

Data Path : Z:\HPCHEM1\BNA E\DATA\BE031616\
 Data File : BE091456.D
 Acq On : 16 Mar 2016 23:06
 Operator : UM/SJ
 Sample : SSTDICC005
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 17 07:09:51 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

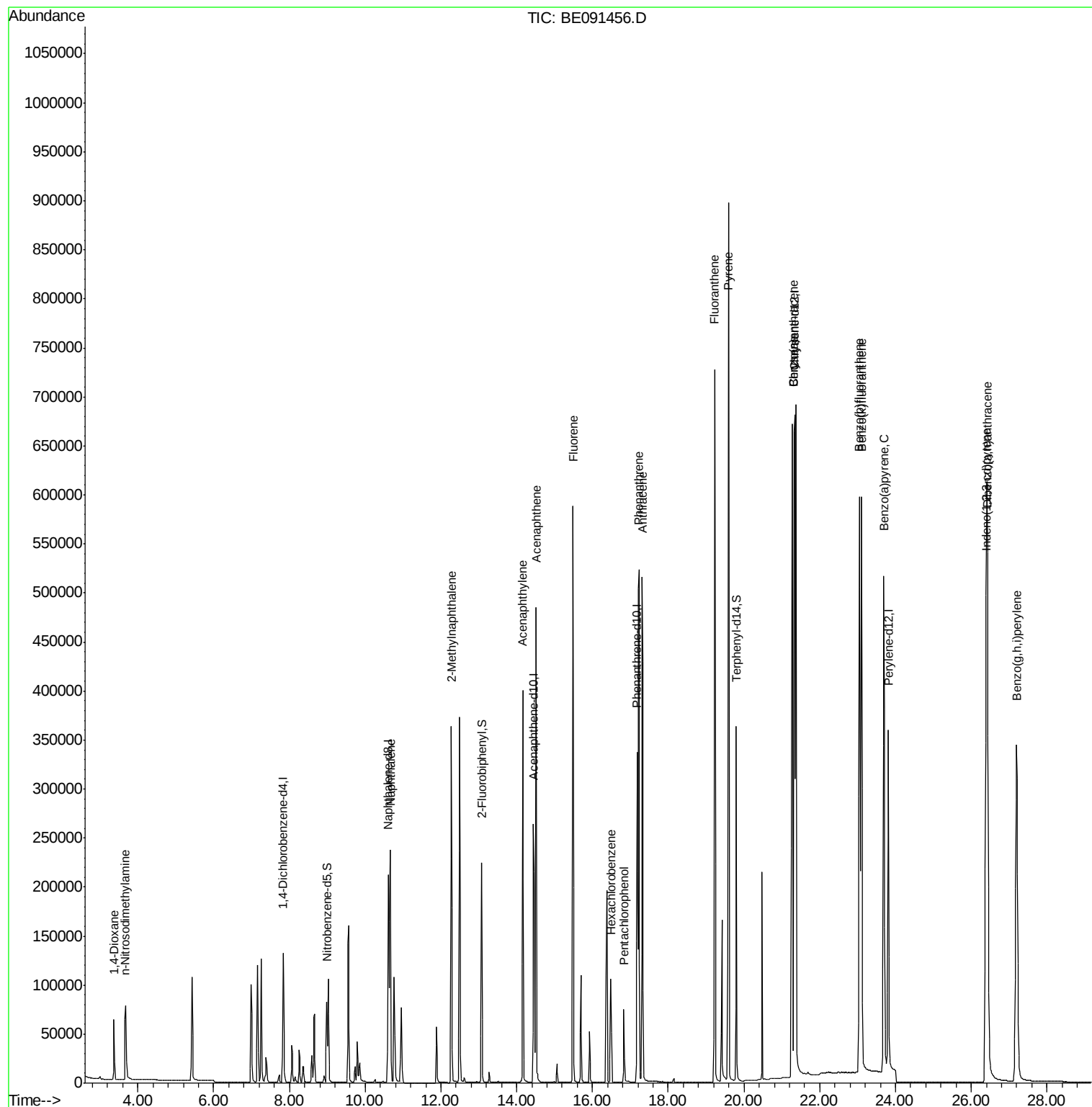
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	65973	5.00	ng	0.00
4) Naphthalene-d8	10.61	136	307390	5.00	ng	0.00
8) Acenaphthene-d10	14.44	164	180219	5.00	ng	0.00
13) Phenanthrene-d10	17.18	188	430963	5.00	ng	0.00
19) Chrysene-d12	21.34	240	556898	5.00	ng	0.00
25) Perylene-d12	23.81	264	528821	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.99	82	81207	5.67	ng	0.00
9) 2-Fluorobiphenyl	13.08	172	252651	5.78	ng	0.00
21) Terphenyl-d14	19.80	244	434259	5.17	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	3.37	88	39244	6.45	ng	# 100
3) n-Nitrosodimethylamine	3.66	42	72554	10.31	ng	# 100
6) Naphthalene	10.67	128	394778	5.57	ng	99
7) 2-Methylnaphthalene	12.27	142	264429	6.27	ng	93
10) Acenaphthylene	14.16	152	468306	1.75	ng	# 100
11) Acenaphthene	14.51	154	298189	5.49	ng	# 100
12) Fluorene	15.49	166	381053	5.42	ng	# 100
14) Hexachlorobenzene	16.48	284	102607	4.19	ng	# 100
15) Pentachlorophenol	16.83	266	52166	9.68	ng	# 83
16) Phenanthrene	17.23	178	646697	4.40	ng	# 100
17) Anthracene	17.31	178	622233	2.96	ng	# 100
18) Fluoranthene	19.22	202	775883	3.63	ng	# 68
20) Pyrene	19.59	202	849784	5.40	ng	# 92
22) Benzo(a)anthracene	21.31	228	982208	5.10	ng	99
23) Chrysene	21.31	228	982099	4.93	ng	# 86
24) Indeno(1,2,3-cd)pyrene	26.40	276	971579	5.70	ng	# 100
26) Benzo(b)fluoranthene	23.04	252	856744	5.55	ng	92
27) Benzo(k)fluoranthene	23.10	252	913268	6.40	ng	# 93
28) Benzo(a)pyrene	23.69	252	831159	6.38	ng	# 92
29) Dibenzo(a,h)anthracene	26.43	278	817755	6.54	ng	96
30) Benzo(g,h,i)perylene	27.20	276	820856	6.13	ng	99

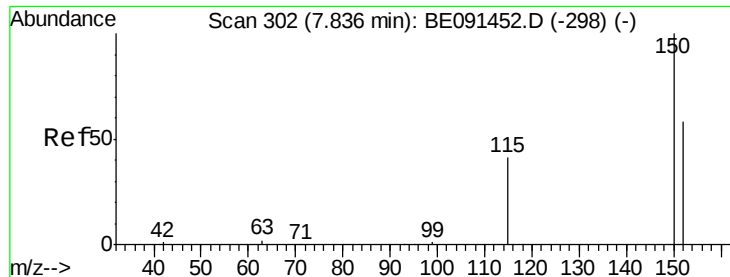
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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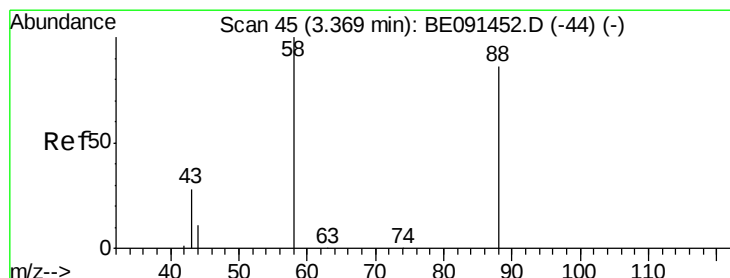
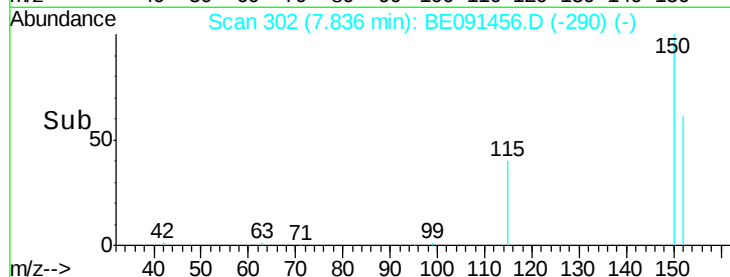
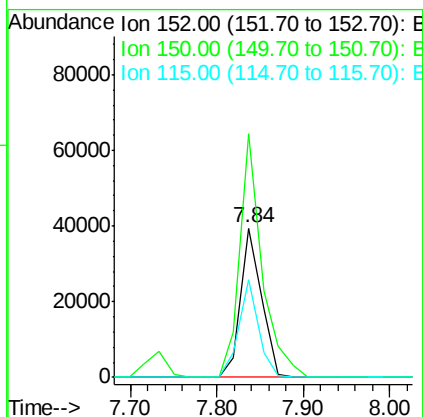
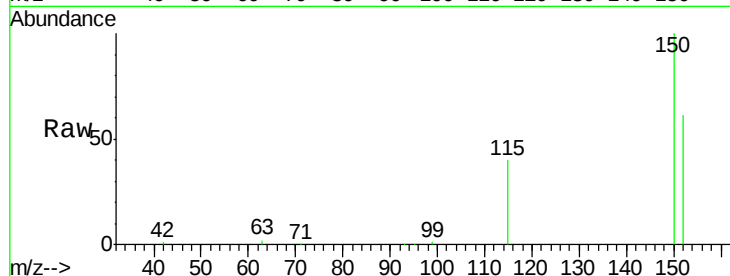


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.84 min Scan# 302
Delta R.T. 0.00 min
Lab File: BE091456.D
Acq: 16 Mar 2016 23:06

Instrument :
BNA_E
ClientSampleId :

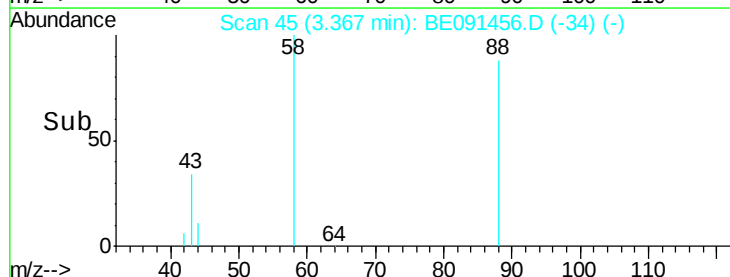
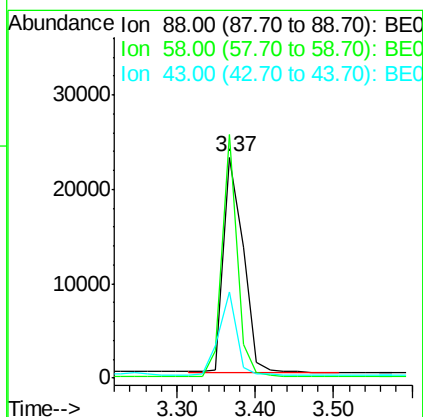
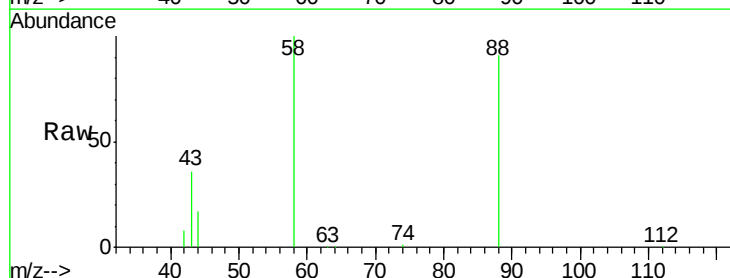
Tot Ion:152 Resp: 65973
Ion Ratio Lower Upper
152 100
150 162.9 136.8 205.2
115 65.4 56.9 85.3

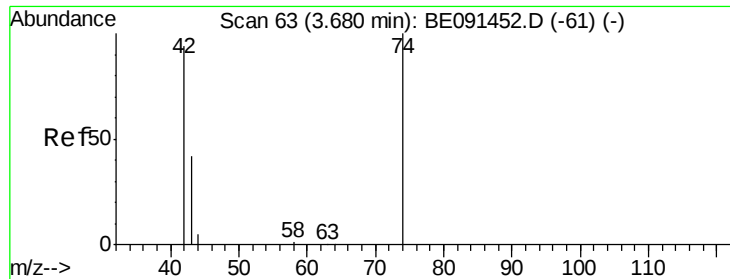


#2

1,4-Dioxane
Concen: 6.45 ng
RT: 3.37 min Scan# 45
Delta R.T. -0.00 min
Lab File: BE091456.D
Acq: 16 Mar 2016 23:06

Tgt Ion: 88 Resp: 39244
Ion Ratio Lower Upper
88 100
58 85.8 0.0 0.0#
43 34.3 0.0 0.0#



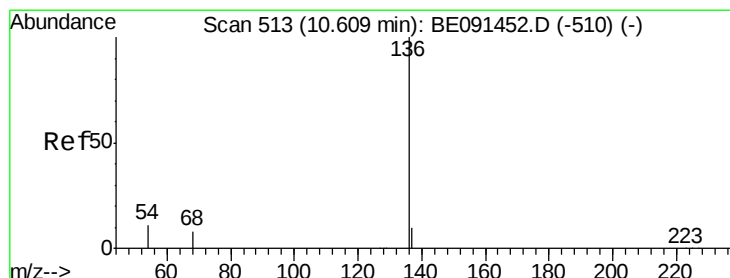
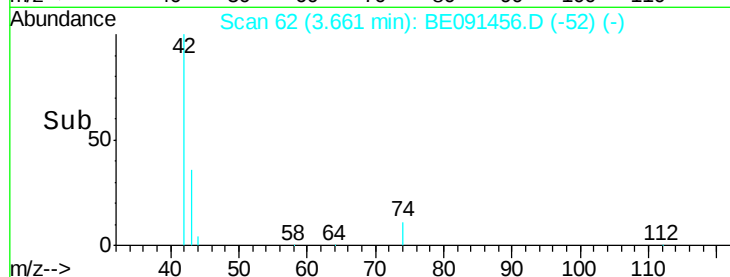
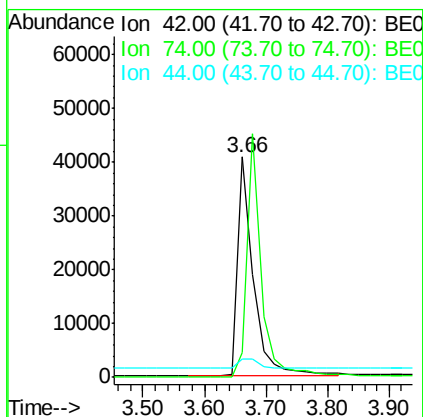
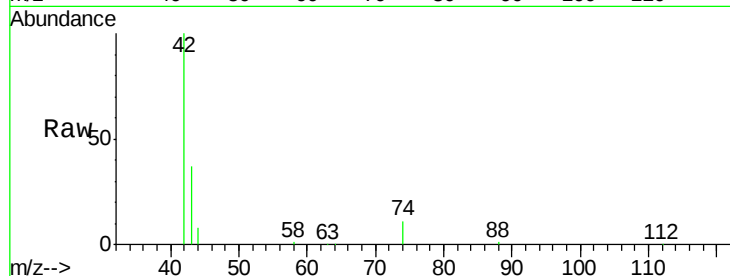


#3

n-Nitrosodimethylamine
 Concen: 10.31 ng
 RT: 3.66 min Scan# 62
 Delta R.T. -0.02 min
 Lab File: BE091456.D
 Acq: 16 Mar 2016 23:06

Instrument :
 BNA_E
 ClientSampleId :

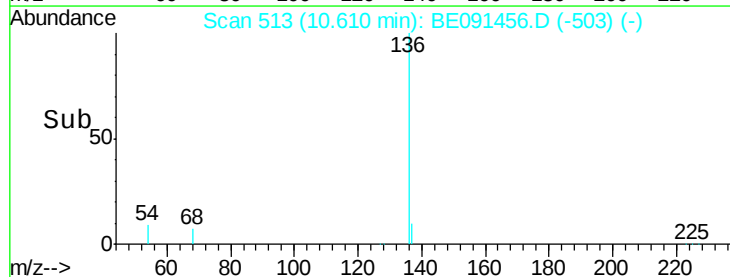
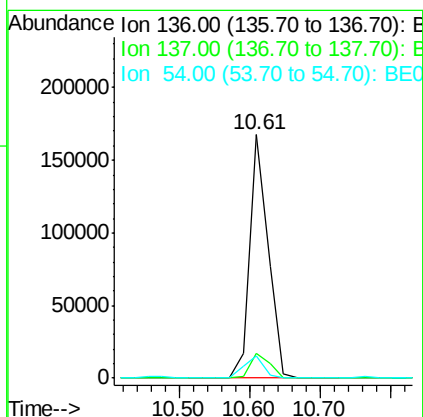
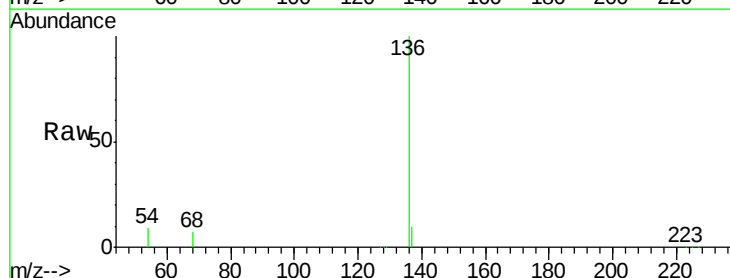
Tot Ion: 42 Resp: 72554
 Ion Ratio Lower Upper
 42 100
 74 99.0 0.0 0.0#
 44 6.3 0.0 0.0#

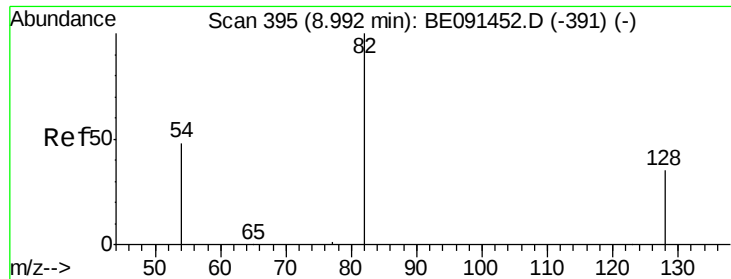


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 10.61 min Scan# 513
 Delta R.T. 0.00 min
 Lab File: BE091456.D
 Acq: 16 Mar 2016 23:06

Tgt Ion: 136 Resp: 307390
 Ion Ratio Lower Upper
 136 100
 137 10.3 8.0 12.0
 54 9.4 9.1 13.7





#5

Nitrobenzene-d5

Concen: 5.67 ng

RT: 8.99 min Scan# 395

Delta R.T. 0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

Instrument :

BNA_E

ClientSampleId :

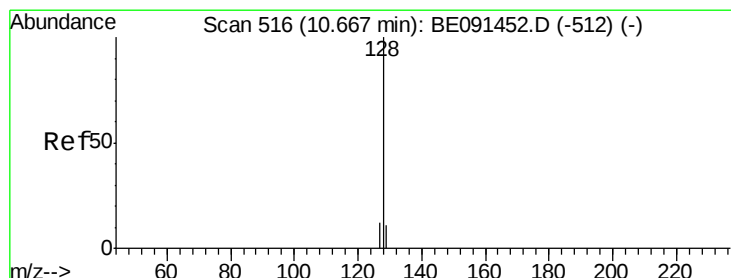
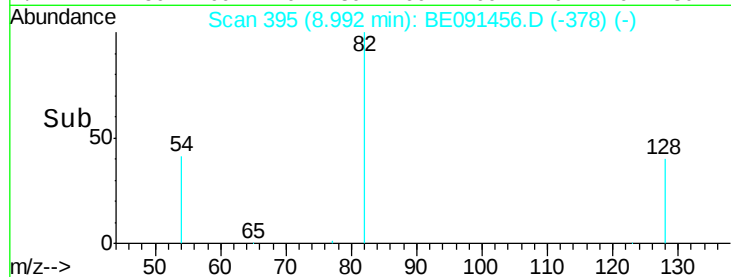
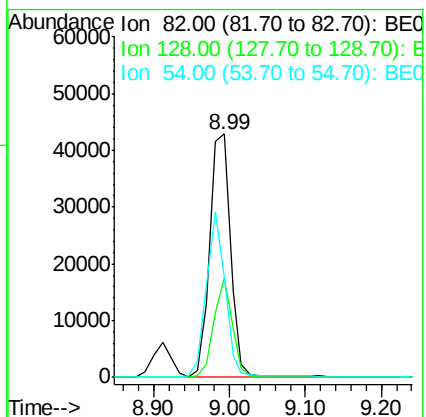
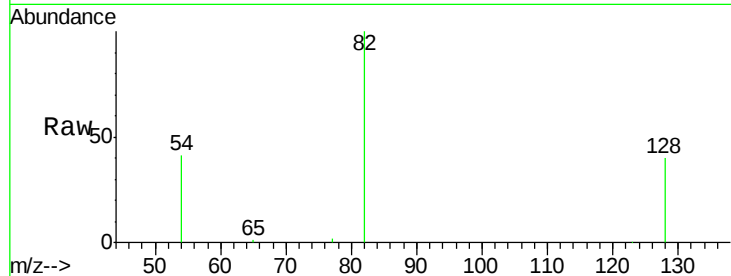
Tot Ion: 82 Resp: 81207

Ion Ratio Lower Upper

82 100

128 40.4 29.4 44.2

54 41.2 39.8 59.8



#6

Naphthalene

Concen: 5.57 ng

RT: 10.67 min Scan# 516

Delta R.T. 0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

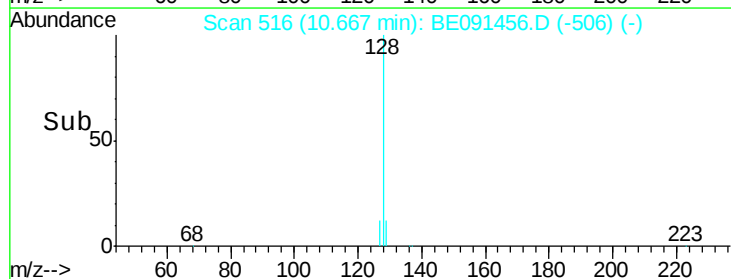
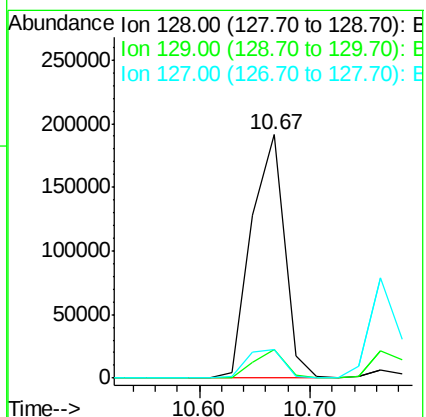
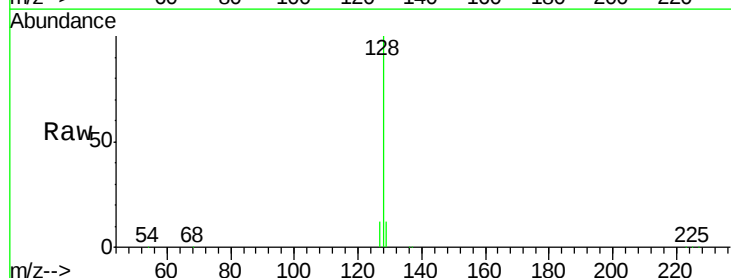
Tgt Ion: 128 Resp: 394778

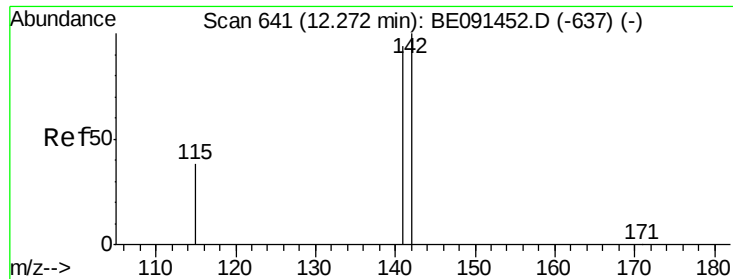
Ion Ratio Lower Upper

128 100

129 11.9 9.4 14.0

127 11.6 9.7 14.5





#7

2-Methylnaphthalene

Concen: 6.27 ng

RT: 12.27 min Scan# 641

Delta R.T. 0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

Instrument :

BNA_E

ClientSampleId :

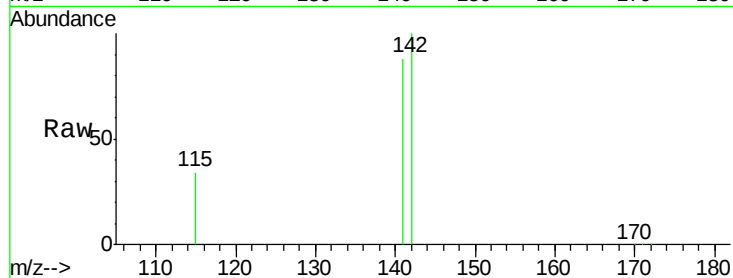
Tot Ion:142 Resp: 264429

Ion Ratio Lower Upper

142 100

141 87.9 75.0 112.4

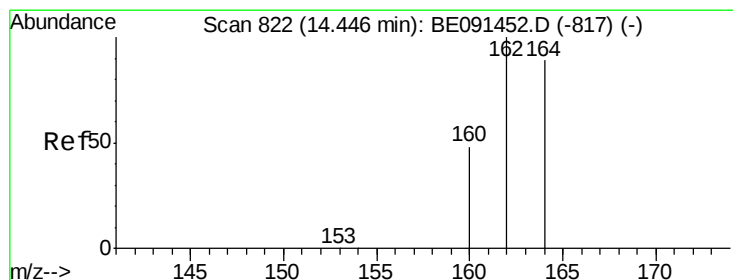
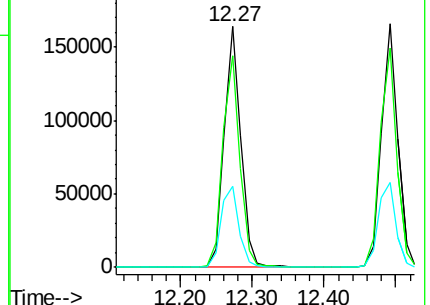
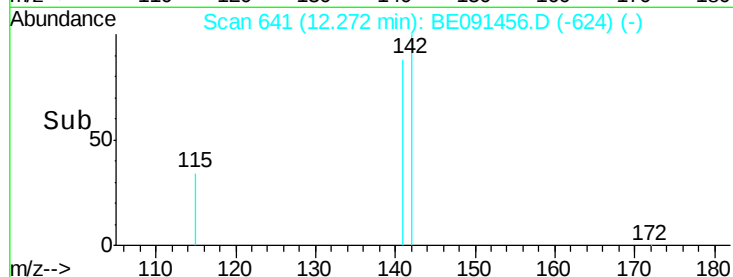
115 33.8 30.8 46.2



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: 14.44 min Scan# 822

Delta R.T. -0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

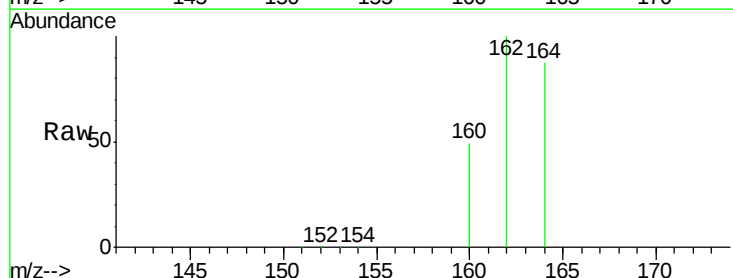
Tgt Ion:164 Resp: 180219

Ion Ratio Lower Upper

164 100

162 115.0 89.8 134.8

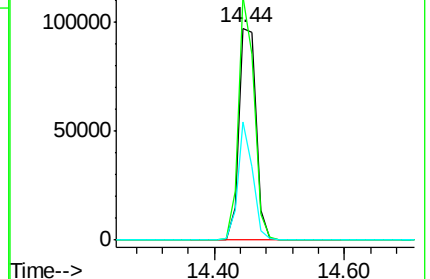
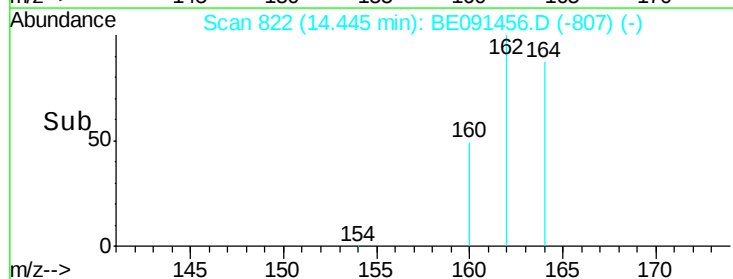
160 56.0 43.1 64.7

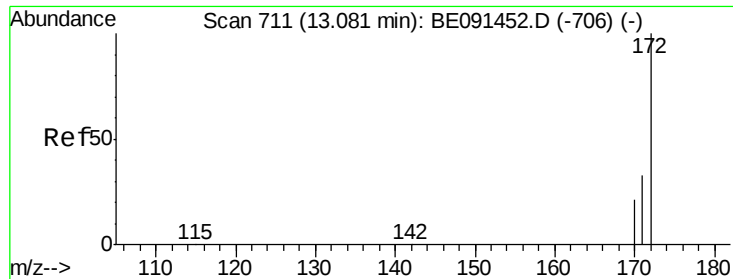


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 5.78 ng

RT: 13.08 min Scan# 711

Delta R.T. 0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

Instrument :

BNA_E

ClientSampleId :

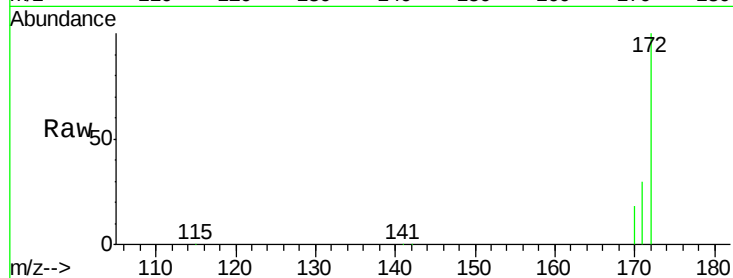
Tot Ion:172 Resp: 252651

Ion Ratio Lower Upper

172 100

171 30.4 26.7 40.1

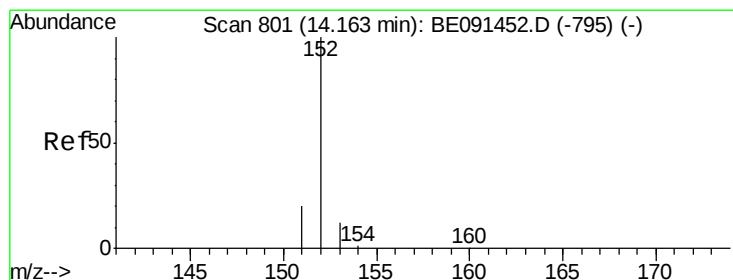
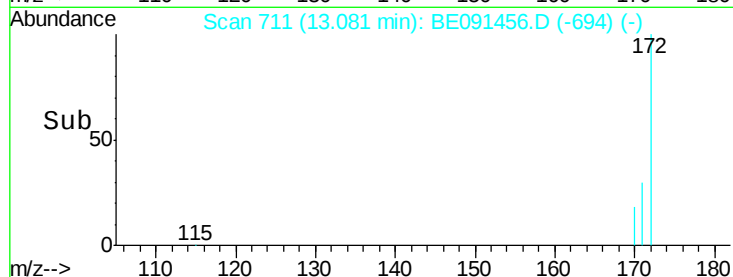
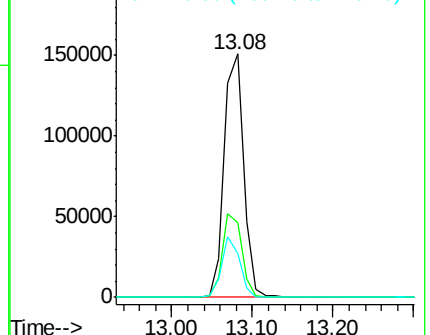
170 18.0 17.4 26.2



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: 1.75 ng

RT: 14.16 min Scan# 801

Delta R.T. -0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

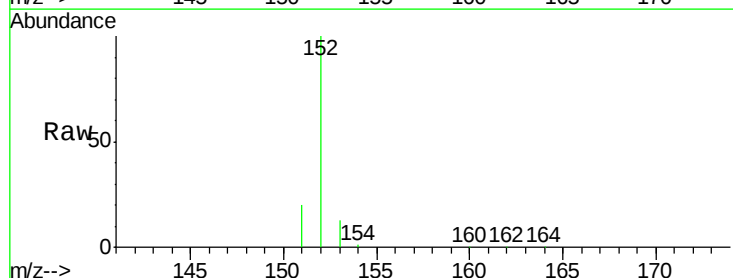
Tgt Ion:152 Resp: 468306

Ion Ratio Lower Upper

152 100

151 19.5 0.0 0.0#

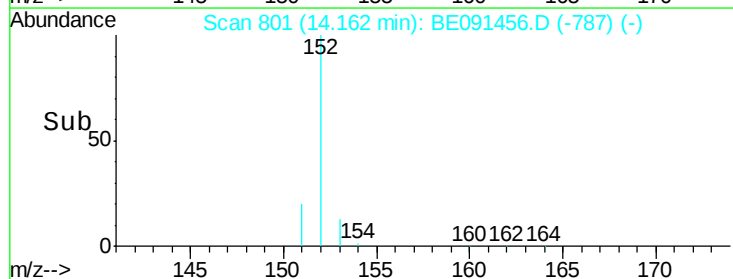
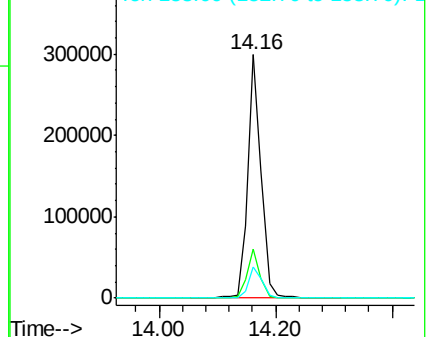
153 13.3 0.0 0.0#

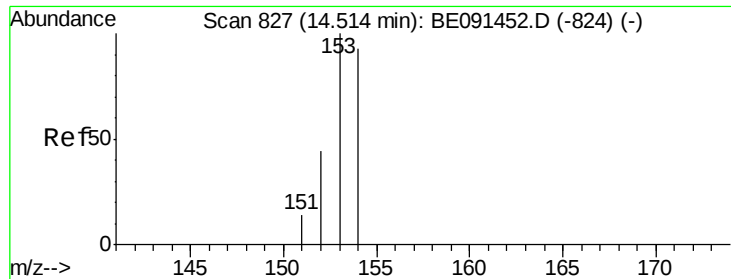


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

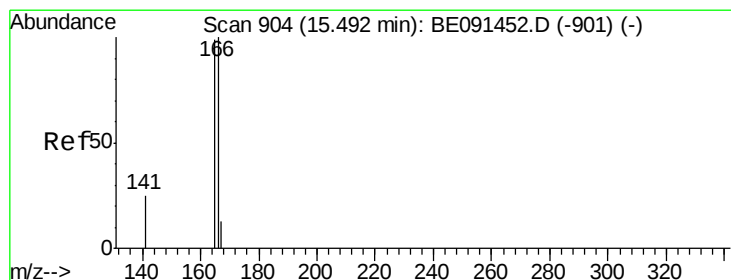
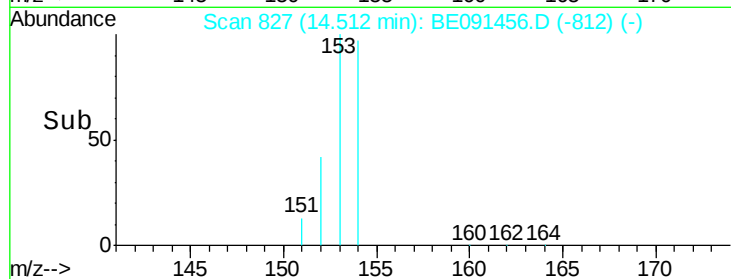
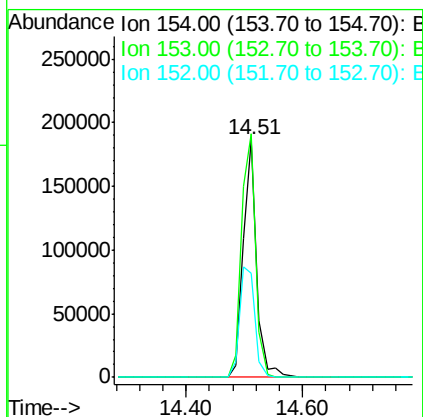
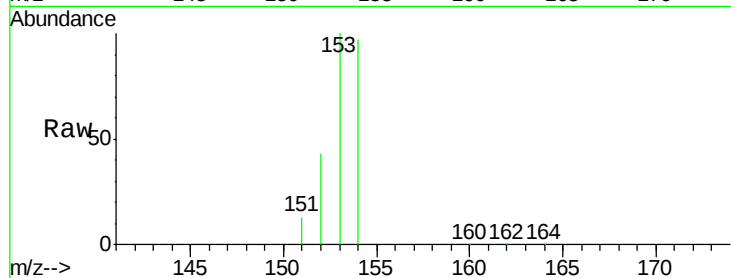




#11
Acenaphthene
Concen: 5.49 ng
RT: 14.51 min Scan# 827
Delta R.T. -0.00 min
Lab File: BE091456.D
Acq: 16 Mar 2016 23:06

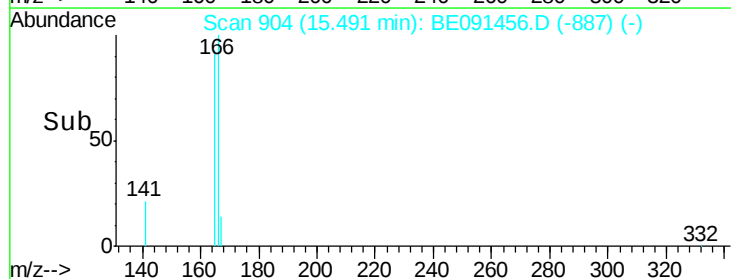
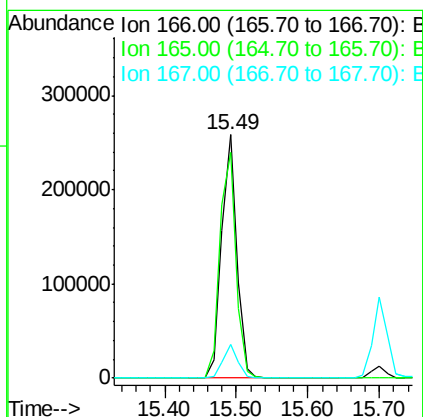
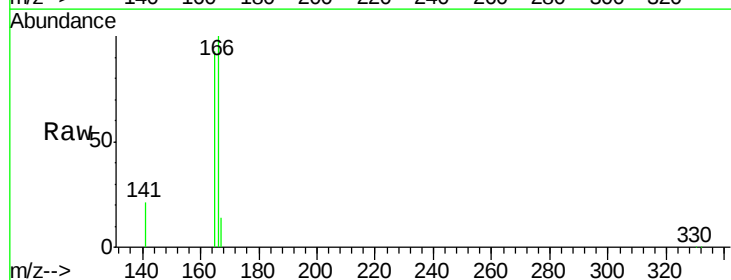
Instrument :
BNA_E
ClientSampleId :

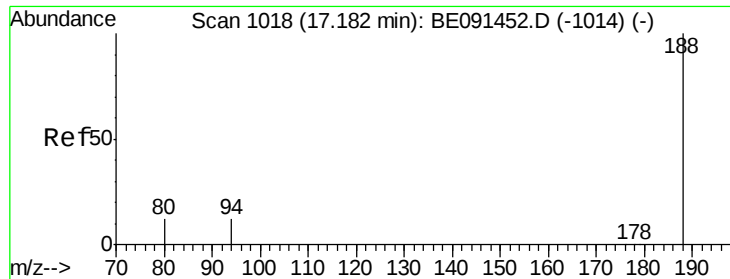
Tot Ion	Ratio	Lower	Upper
154	100		
153	108.2	0.0	0.0#
152	52.9	0.0	0.0#



#12
Fluorene
Concen: 5.42 ng
RT: 15.49 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE091456.D
Acq: 16 Mar 2016 23:06

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.0	0.0	0.0#
167	13.5	0.0	0.0#

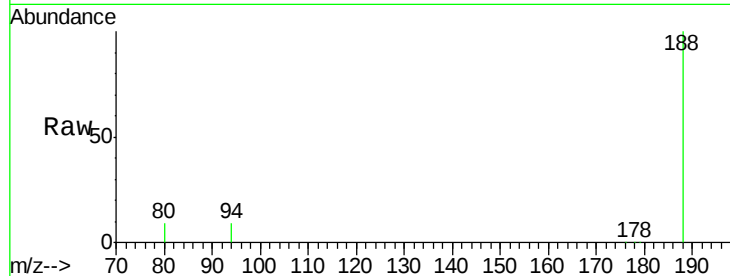




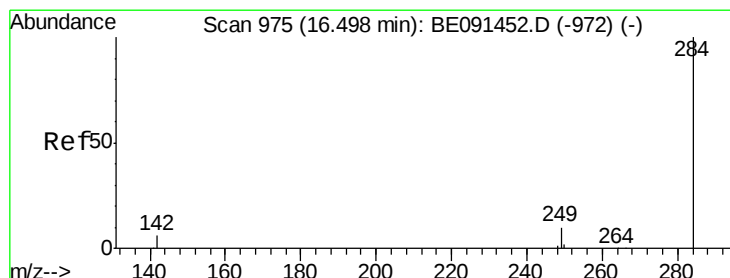
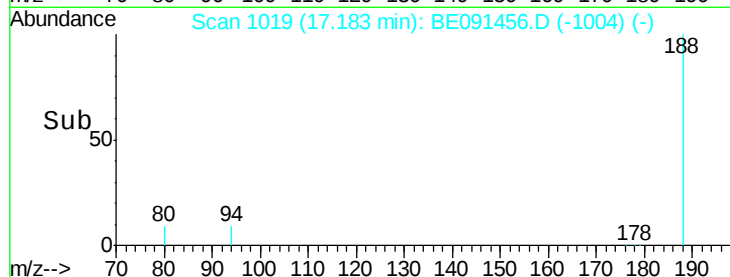
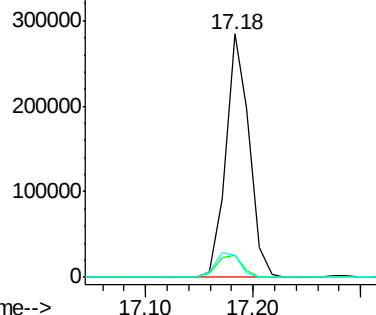
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.18 min Scan# 1019
Delta R.T. 0.00 min
Lab File: BE091456.D
Acq: 16 Mar 2016 23:06

Instrument :
BNA_E
ClientSampleId :

Tot Ion:188 Resp: 430963
Ion Ratio Lower Upper
188 100
94 9.2 9.5 14.3#
80 9.0 9.8 14.8#

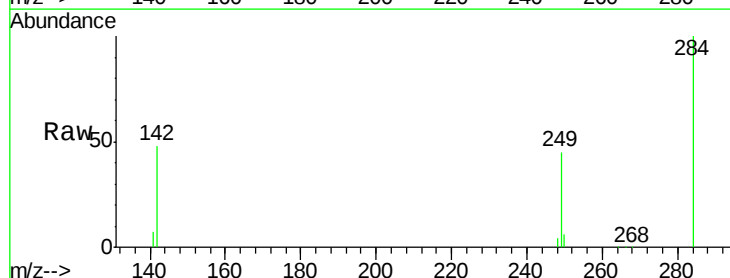


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

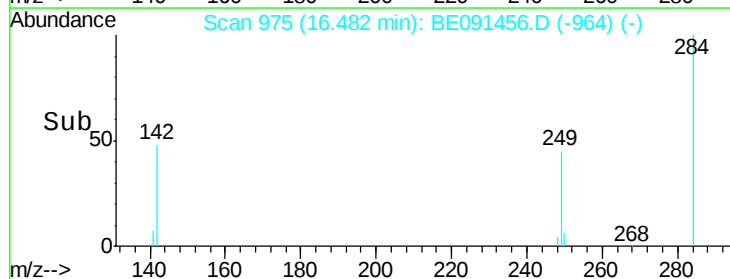
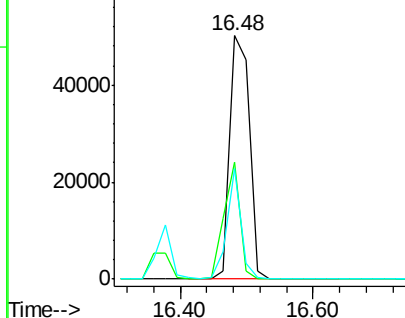


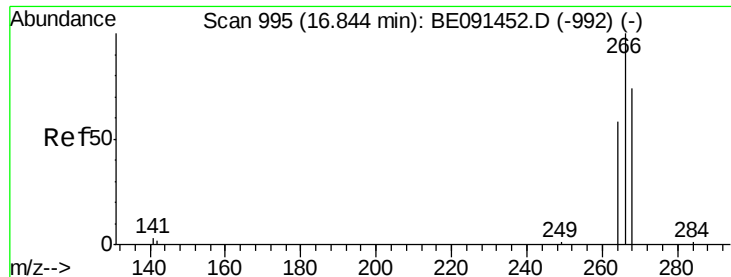
#14
Hexachlorobenzene
Concen: 4.19 ng
RT: 16.48 min Scan# 975
Delta R.T. -0.02 min
Lab File: BE091456.D
Acq: 16 Mar 2016 23:06

Tgt Ion:284 Resp: 102607
Ion Ratio Lower Upper
284 100
142 38.6 0.0 0.0#
249 31.7 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

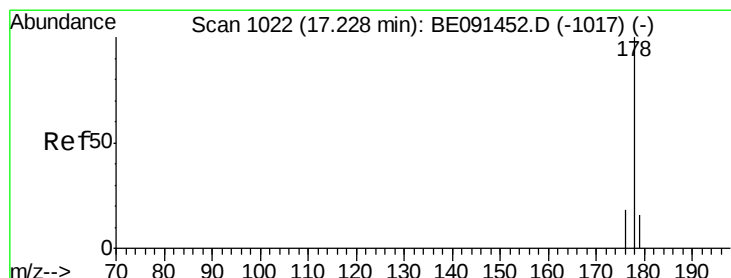
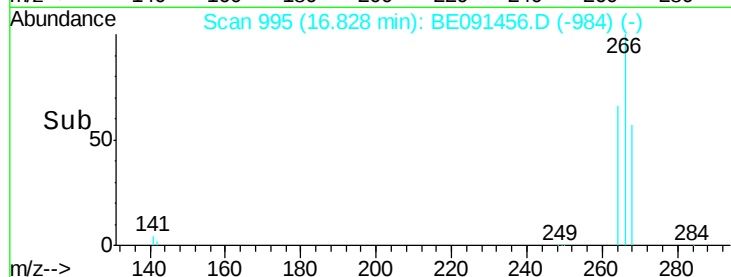
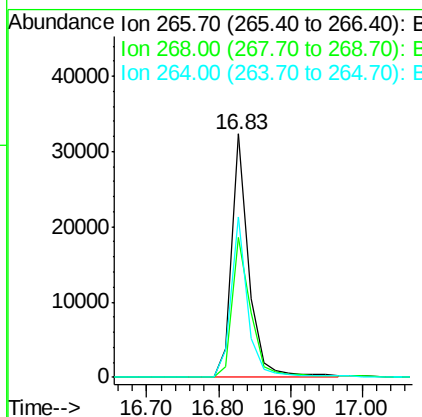
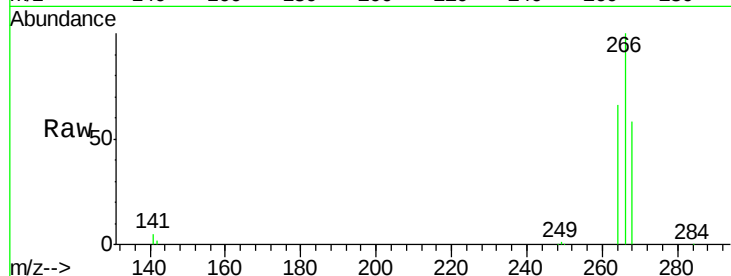




#15
 Pentachlorophenol
 Concen: 9.68 ng
 RT: 16.83 min Scan# 995
 Delta R.T. -0.02 min
 Lab File: BE091456.D
 Acq: 16 Mar 2016 23:06

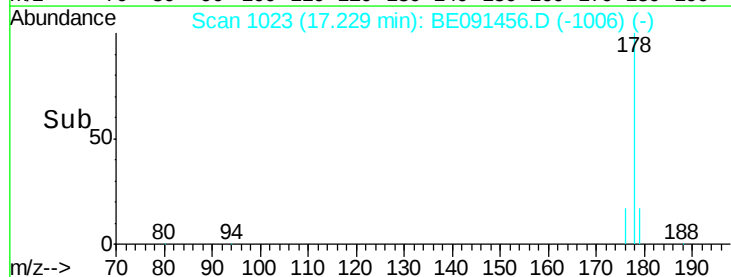
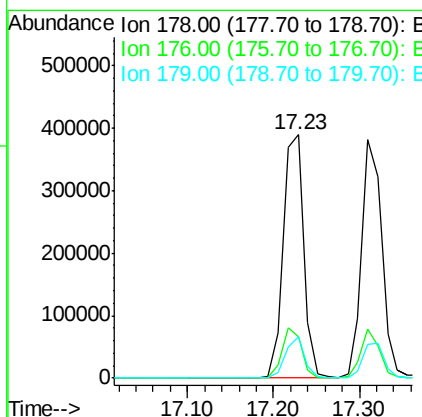
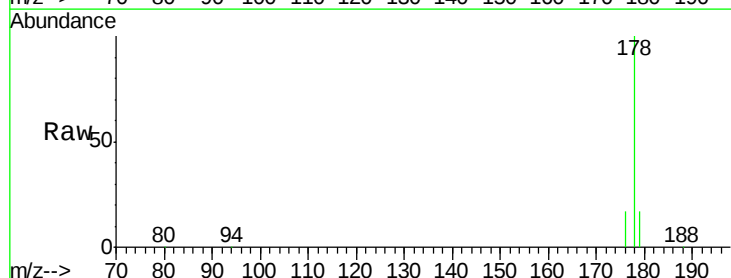
Instrument :
 BNA_E
 ClientSampleId :

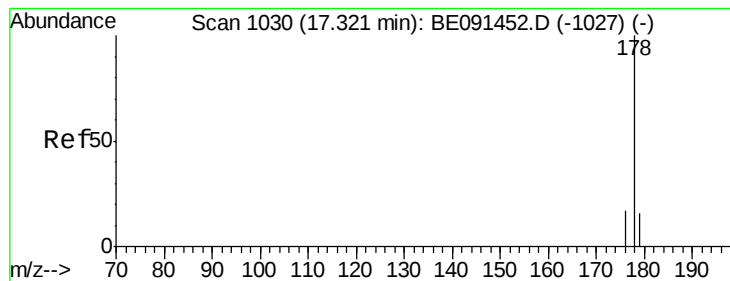
Tot Ion:266 Resp: 52166
 Ion Ratio Lower Upper
 266 100
 268 57.6 61.0 91.6#
 264 65.7 45.7 68.5



#16
 Phenanthrene
 Concen: 4.40 ng
 RT: 17.23 min Scan# 1023
 Delta R.T. 0.00 min
 Lab File: BE091456.D
 Acq: 16 Mar 2016 23:06

Tgt Ion:178 Resp: 646697
 Ion Ratio Lower Upper
 178 100
 176 19.6 0.0 0.0#
 179 15.4 0.0 0.0#





#17

Anthracene

Concen: 2.96 ng

RT: 17.31 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

Instrument :

BNA_E

ClientSampleId :

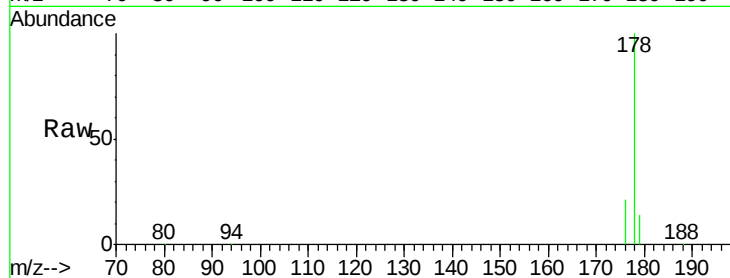
Tot Ion:178 Resp: 622233

Ion Ratio Lower Upper

178 100

176 19.0 0.0 0.0#

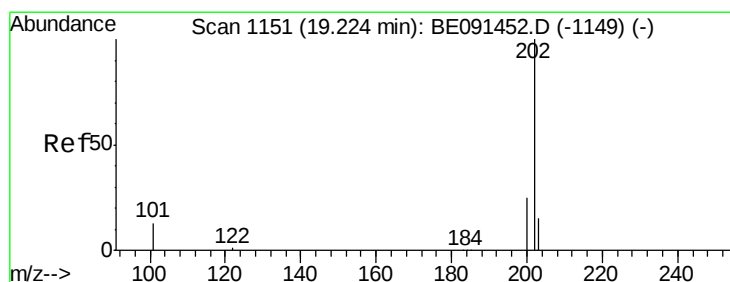
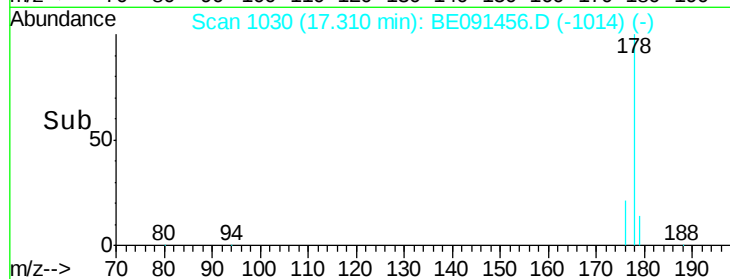
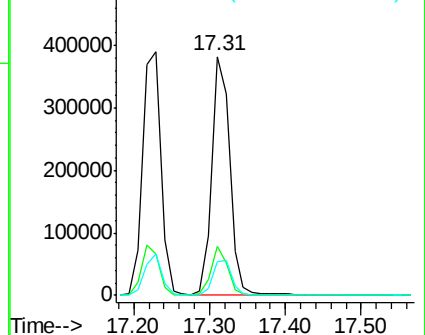
179 15.5 0.0 0.0#



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



#18

Fluoranthene

Concen: 3.63 ng

RT: 19.22 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

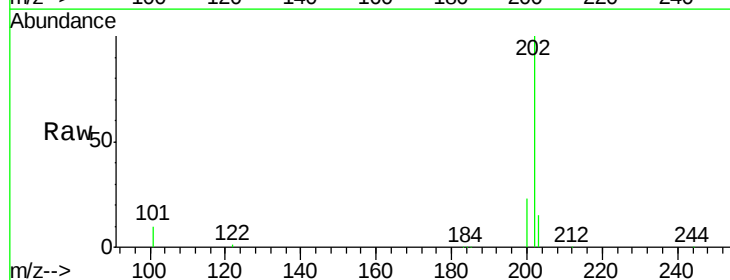
Tgt Ion:202 Resp: 775883

Ion Ratio Lower Upper

202 100

101 10.8 1.1 1.7#

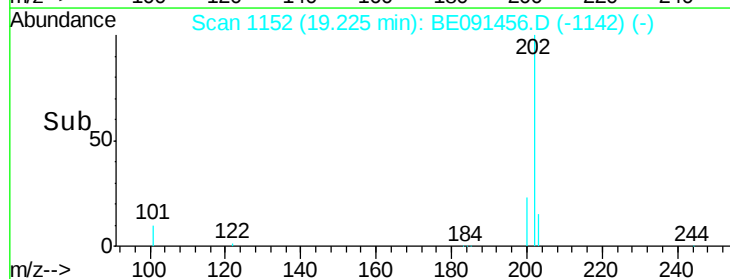
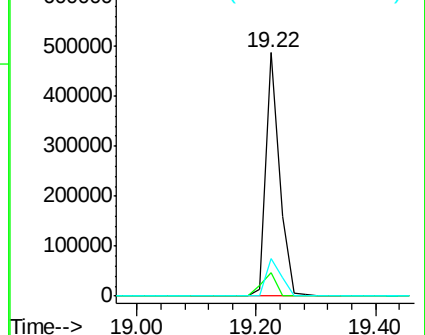
203 17.2 1.0 1.6#

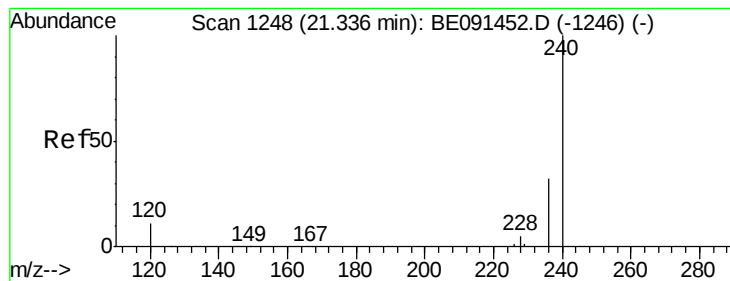


Abundance Ion 202.00 (201.70 to 202.70): E

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# 1249

Delta R.T. -0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

Instrument :

BNA_E

ClientSampleId :

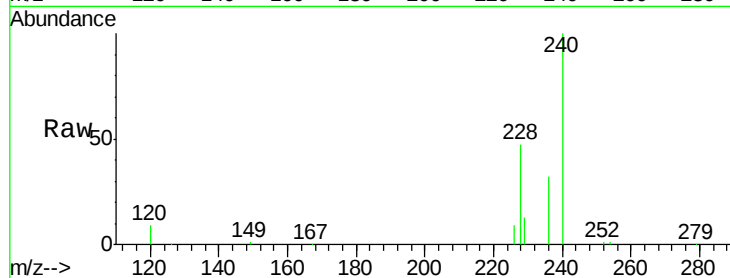
Tot Ion:240 Resp: 556898

Ion Ratio Lower Upper

240 100

120 9.1 8.8 13.2

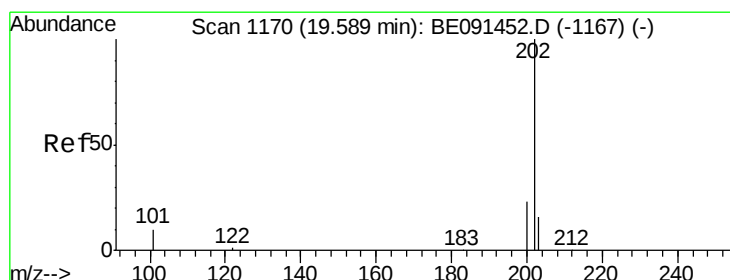
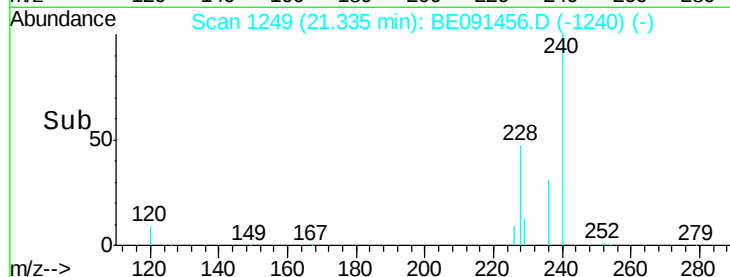
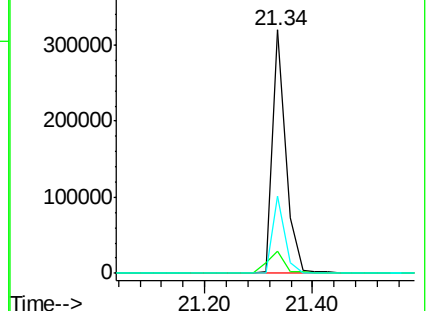
236 31.5 25.7 38.5



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 5.40 ng

RT: 19.59 min Scan# 1171

Delta R.T. 0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

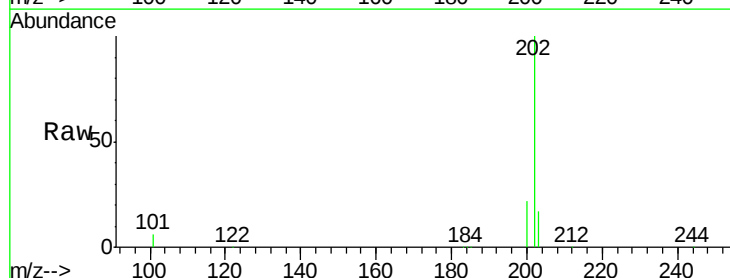
Tgt Ion:202 Resp: 849784

Ion Ratio Lower Upper

202 100

200 21.6 0.0 0.0#

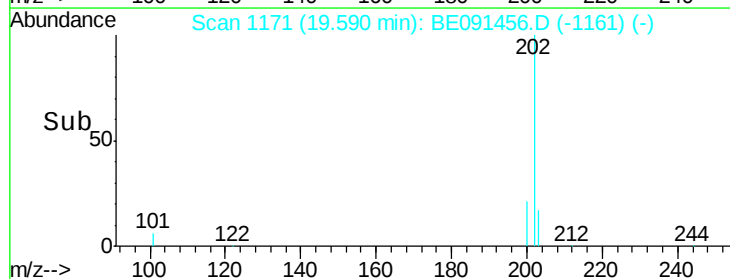
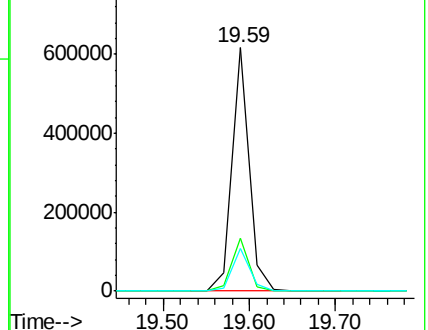
203 17.8 0.1 0.1#

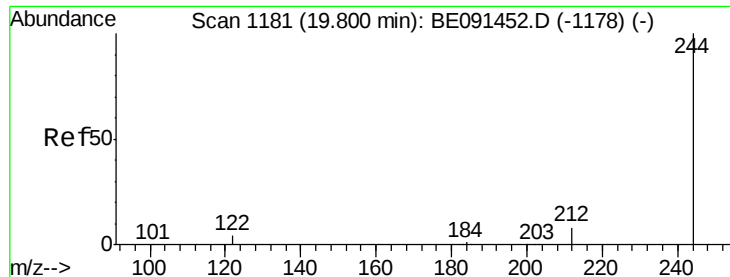


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 5.17 ng

RT: 19.80 min Scan# 1182

Delta R.T. 0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

Instrument :

BNA_E

ClientSampleId :

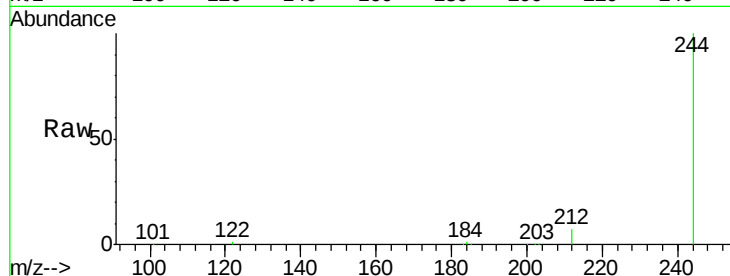
Tot Ion:244 Resp: 434259

Ion Ratio Lower Upper

244 100

212 7.4 6.6 10.0

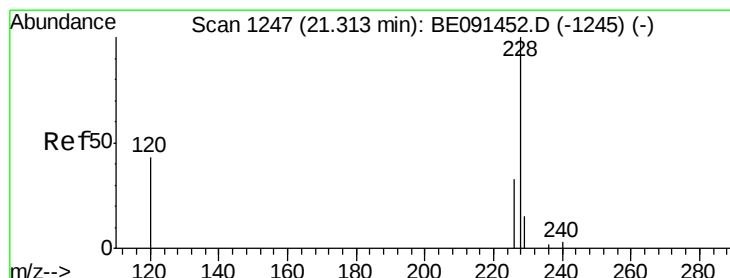
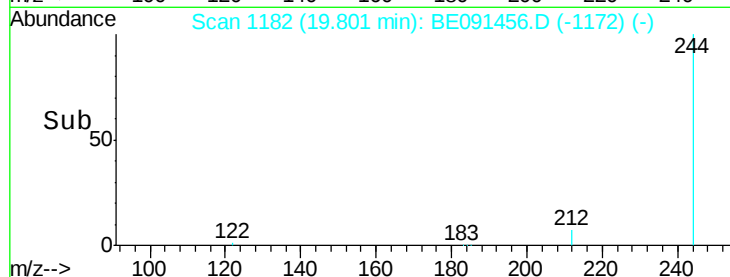
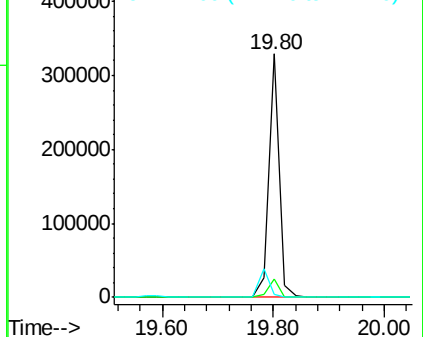
122 1.4 3.4 5.0#



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: 5.10 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

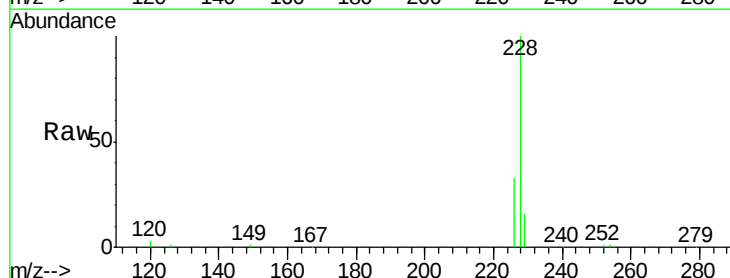
Tgt Ion:228 Resp: 982208

Ion Ratio Lower Upper

228 100

226 33.4 27.1 40.7

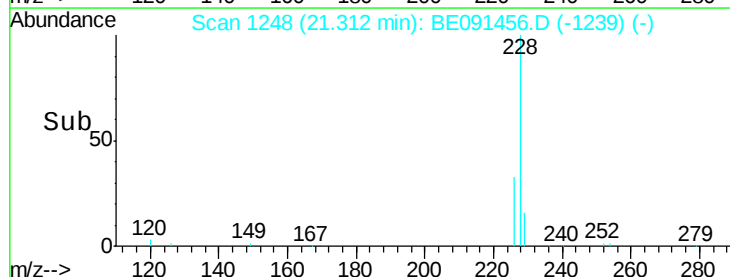
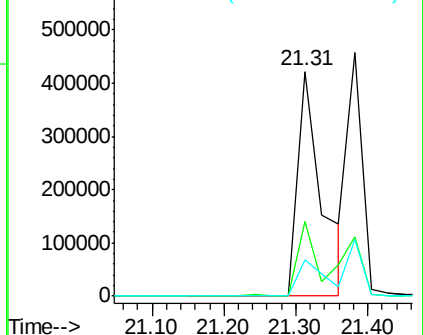
229 16.2 12.3 18.5

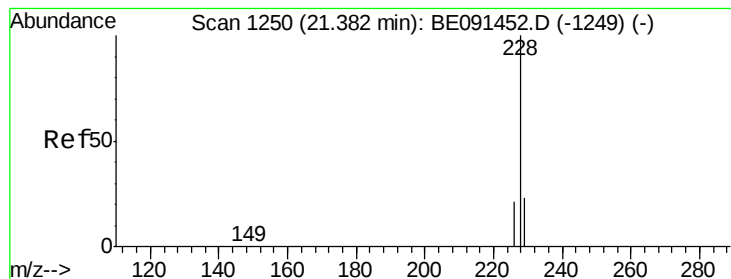


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 4.93 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.07 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

Instrument :

BNA_E

ClientSampleId :

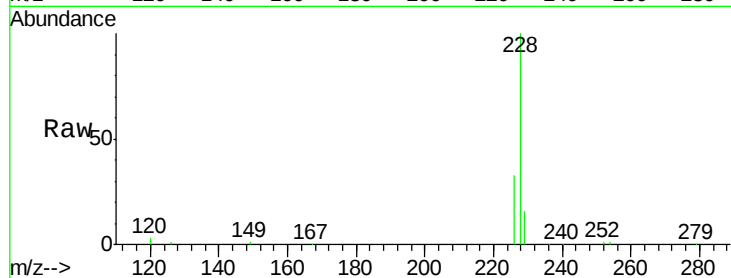
Tot Ion:228 Resp: 982099

Ion Ratio Lower Upper

228 100

226 33.4 20.3 30.5#

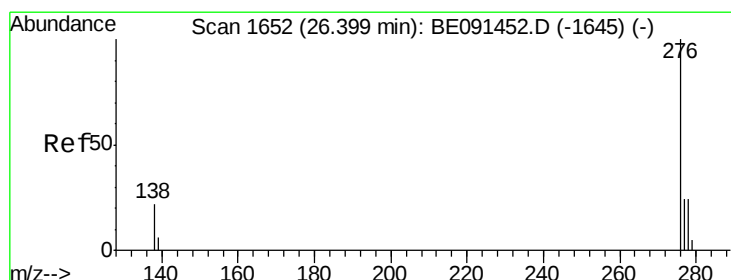
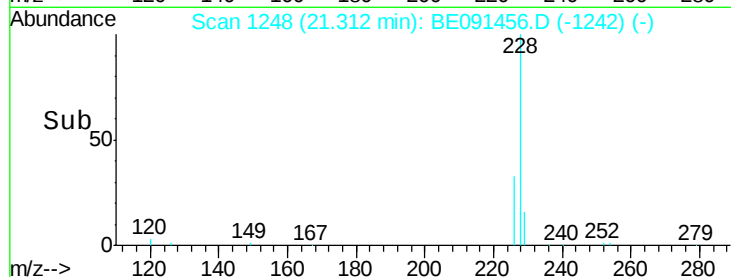
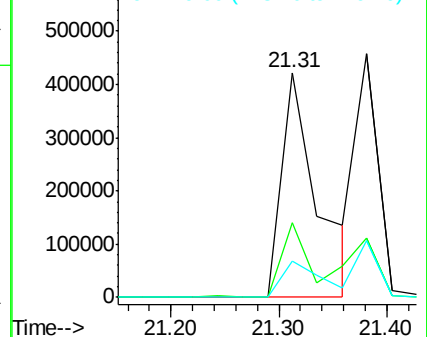
229 16.2 17.4 26.0#



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: 5.70 ng

RT: 26.40 min Scan# 1653

Delta R.T. -0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

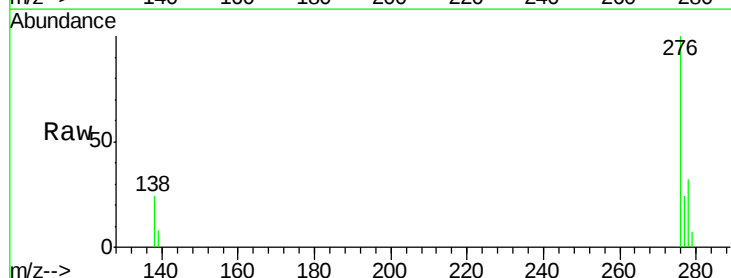
Tgt Ion:276 Resp: 971579

Ion Ratio Lower Upper

276 100

138 25.4 0.0 0.0#

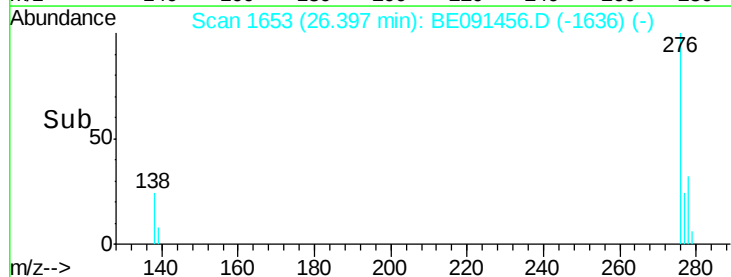
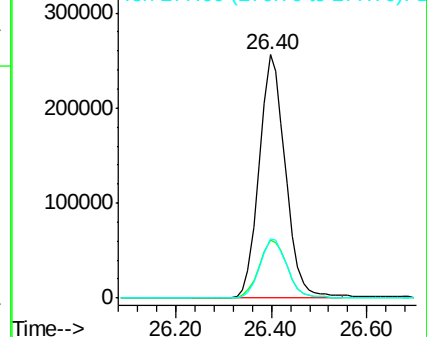
277 25.0 0.0 0.0#

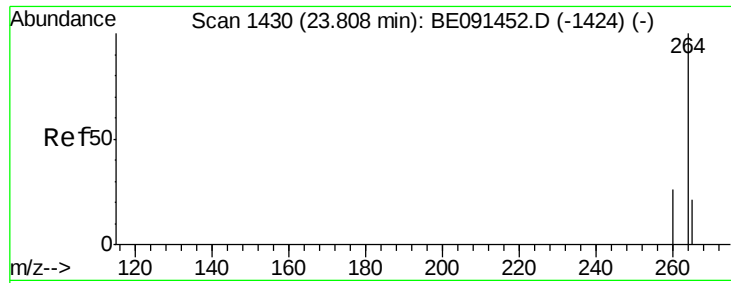


Abundance Ion 276.00 (275.70 to 276.70): E

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# 1431

Delta R.T. 0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

Instrument :

BNA_E

ClientSampleId :

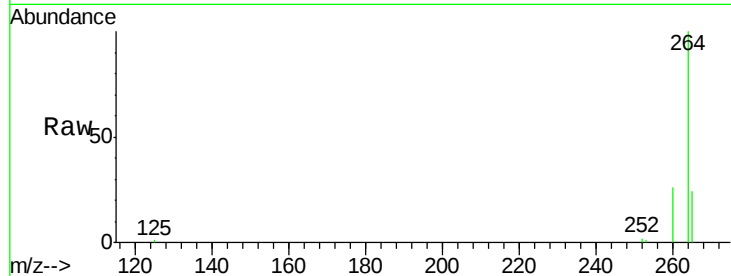
Tot Ion:264 Resp: 528821

Ion Ratio Lower Upper

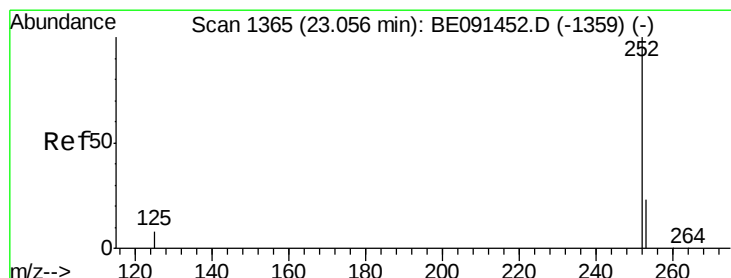
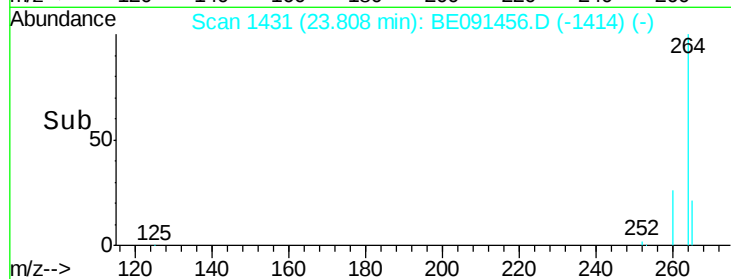
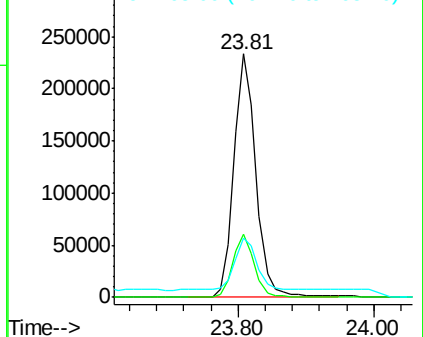
264 100

260 25.7 20.7 31.1

265 24.3 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: 5.55 ng

RT: 23.04 min Scan# 1365

Delta R.T. -0.01 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

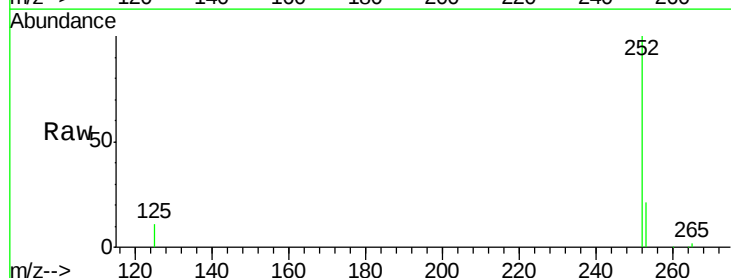
Tgt Ion:252 Resp: 856744

Ion Ratio Lower Upper

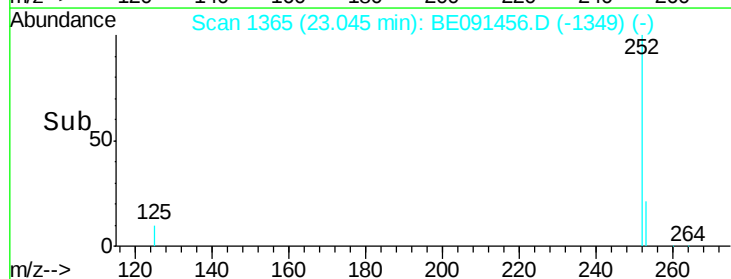
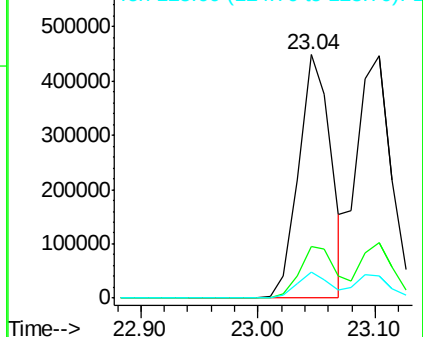
252 100

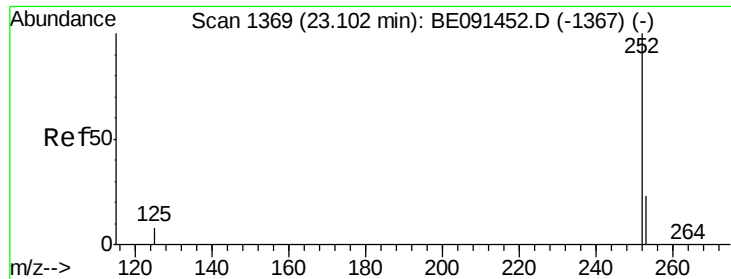
253 21.2 20.6 30.8

125 10.5 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

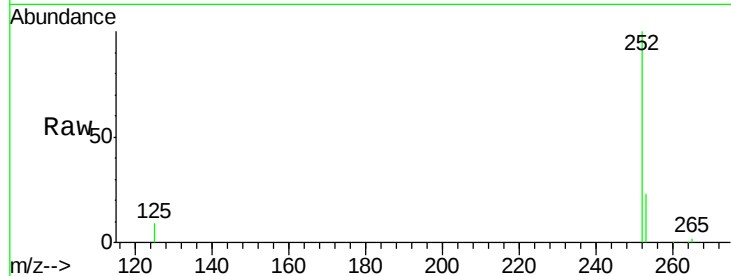




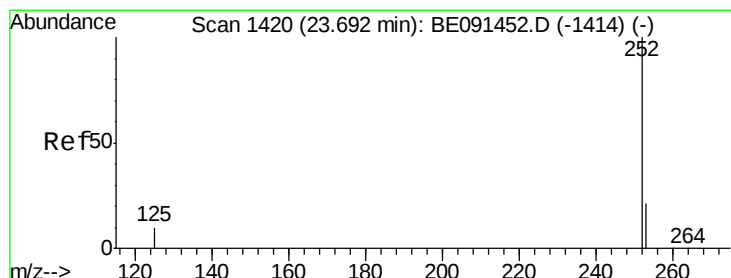
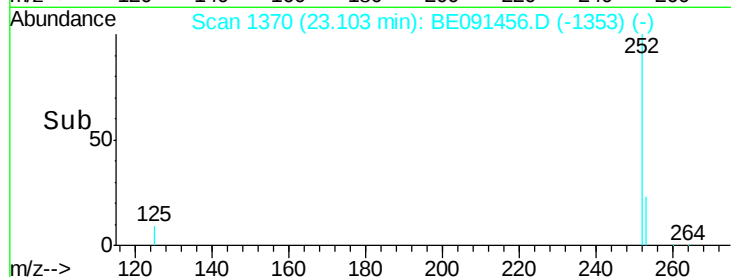
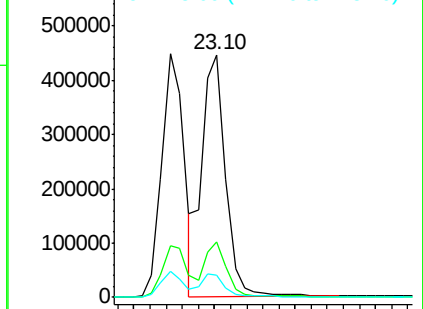
#27
Benzo(k)fluoranthene
Concen: 6.40 ng
RT: 23.10 min Scan# 1370
Delta R.T. 0.00 min
Lab File: BE091456.D
Acq: 16 Mar 2016 23:06

Instrument :
BNA_E
ClientSampleId :

Tot Ion:252 Resp: 913268
Ion Ratio Lower Upper
252 100
253 22.8 20.2 30.2
125 9.3 10.6 16.0#

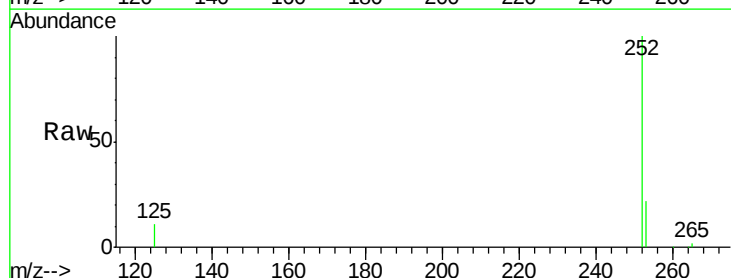


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

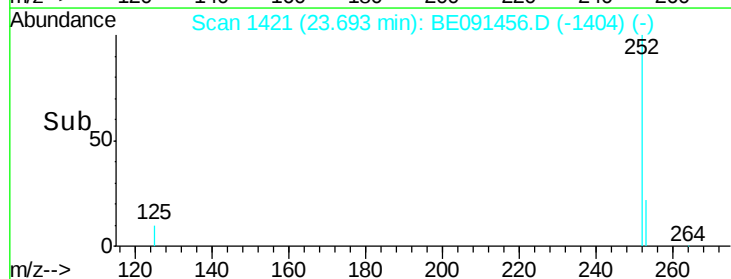
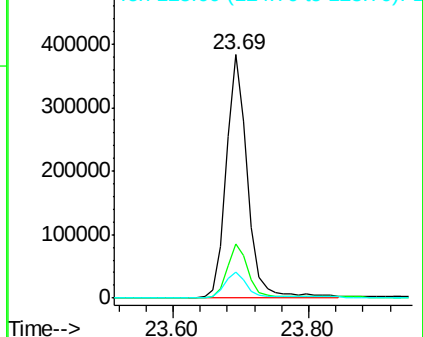


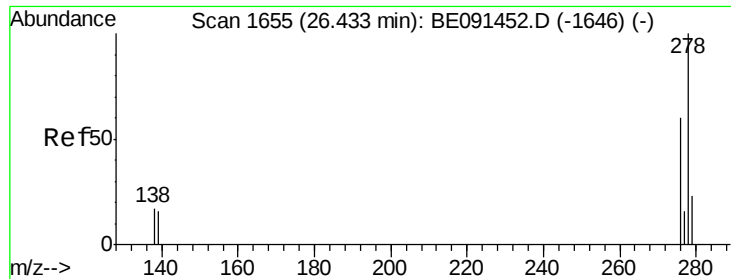
#28
Benzo(a)pyrene
Concen: 6.38 ng
RT: 23.69 min Scan# 1421
Delta R.T. 0.00 min
Lab File: BE091456.D
Acq: 16 Mar 2016 23:06

Tgt Ion:252 Resp: 831159
Ion Ratio Lower Upper
252 100
253 22.4 20.0 30.0
125 10.7 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: 6.54 ng

RT: 26.43 min Scan# 1656

Delta R.T. -0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

Instrument :

BNA_E

ClientSampleId :

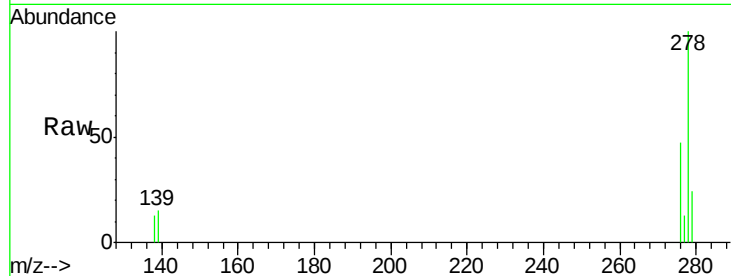
Tot Ion:278 Resp: 817755

Ion Ratio Lower Upper

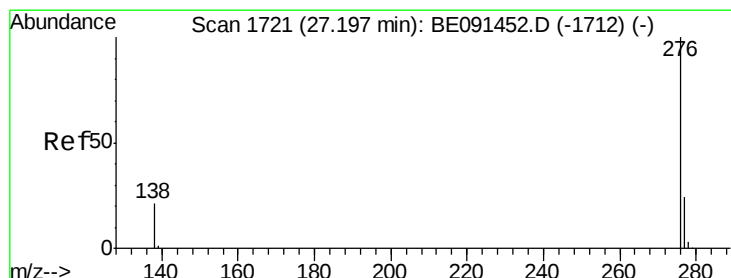
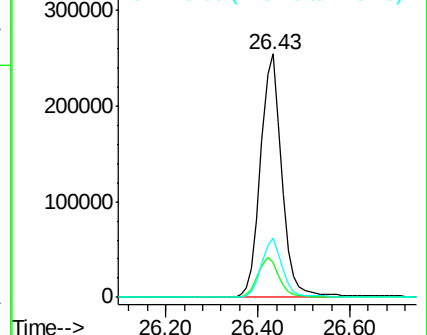
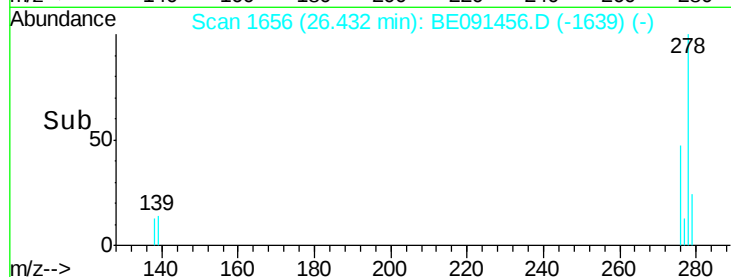
278 100

139 14.5 13.3 19.9

279 24.4 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: 6.13 ng

RT: 27.20 min Scan# 1722

Delta R.T. -0.00 min

Lab File: BE091456.D

Acq: 16 Mar 2016 23:06

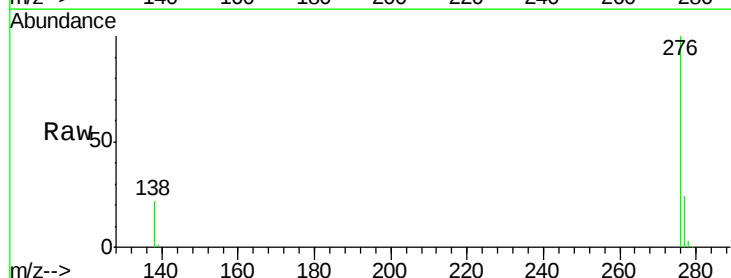
Tgt Ion:276 Resp: 820856

Ion Ratio Lower Upper

276 100

277 23.9 19.8 29.8

138 22.3 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

