

Data Path : Z:\HPCHEM1\BNA E\DATA\BE031616\
 Data File : BE091453.D
 Acq On : 16 Mar 2016 21:16
 Operator : UM/SJ
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 17 07:09:10 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIM-BE031616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 17 07:07:36 2016
 Response via : Initial Calibration

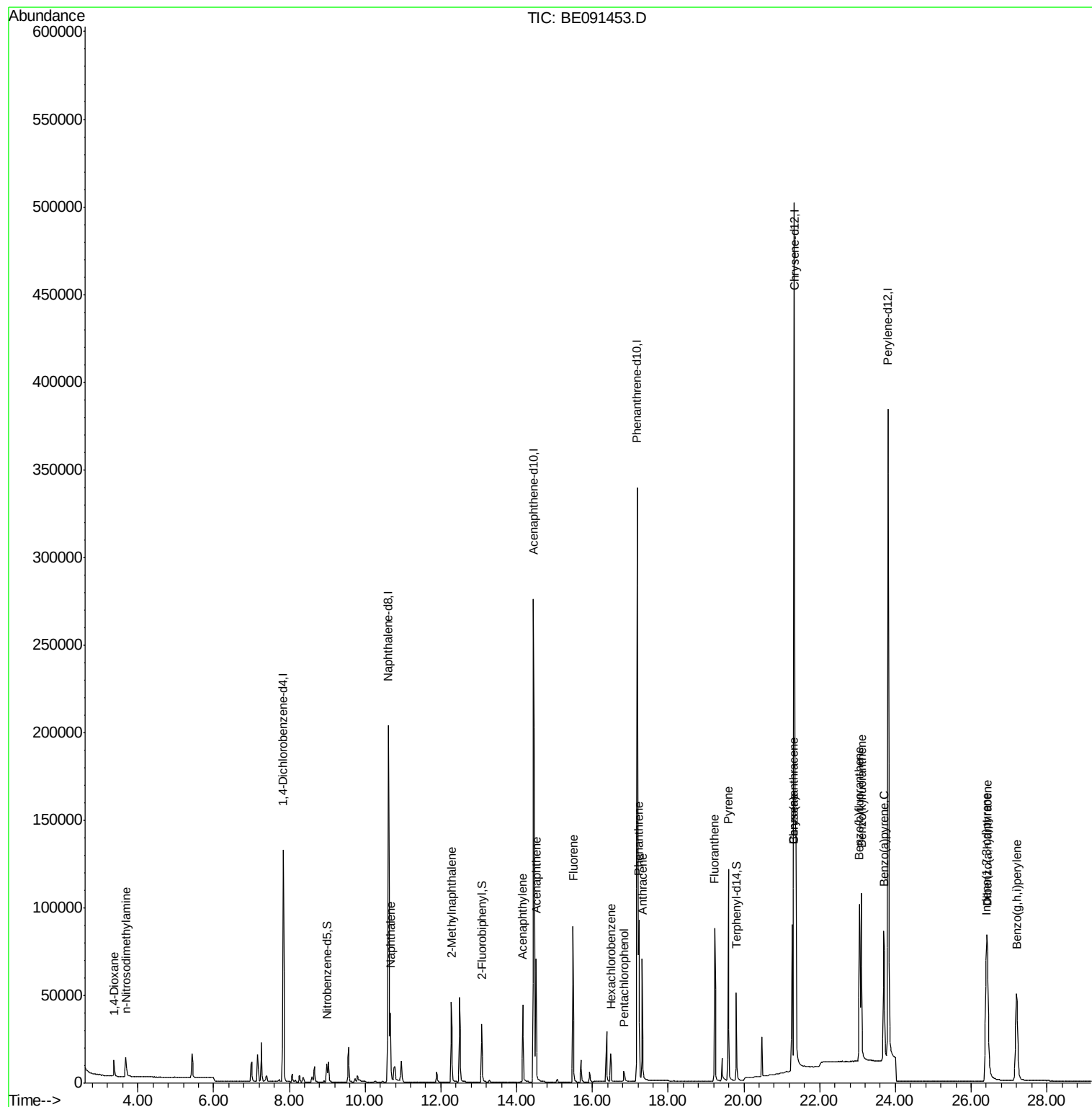
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	69285	5.00	ng	0.00
4) Naphthalene-d8	10.61	136	314989	5.00	ng	0.00
8) Acenaphthene-d10	14.45	164	187724	5.00	ng	0.00
13) Phenanthrene-d10	17.18	188	474071	5.00	ng	0.00
19) Chrysene-d12	21.34	240	583809	5.00	ng	0.00
25) Perylene-d12	23.81	264	598642	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.99	82	10075	0.69	ng	0.00
9) 2-Fluorobiphenyl	13.08	172	37256	0.82	ng	0.00
21) Terphenyl-d14	19.80	244	64188	0.73	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	3.37	88	6305	0.99	ng	# 100
3) n-Nitrosodimethylamine	3.68	42	9751	1.32	ng	# 100
6) Naphthalene	10.67	128	58997	0.81	ng	99
7) 2-Methylnaphthalene	12.27	142	38178	0.88	ng	97
10) Acenaphthylene	14.16	152	58629	0.21	ng	# 100
11) Acenaphthene	14.51	154	44575	0.79	ng	# 100
12) Fluorene	15.49	166	56919	0.78	ng	# 100
14) Hexachlorobenzene	16.48	284	15215	0.57	ng	# 100
15) Pentachlorophenol	16.83	266	5834	0.98	ng	# 79
16) Phenanthrene	17.23	178	102523	0.63	ng	# 100
17) Anthracene	17.32	178	88610	0.38	ng	# 100
18) Fluoranthene	19.22	202	115428	0.49	ng	# 67
20) Pyrene	19.59	202	126286	0.76	ng	# 93
22) Benzo(a)anthracene	21.31	228	150769	0.75	ng	100
23) Chrysene	21.31	228	150691	0.72	ng	# 85
24) Indeno(1,2,3-cd)pyrene	26.40	276	150661	0.84	ng	# 100
26) Benzo(b)fluoranthene	23.04	252	153115	0.88	ng	95
27) Benzo(k)fluoranthene	23.10	252	135175	0.84	ng	96
28) Benzo(a)pyrene	23.69	252	126171	0.86	ng	96
29) Dibenzo(a,h)anthracene	26.43	278	125031	0.88	ng	99
30) Benzo(g,h,i)perylene	27.20	276	133041	0.88	ng	98

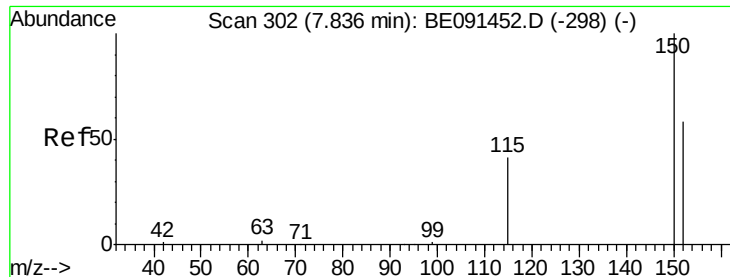
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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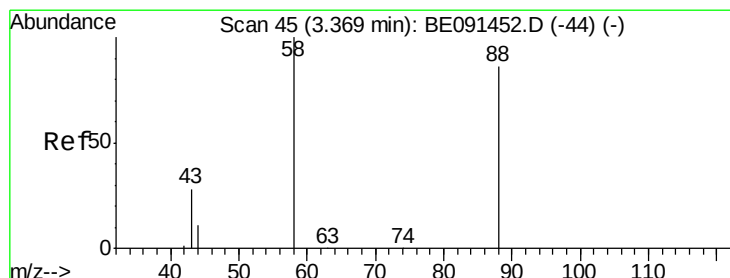
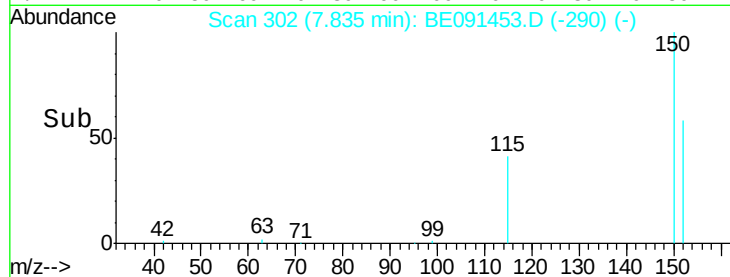
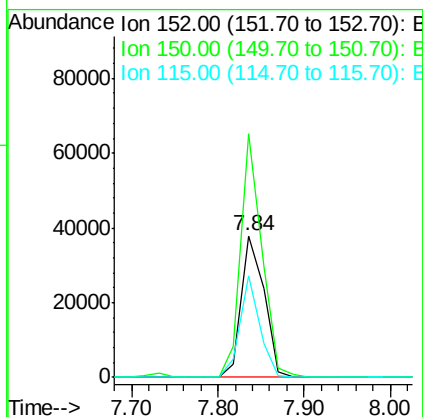
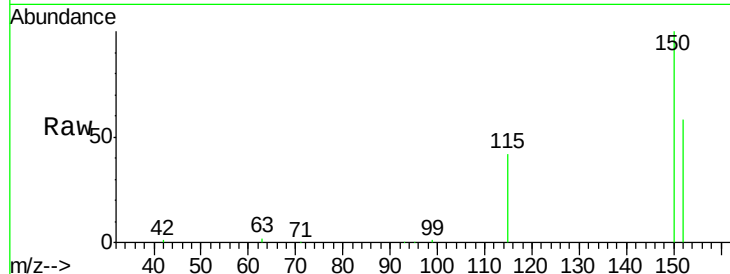




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 7.84 min Scan# 302
 Delta R.T. -0.00 min
 Lab File: BE091453.D
 Acq: 16 Mar 2016 21:16

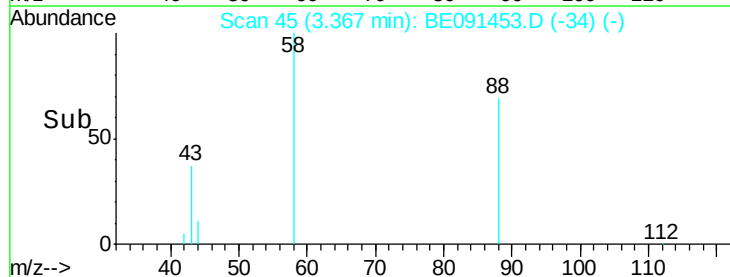
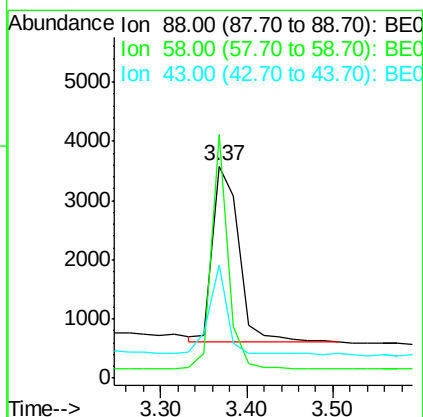
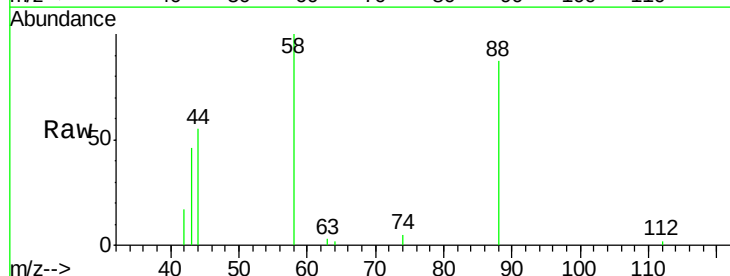
Instrument :
 BNA_E
 ClientSampleId :

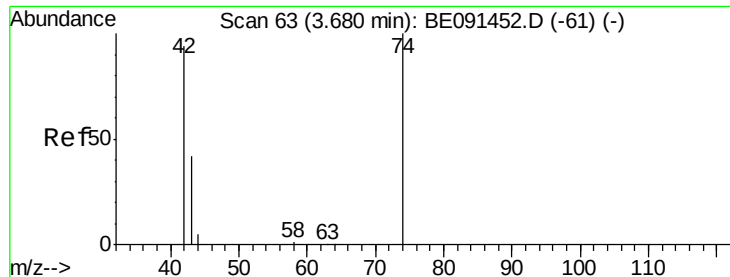
Tot Ion:152 Resp: 69285
 Ion Ratio Lower Upper
 152 100
 150 171.8 136.8 205.2
 115 71.4 56.9 85.3



#2
 1,4-Dioxane
 Concen: 0.99 ng
 RT: 3.37 min Scan# 45
 Delta R.T. -0.00 min
 Lab File: BE091453.D
 Acq: 16 Mar 2016 21:16

Tgt Ion: 88 Resp: 6305
 Ion Ratio Lower Upper
 88 100
 58 83.7 0.0 0.0#
 43 37.1 0.0 0.0#





#3

n-Nitrosodimethylamine

Concen: 1.32 ng

RT: 3.68 min Scan# 63

Delta R.T. -0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

Instrument :

BNA_E

ClientSampleId :

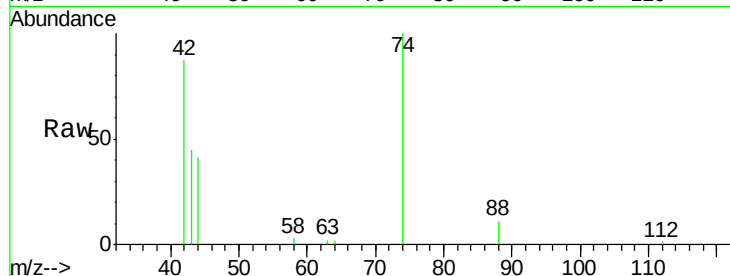
Tot Ion: 42 Resp: 9751

Ion Ratio Lower Upper

42 100

74 106.9 0.0 0.0#

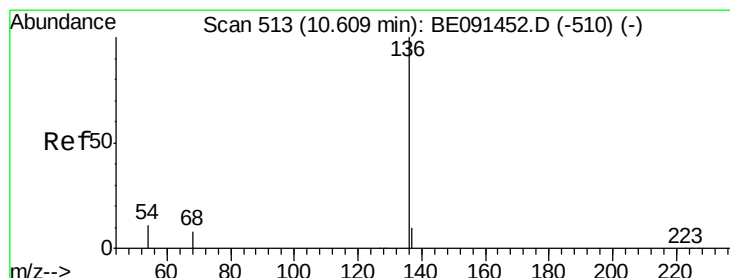
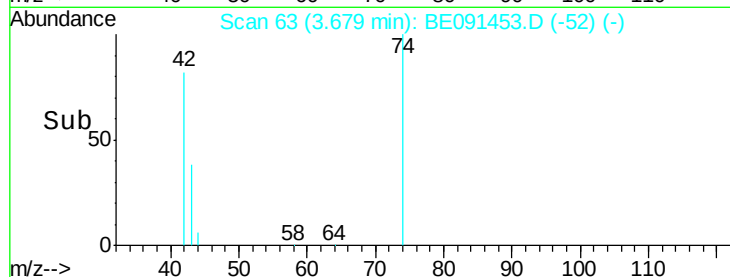
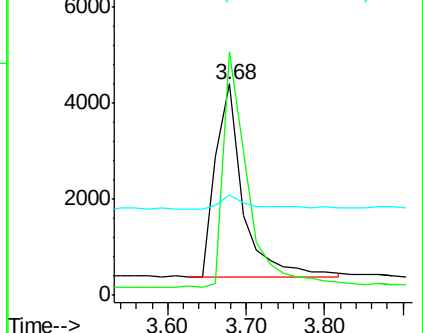
44 7.5 0.0 0.0#



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: 10.61 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

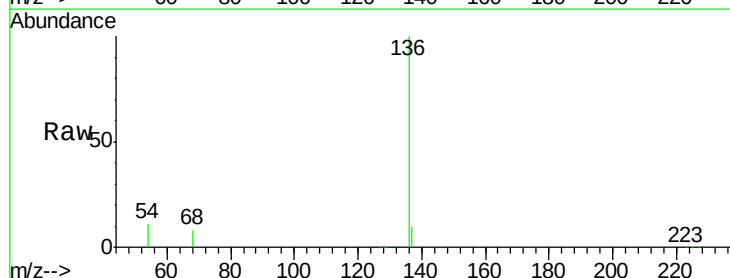
Tgt Ion: 136 Resp: 314989

Ion Ratio Lower Upper

136 100

137 10.1 8.0 12.0

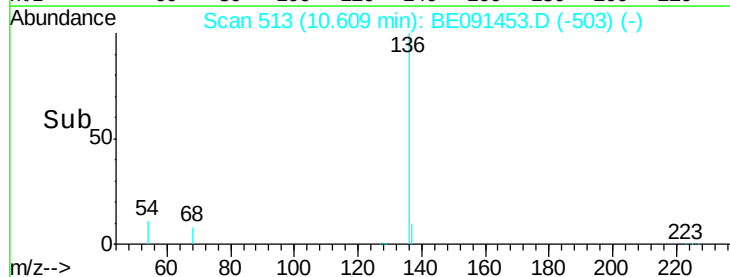
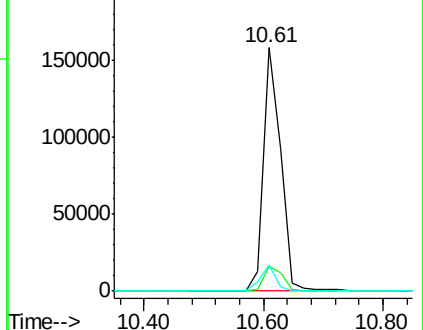
54 10.7 9.1 13.7

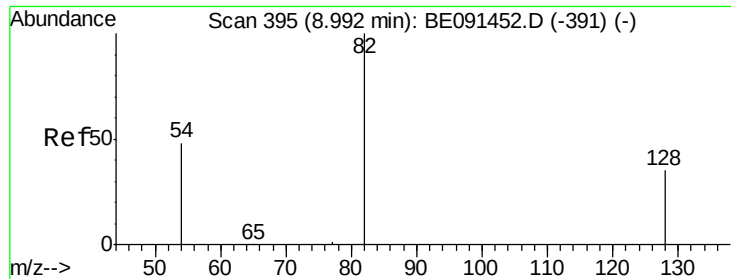


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 0.69 ng

RT: 8.99 min Scan# 395

Delta R.T. 0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

Instrument :

BNA_E

ClientSampleId :

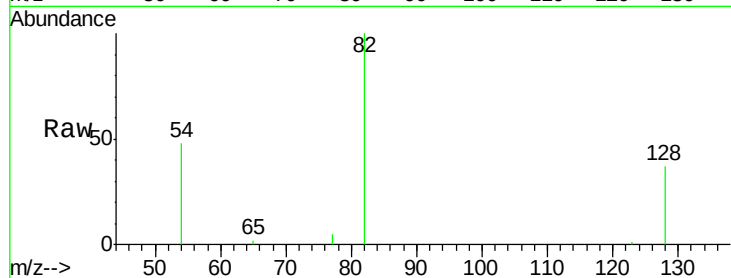
Tot Ion: 82 Resp: 10075

Ion Ratio Lower Upper

82 100

128 37.3 29.4 44.2

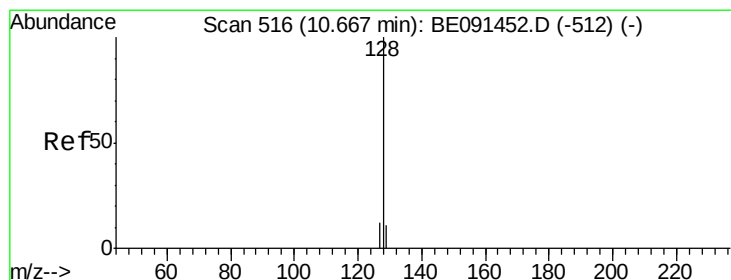
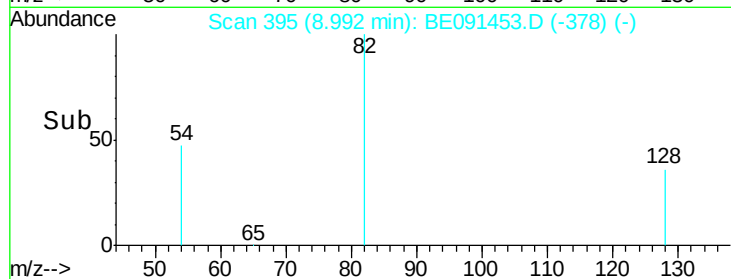
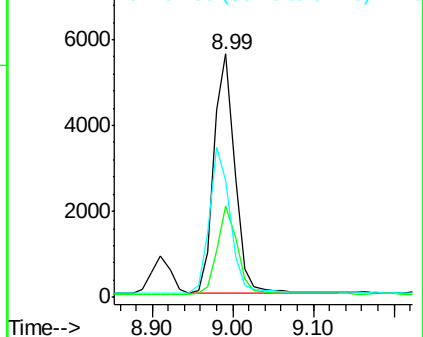
54 48.2 39.8 59.8



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 0.81 ng

RT: 10.67 min Scan# 516

Delta R.T. 0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

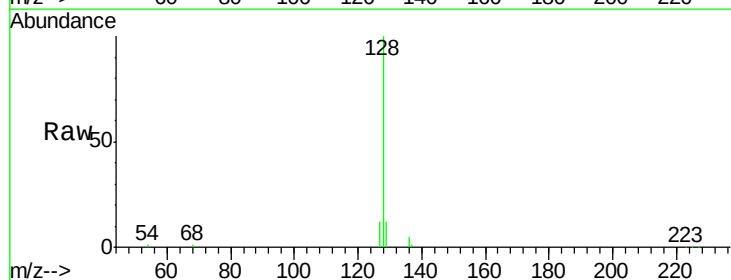
Tgt Ion: 128 Resp: 58997

Ion Ratio Lower Upper

128 100

129 11.8 9.4 14.0

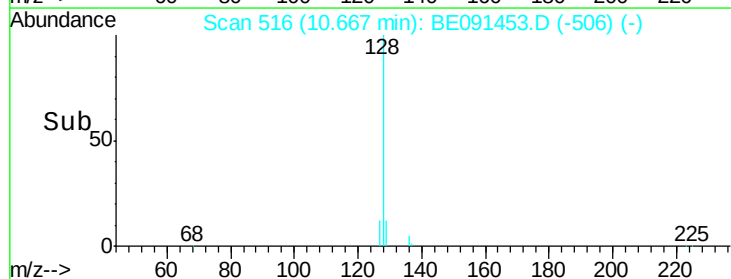
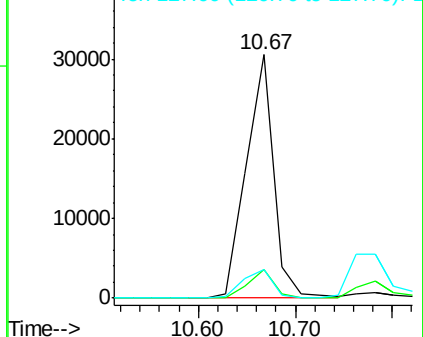
127 11.8 9.7 14.5

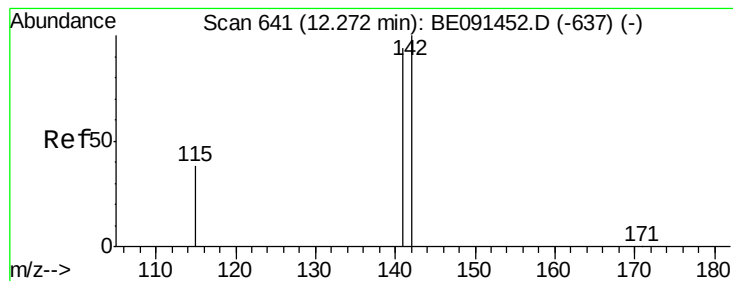


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.88 ng

RT: 12.27 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

Instrument :

BNA_E

ClientSampleId :

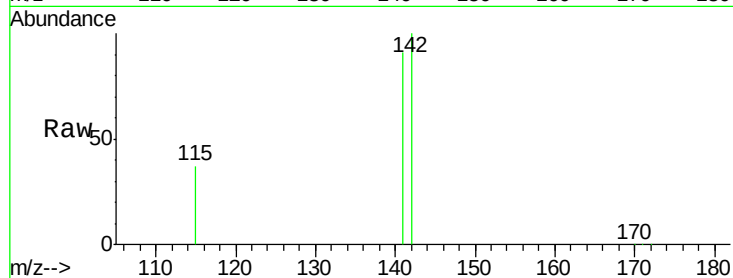
Tot Ion:142 Resp: 38178

Ion Ratio Lower Upper

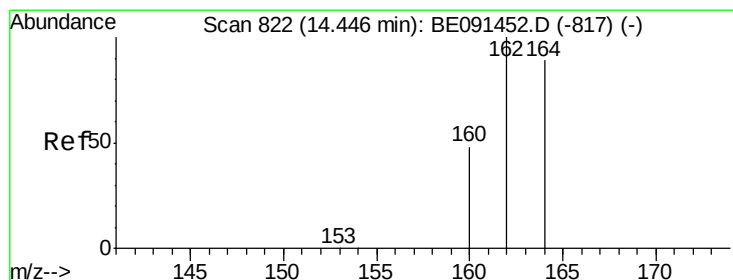
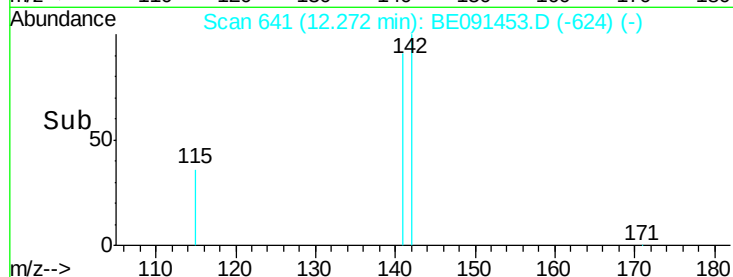
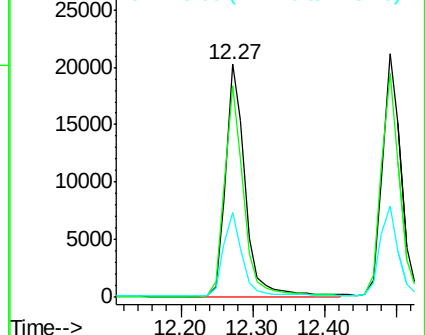
142 100

141 90.7 75.0 112.4

115 36.6 30.8 46.2



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: 14.45 min Scan# 822

Delta R.T. 0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

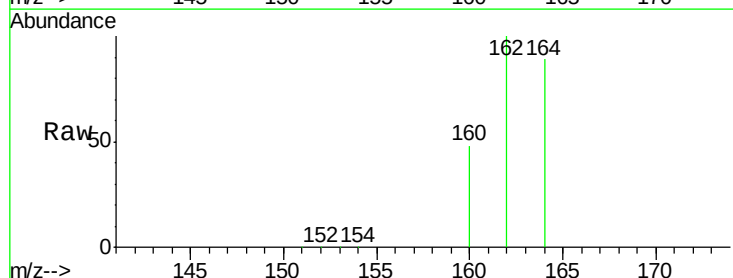
Tgt Ion:164 Resp: 187724

Ion Ratio Lower Upper

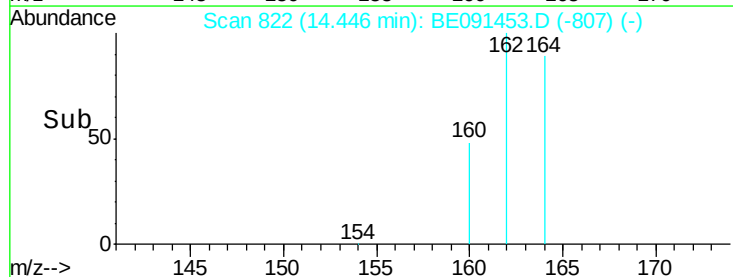
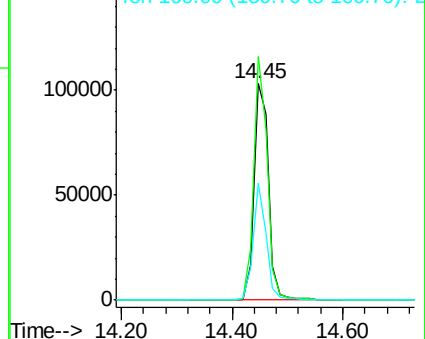
164 100

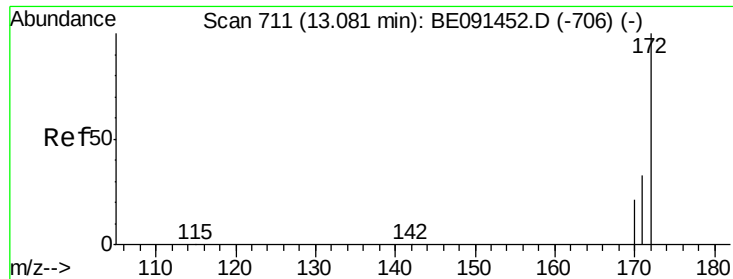
162 112.5 89.8 134.8

160 54.1 43.1 64.7



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: 0.82 ng

RT: 13.08 min Scan# 711

Delta R.T. -0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

Instrument :

BNA_E

ClientSampleId :

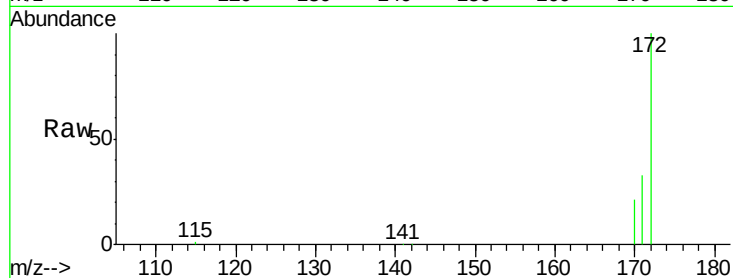
Tot Ion:172 Resp: 37256

Ion Ratio Lower Upper

172 100

171 33.3 26.7 40.1

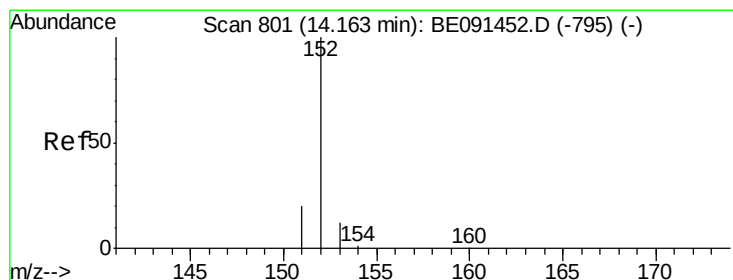
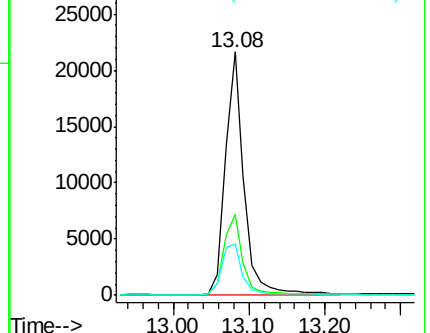
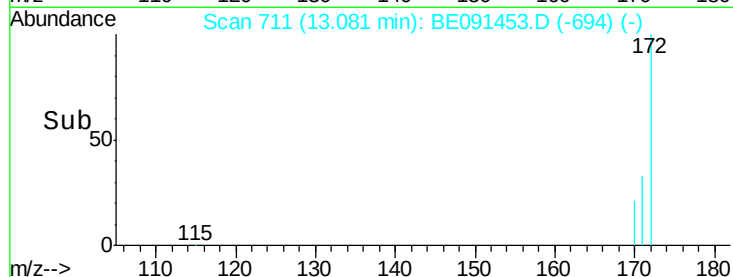
170 21.1 17.4 26.2



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#10

Acenaphthylene

Concen: 0.21 ng

RT: 14.16 min Scan# 801

Delta R.T. 0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

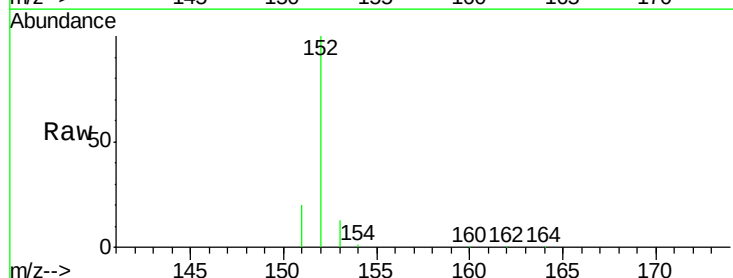
Tgt Ion:152 Resp: 58629

Ion Ratio Lower Upper

152 100

151 19.7 0.0 0.0#

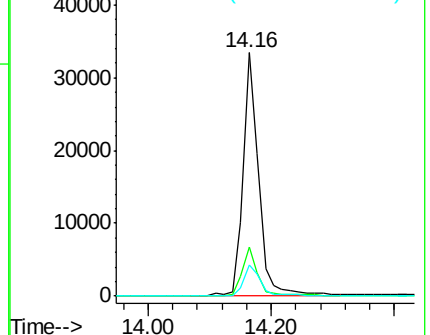
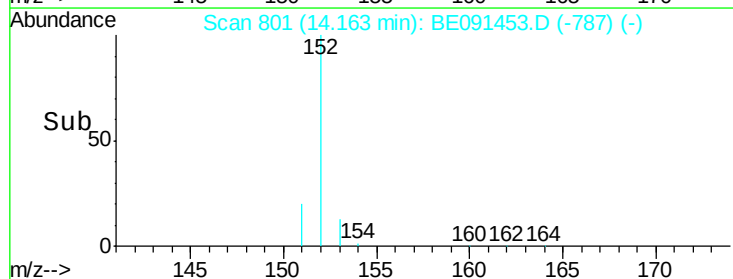
153 13.4 0.0 0.0#

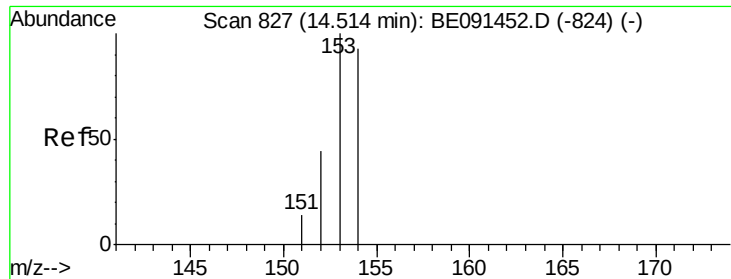


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.79 ng

RT: 14.51 min Scan# 827

Delta R.T. 0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

Instrument :

BNA_E

ClientSampleId :

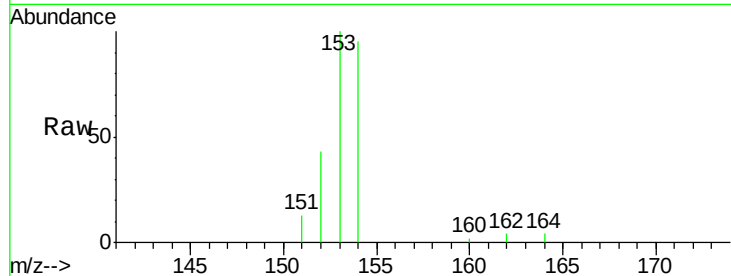
Tot Ion:154 Resp: 44575

Ion Ratio Lower Upper

154 100

153 111.7 0.0 0.0#

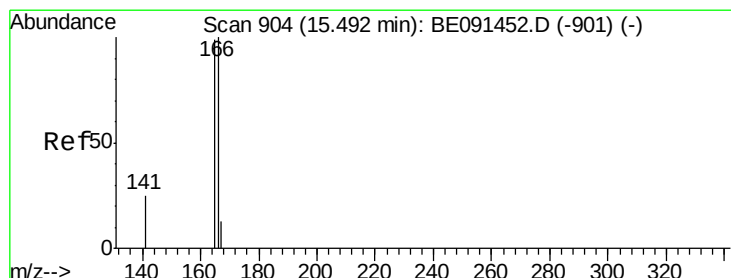
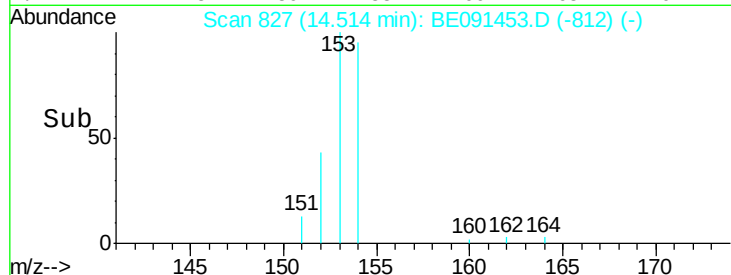
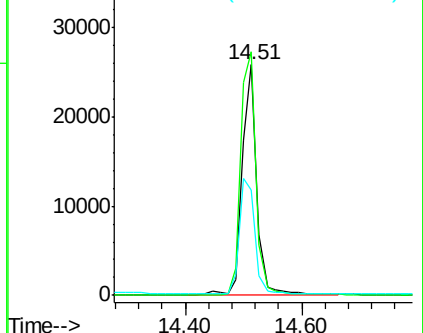
152 54.2 0.0 0.0#



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: 0.78 ng

RT: 15.49 min Scan# 904

Delta R.T. 0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

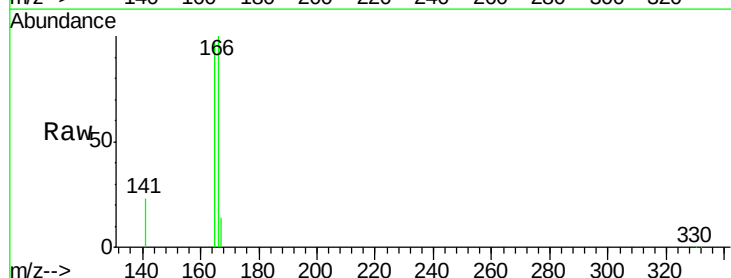
Tgt Ion:166 Resp: 56919

Ion Ratio Lower Upper

166 100

165 99.4 0.0 0.0#

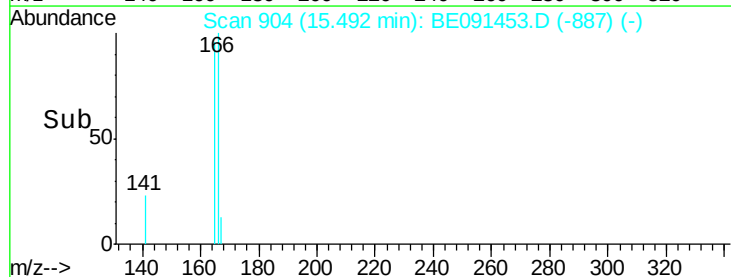
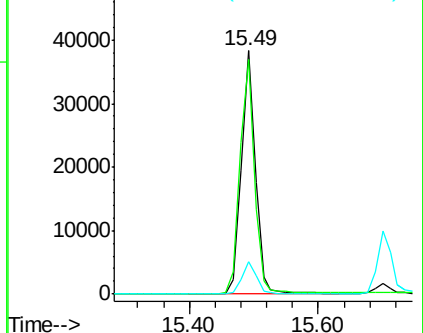
167 13.4 0.0 0.0#

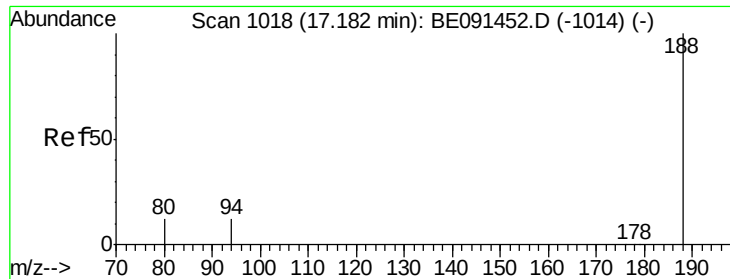


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

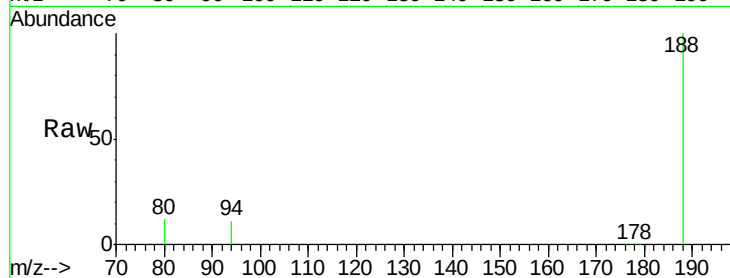




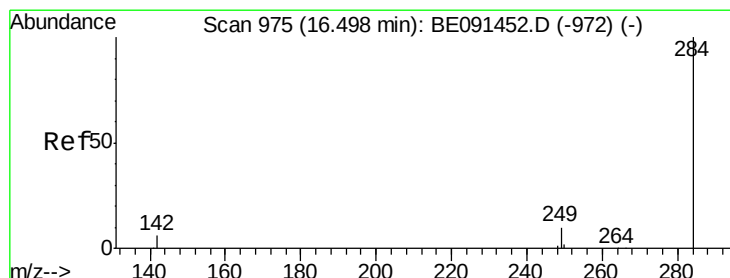
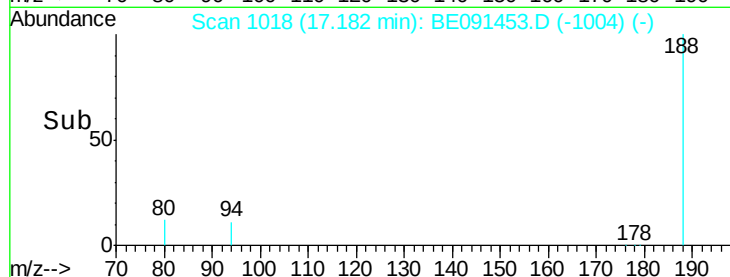
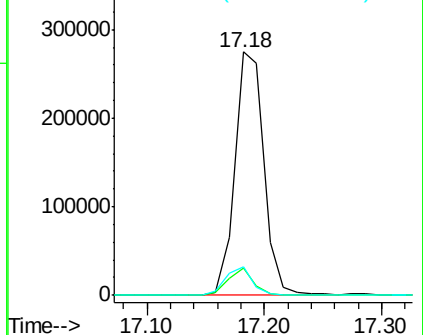
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.18 min Scan# 1018
Delta R.T. 0.00 min
Lab File: BE091453.D
Acq: 16 Mar 2016 21:16

Instrument :
BNA_E
ClientSampleId :

Tot Ion:188 Resp: 474071
Ion Ratio Lower Upper
188 100
94 11.3 9.5 14.3
80 11.8 9.8 14.8

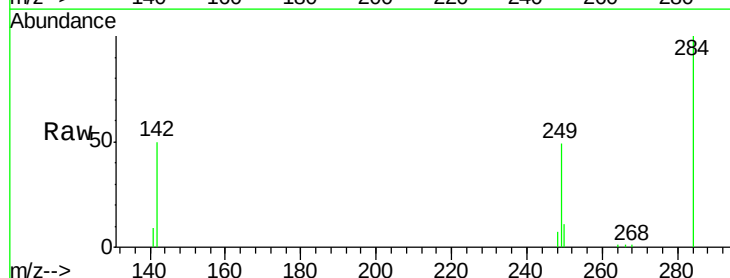


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

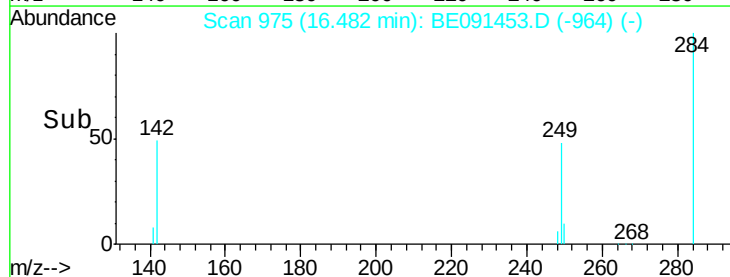
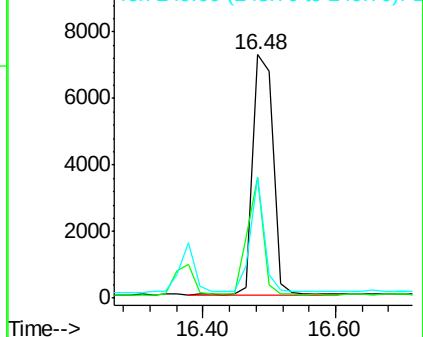


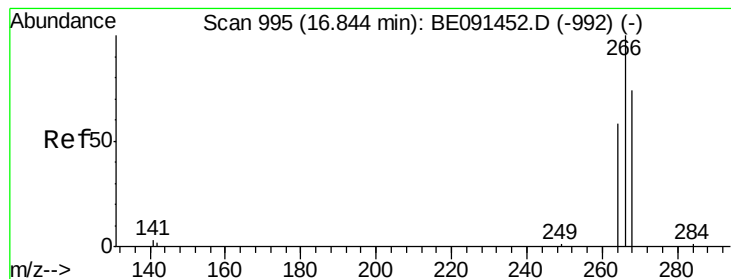
#14
Hexachlorobenzene
Concen: 0.57 ng
RT: 16.48 min Scan# 975
Delta R.T. -0.02 min
Lab File: BE091453.D
Acq: 16 Mar 2016 21:16

Tgt Ion:284 Resp: 15215
Ion Ratio Lower Upper
284 100
142 38.3 0.0 0.0#
249 32.7 0.0 0.0#



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: 0.98 ng

RT: 16.83 min Scan# 995

Delta R.T. -0.02 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

Instrument :

BNA_E

ClientSampleId :

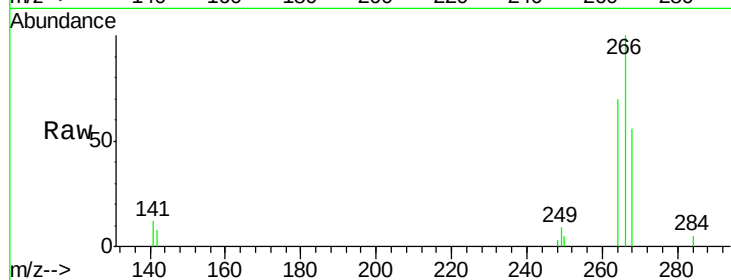
Tot Ion:266 Resp: 5834

Ion Ratio Lower Upper

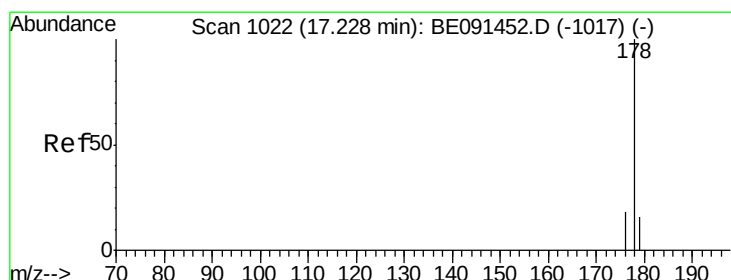
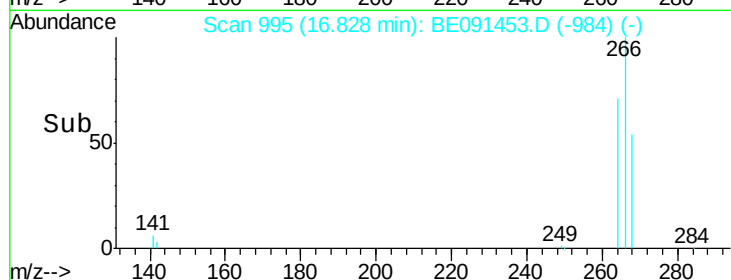
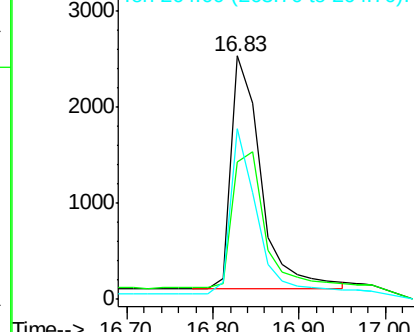
266 100

268 56.2 61.0 91.6#

264 70.2 45.7 68.5#



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



#16

Phenanthrene

Concen: 0.63 ng

RT: 17.23 min Scan# 1022

Delta R.T. 0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

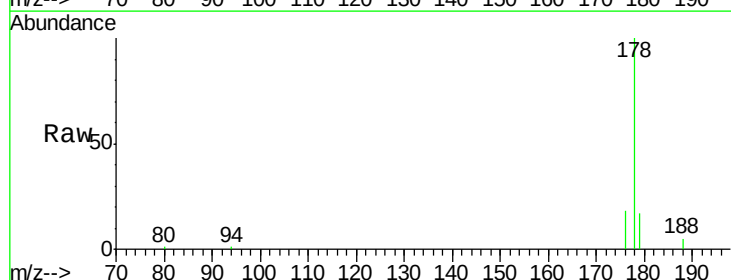
Tgt Ion:178 Resp: 102523

Ion Ratio Lower Upper

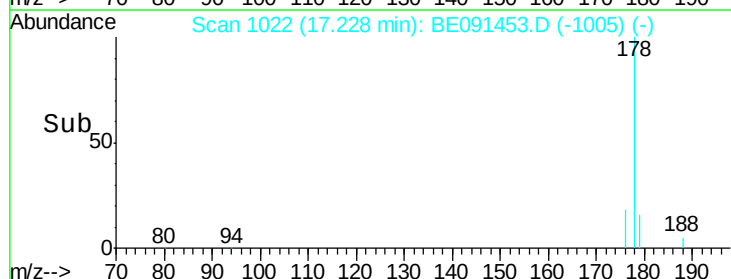
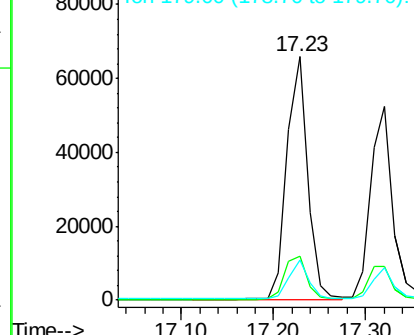
178 100

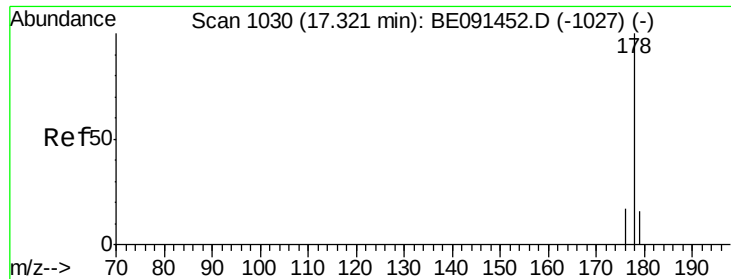
176 19.3 0.0 0.0#

179 15.8 0.0 0.0#



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 0.38 ng

RT: 17.32 min Scan# 1030

Delta R.T. 0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

Instrument :

BNA_E

ClientSampleId :

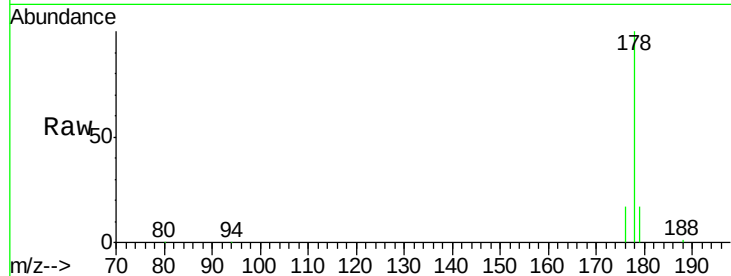
Tot Ion:178 Resp: 88610

Ion Ratio Lower Upper

178 100

176 18.6 0.0 0.0#

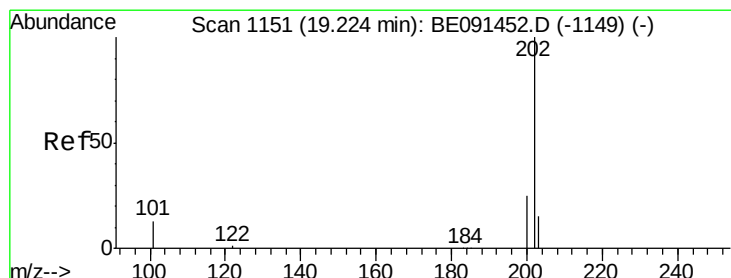
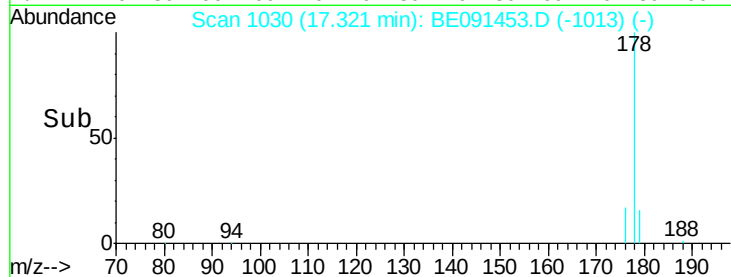
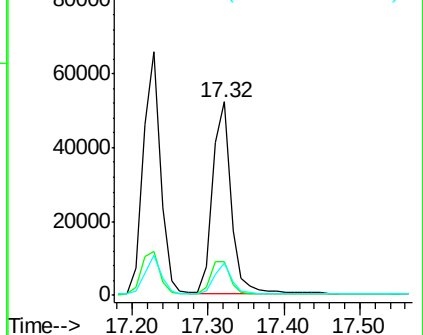
179 15.3 0.0 0.0#



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: 0.49 ng

RT: 19.22 min Scan# 1151

Delta R.T. 0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

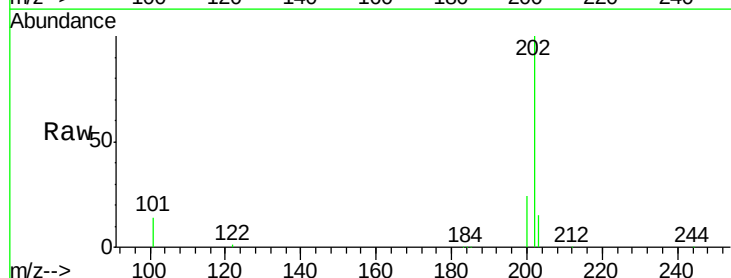
Tgt Ion:202 Resp: 115428

Ion Ratio Lower Upper

202 100

101 11.2 1.1 1.7#

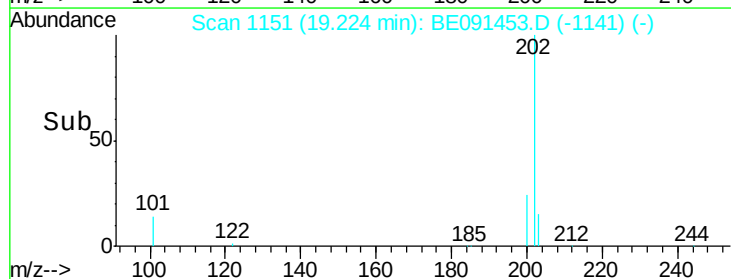
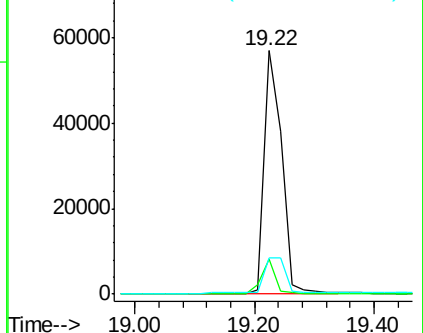
203 17.6 1.0 1.6#

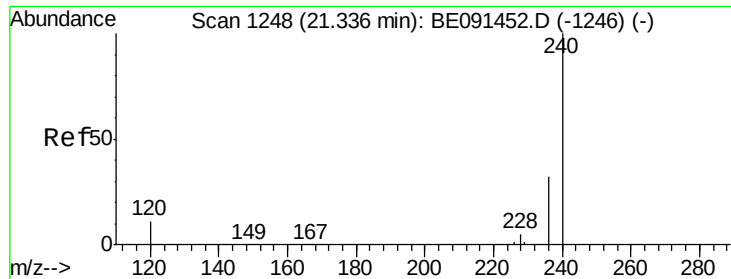


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

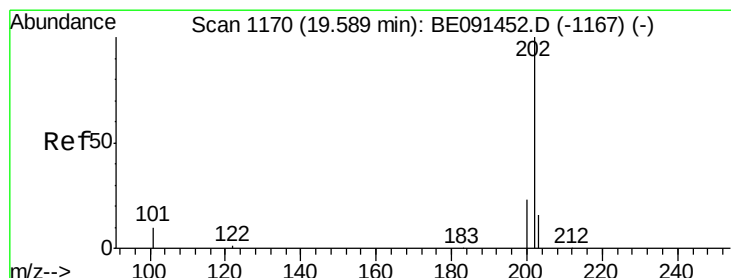
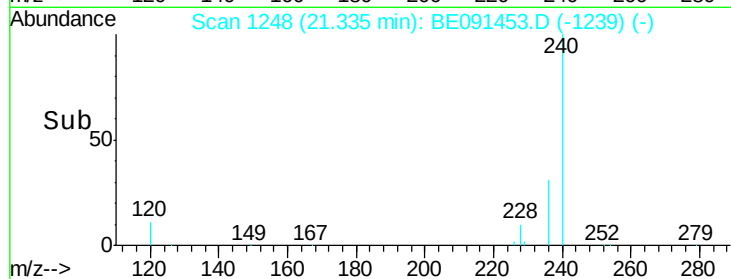
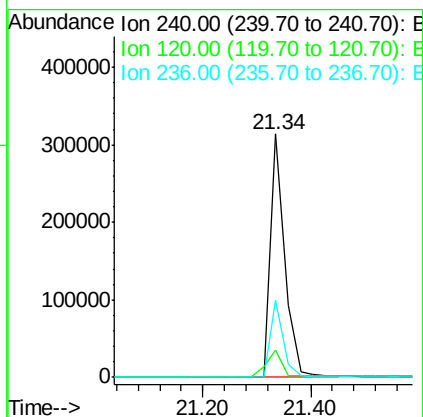
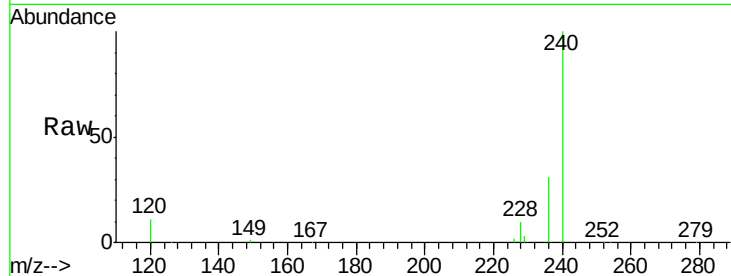




#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.34 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: BE091453.D
 Acq: 16 Mar 2016 21:16

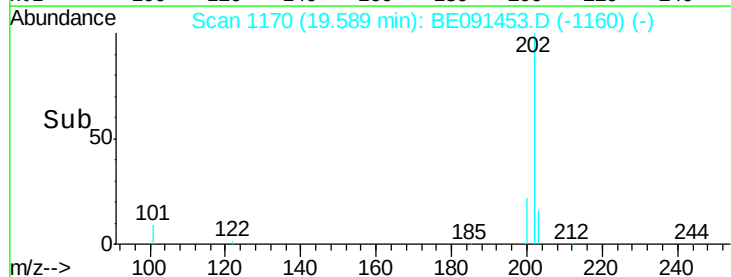
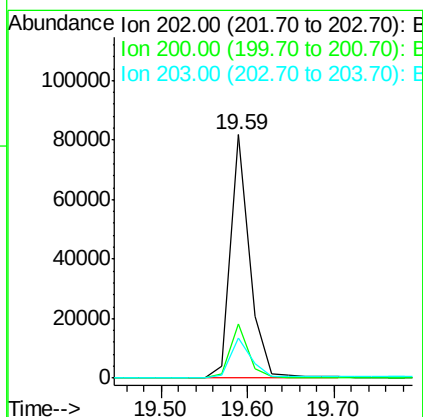
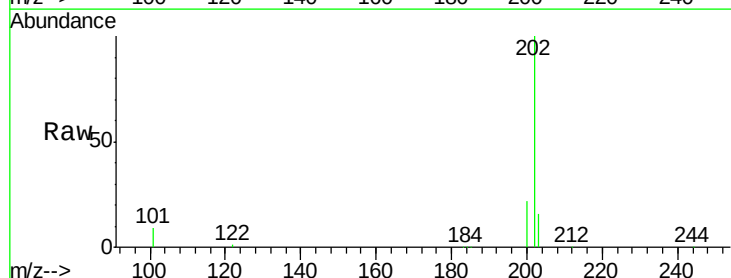
Instrument :
 BNA_E
 ClientSampleId :

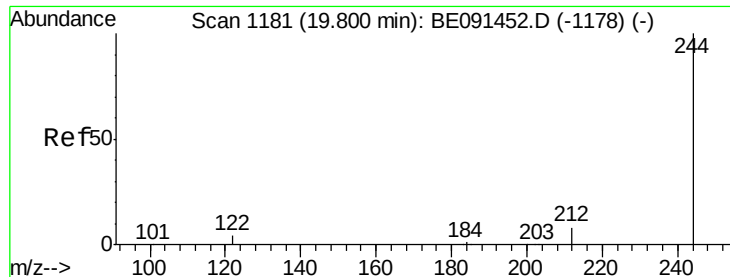
Tot Ion:240 Resp: 583809
 Ion Ratio Lower Upper
 240 100
 120 11.3 8.8 13.2
 236 31.5 25.7 38.5



#20
 Pyrene
 Concen: 0.76 ng
 RT: 19.59 min Scan# 1170
 Delta R.T. 0.00 min
 Lab File: BE091453.D
 Acq: 16 Mar 2016 21:16

Tgt Ion:202 Resp: 126286
 Ion Ratio Lower Upper
 202 100
 200 21.4 0.0 0.0#
 203 17.6 0.1 0.1#

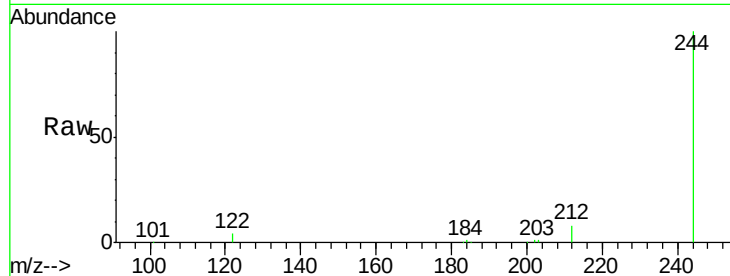




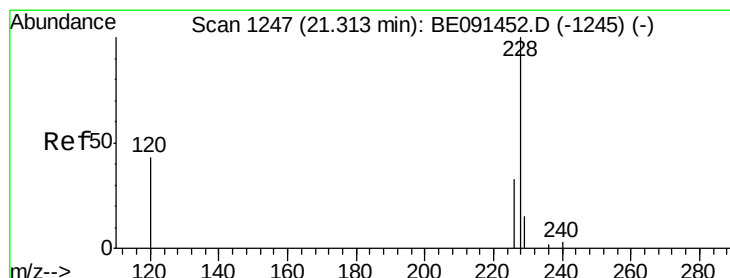
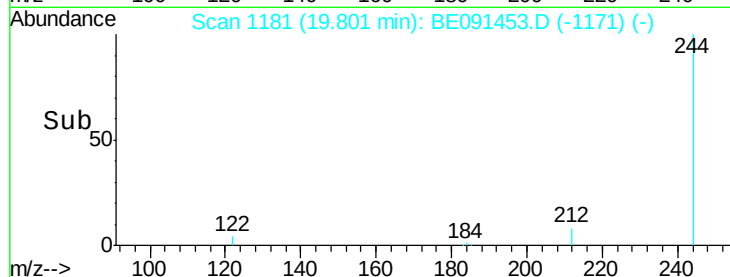
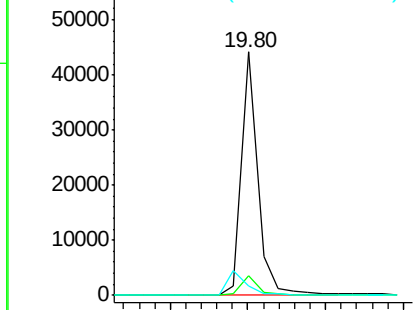
#21
 Terphenyl-d14
 Concen: 0.73 ng
 RT: 19.80 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: BE091453.D
 Acq: 16 Mar 2016 21:16

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:244 Resp: 64188
 Ion Ratio Lower Upper
 244 100
 212 8.1 6.6 10.0
 122 3.9 3.4 5.0

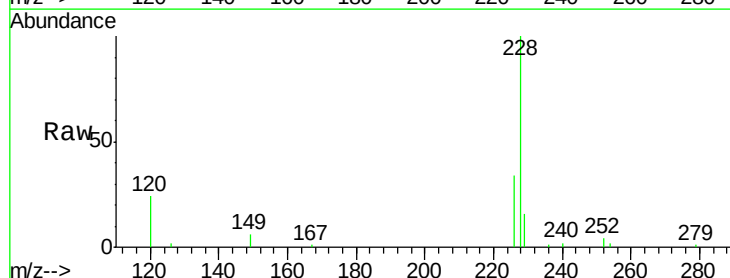


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

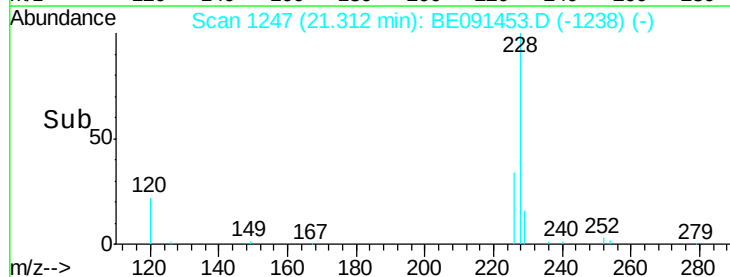
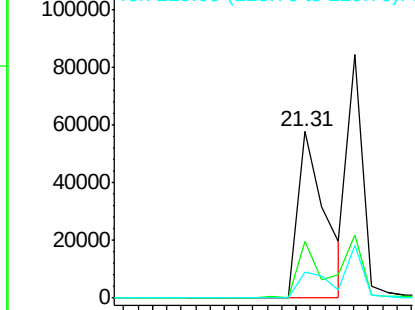


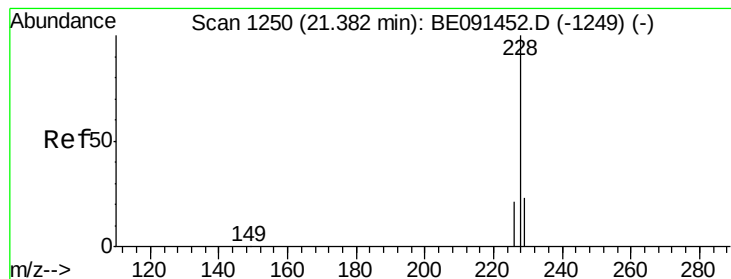
#22
 Benzo(a)anthracene
 Concen: 0.75 ng
 RT: 21.31 min Scan# 1247
 Delta R.T. -0.00 min
 Lab File: BE091453.D
 Acq: 16 Mar 2016 21:16

Tgt Ion:228 Resp: 150769
 Ion Ratio Lower Upper
 228 100
 226 33.8 27.1 40.7
 229 15.7 12.3 18.5



Abundance Ion 228.00 (227.70 to 228.70): E
 Ion 226.00 (225.70 to 226.70): E
 Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.72 ng

RT: 21.31 min Scan# 1247

Delta R.T. -0.07 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

Instrument :

BNA_E

ClientSampleId :

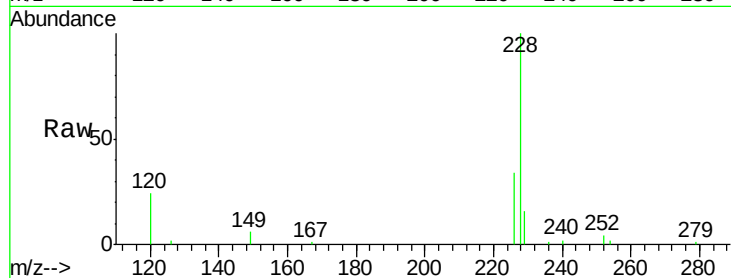
Tot Ion:228 Resp: 150691

Ion Ratio Lower Upper

228 100

226 33.8 20.3 30.5#

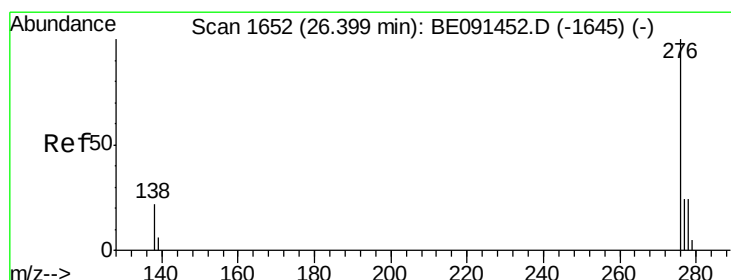
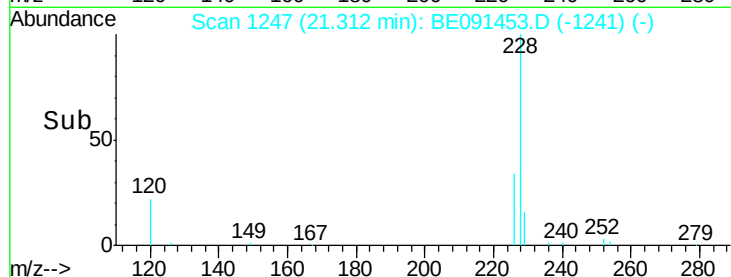
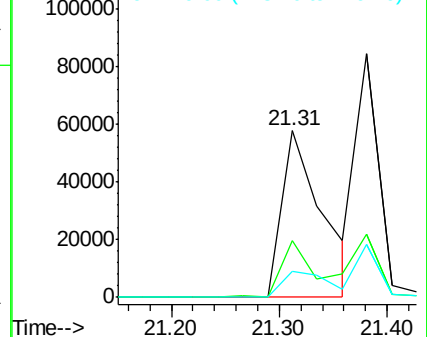
229 15.7 17.4 26.0#



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: 0.84 ng

RT: 26.40 min Scan# 1652

Delta R.T. -0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

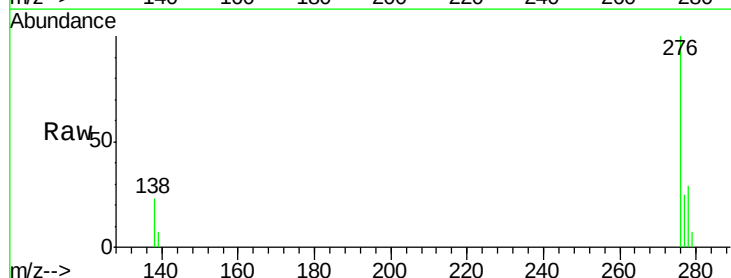
Tgt Ion:276 Resp: 150661

Ion Ratio Lower Upper

276 100

138 25.1 0.0 0.0#

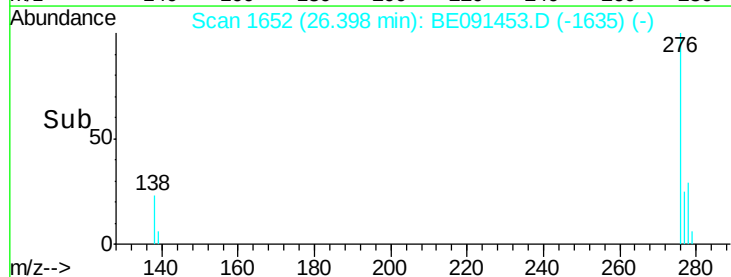
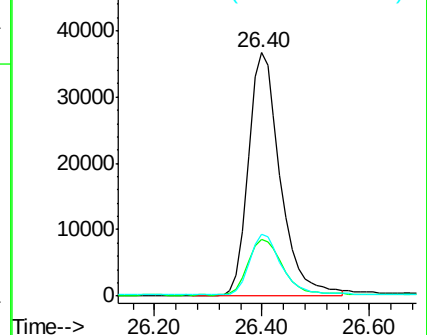
277 24.9 0.0 0.0#

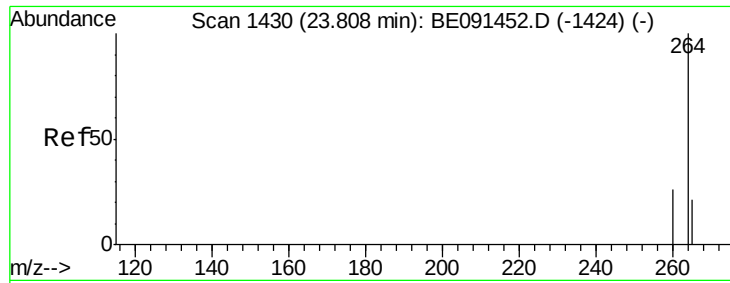


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#25

Pervlene-d12

Concen: 5.00 ng

RT: 23.81 min Scan# 1430

Delta R.T. -0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

Instrument :

BNA_E

ClientSampleId :

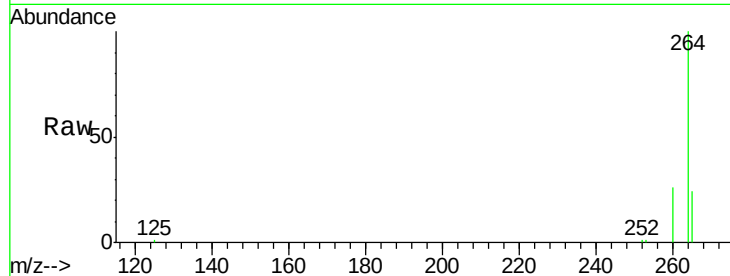
Tot Ion:264 Resp: 598642

Ion Ratio Lower Upper

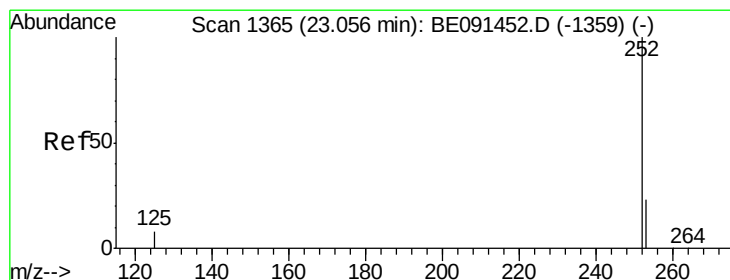
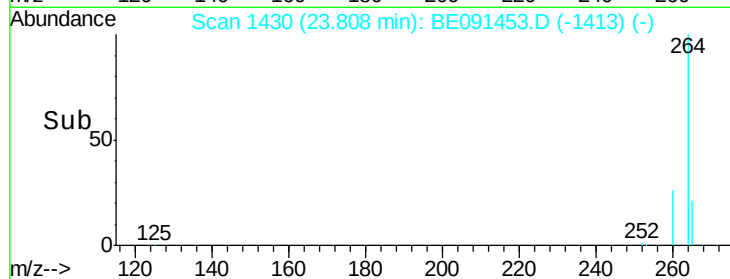
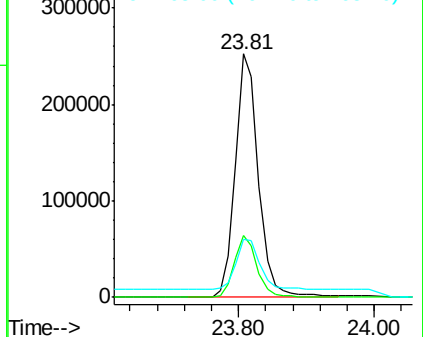
264 100

260 25.5 20.7 31.1

265 24.1 19.4 29.2



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: 0.88 ng

RT: 23.04 min Scan# 1364

Delta R.T. -0.01 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

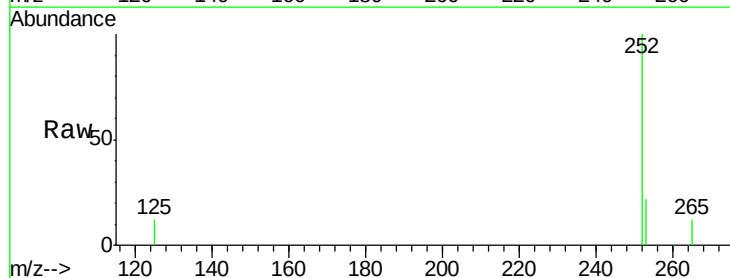
Tgt Ion:252 Resp: 153115

Ion Ratio Lower Upper

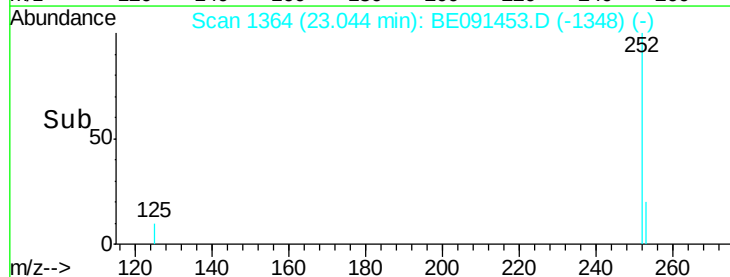
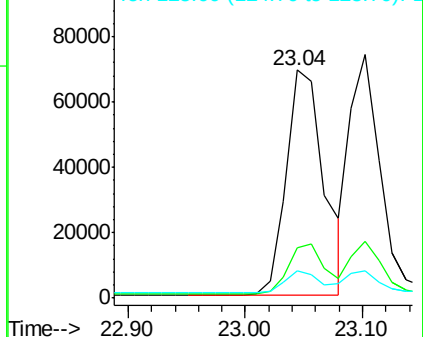
252 100

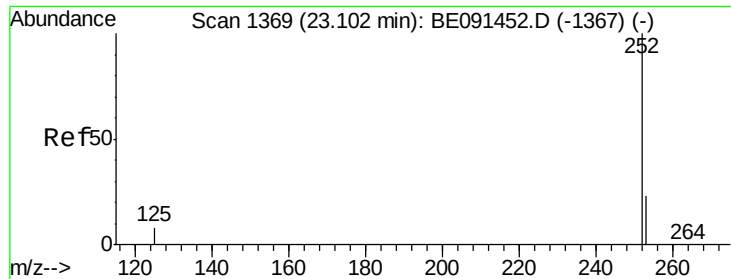
253 22.1 20.6 30.8

125 12.1 10.2 15.4



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

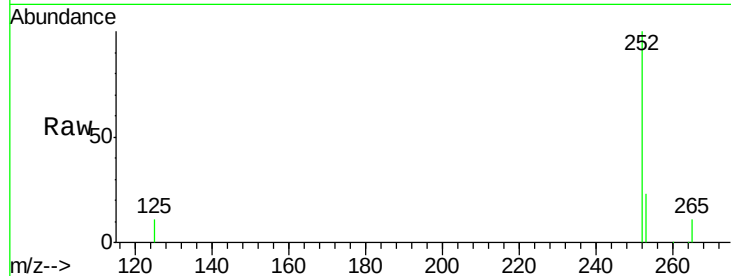




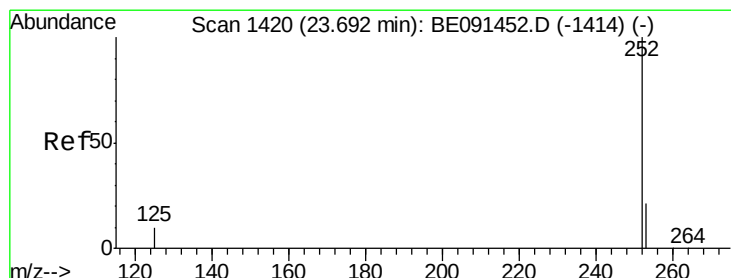
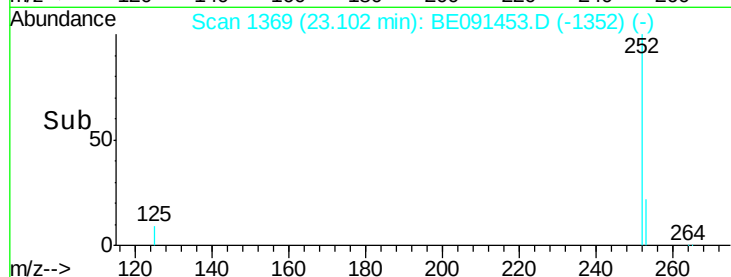
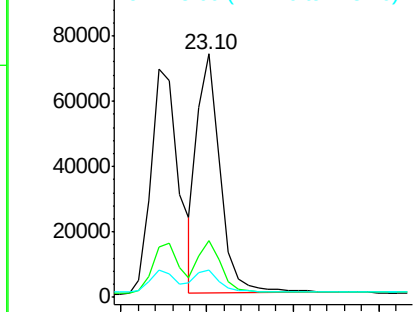
#27
Benzo(k)fluoranthene
Concen: 0.84 ng
RT: 23.10 min Scan# 1369
Delta R.T. -0.00 min
Lab File: BE091453.D
Acq: 16 Mar 2016 21:16

Instrument :
BNA_E
ClientSampleId :

Tot Ion:252 Resp: 135175
Ion Ratio Lower Upper
252 100
253 23.5 20.2 30.2
125 11.1 10.6 16.0

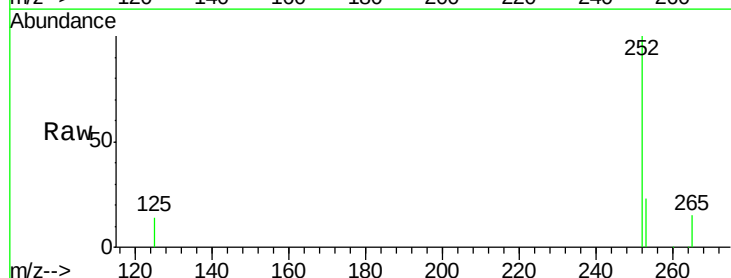


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

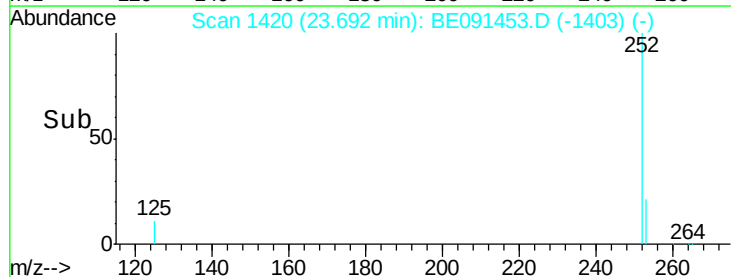
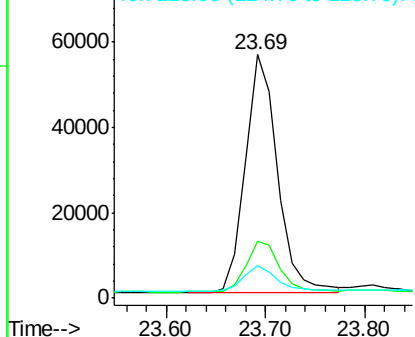


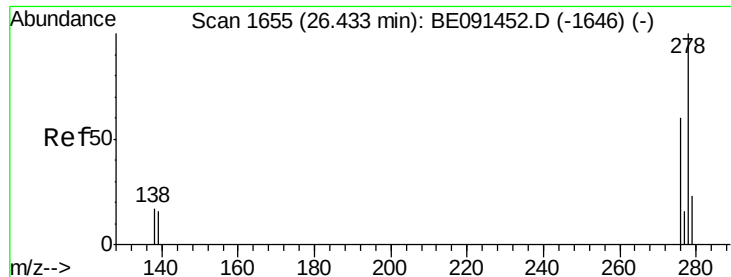
#28
Benzo(a)pyrene
Concen: 0.86 ng
RT: 23.69 min Scan# 1420
Delta R.T. -0.00 min
Lab File: BE091453.D
Acq: 16 Mar 2016 21:16

Tgt Ion:252 Resp: 126171
Ion Ratio Lower Upper
252 100
253 23.2 20.0 30.0
125 13.5 12.7 19.1



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.88 ng

RT: 26.43 min Scan# 1655

Delta R.T. -0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

Instrument :

BNA_E

ClientSampleId :

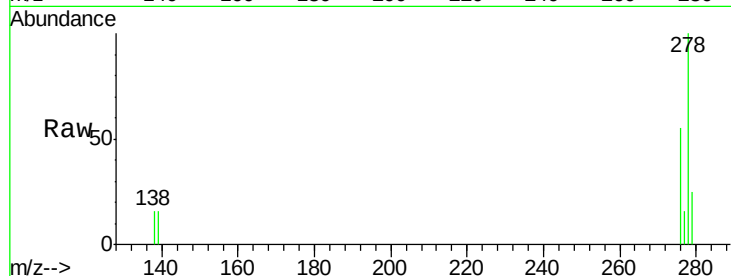
Tot Ion:278 Resp: 125031

Ion Ratio Lower Upper

278 100

139 16.1 13.3 19.9

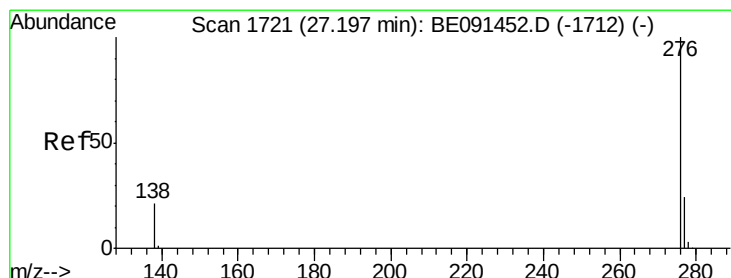
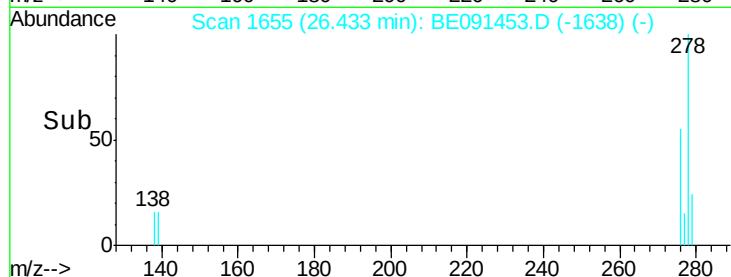
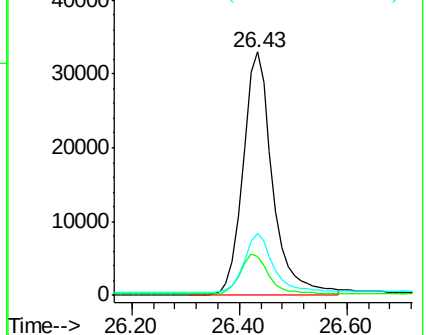
279 25.4 20.9 31.3



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#30

Benzo(g,h,i)perylene

Concen: 0.88 ng

RT: 27.20 min Scan# 1721

Delta R.T. -0.00 min

Lab File: BE091453.D

Acq: 16 Mar 2016 21:16

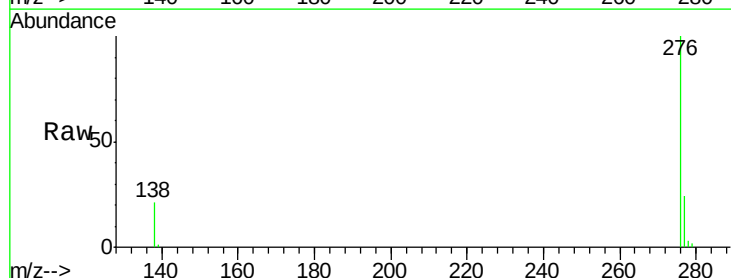
Tgt Ion:276 Resp: 133041

Ion Ratio Lower Upper

276 100

277 24.1 19.8 29.8

138 21.1 17.6 26.4



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

