

Data Path : Z:\HPCHEM1\BNA E\DATA\BE031716\
 Data File : BE091463.D
 Acq On : 17 Mar 2016 12:55
 Operator : UM/SJ
 Sample : PB88823BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 17 14:53:42 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 15:28:00 2016
 Response via : Initial Calibration

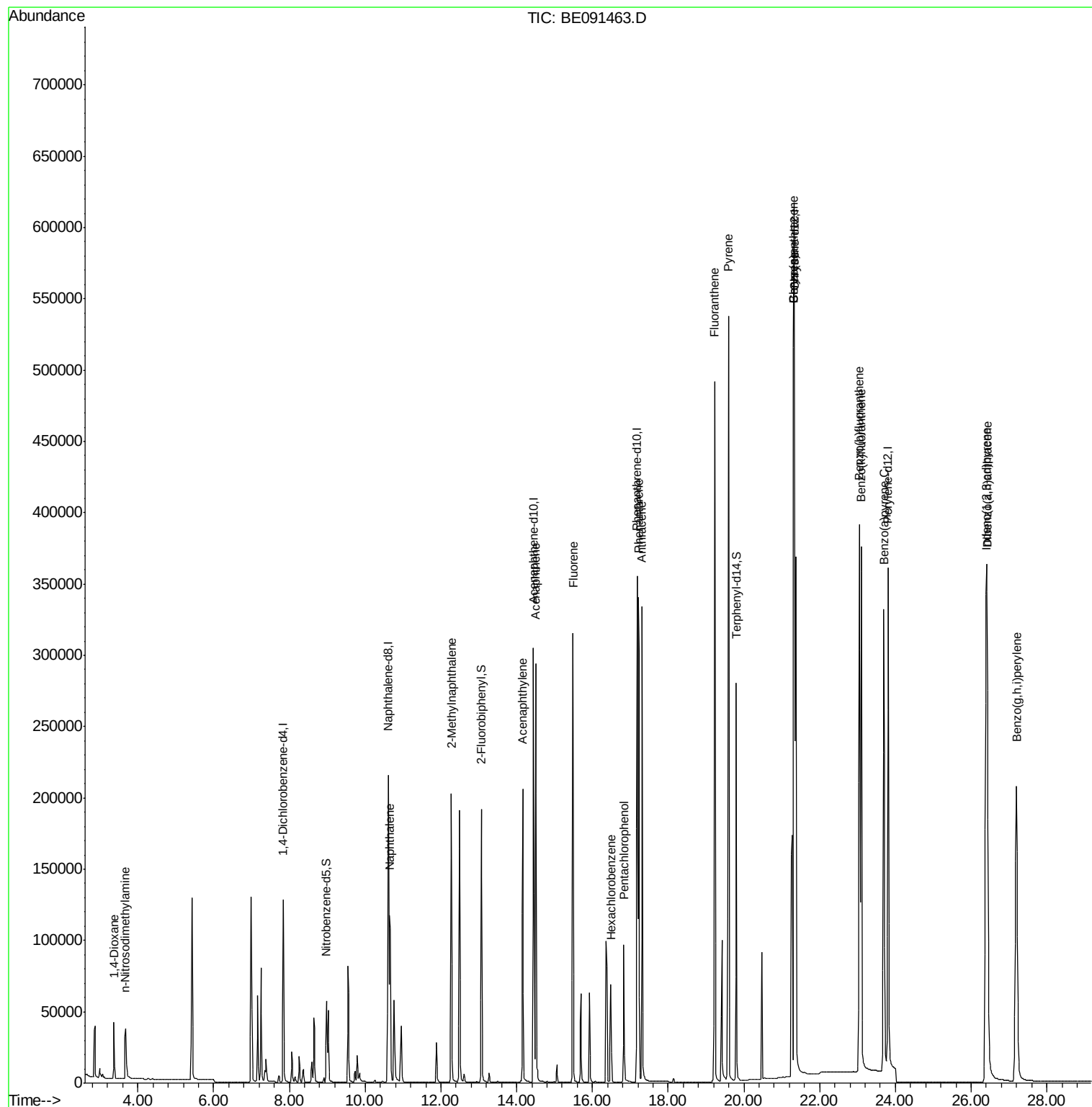
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	63489	5.00	ng	0.00
4) Naphthalene-d8	10.61	136	301112	5.00	ng	0.00
8) Acenaphthene-d10	14.45	164	185119	5.00	ng	0.00
13) Phenanthrene-d10	17.18	188	443330	5.00	ng	0.00
19) Chrysene-d12	21.34	240	606482	5.00	ng	0.00
25) Perylene-d12	23.81	264	530521	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.98	82	53139	3.30	ng	-0.01
9) 2-Fluorobiphenyl	13.07	172	196707	4.12	ng	-0.01
21) Terphenyl-d14	19.80	244	348046	3.86	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	3.37	88	25523	3.43	ng	# 100
3) n-Nitrosodimethylamine	3.66	42	36657	3.01	ng	# 100
6) Naphthalene	10.65	128	219808	2.97	ng	# 94
7) 2-Methylnaphthalene	12.27	142	158923	3.30	ng	# 89
10) Acenaphthylene	14.16	152	254055	3.15	ng	# 100
11) Acenaphthene	14.50	154	179811	3.16	ng	# 100
12) Fluorene	15.49	166	224722	3.06	ng	# 100
14) Hexachlorobenzene	16.48	284	65123	3.35	ng	# 100
15) Pentachlorophenol	16.83	266	66051	6.28	ng	91
16) Phenanthrene	17.22	178	410354	3.24	ng	# 100
17) Anthracene	17.31	178	380984	3.37	ng	# 100
18) Fluoranthene	19.22	202	493743	3.41	ng	# 69
20) Pyrene	19.59	202	537243	3.10	ng	# 92
22) Benzo(a)anthracene	21.31	228	698662	3.29	ng	96
23) Chrysene	21.31	228	698537	5.08	ng	# 88
24) Indeno(1,2,3-cd)pyrene	26.40	276	600271	2.96	ng	# 100
26) Benzo(b)fluoranthene	23.04	252	552751	3.06	ng	# 92
27) Benzo(k)fluoranthene	23.10	252	573261	3.42	ng	# 95
28) Benzo(a)pyrene	23.69	252	530630	3.45	ng	# 92
29) Dibenzo(a,h)anthracene	26.42	278	506910	3.40	ng	97
30) Benzo(g,h,i)perylene	27.20	276	520459	3.34	ng	97

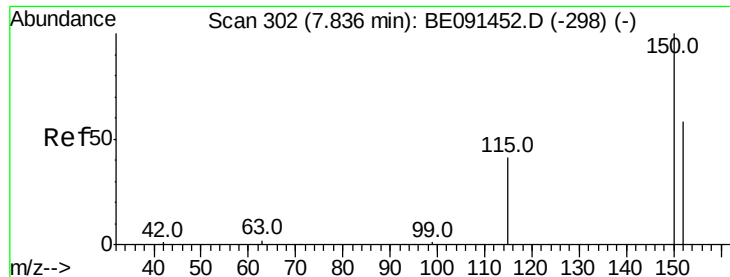
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA E\DATA\BE031716\
Data File : BE091463.D
Acq On : 17 Mar 2016 12:55
Operator : UM/SJ
Sample : PB88823BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :

Quant Time: Mar 17 14:53:42 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 15:28:00 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 302

Delta R.T. 0.00 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

Instrument :

BNA_E

ClientSampleId :

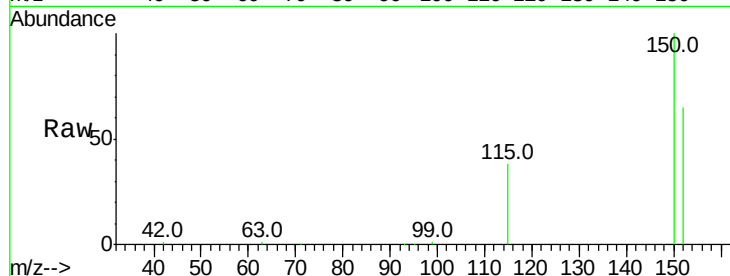
Tot Ion:152 Resp: 63489

Ion Ratio Lower Upper

152 100

150 154.2 136.8 205.2

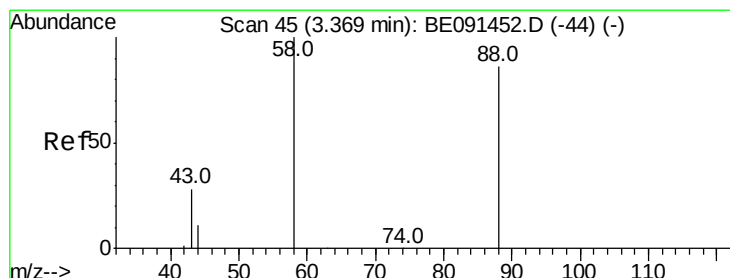
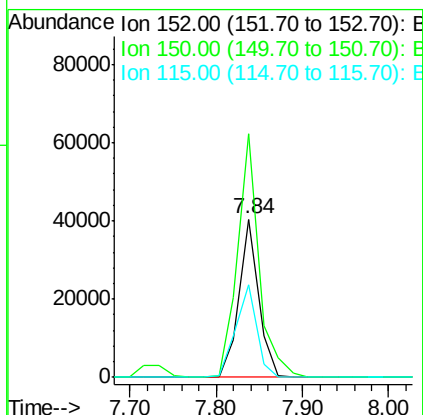
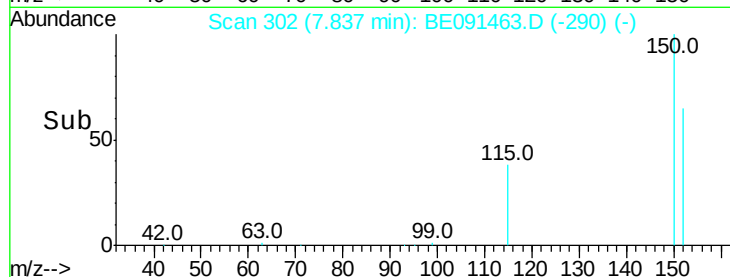
115 58.3 56.9 85.3



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: 3.43 ng

RT: 3.37 min Scan# 45

Delta R.T. -0.00 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

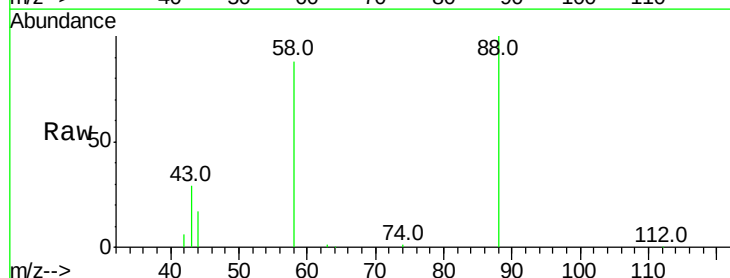
Tgt Ion: 88 Resp: 25523

Ion Ratio Lower Upper

88 100

58 82.4 0.0 0.0#

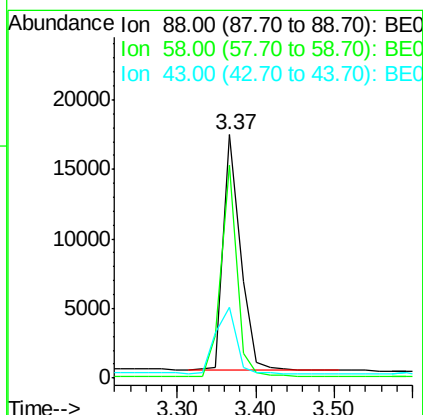
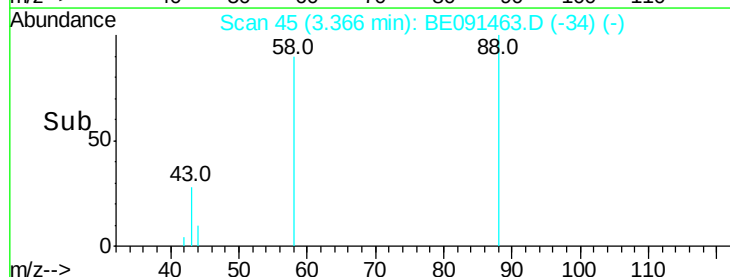
43 33.7 0.0 0.0#

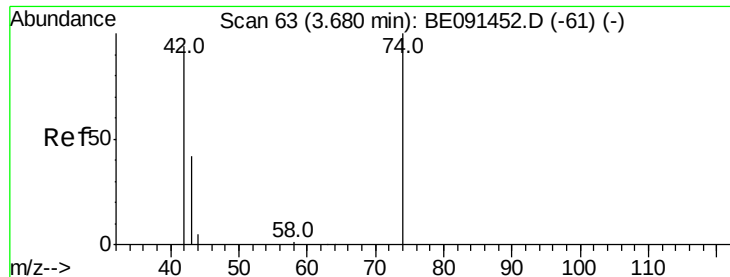


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 3.01 ng

RT: 3.66 min Scan# 62

Delta R.T. -0.02 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

Instrument :

BNA_E

ClientSampled :

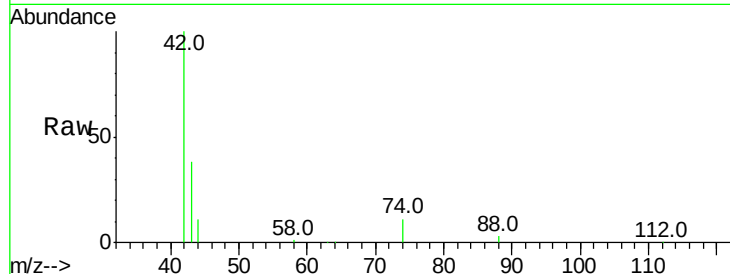
Tot Ion: 42 Resp: 36657

Ion Ratio Lower Upper

42 100

74 96.2 0.0 0.0#

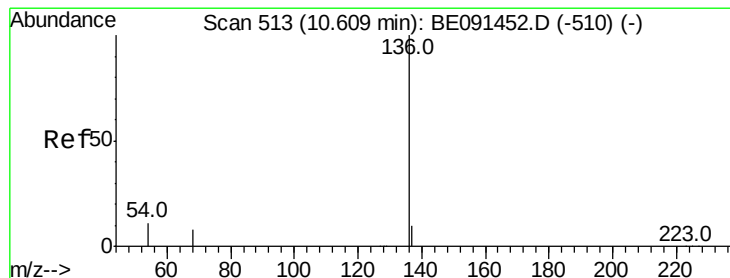
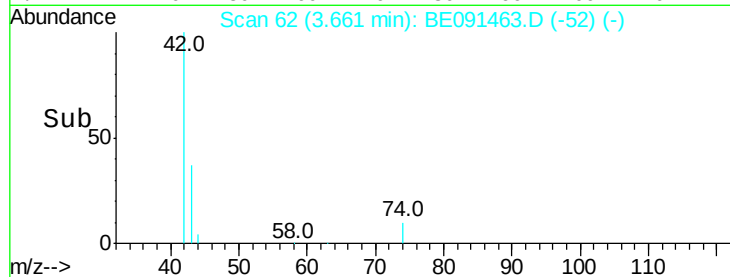
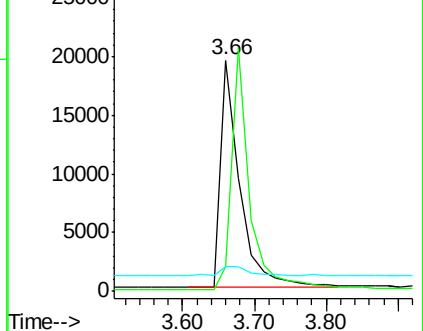
44 6.1 0.0 0.0#



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: BE091463.D

Acq: 17 Mar 2016 12:55

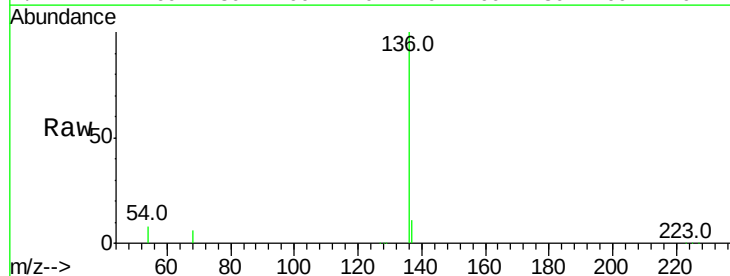
Tgt Ion: 136 Resp: 301112

Ion Ratio Lower Upper

136 100

137 10.8 8.0 12.0

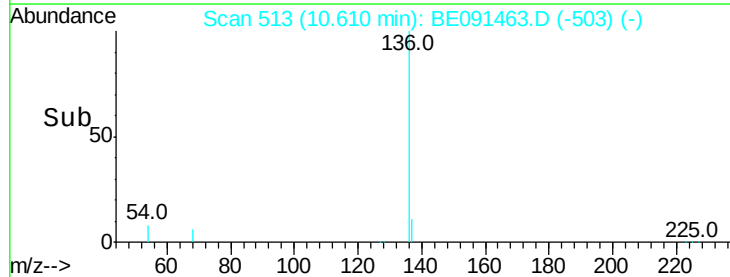
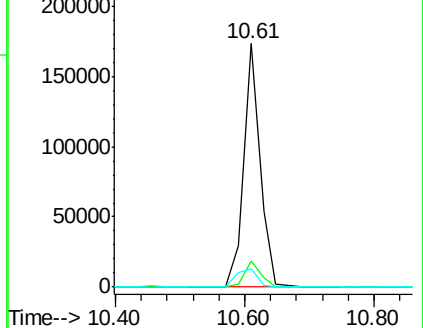
54 7.7 9.1 13.7#

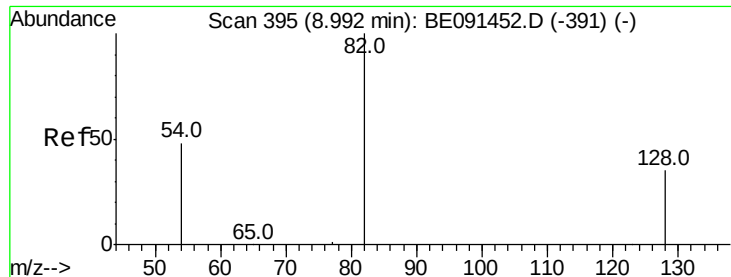


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 3.30 ng

RT: 8.98 min Scan# 394

Delta R.T. -0.01 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

Instrument :

BNA_E

ClientSampleId :

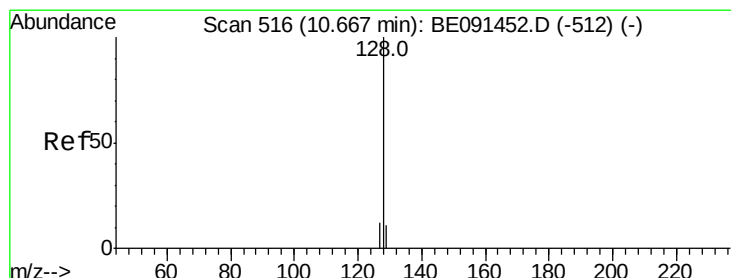
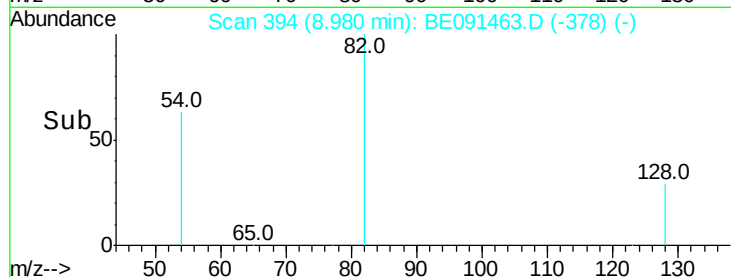
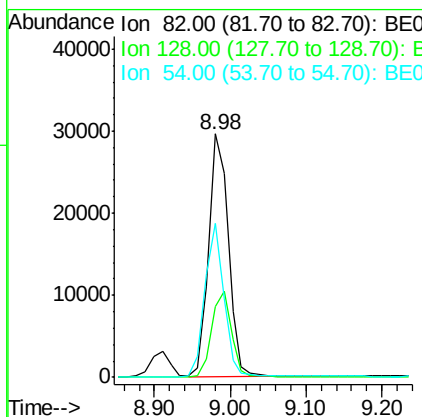
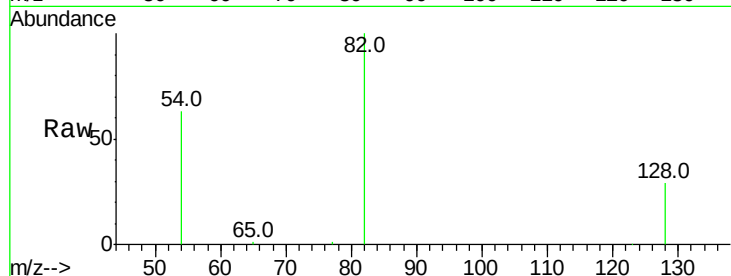
Tot Ion: 82 Resp: 53139

Ion Ratio Lower Upper

82 100

128 29.0 29.4 44.2#

54 63.3 39.8 59.8#



#6

Naphthalene

Concen: 2.97 ng

RT: 10.65 min Scan# 515

Delta R.T. -0.02 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

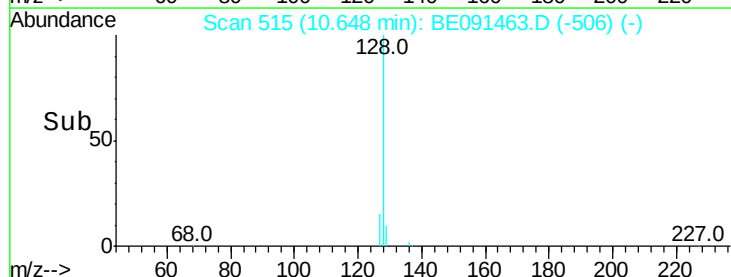
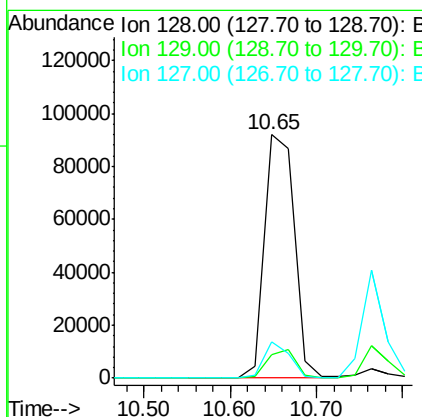
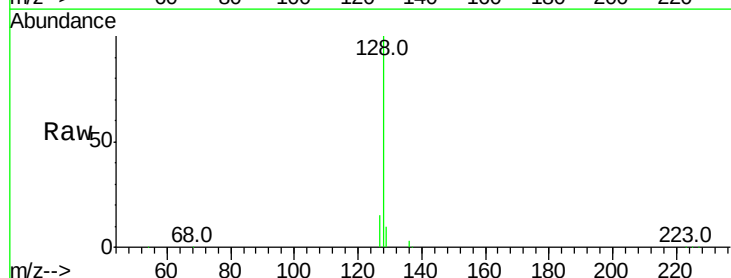
Tgt Ion: 128 Resp: 219808

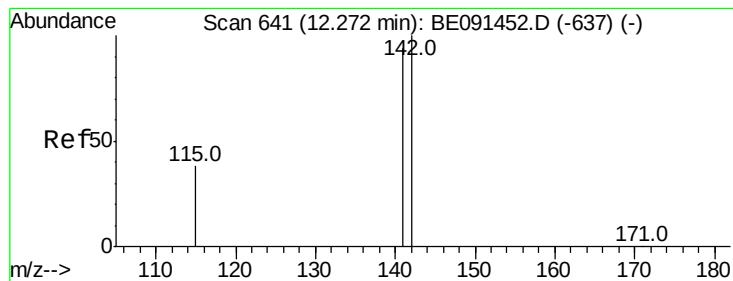
Ion Ratio Lower Upper

128 100

129 9.8 9.4 14.0

127 14.9 9.7 14.5#





#7

2-Methylnaphthalene

Concen: 3.30 ng

RT: 12.27 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

Instrument :

BNA_E

ClientSampleId :

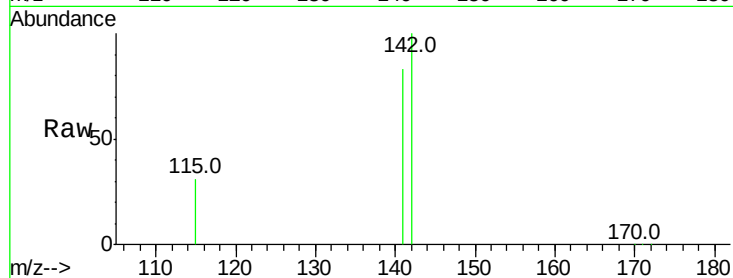
Tot Ion:142 Resp: 158923

Ion Ratio Lower Upper

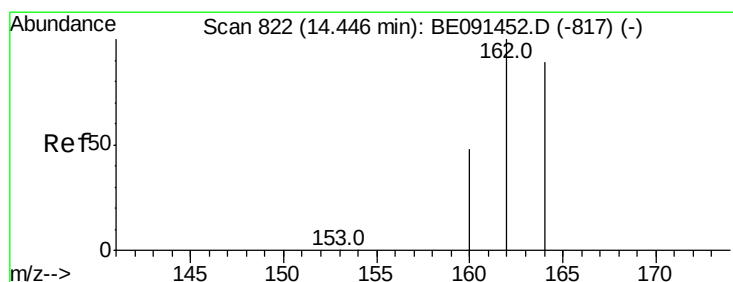
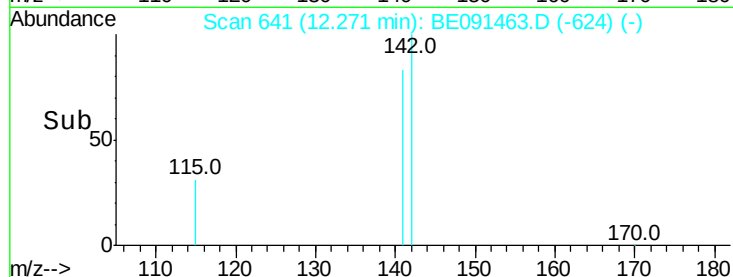
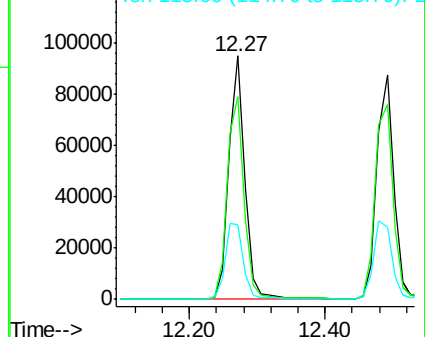
142 100

141 83.2 75.0 112.4

115 30.7 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: BE091463.D

Acq: 17 Mar 2016 12:55

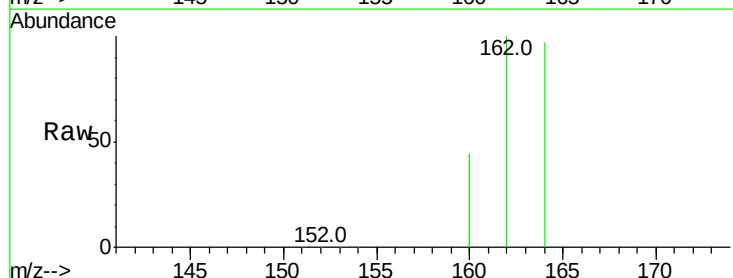
Tgt Ion:164 Resp: 185119

Ion Ratio Lower Upper

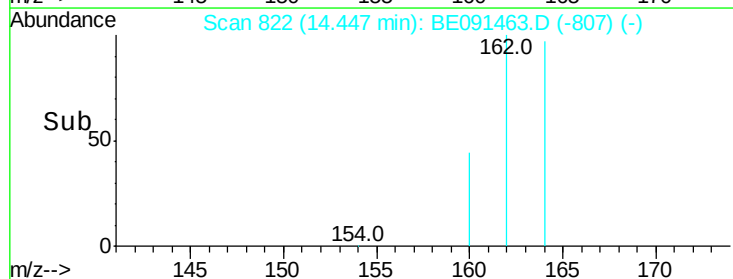
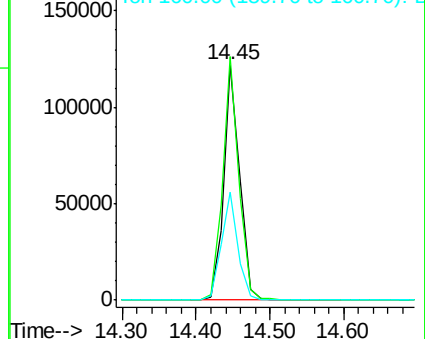
164 100

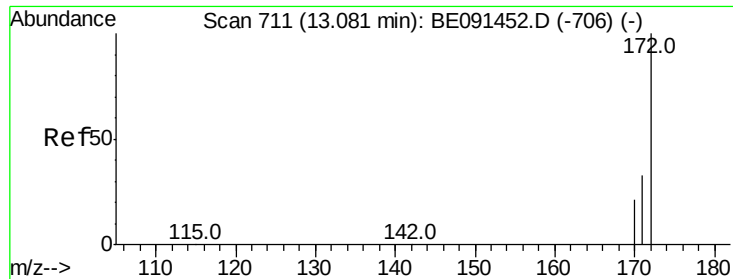
162 103.6 89.8 134.8

160 46.0 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: 4.12 ng

RT: 13.07 min Scan# 710

Delta R.T. -0.01 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

Instrument :

BNA_E

ClientSampleId :

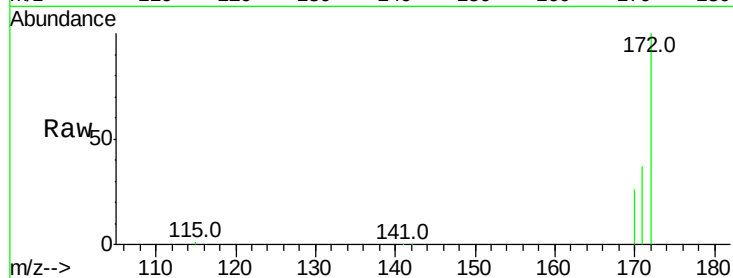
Tot Ion:172 Resp: 196707

Ion Ratio Lower Upper

172 100

171 36.9 26.7 40.1

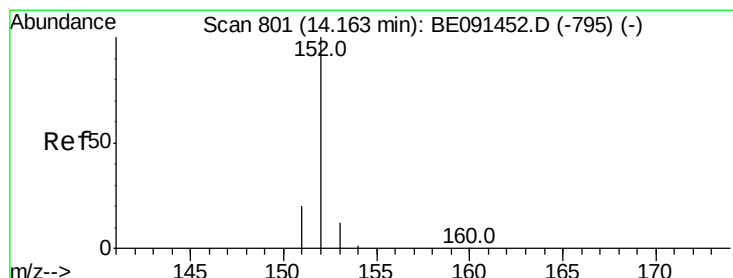
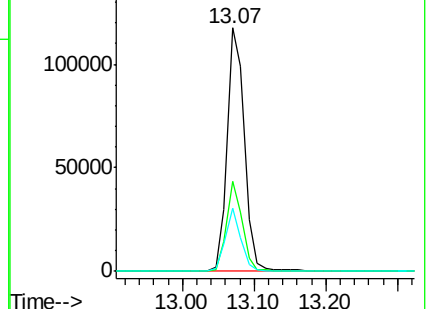
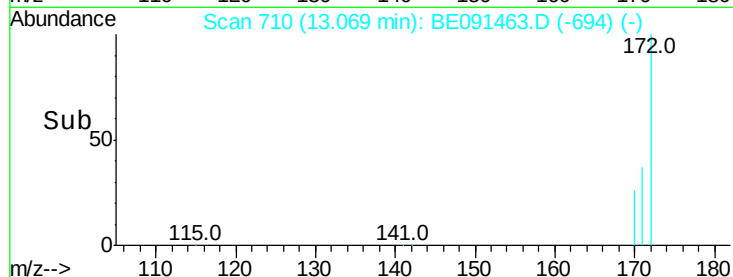
170 25.8 17.4 26.2



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: 3.15 ng

RT: 14.16 min Scan# 801

Delta R.T. 0.00 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

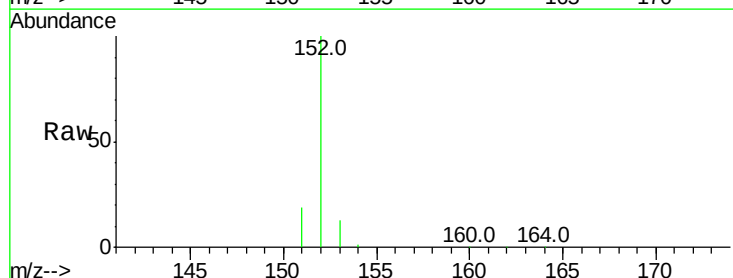
Tgt Ion:152 Resp: 254055

Ion Ratio Lower Upper

152 100

151 19.6 0.0 0.0#

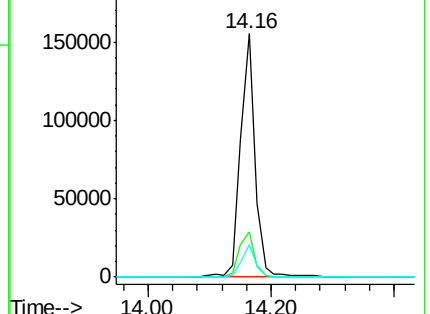
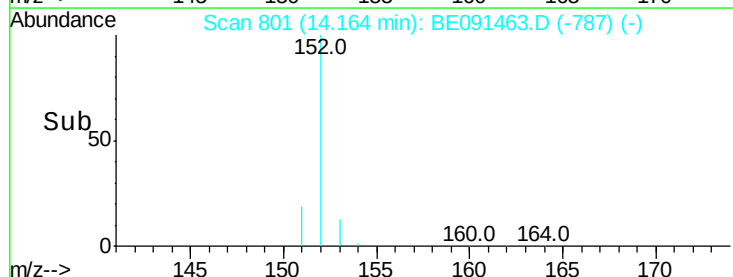
153 13.0 0.0 0.0#

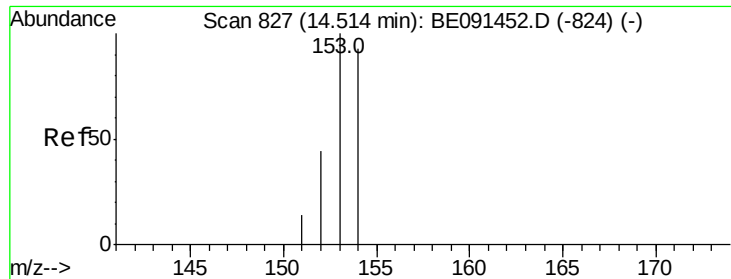


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

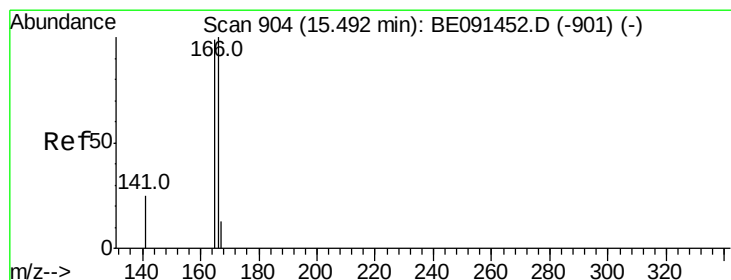
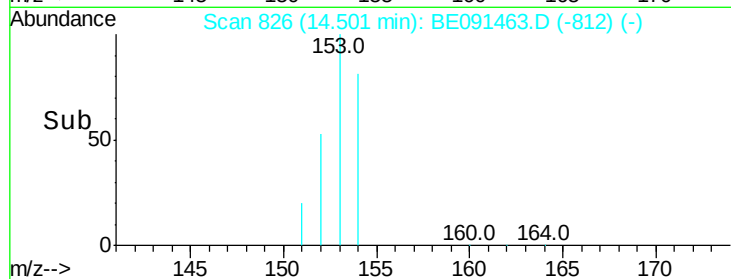
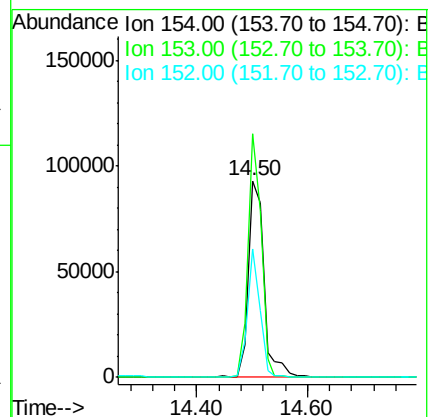
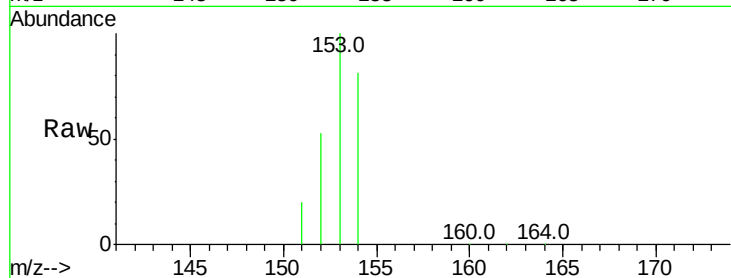




#11
Acenaphthene
Concen: 3.16 ng
RT: 14.50 min Scan# 826
Delta R.T. -0.01 min
Lab File: BE091463.D
Acq: 17 Mar 2016 12:55

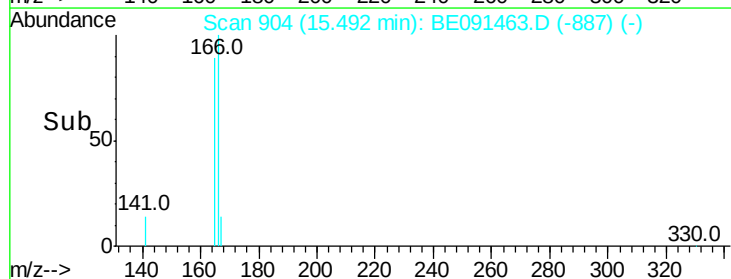
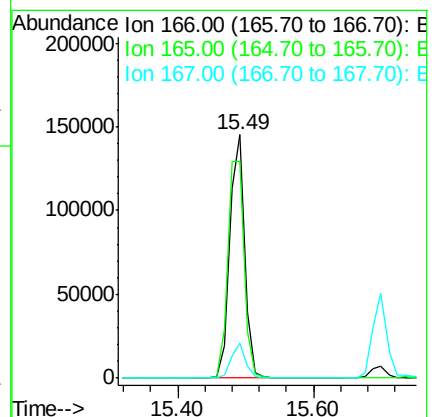
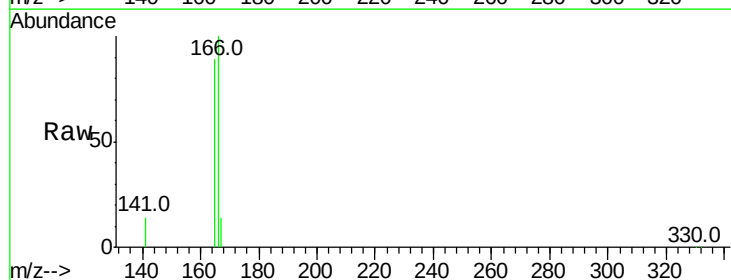
Instrument :
BNA_E
ClientSampleId :

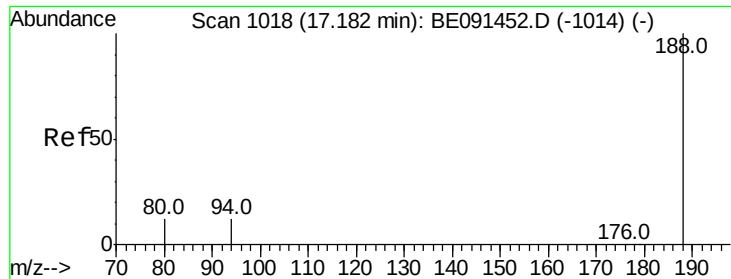
Tot Ion:154 Resp: 179811
Ion Ratio Lower Upper
154 100
153 104.1 0.0 0.0#
152 51.4 0.0 0.0#



#12
Fluorene
Concen: 3.06 ng
RT: 15.49 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE091463.D
Acq: 17 Mar 2016 12:55

Tgt Ion:166 Resp: 224722
Ion Ratio Lower Upper
166 100
165 99.4 0.0 0.0#
167 13.5 0.0 0.0#

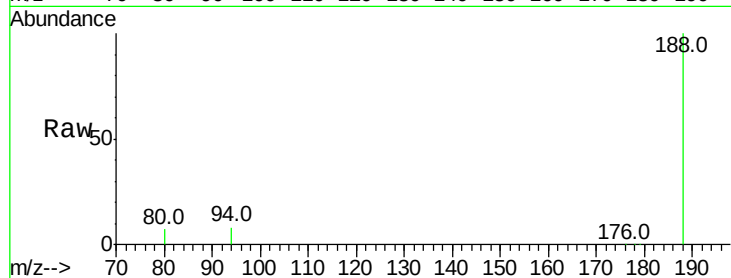




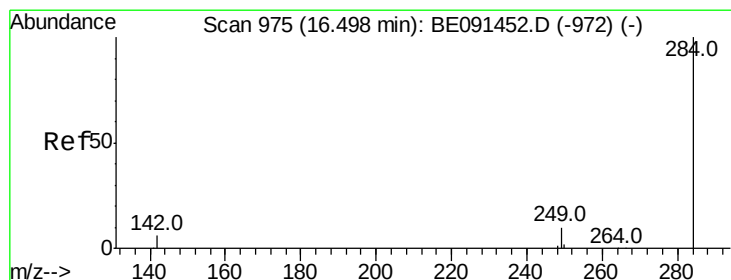
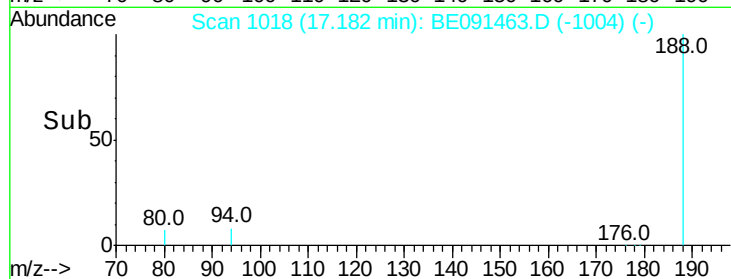
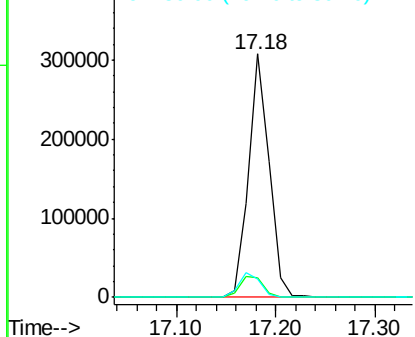
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.18 min Scan# 1018
Delta R.T. -0.00 min
Lab File: BE091463.D
Acq: 17 Mar 2016 12:55

Instrument :
BNA_E
ClientSampleId :

Tot Ion:188 Resp: 443330
Ion Ratio Lower Upper
188 100
94 7.8 9.5 14.3#
80 7.4 9.8 14.8#

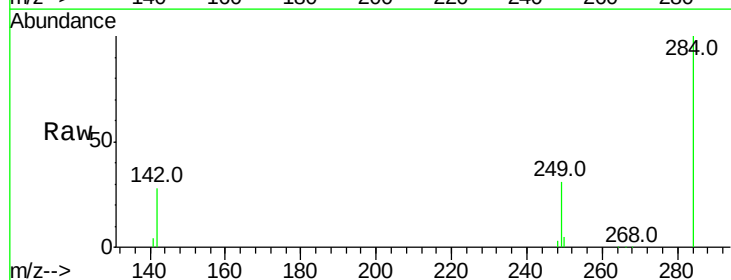


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

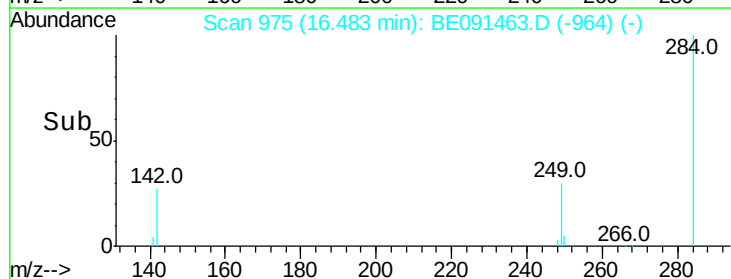
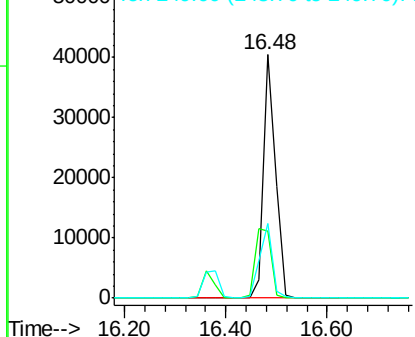


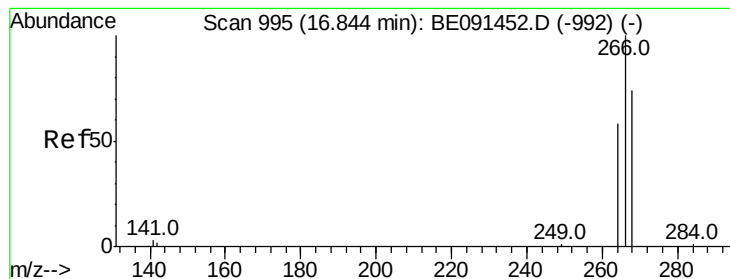
#14
Hexachlorobenzene
Concen: 3.35 ng
RT: 16.48 min Scan# 975
Delta R.T. -0.02 min
Lab File: BE091463.D
Acq: 17 Mar 2016 12:55

Tgt Ion:284 Resp: 65123
Ion Ratio Lower Upper
284 100
142 37.4 0.0 0.0#
249 31.2 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: 6.28 ng

RT: 16.83 min Scan# 995

Delta R.T. -0.01 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

Instrument :

BNA_E

ClientSampleId :

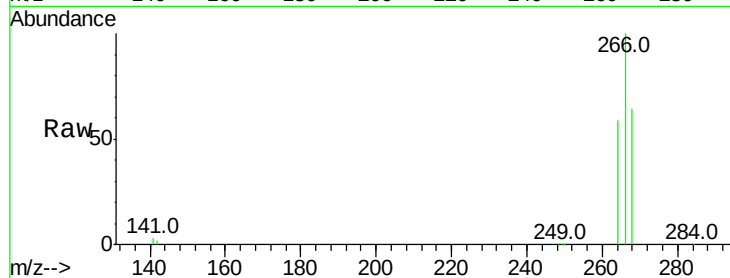
Tot Ion:266 Resp: 66051

Ion Ratio Lower Upper

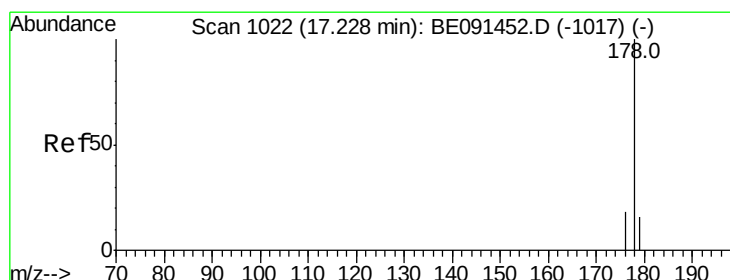
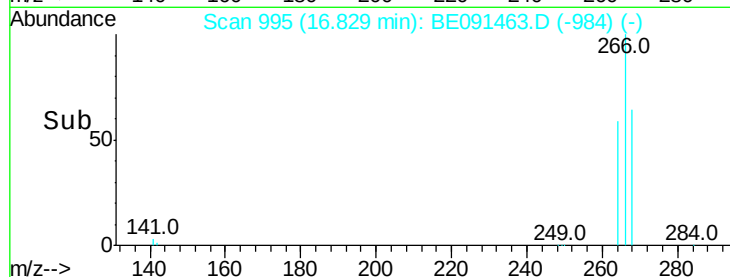
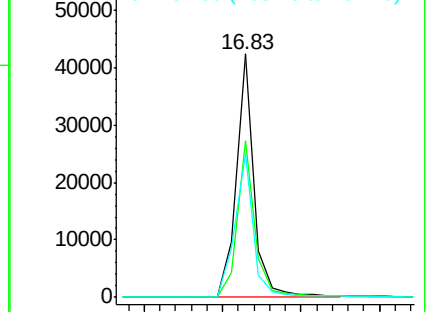
266 100

268 64.4 61.0 91.6

264 59.1 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: 3.24 ng

RT: 17.22 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

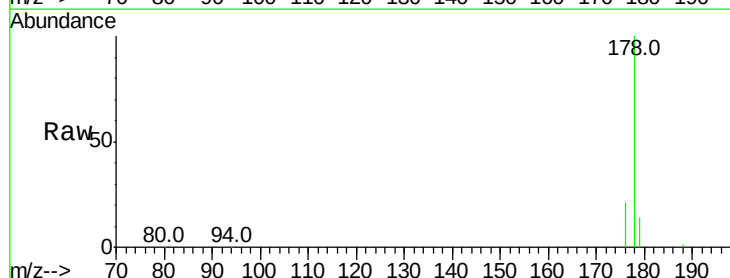
Tgt Ion:178 Resp: 410354

Ion Ratio Lower Upper

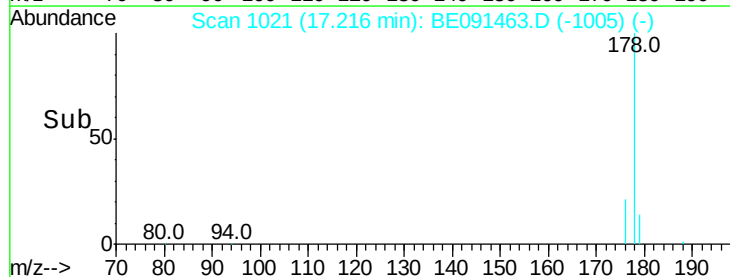
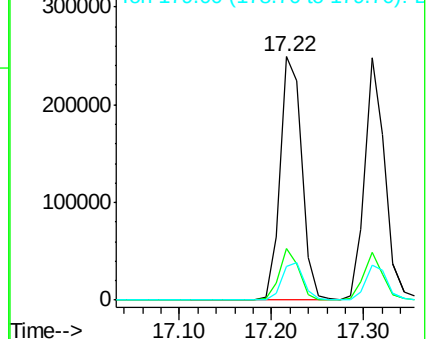
178 100

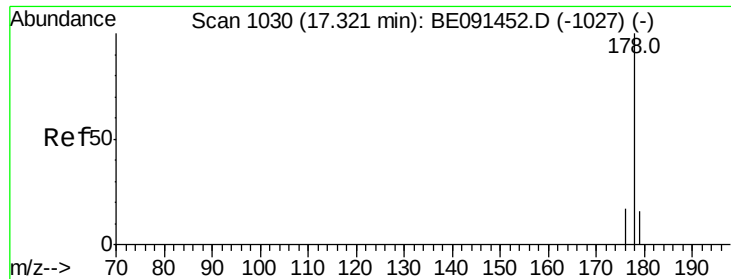
176 19.3 0.0 0.0#

179 15.5 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

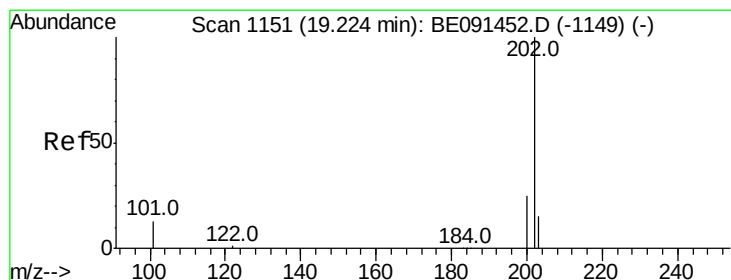
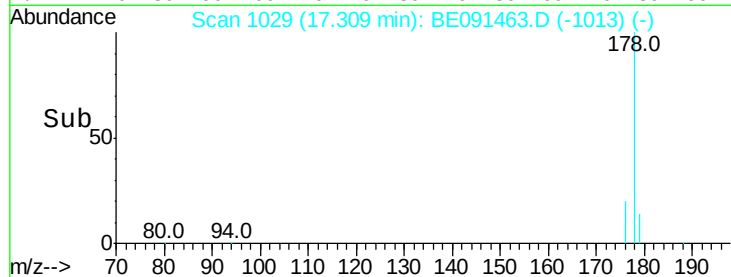
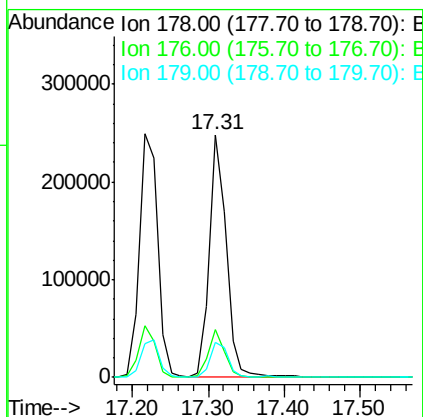
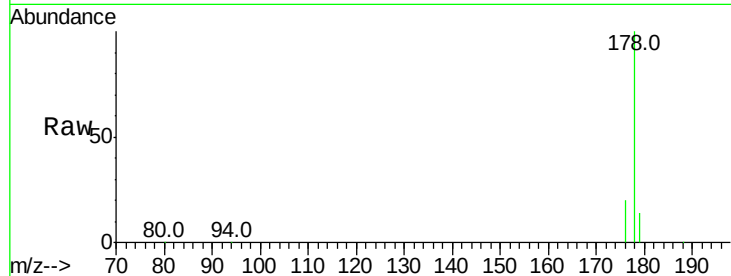




#17
 Anthracene
 Concen: 3.37 ng
 RT: 17.31 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: BE091463.D
 Acq: 17 Mar 2016 12:55

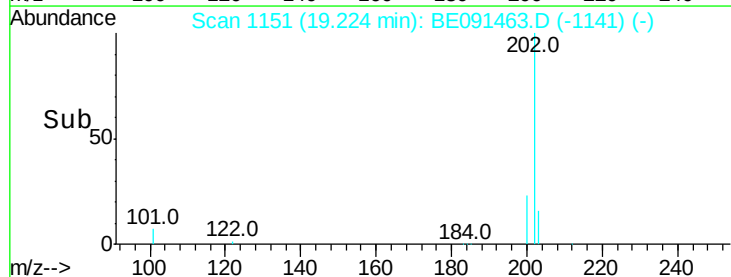
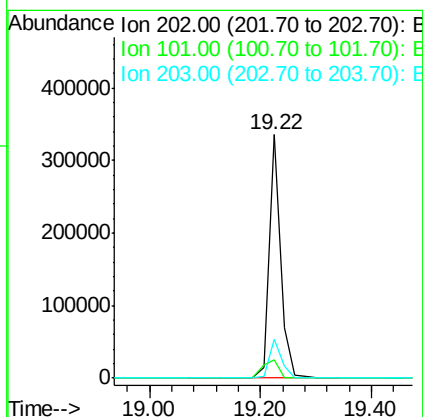
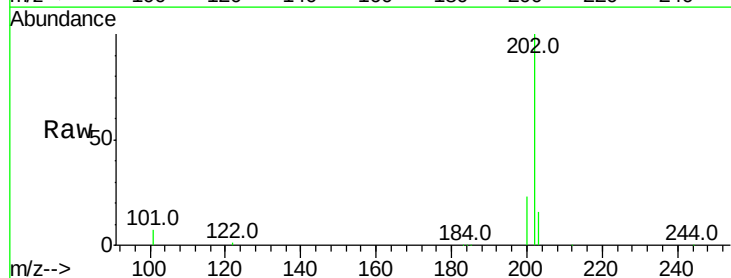
Instrument :
 BNA_E
 ClientSampleId :

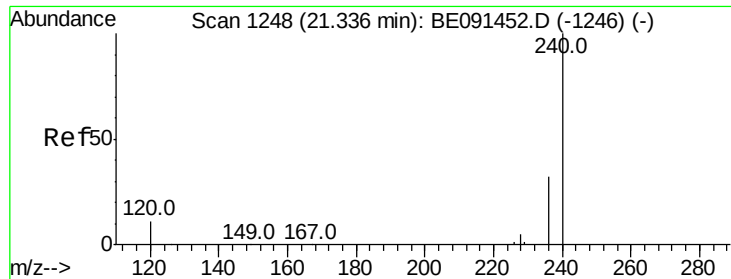
Tot Ion:178 Resp: 380984
 Ion Ratio Lower Upper
 178 100
 176 18.8 0.0 0.0#
 179 15.6 0.0 0.0#



#18
 Fluoranthene
 Concen: 3.41 ng
 RT: 19.22 min Scan# 1151
 Delta R.T. 0.00 min
 Lab File: BE091463.D
 Acq: 17 Mar 2016 12:55

Tgt Ion:202 Resp: 493743
 Ion Ratio Lower Upper
 202 100
 101 10.3 1.1 1.7#
 203 17.3 1.0 1.6#

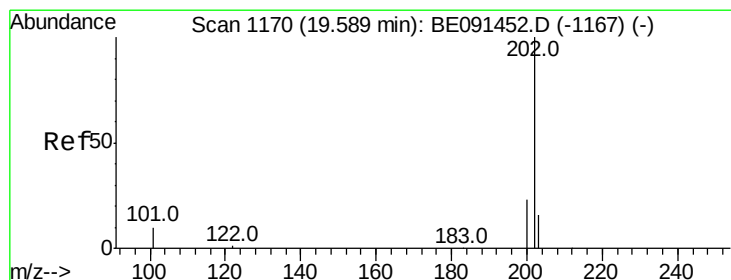
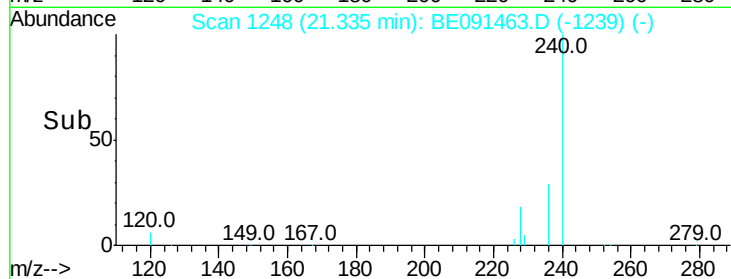
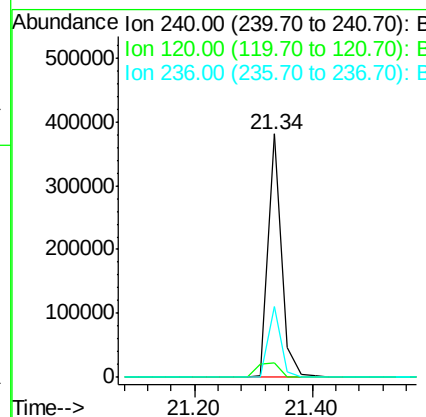
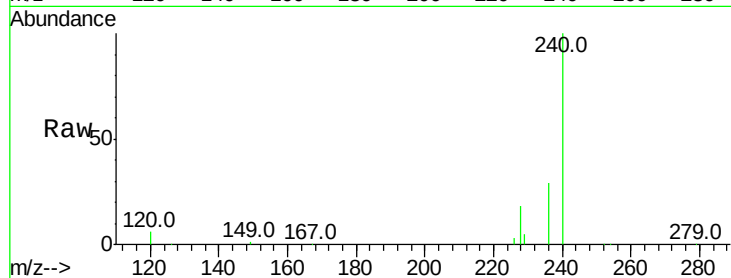




#19
Chrysene-d12
Concen: 5.00 ng
RT: 21.34 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BE091463.D
Acq: 17 Mar 2016 12:55

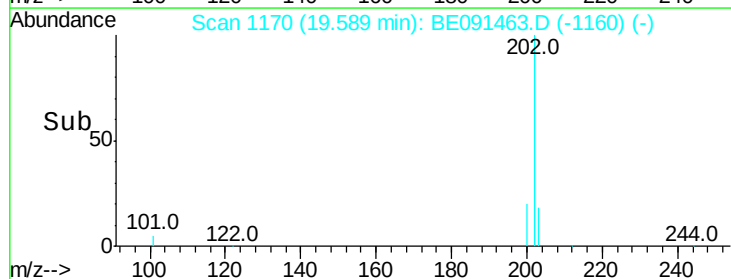
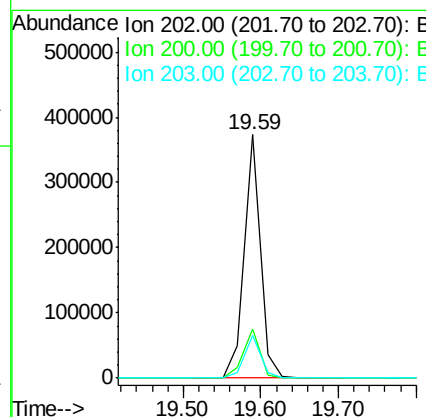
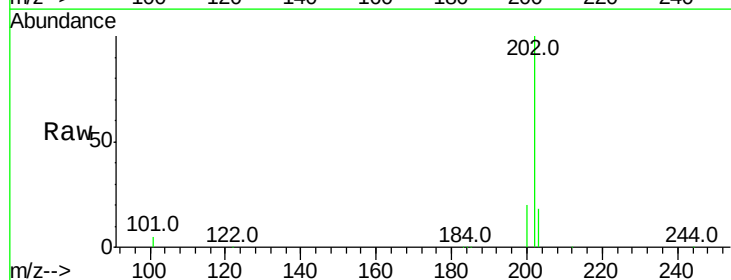
Instrument :
BNA_E
ClientSampleId :

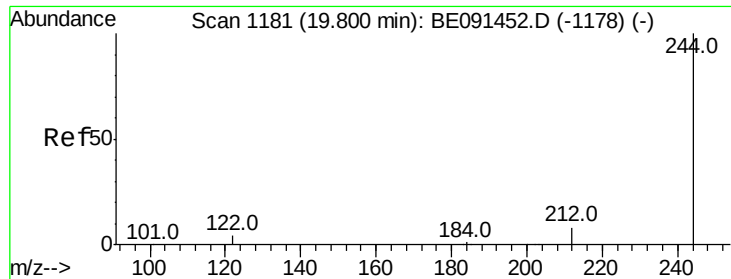
Tot Ion:240 Resp: 606482
Ion Ratio Lower Upper
240 100
120 5.7 8.8 13.2#
236 29.1 25.7 38.5



#20
Pyrene
Concen: 3.10 ng
RT: 19.59 min Scan# 1170
Delta R.T. 0.00 min
Lab File: BE091463.D
Acq: 17 Mar 2016 12:55

Tgt Ion:202 Resp: 537243
Ion Ratio Lower Upper
202 100
200 21.1 0.0 0.0#
203 18.2 0.1 0.1#





#21

Terphenyl-d14

Concen: 3.86 ng

RT: 19.80 min Scan# 1181

Delta R.T. 0.00 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

Instrument :

BNA_E

ClientSampleId :

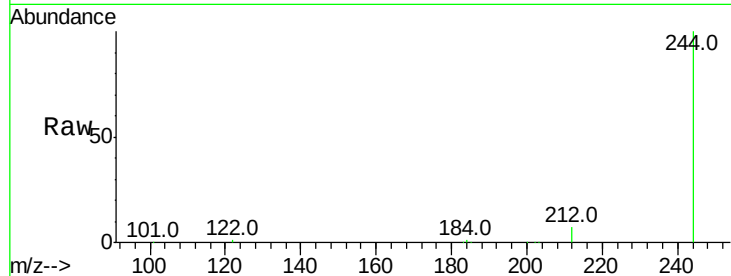
Tot Ion:244 Resp: 348046

Ion Ratio Lower Upper

244 100

212 7.2 6.6 10.0

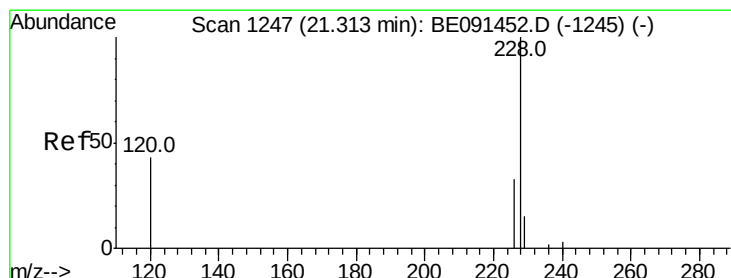
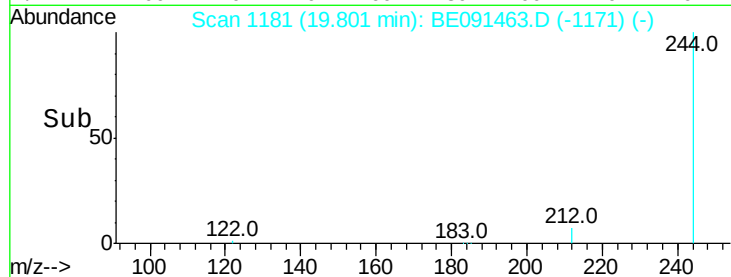
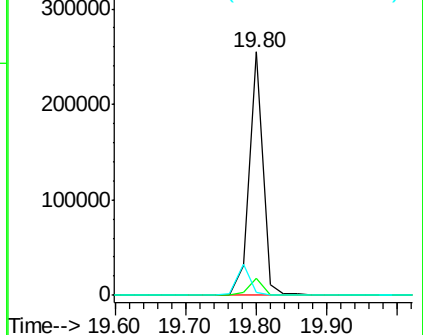
122 1.4 3.4 5.0#



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: 3.29 ng

RT: 21.31 min Scan# 1247

Delta R.T. -0.00 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

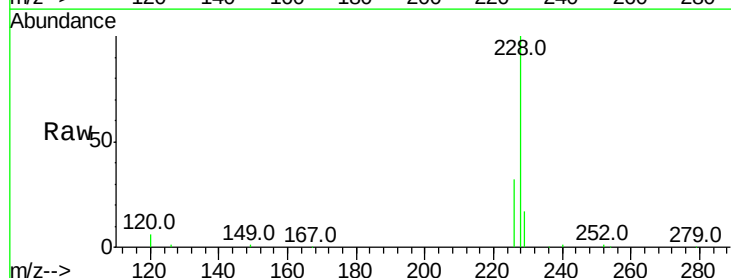
Tgt Ion:228 Resp: 698662

Ion Ratio Lower Upper

228 100

226 31.7 27.1 40.7

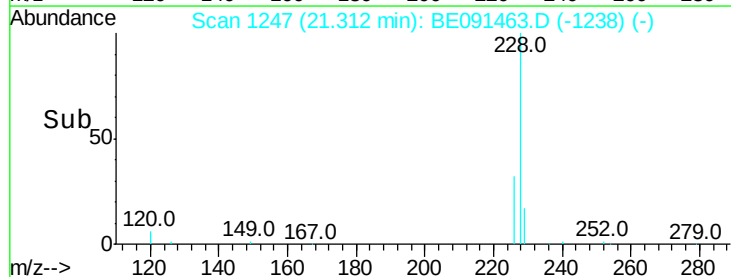
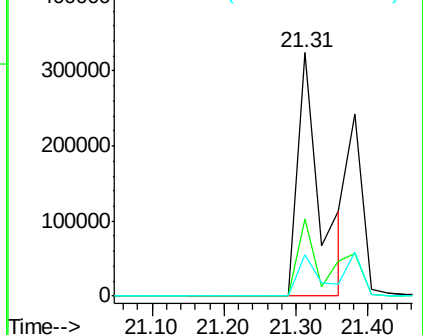
229 16.8 12.3 18.5

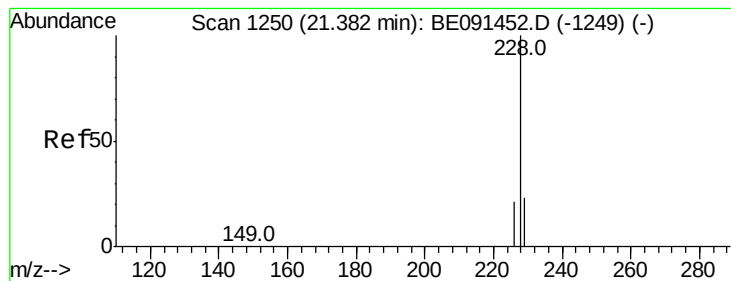


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 5.08 ng

RT: 21.31 min Scan# 1247

Delta R.T. -0.07 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

Instrument :

BNA_E

ClientSampleId :

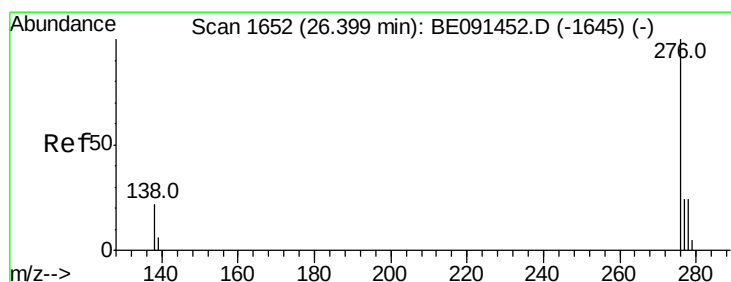
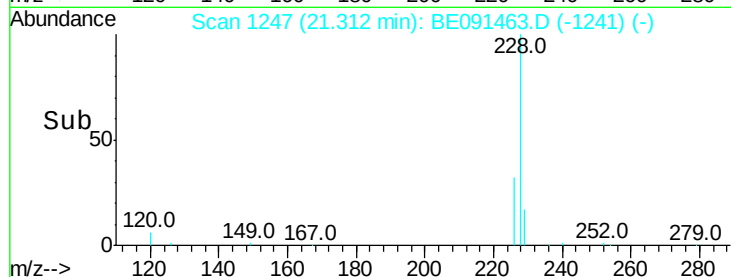
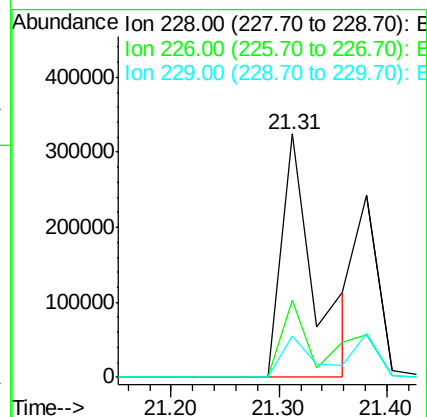
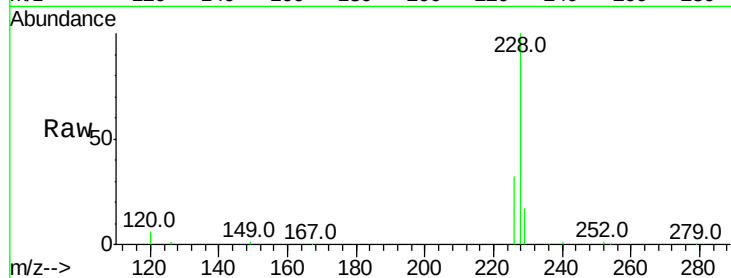
Tot Ion:228 Resp: 698537

Ion Ratio Lower Upper

228 100

226 31.7 20.3 30.5#

229 16.8 17.4 26.0#



#24

Indeno(1,2,3-cd)pyrene

Concen: 2.96 ng

RT: 26.40 min Scan# 1652

Delta R.T. -0.00 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

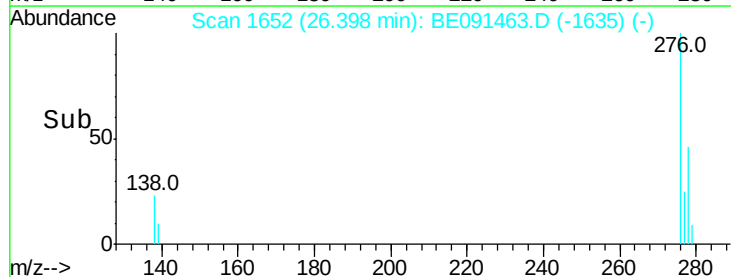
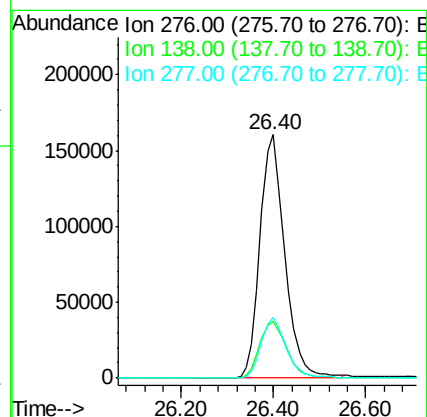
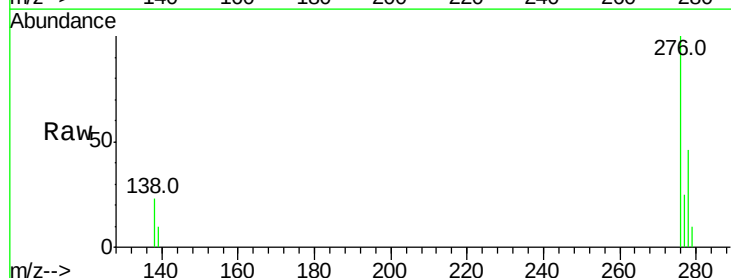
Tgt Ion:276 Resp: 600271

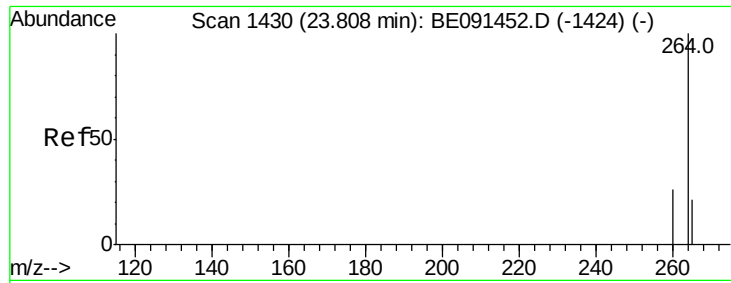
Ion Ratio Lower Upper

276 100

138 25.3 0.0 0.0#

277 25.0 0.0 0.0#





#25

Pervlene-d12

Concen: 5.00 ng

RT: 23.81 min Scan# 1430

Delta R.T. -0.00 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

Instrument :

BNA_E

ClientSampleId :

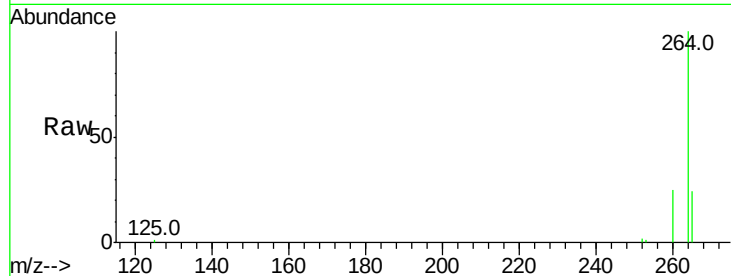
Tot Ion:264 Resp: 530521

Ion Ratio Lower Upper

264 100

260 24.8 20.7 31.1

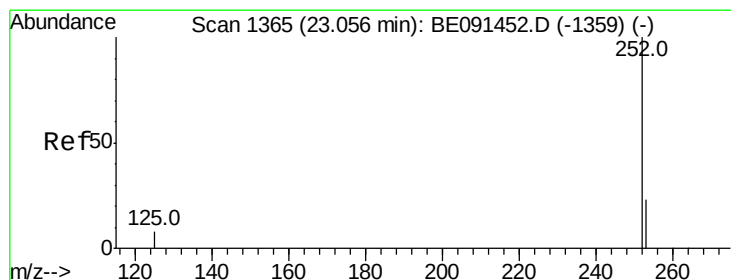
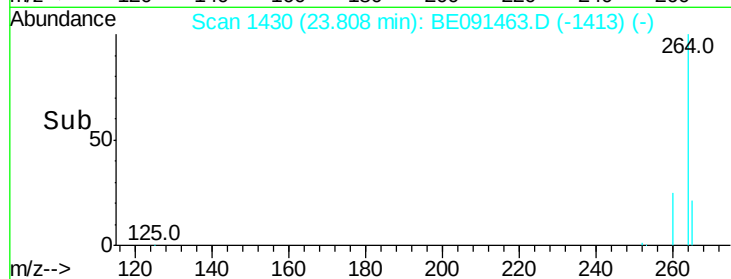
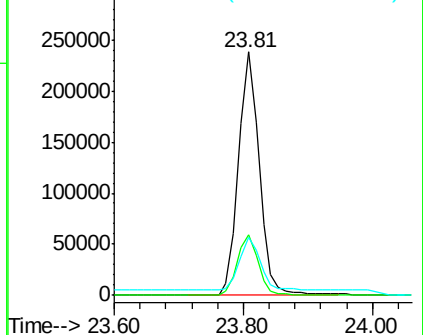
265 23.6 19.4 29.2



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: 3.06 ng

RT: 23.04 min Scan# 1364

Delta R.T. -0.01 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

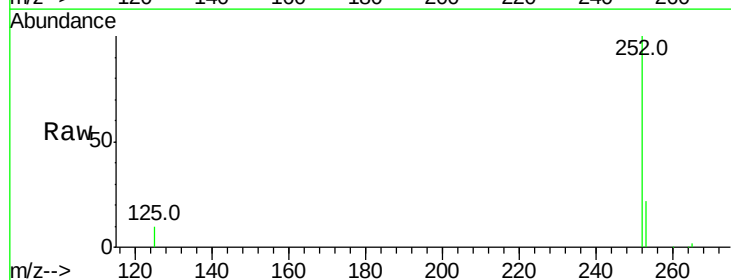
Tgt Ion:252 Resp: 552751

Ion Ratio Lower Upper

252 100

253 21.6 20.6 30.8

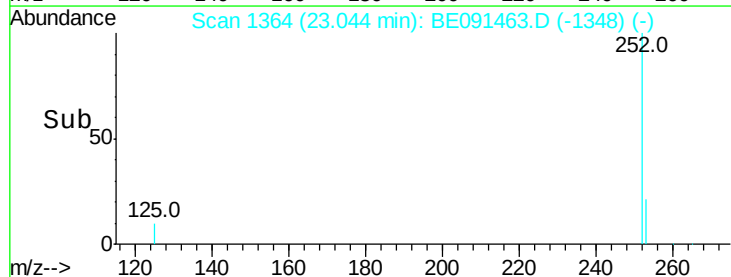
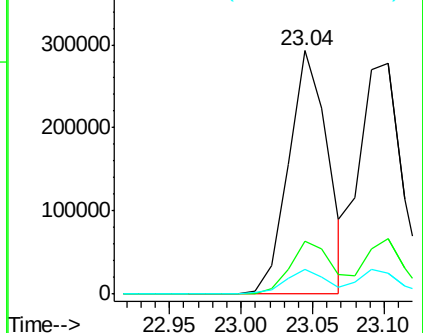
125 10.2 10.2 15.4#

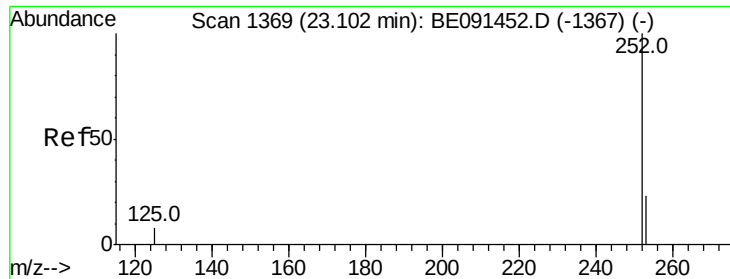


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#27

Benzo(k)fluoranthene

Concen: 3.42 ng

RT: 23.10 min Scan# 1369

Delta R.T. -0.00 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

Instrument :

BNA_E

ClientSampleId :

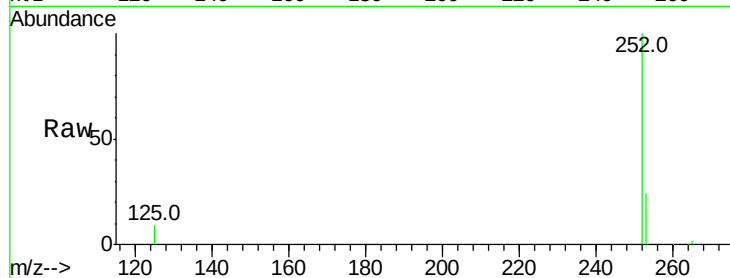
Tot Ion:252 Resp: 573261

Ion Ratio Lower Upper

252 100

253 24.2 20.2 30.2

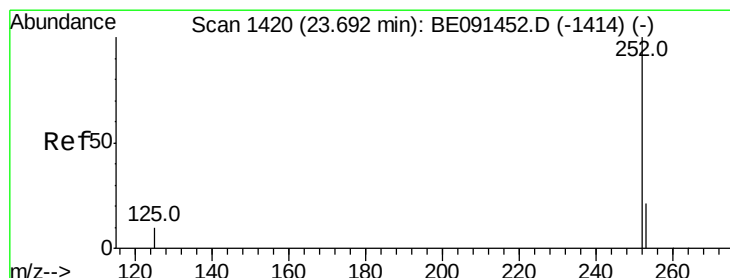
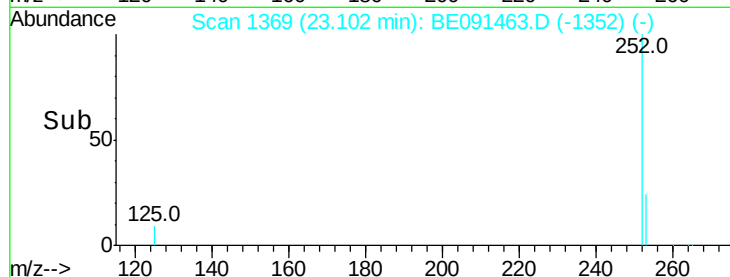
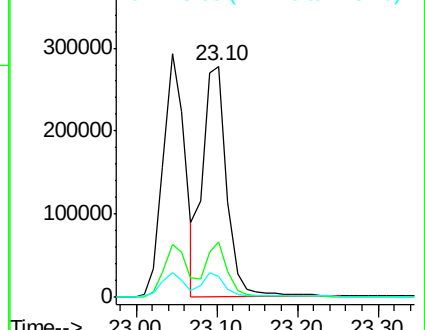
125 9.0 10.6 16.0#



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: 3.45 ng

RT: 23.69 min Scan# 1420

Delta R.T. -0.00 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

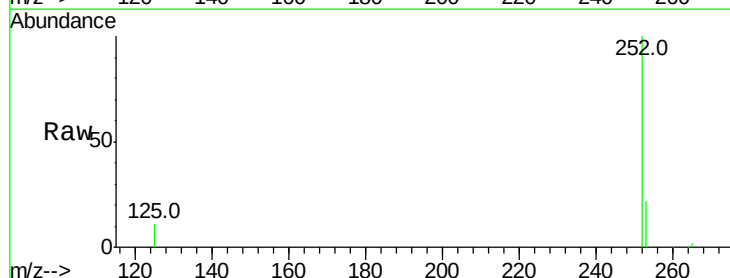
Tgt Ion:252 Resp: 530630

Ion Ratio Lower Upper

252 100

253 22.2 20.0 30.0

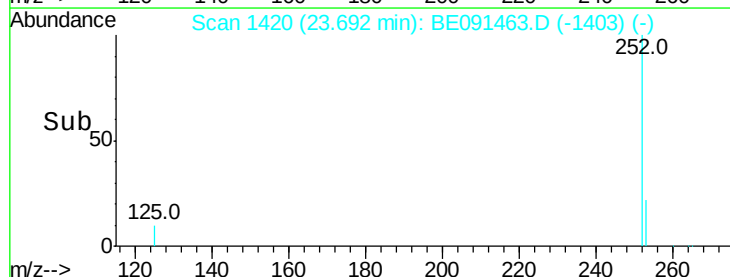
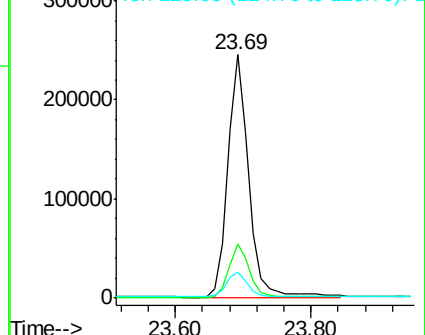
125 10.8 12.7 19.1#

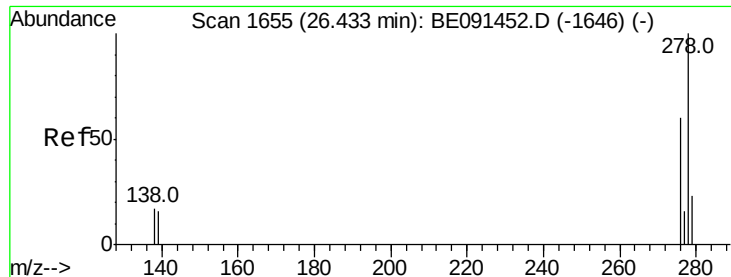


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 3.40 ng

RT: 26.42 min Scan# 1654

Delta R.T. -0.01 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

Instrument :

BNA_E

ClientSampleId :

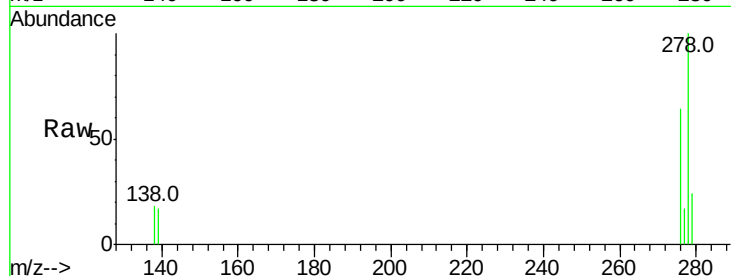
Tot Ion:278 Resp: 506910

Ion Ratio Lower Upper

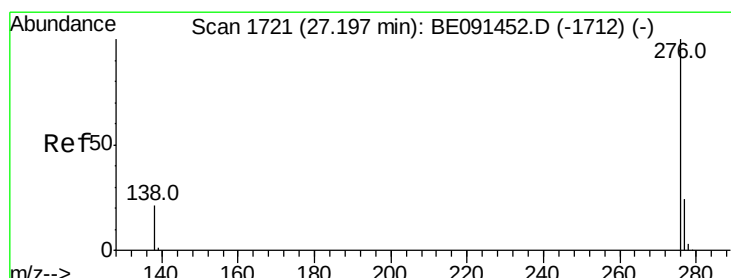
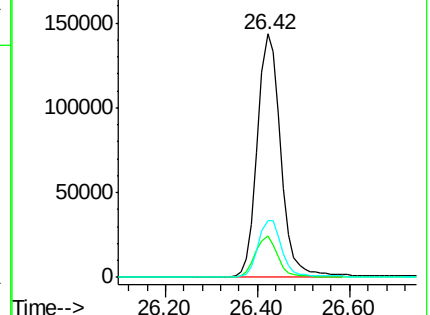
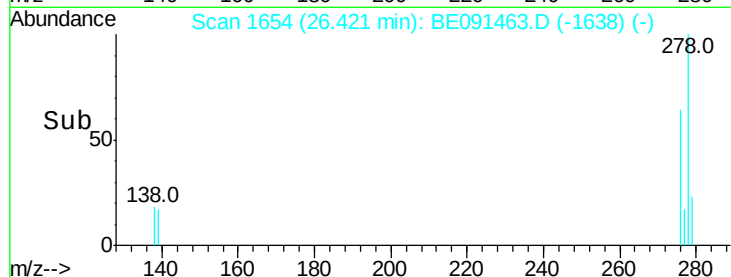
278 100

139 16.8 13.3 19.9

279 23.5 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: 3.34 ng

RT: 27.20 min Scan# 1721

Delta R.T. -0.00 min

Lab File: BE091463.D

Acq: 17 Mar 2016 12:55

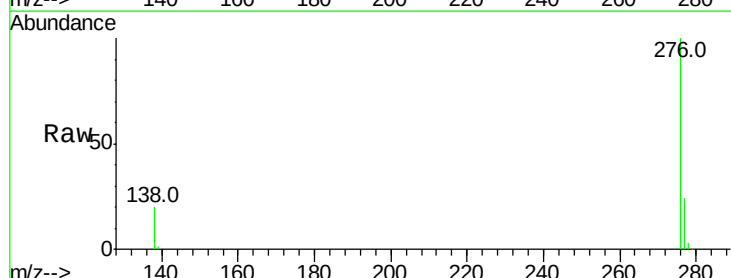
Tgt Ion:276 Resp: 520459

Ion Ratio Lower Upper

276 100

277 23.5 19.8 29.8

138 20.4 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

