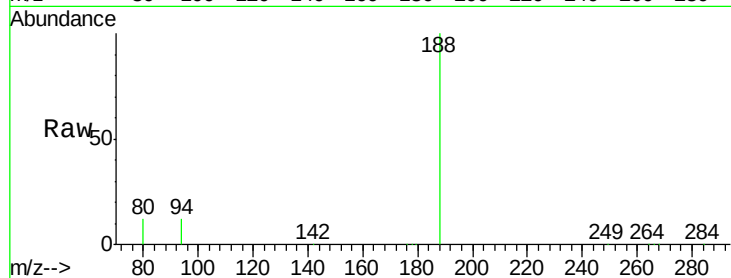
Tgt Ion:188 Resp: 196905

Ion Ratio Lower Upper

188 100

94 12.2 8.2 12.4

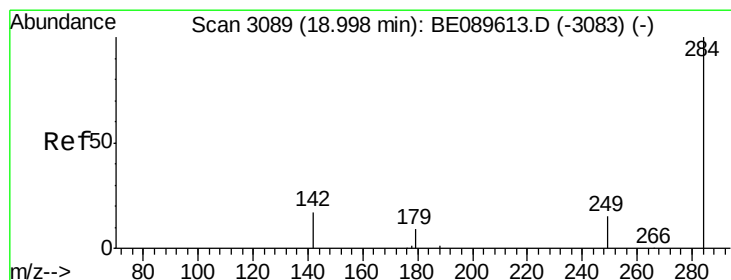
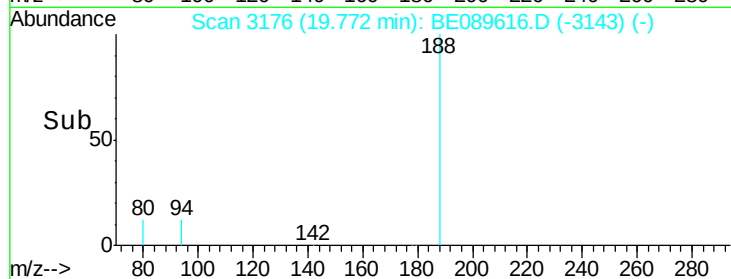
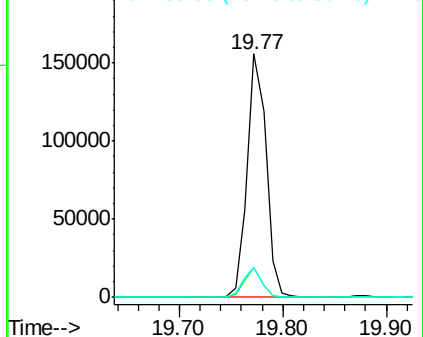
80 12.4 8.1 12.1#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#14

Hexachlorobenzene

Concen: 8.20 ng

RT: 19.00 min Scan# 3090

Delta R.T. -0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

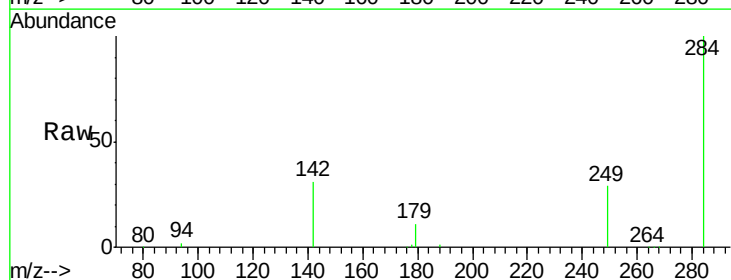
Tgt Ion:284 Resp: 83739

Ion Ratio Lower Upper

284 100

142 37.6 32.3 48.5

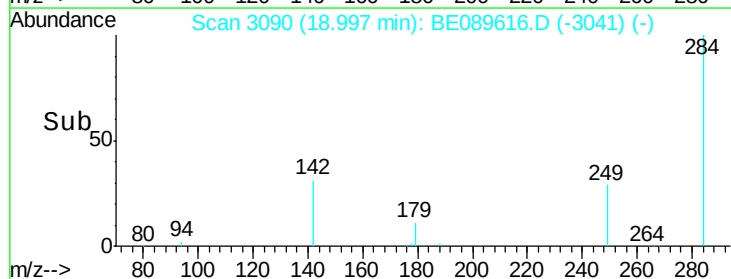
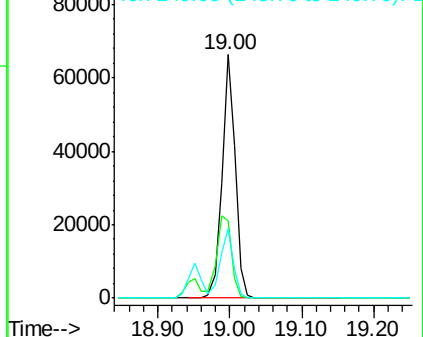
249 28.2 22.3 33.5

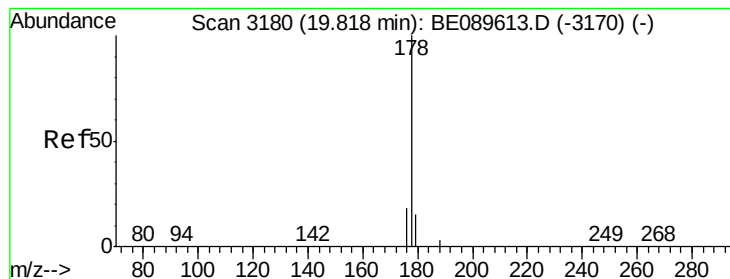


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#16

Phenanthrene

Concen: 8.19 ng

RT: 19.82 min Scan# 3181

Delta R.T. -0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

Instrument :

BNA_E

LabSampleId :

SSTDIC010

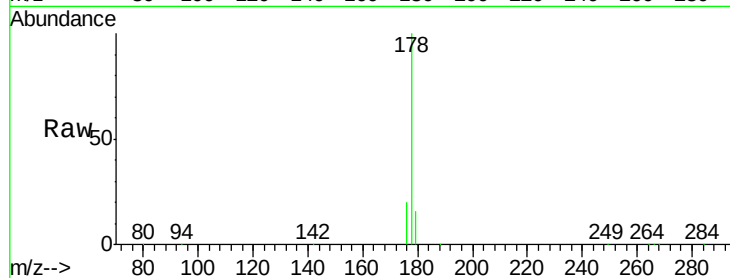
Tgt Ion:178 Resp: 471578

Ion Ratio Lower Upper

178 100

176 19.4 15.1 22.7

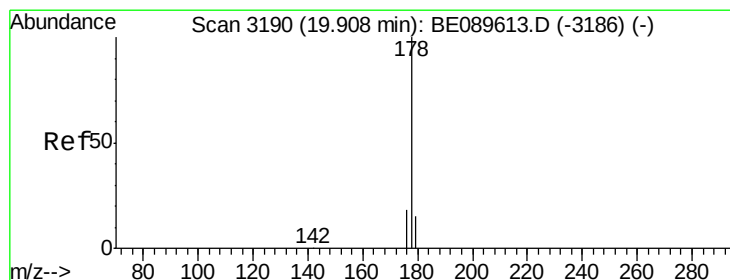
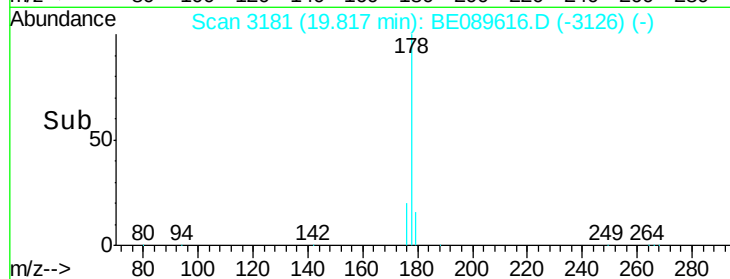
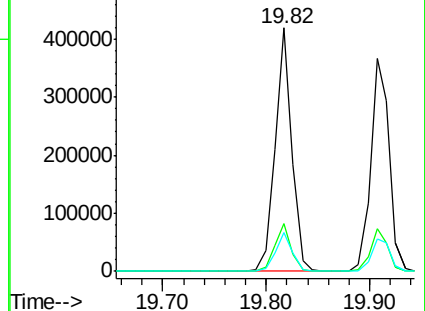
179 15.7 12.3 18.5



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: 9.73 ng

RT: 19.91 min Scan# 3191

Delta R.T. -0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

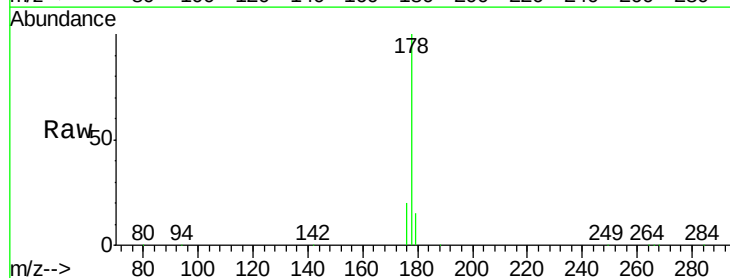
Tgt Ion:178 Resp: 460700

Ion Ratio Lower Upper

178 100

176 18.8 14.6 22.0

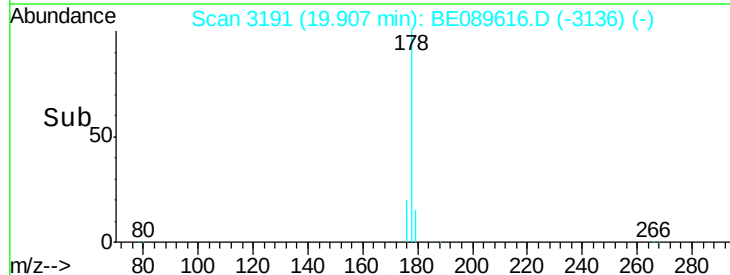
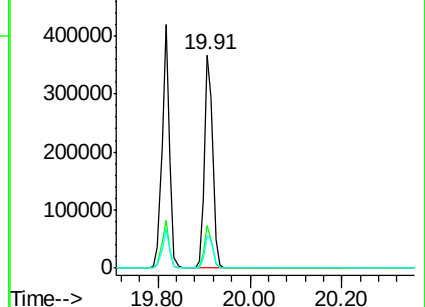
179 15.6 12.3 18.5

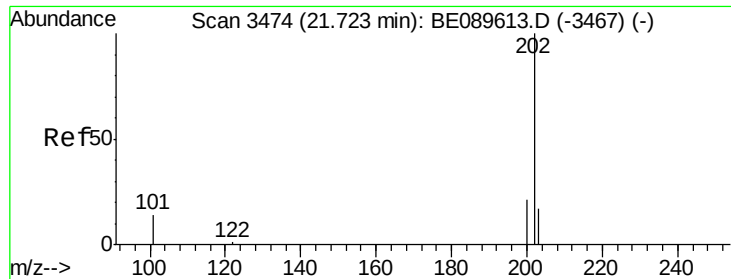


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

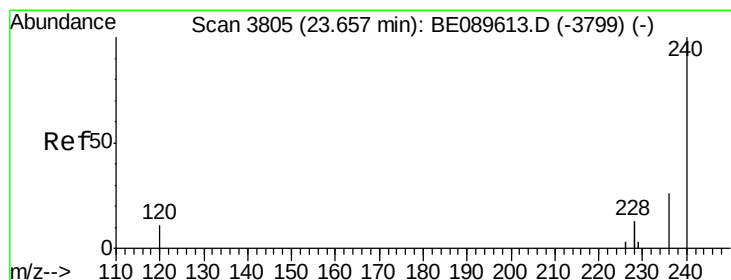
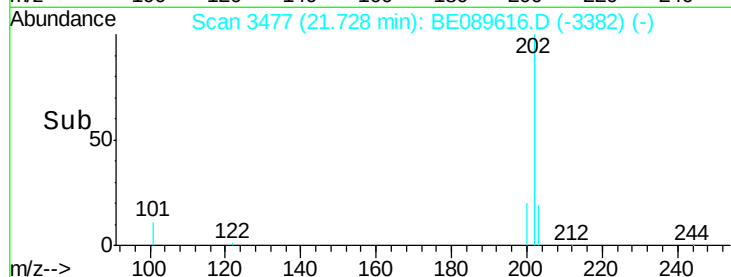
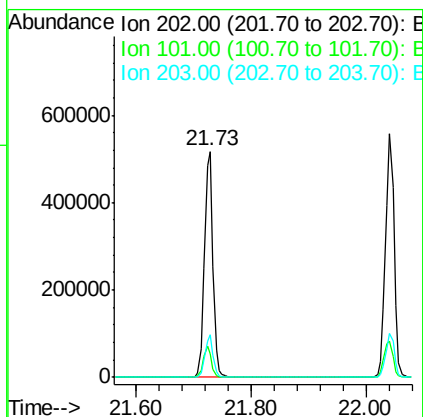
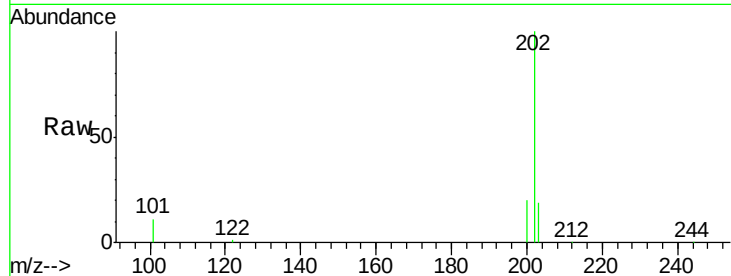




#18
 Fluoranthene
 Concen: 10.98 ng
 RT: 21.73 min Scan# 3477
 Delta R.T. 0.01 min
 Lab File: BE089616.D
 Acq: 18 Feb 2015 5:26

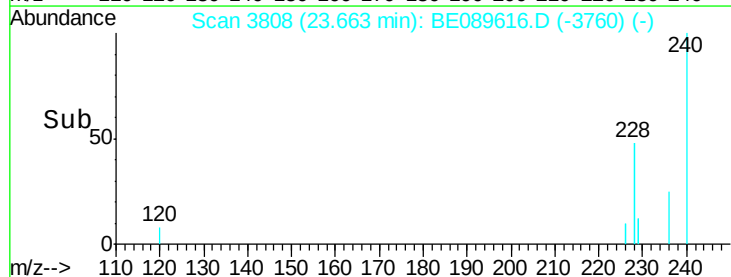
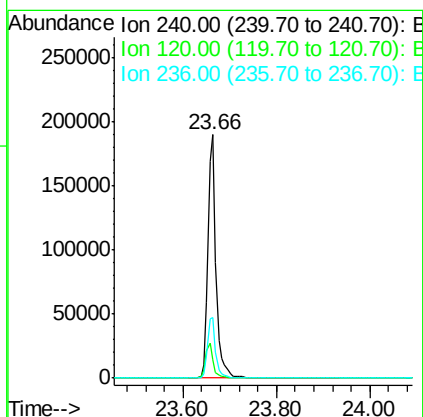
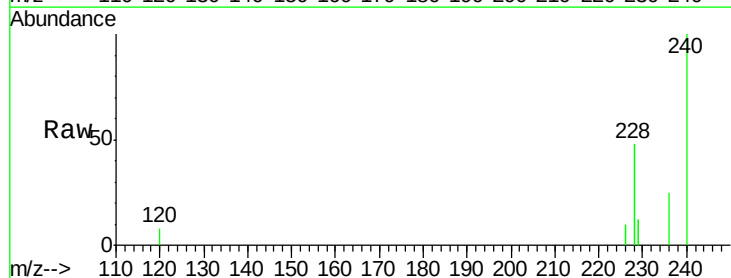
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC010

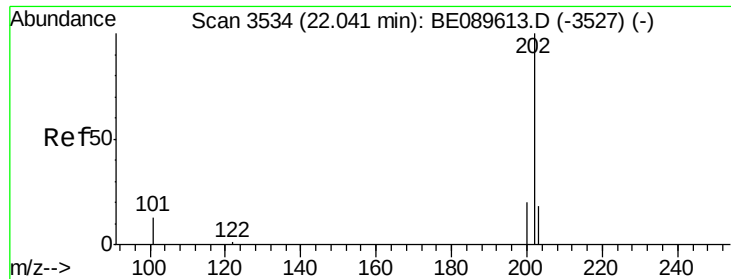
Tgt Ion: 202 Resp: 535691
 Ion Ratio Lower Upper
 202 100
 101 13.1 10.4 15.6
 203 17.8 13.9 20.9



#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.66 min Scan# 3808
 Delta R.T. 0.01 min
 Lab File: BE089616.D
 Acq: 18 Feb 2015 5:26

Tgt Ion: 240 Resp: 227056
 Ion Ratio Lower Upper
 240 100
 120 7.8 9.0 13.4#
 236 24.9 21.0 31.6

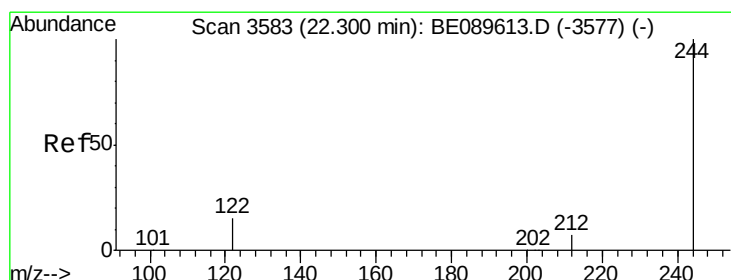
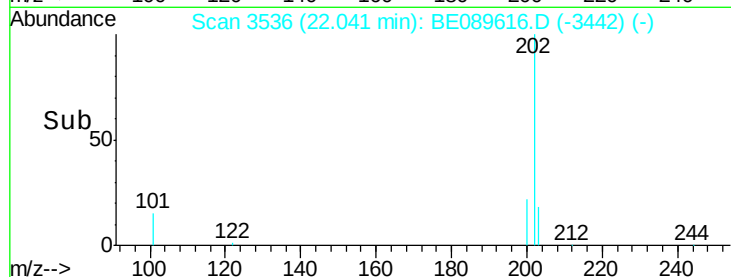
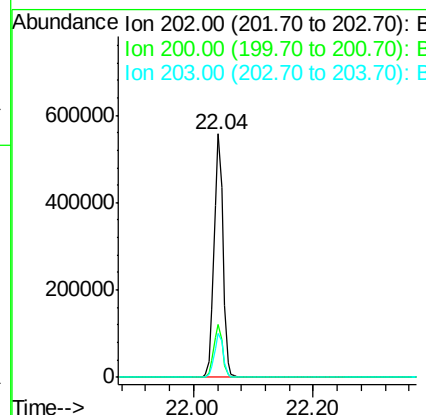
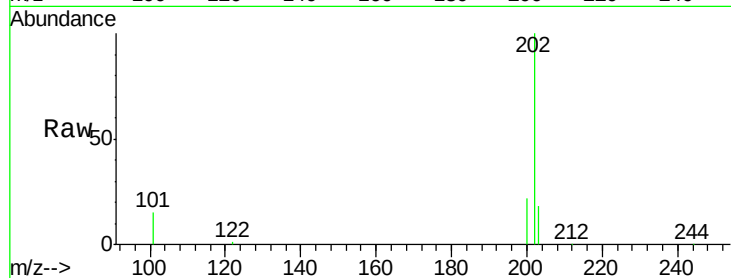




#20
 Pyrene
 Concen: 8.21 ng
 RT: 22.04 min Scan# 3536
 Delta R.T. 0.00 min
 Lab File: BE089616.D
 Acq: 18 Feb 2015 5:26

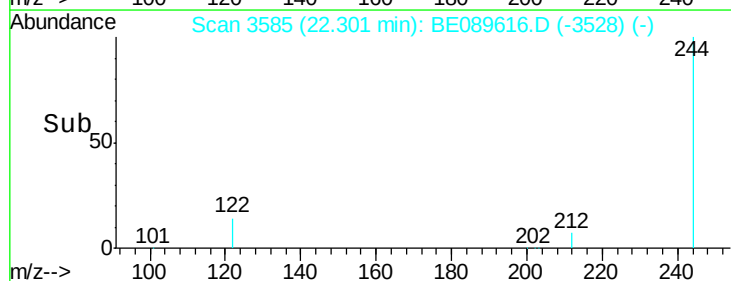
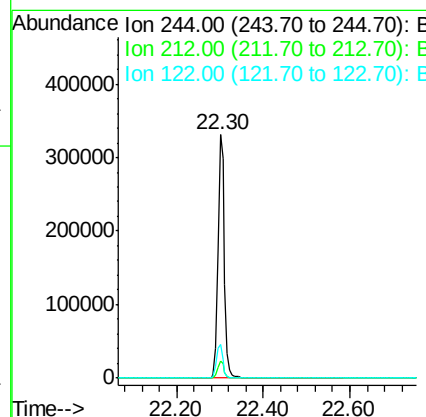
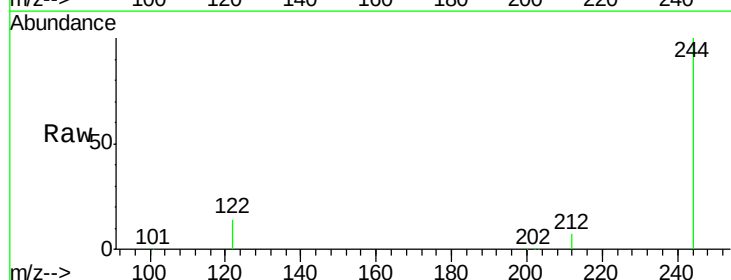
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC010

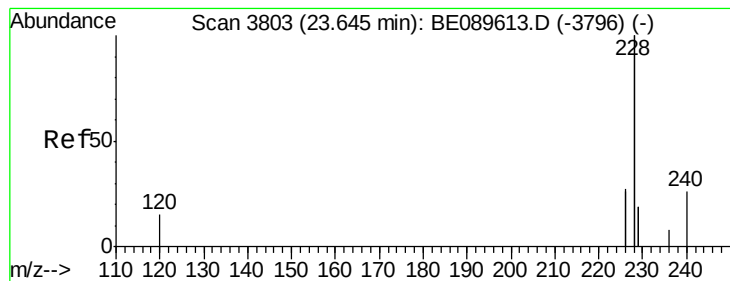
Tgt Ion: 202 Resp: 573371
 Ion Ratio Lower Upper
 202 100
 200 21.2 16.3 24.5
 203 18.0 13.8 20.8



#21
 Terphenyl-d14
 Concen: 8.01 ng
 RT: 22.30 min Scan# 3585
 Delta R.T. 0.00 min
 Lab File: BE089616.D
 Acq: 18 Feb 2015 5:26

Tgt Ion: 244 Resp: 330672
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.8 8.8
 122 14.0 11.8 17.8





#22

Benzo(a)anthracene

Concen: 9.64 ng

RT: 23.64 min Scan# 3805

Delta R.T. -0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

Instrument :

BNA_E

LabSampleId :

SSTDICC010

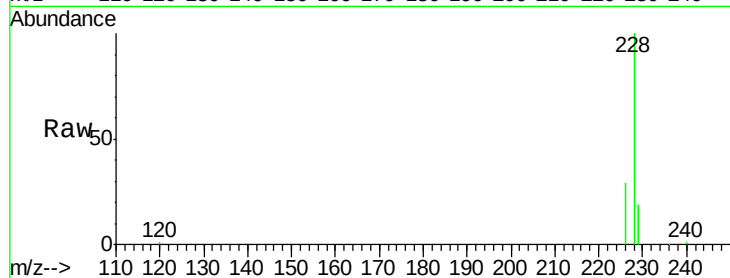
Tgt Ion:228 Resp: 2212836

Ion Ratio Lower Upper

228 100

226 28.8 21.2 31.8

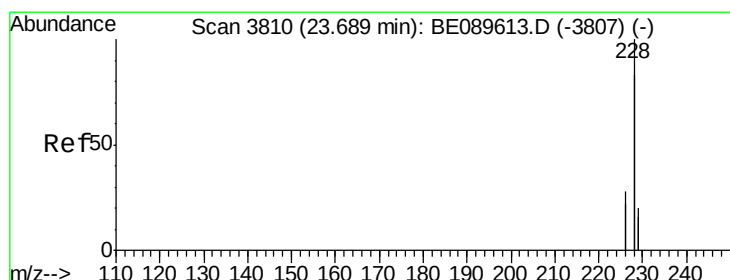
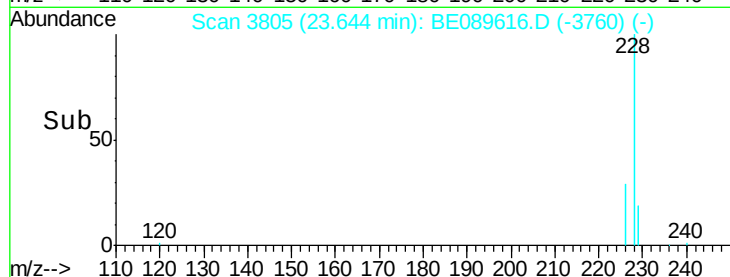
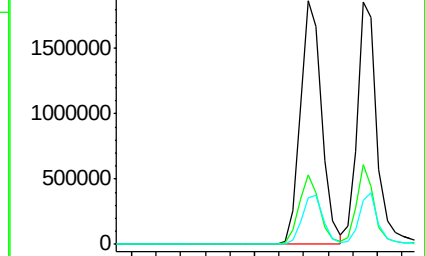
229 19.1 15.2 22.8



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: 7.89 ng

RT: 23.69 min Scan# 3812

Delta R.T. -0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

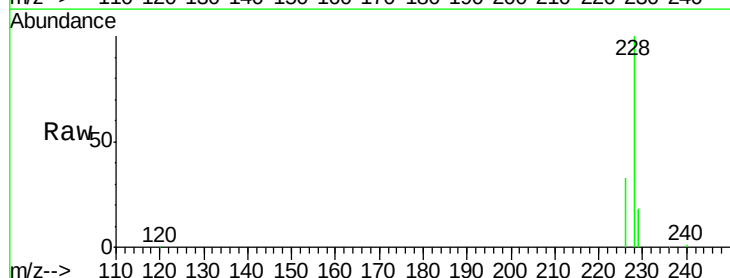
Tgt Ion:228 Resp: 2121364

Ion Ratio Lower Upper

228 100

226 32.9 22.2 33.4

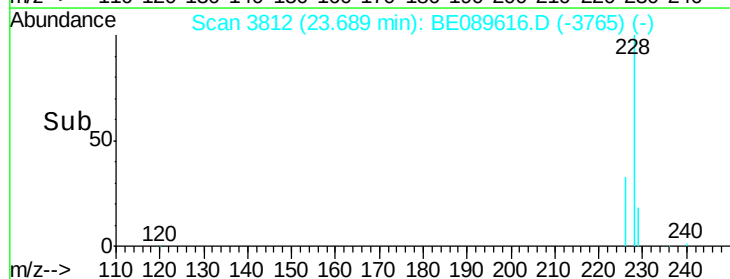
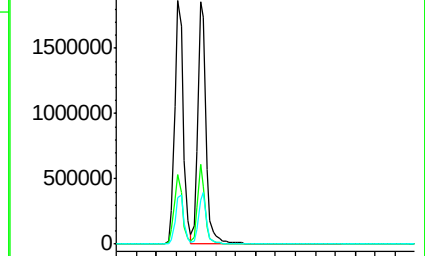
229 18.1 16.0 24.0

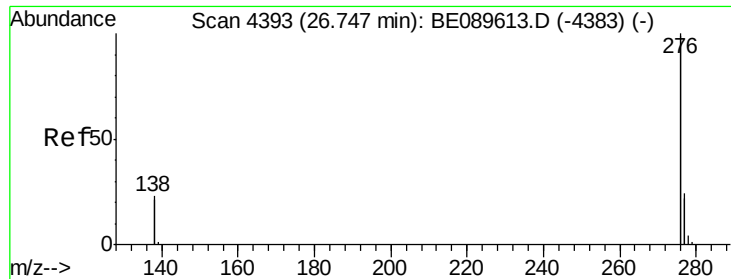


Abundance Ion 228.00 (227.70 to 228.70): E

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: 10.48 ng

RT: 26.76 min Scan# 4397

Delta R.T. 0.01 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

Instrument :

BNA_E

LabSampleId :

SSTDICC010

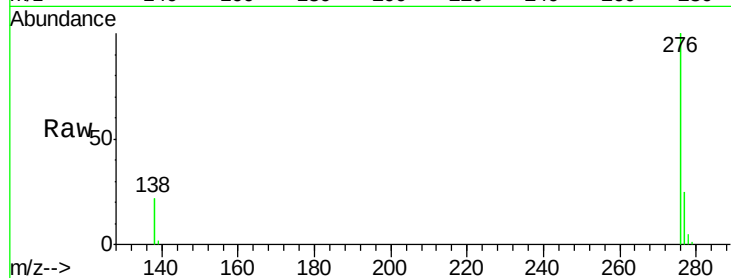
Tgt Ion:276 Resp: 2042752

Ion Ratio Lower Upper

276 100

138 27.1 21.4 32.2

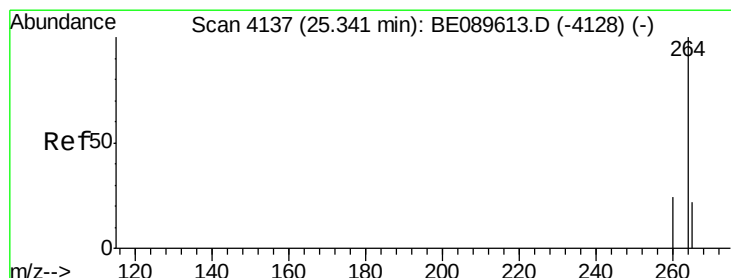
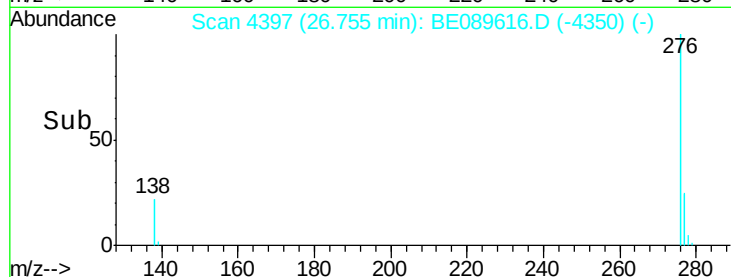
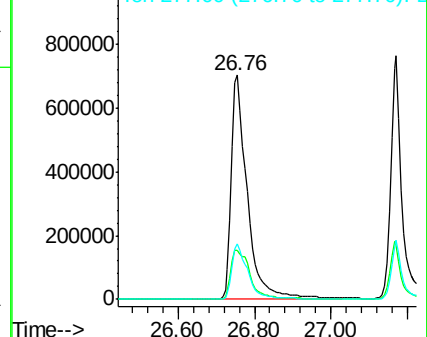
277 25.2 19.9 29.9



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# 4139

Delta R.T. -0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

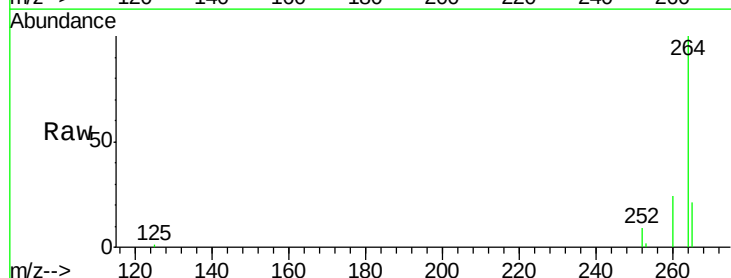
Tgt Ion:264 Resp: 183566

Ion Ratio Lower Upper

264 100

260 24.3 19.0 28.6

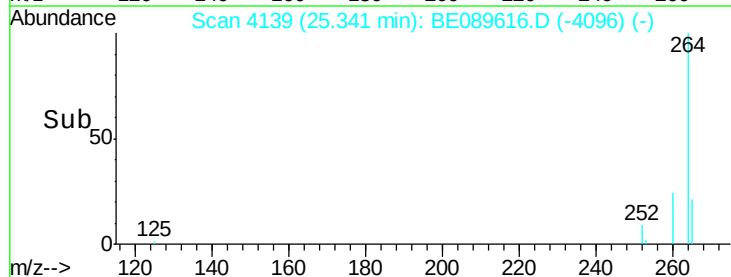
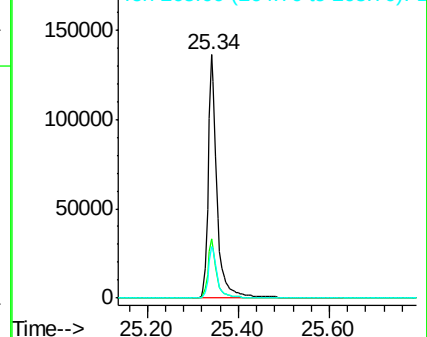
265 21.4 17.4 26.0

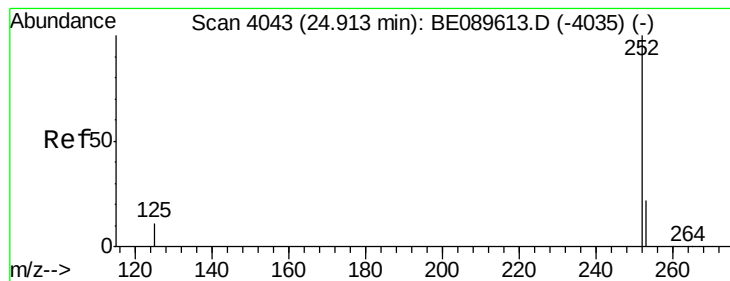


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#26

Benzo(b)fluoranthene

Concen: 12.42 ng

RT: 24.92 min Scan# 4046

Delta R.T. 0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

Instrument :

BNA_E

LabSampleId :

SSTDIC010

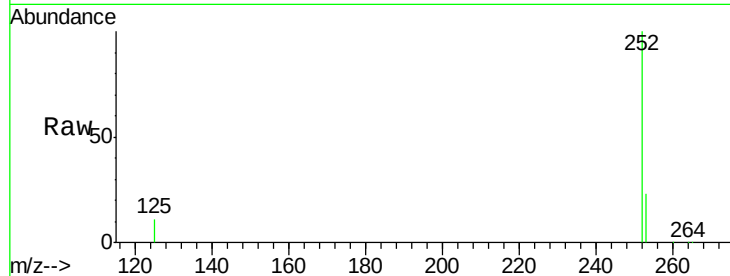
Tgt Ion:252 Resp: 448414

Ion Ratio Lower Upper

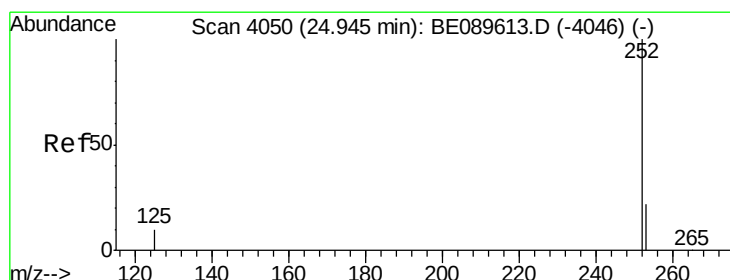
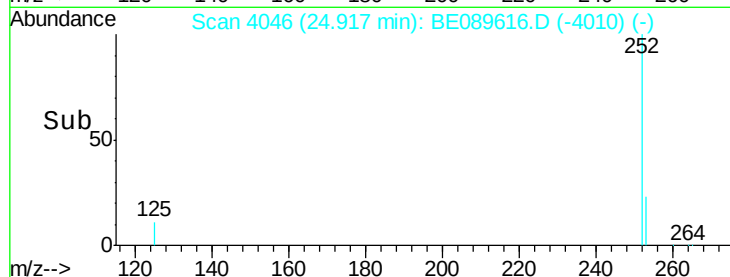
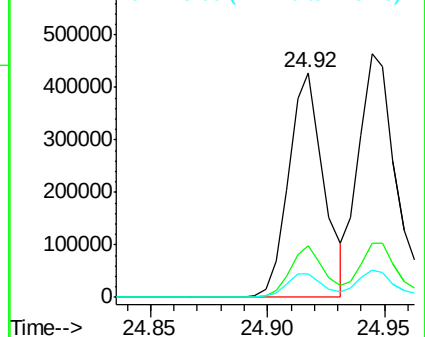
252 100

253 23.0 17.6 26.4

125 10.7 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



#27

Benzo(k)fluoranthene

Concen: 9.65 ng

RT: 24.94 min Scan# 4052

Delta R.T. -0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

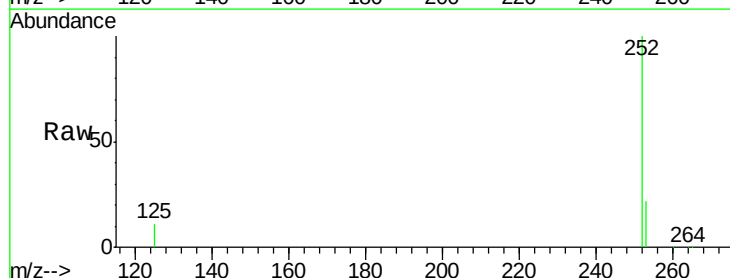
Tgt Ion:252 Resp: 570881

Ion Ratio Lower Upper

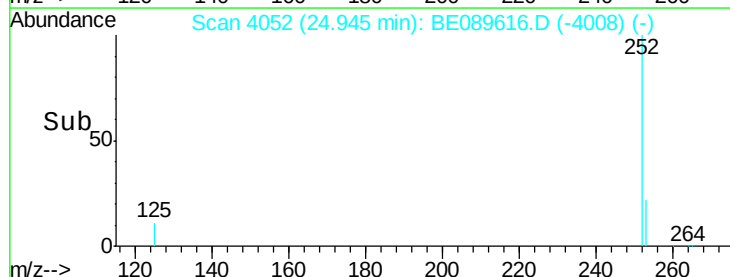
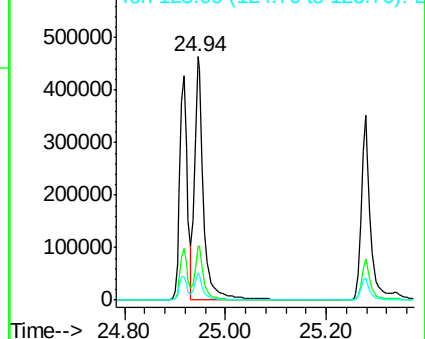
252 100

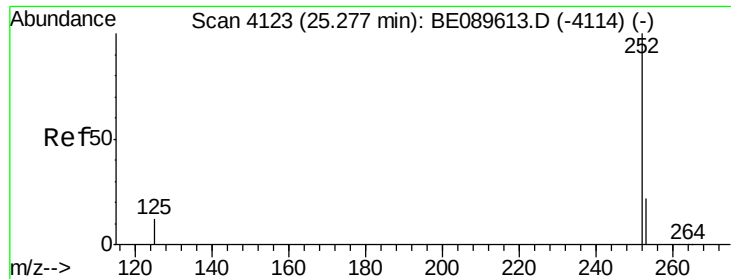
253 22.1 17.7 26.5

125 11.3 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: 12.10 ng

RT: 25.28 min Scan# 4125

Delta R.T. -0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

Instrument :

BNA_E

LabSampleId :

SSTDICC010

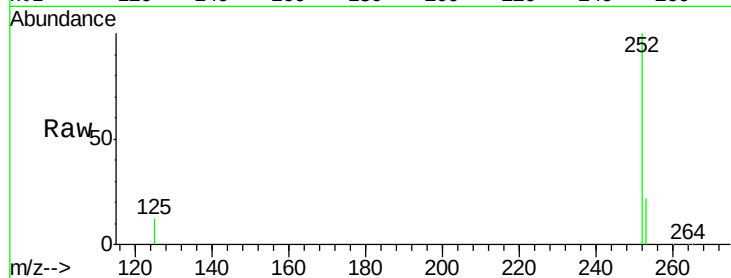
Tgt Ion: 252 Resp: 422826

Ion Ratio Lower Upper

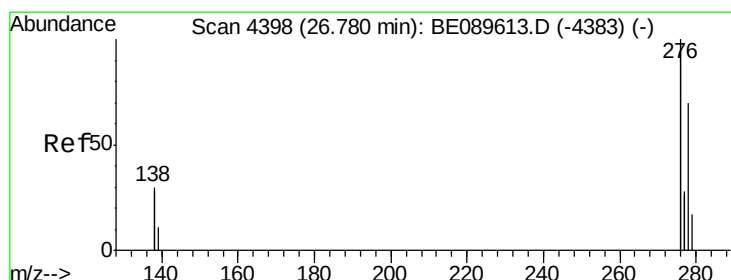
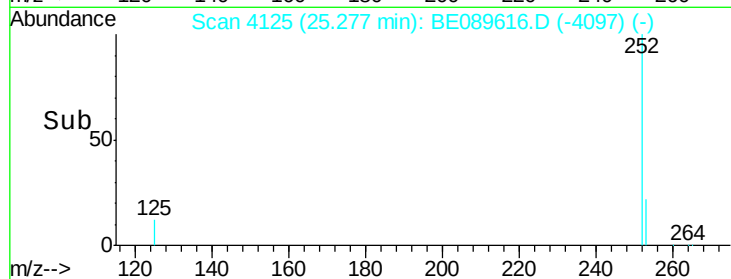
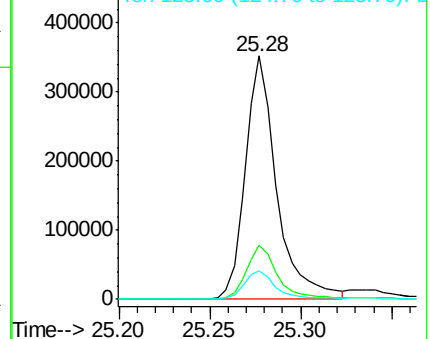
252 100

253 22.3 18.1 27.1

125 11.9 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: 11.56 ng

RT: 26.78 min Scan# 4401

Delta R.T. 0.00 min

Lab File: BE089616.D

Acq: 18 Feb 2015 5:26

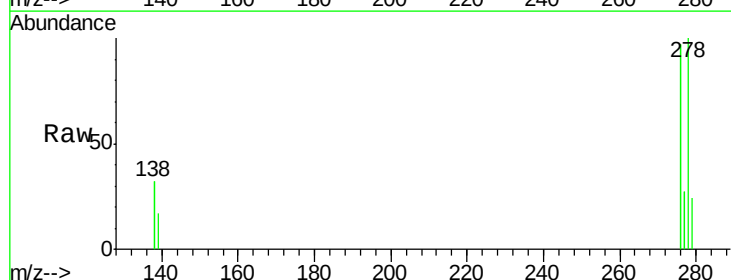
Tgt Ion: 278 Resp: 408045

Ion Ratio Lower Upper

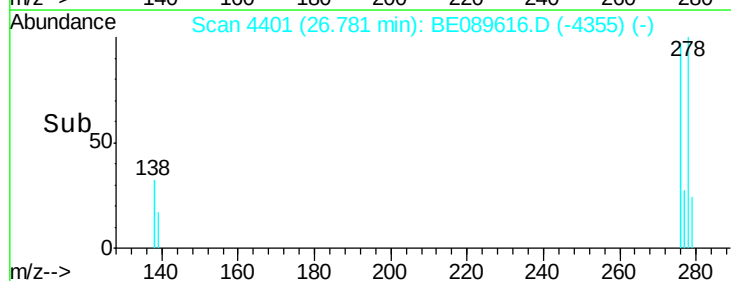
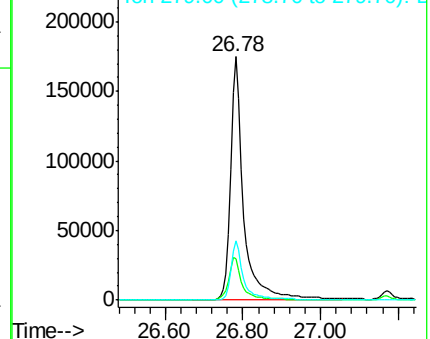
278 100

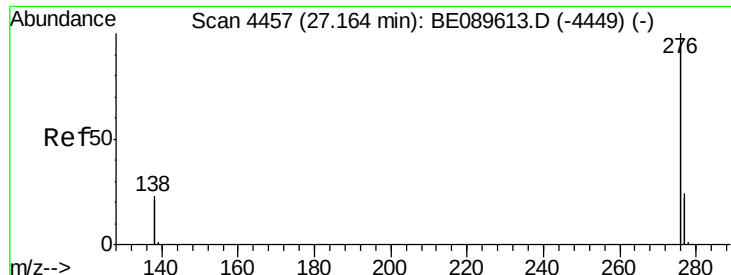
139 17.2 13.7 20.5

279 24.2 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: 9.62 ng

RT: 27.17 min Scan# 4461

Delta R.T. 0.01 min

Lab File: BE089616.D

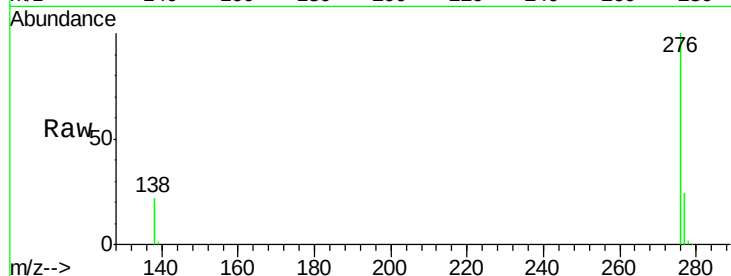
Acq: 18 Feb 2015 5:26

Instrument :

BNA_E

LabSampleId :

SSTDIC010



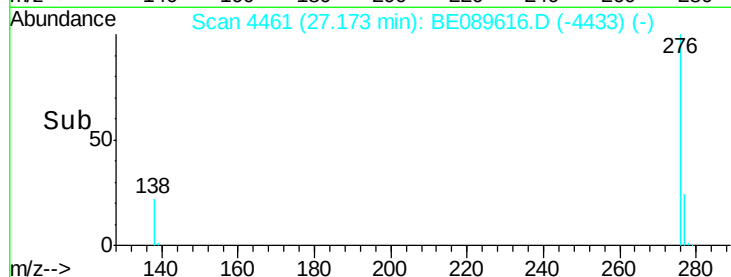
Tgt Ion:276 Resp: 1659692

Ion Ratio Lower Upper

276 100

277 24.5 19.1 28.7

138 22.4 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

