

Data Path : Z:\HPCHEM1\BNA E\DATA\BE033116\
 Data File : BE091569.D
 Acq On : 30 Mar 2016 23:51
 Operator : UM/SJ
 Sample : H1953-04
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

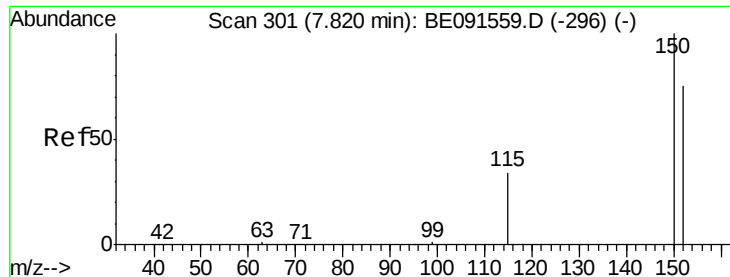
Quant Time: Mar 31 00:52:57 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE033016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 30 18:45:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	39588	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	181095	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	112176	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	286367	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	418543	5.00	ng	-0.02
28) Perylene-d12	23.76	264	348567	5.00	ng	-0.03

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	33155	3.20	ng	-0.01
5) Phenol-d6	6.97	99	28182	2.01	ng	-0.02
7) Nitrobenzene-d5	8.96	82	49293	4.06	ng	-0.02
11) 2,4,6-Tribromophenol	15.91	330	34753	6.99	ng	-0.01
12) 2-Fluorobiphenyl	13.05	172	131955	4.14	ng	-0.02
24) Terphenyl-d14	19.76	244	257713	4.85	ng	-0.02

Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.63	42	48	0.01	ng	# 1
8) Naphthalene	10.63	128	356	0.01	ng	# 44
9) 2-Methylnaphthalene	12.25	142	92	0.00	ng	# 57
13) Acenaphthylene	14.08	152	528	0.01	ng	# 60
14) Acenaphthene	14.42	154	441	0.02	ng	# 18
15) Fluorene	15.47	166	133	0.00	ng	# 90
17) Hexachlorobenzene	16.46	284	20	0.00	ng	# 39
18) Pentachlorophenol	16.76	266	377	0.06	ng	# 8
19) Phenanthrene	17.19	178	684	0.01	ng	# 76
20) Anthracene	17.29	178	73	0.00	ng	# 68
21) Fluoranthene	19.21	202	292	0.00	ng	# 72
23) Pyrene	19.57	202	217	0.00	ng	# 25
25) Benzo(a)anthracene	21.31	228	1404	0.01	ng	# 64
26) Chrysene	21.31	228	1431	0.02	ng	# 75
27) Indeno(1,2,3-cd)pyrene	26.32	276	150	0.00	ng	# 1
29) Benzo(b)fluoranthene	23.01	252	317	0.00	ng	# 1
30) Benzo(k)fluoranthene	23.06	252	174	0.00	ng	# 1
31) Benzo(a)pyrene	23.66	252	88	0.00	ng	# 1
32) Dibenzo(a,h)anthracene	26.34	278	110	0.00	ng	# 1
33) Benzo(a,h,i)perylene	27.12	276	146	0.00	ng	# 1

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

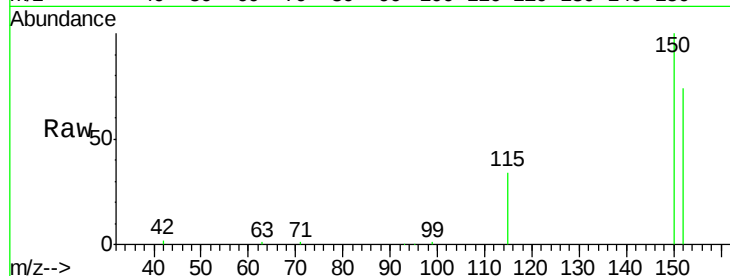


#1

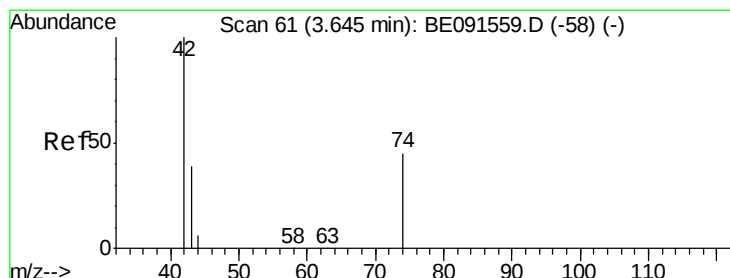
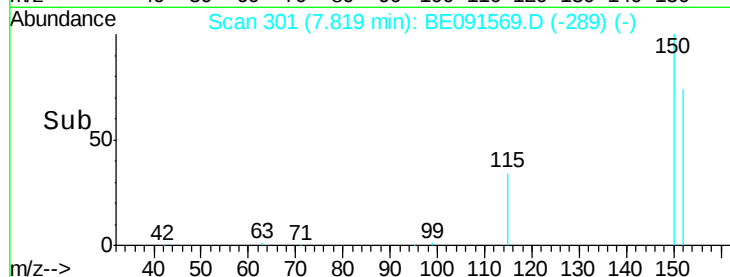
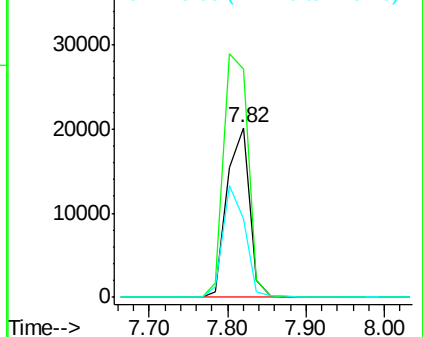
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.82 min Scan# 301
Delta R.T. 0.00 min
Lab File: BE091569.D
Acq: 30 Mar 2016 23:51

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 39588
Ion Ratio Lower Upper
152 100
150 134.7 122.2 183.2
115 46.0 45.9 68.9



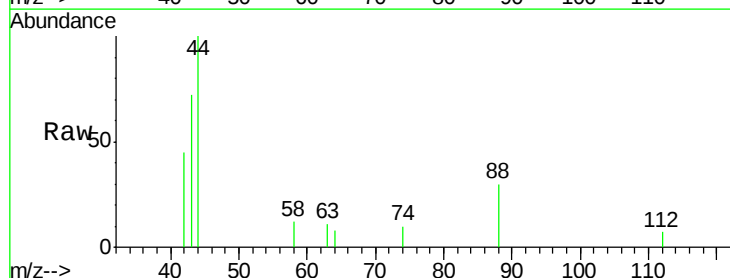
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



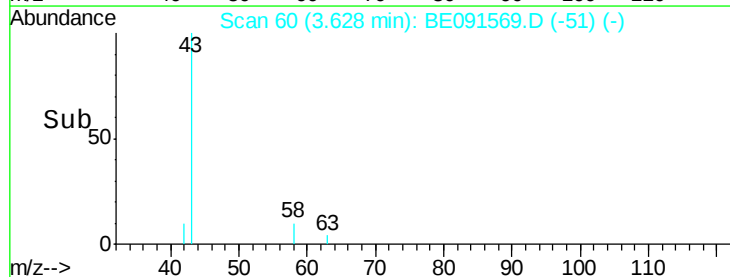
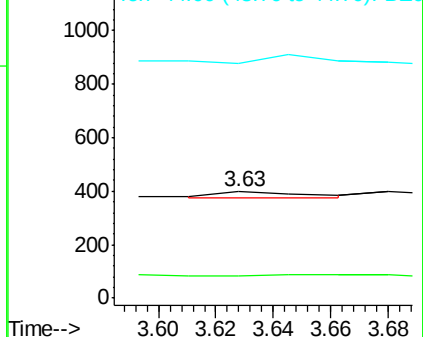
#3

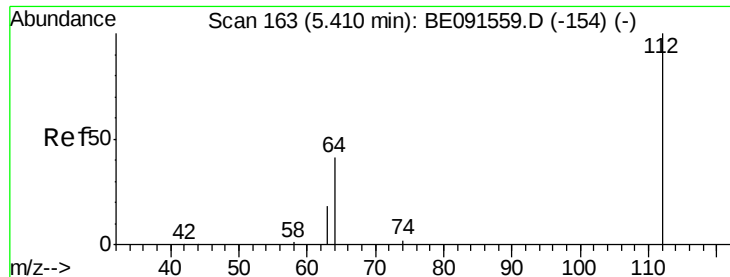
n-Nitrosodimethylamine
Concen: 0.01 ng
RT: 3.63 min Scan# 60
Delta R.T. -0.05 min
Lab File: BE091569.D
Acq: 30 Mar 2016 23:51

Tgt Ion: 42 Resp: 48
Ion Ratio Lower Upper
42 100
74 0.0 84.3 126.5#
44 158.3 6.7 10.1#



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





#4

2-Fluorophenol

Concen: 3.20 ng

RT: 5.41 min Scan# 163

Delta R.T. -0.01 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

Instrument :

BNA_E

ClientSampled :

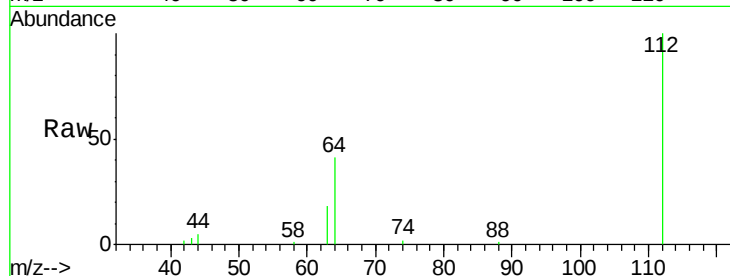
Tot Ion:112 Resp: 33155

Ion Ratio Lower Upper

112 100

64 68.4 53.3 79.9

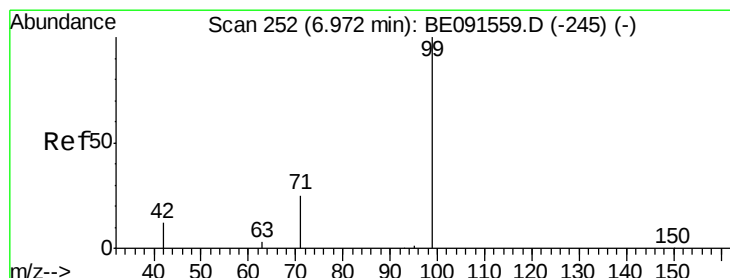
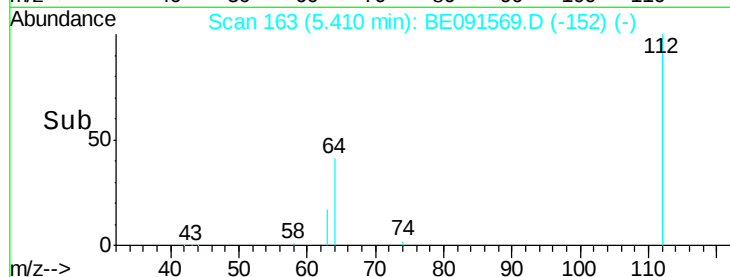
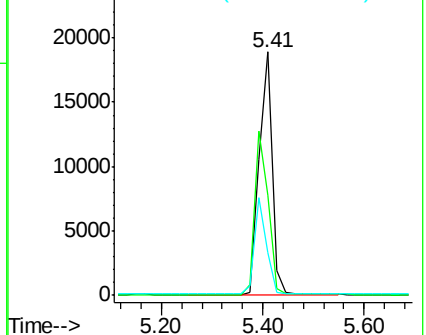
63 37.0 29.8 44.8



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 2.01 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

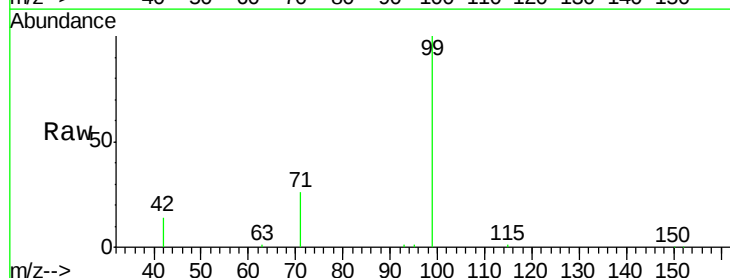
Tgt Ion: 99 Resp: 28182

Ion Ratio Lower Upper

99 100

42 24.7 20.6 30.8

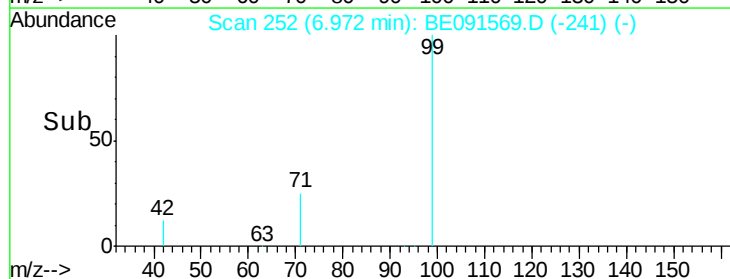
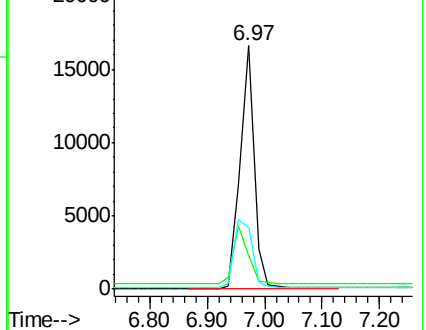
71 35.8 29.0 43.4

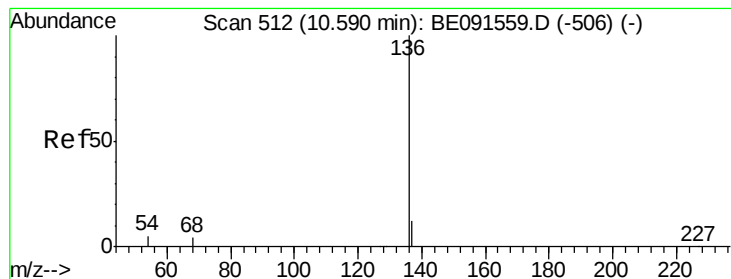


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE091569.D

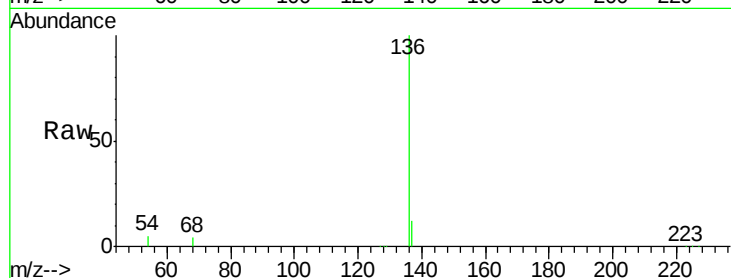
Acq: 30 Mar 2016 23:51

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136	Resp:	181095
Ion Ratio	Lower	Upper
136 100		
137 11.8	8.8	13.2
54 4.5	5.2	7.8#
68 3.8	4.1	6.1#

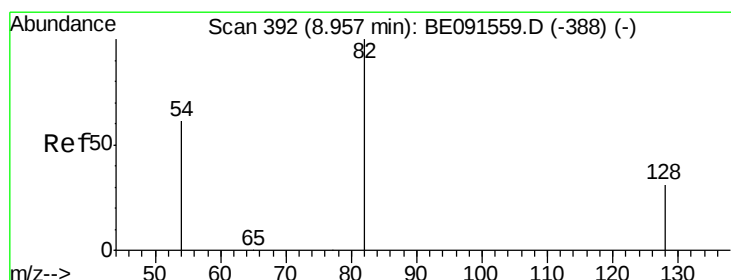
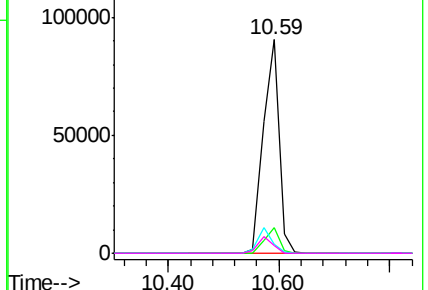
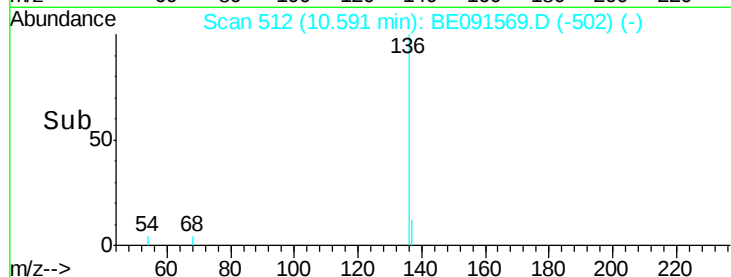


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#7

Nitrobenzene-d5

Concen: 4.06 ng

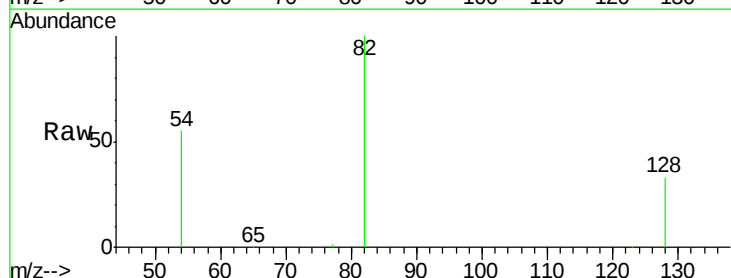
RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

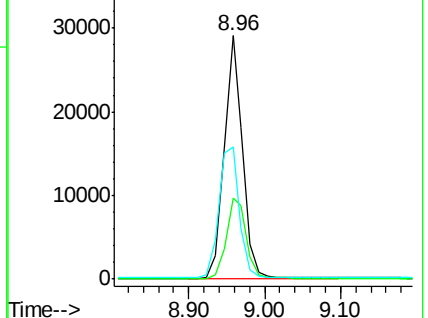
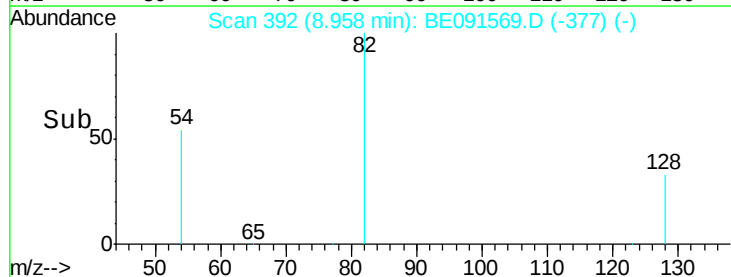
Tgt Ion: 82	Resp:	49293
Ion Ratio	Lower	Upper
82 100		
128 33.4	23.5	35.3
54 54.6	52.4	78.6

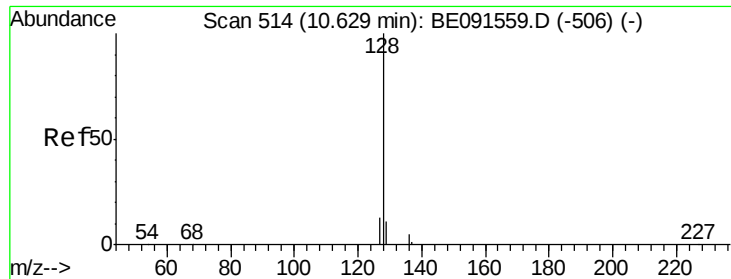


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Naphthalene

Concen: 0.01 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

Instrument :

BNA_E

ClientSampleId :

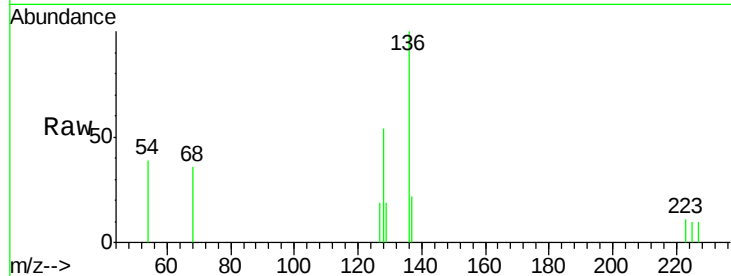
Tot Ion:128 Resp: 356

Ion Ratio Lower Upper

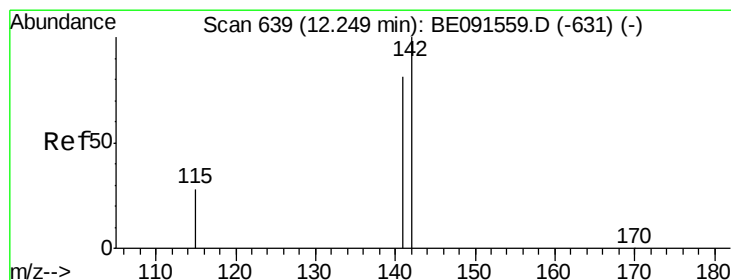
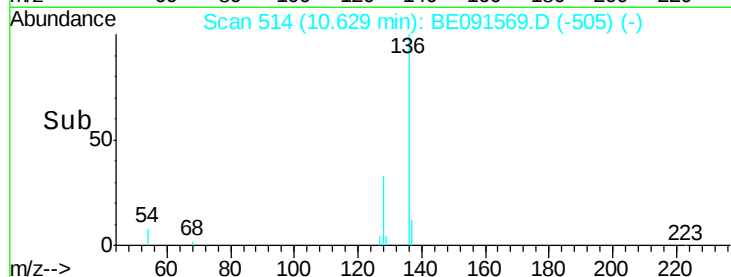
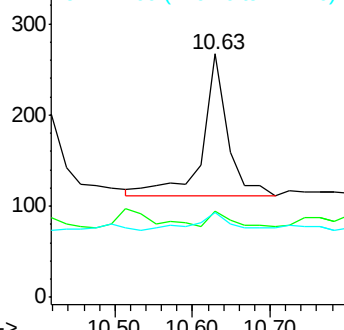
128 100

129 35.6 8.2 12.2#

127 34.8 11.8 17.8#



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#9

2-Methylnaphthalene

Concen: 0.00 ng

RT: 12.25 min Scan# 639

Delta R.T. -0.01 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

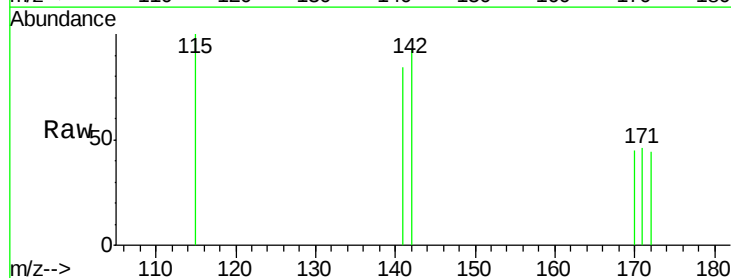
Tgt Ion:142 Resp: 92

Ion Ratio Lower Upper

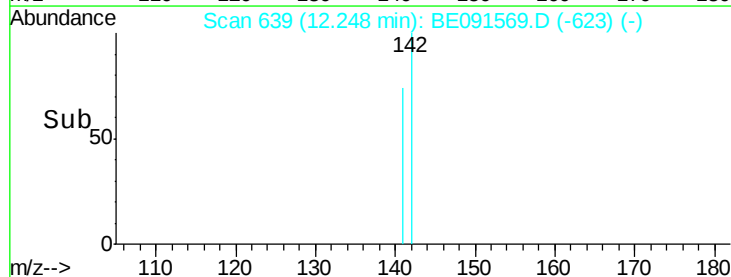
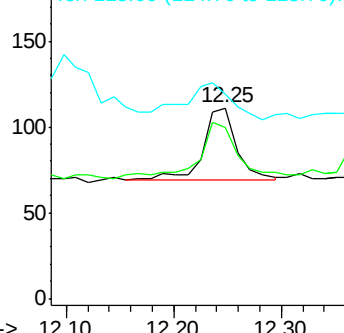
142 100

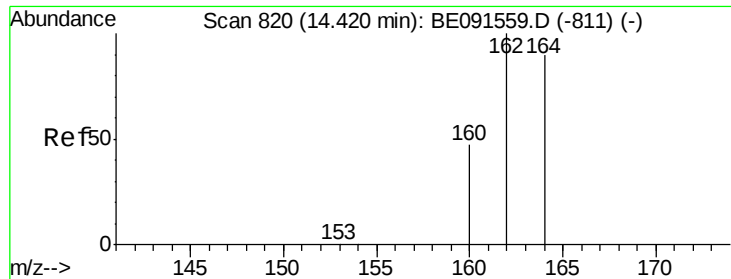
141 90.1 66.9 100.3

115 107.2 25.1 37.7#



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.42 min Scan# 820

Delta R.T. -0.03 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

Instrument :

BNA_E

ClientSampleId :

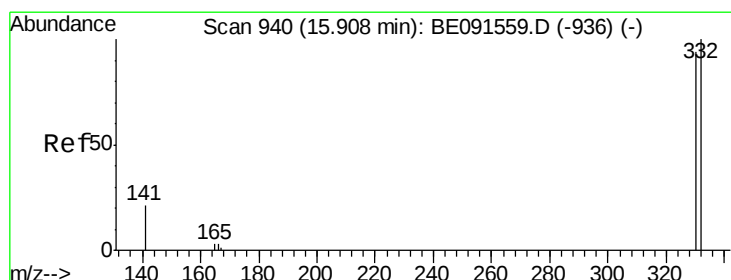
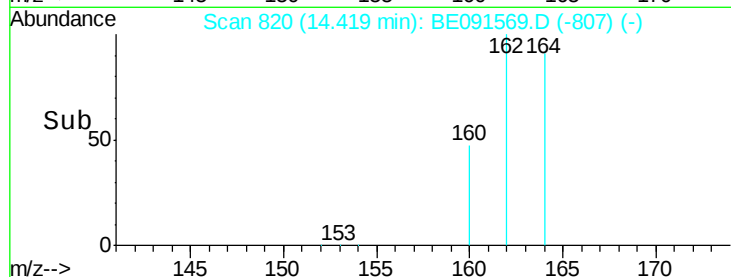
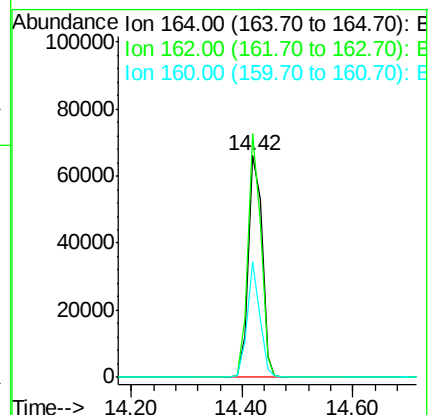
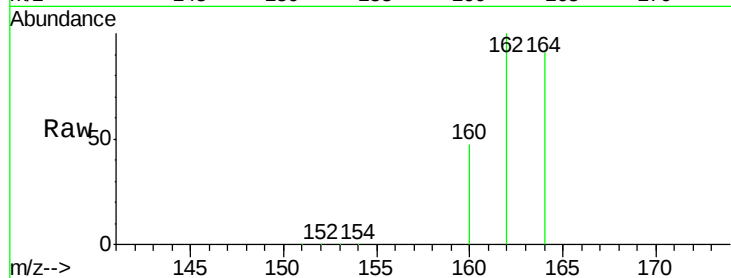
Tot Ion:164 Resp: 112176

Ion Ratio Lower Upper

164 100

162 110.0 84.4 126.6

160 52.2 37.7 56.5



#11

2,4,6-Tribromophenol

Concen: 6.99 ng

RT: 15.91 min Scan# 940

Delta R.T. -0.01 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

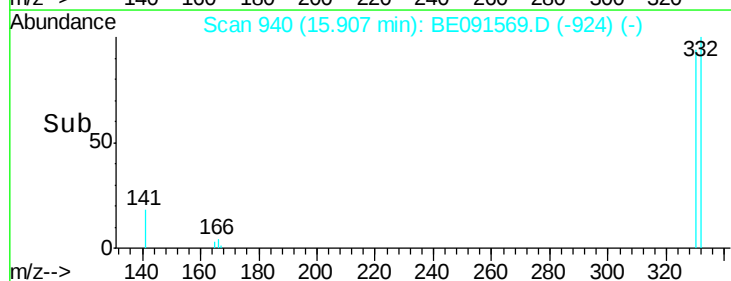
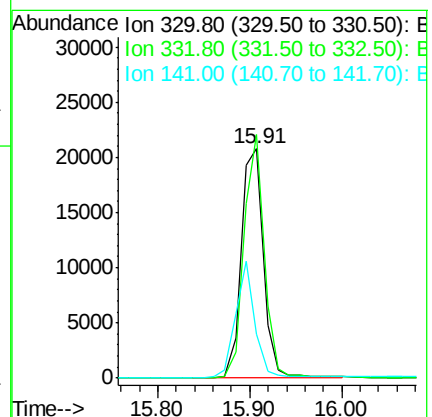
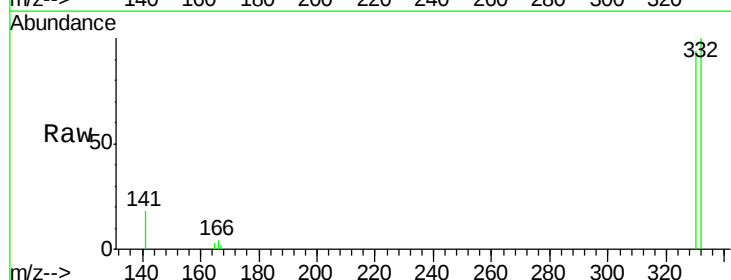
Tgt Ion:330 Resp: 34753

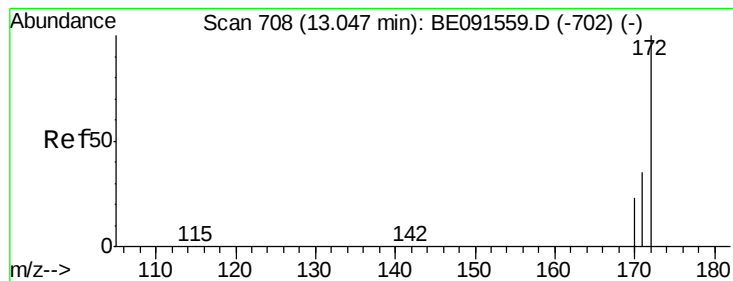
Ion Ratio Lower Upper

330 100

332 96.4 79.2 118.8

141 43.3 28.1 42.1#

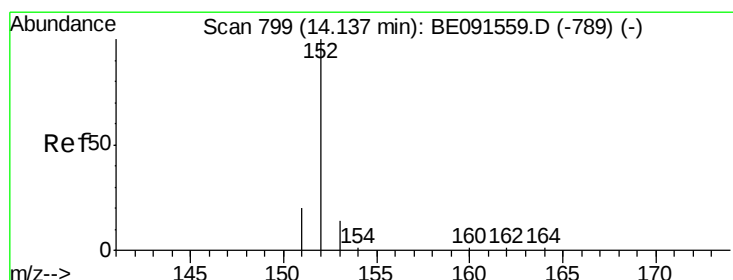
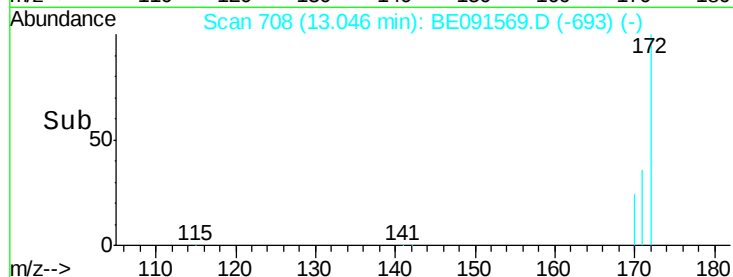
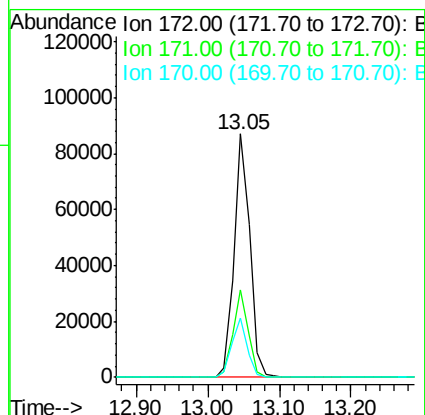
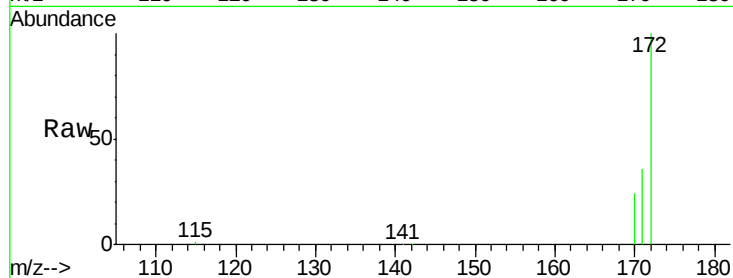




#12
2-Fluorobiphenyl
Concen: 4.14 ng
RT: 13.05 min Scan# 708
Delta R.T. -0.02 min
Lab File: BE091569.D
Acq: 30 Mar 2016 23:51

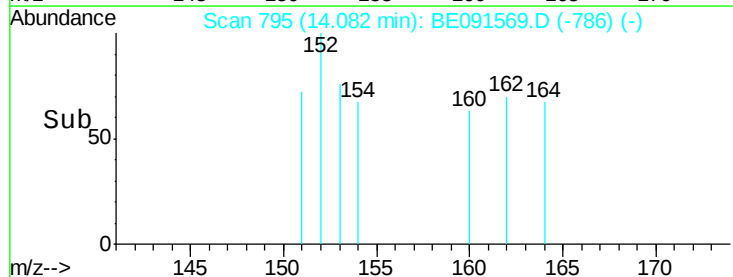
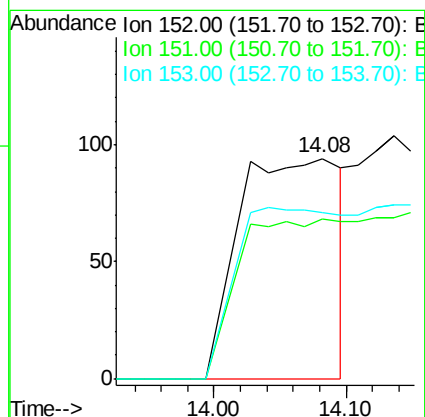
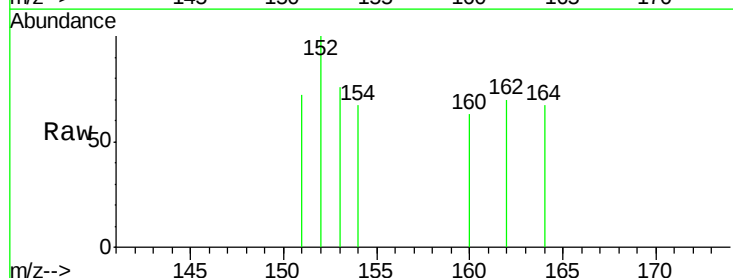
Instrument :
BNA_E
ClientSampleId :

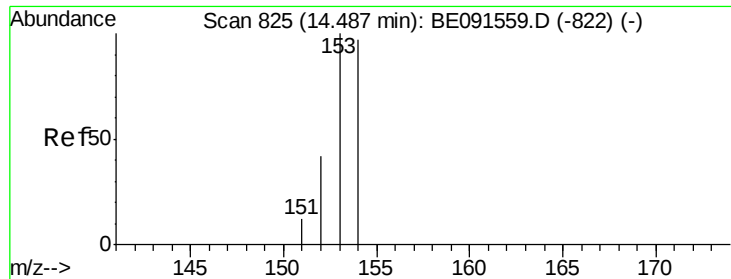
Tot Ion:172 Resp: 131955
Ion Ratio Lower Upper
172 100
171 35.8 29.8 44.8
170 24.3 21.4 32.2



#13
Acenaphthylene
Concen: 0.01 ng
RT: 14.08 min Scan# 795
Delta R.T. -0.07 min
Lab File: BE091569.D
Acq: 30 Mar 2016 23:51

Tgt Ion:152 Resp: 528
Ion Ratio Lower Upper
152 100
151 0.0 16.3 24.5#
153 0.0 11.1 16.7#





#14

Acenaphthene

Concen: 0.02 ng

RT: 14.42 min Scan# 820

Delta R.T. -0.08 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

Instrument :

BNA_E

ClientSampled :

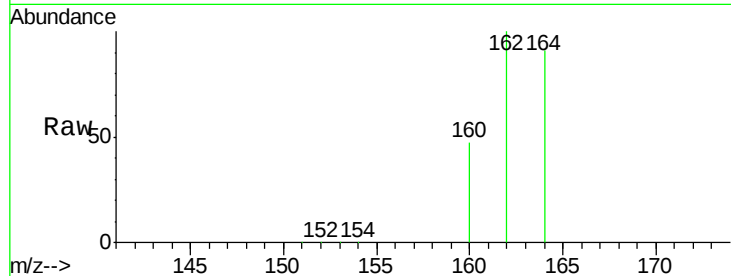
Tot Ion:154 Resp: 441

Ion Ratio Lower Upper

154 100

153 11.1 87.3 130.9#

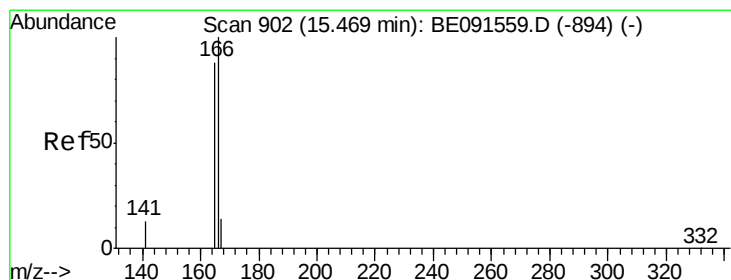
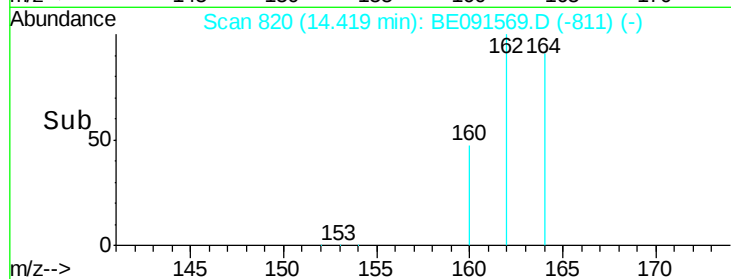
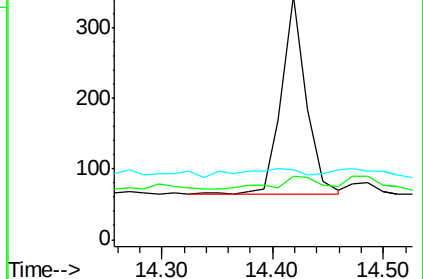
152 11.3 42.9 64.3#



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



#15

Fluorene

Concen: 0.00 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

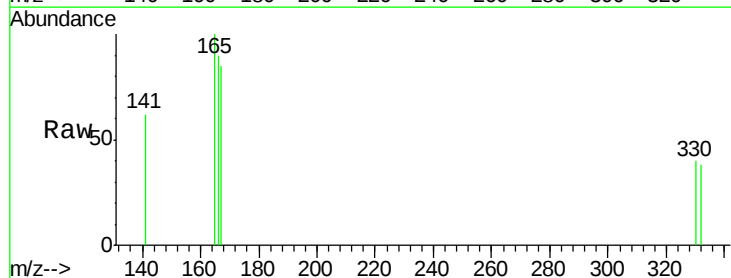
Tgt Ion:166 Resp: 133

Ion Ratio Lower Upper

166 100

165 92.5 79.2 118.8

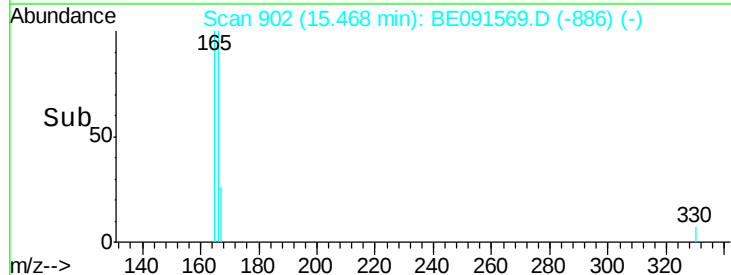
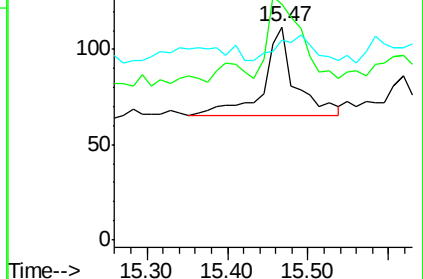
167 0.0 10.8 16.2#

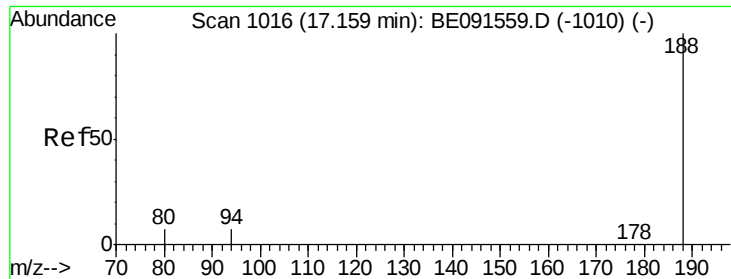


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

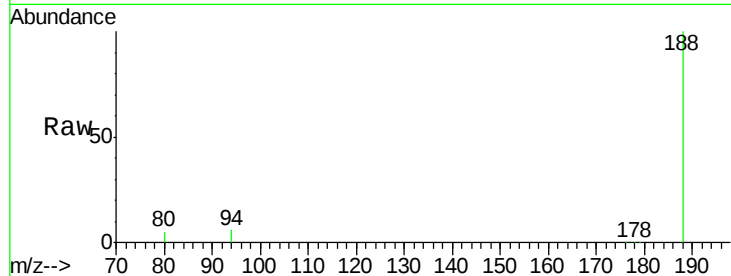




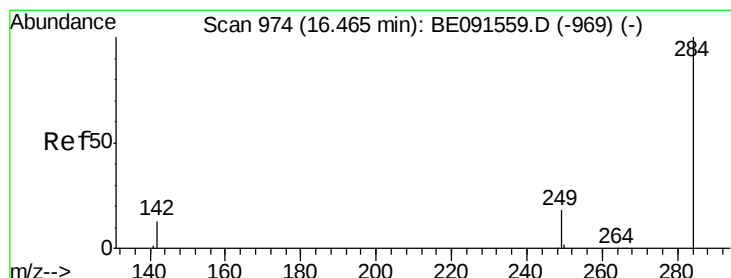
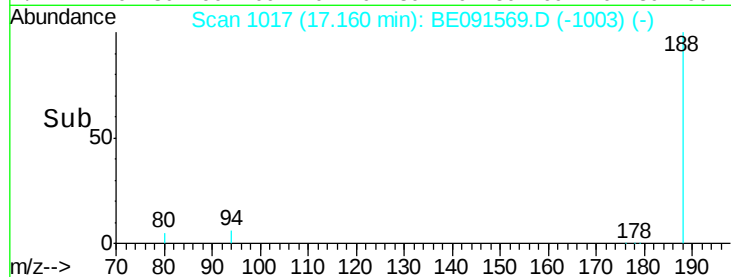
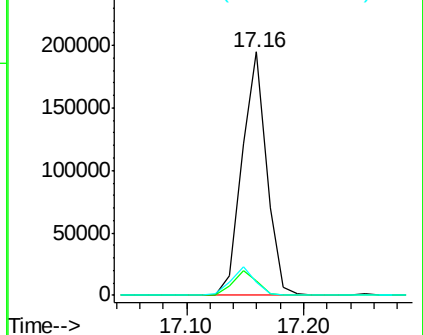
#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.16 min Scan# 1017
Delta R.T. -0.01 min
Lab File: BE091569.D
Acq: 30 Mar 2016 23:51

Instrument :
BNA_E
ClientSampled :

Tot Ion:188 Resp: 286367
Ion Ratio Lower Upper
188 100
94 6.1 5.4 8.2
80 5.4 5.0 7.4

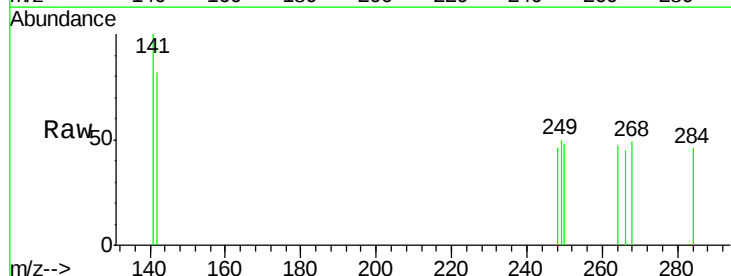


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

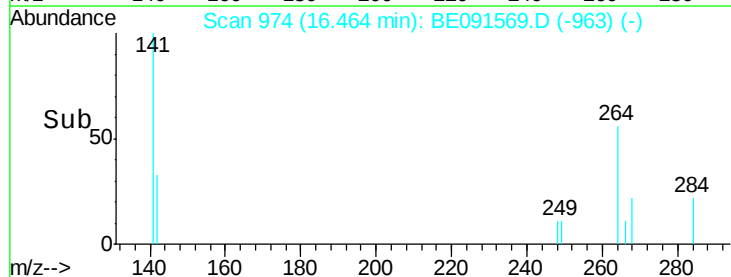
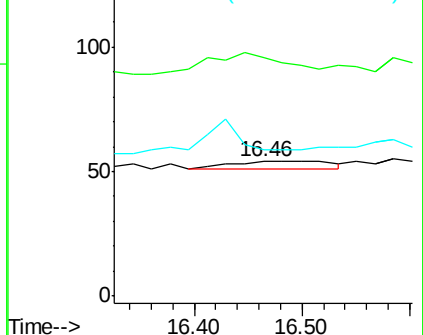


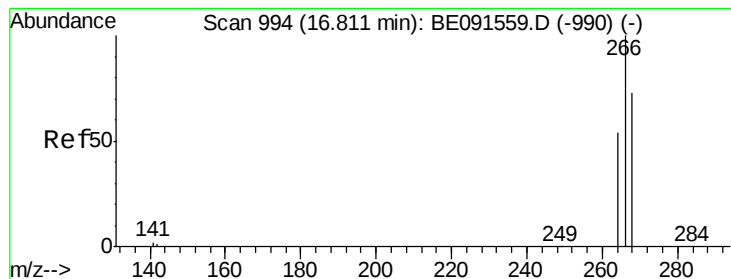
#17
Hexachlorobenzene
Concen: 0.00 ng
RT: 16.46 min Scan# 974
Delta R.T. -0.02 min
Lab File: BE091569.D
Acq: 30 Mar 2016 23:51

Tgt Ion:284 Resp: 20
Ion Ratio Lower Upper
284 100
142 0.0 31.0 46.4#
249 0.0 25.8 38.8#



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





#18

Pentachlorophenol

Concen: 0.06 ng

RT: 16.76 min Scan# 991

Delta R.T. -0.07 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

Instrument :

BNA_E

ClientSampleId :

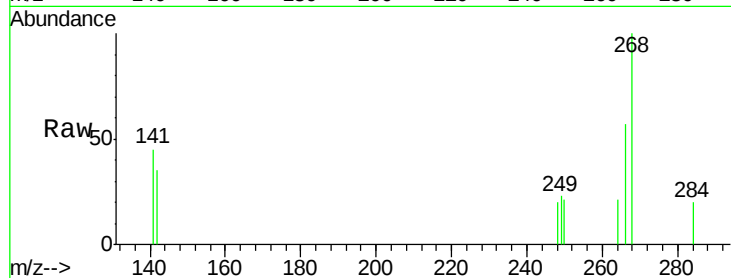
Tot Ion:266 Resp: 377

Ion Ratio Lower Upper

266 100

268 175.8 48.2 72.2#

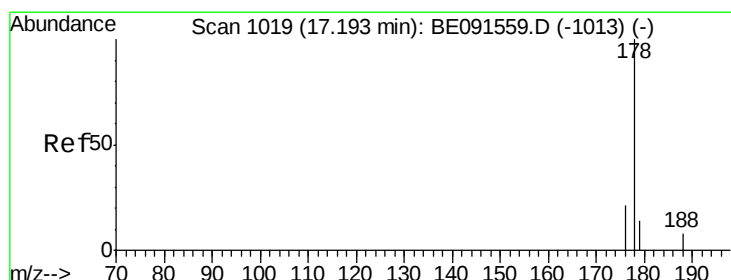
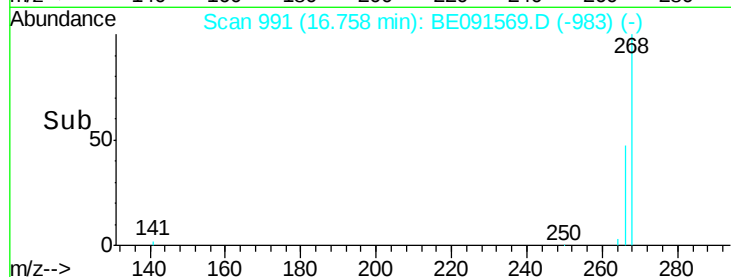
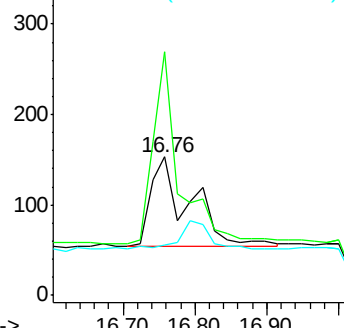
264 36.6 52.1 78.1#



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



#19

Phenanthrene

Concen: 0.01 ng

RT: 17.19 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

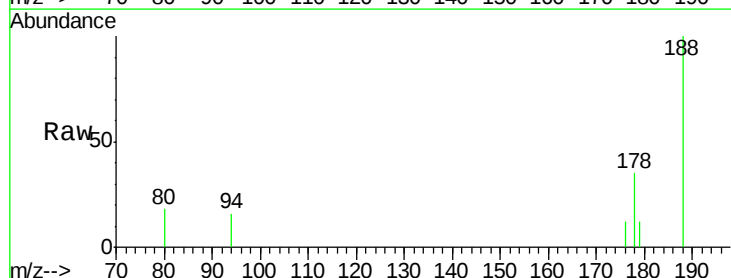
Tgt Ion:178 Resp: 684

Ion Ratio Lower Upper

178 100

176 14.2 15.5 23.3#

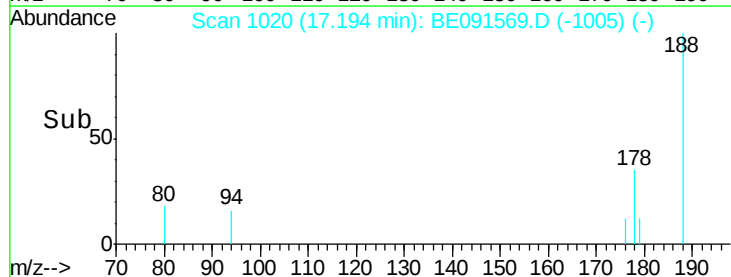
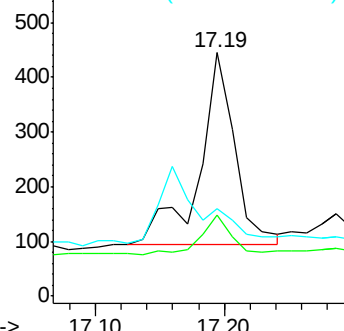
179 0.0 13.1 19.7#

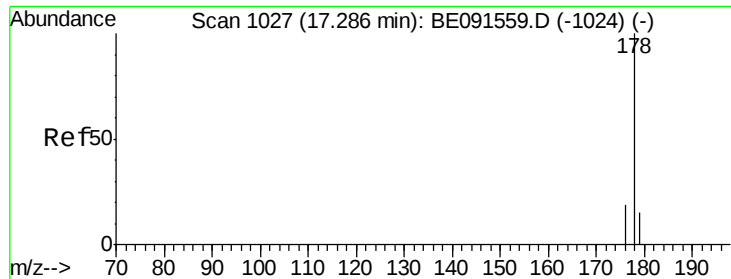


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#20

Anthracene

Concen: 0.00 ng

RT: 17.29 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

Instrument :

BNA_E

ClientSampleId :

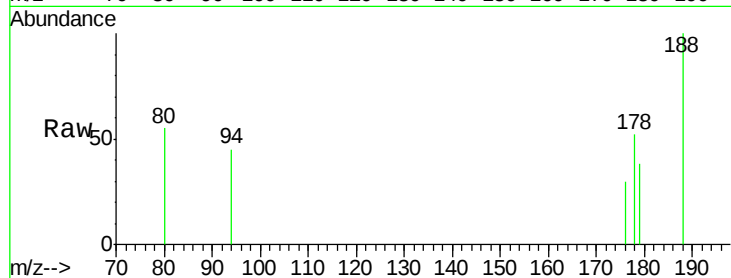
Tot Ion:178 Resp: 73

Ion Ratio Lower Upper

178 100

176 31.5 14.9 22.3#

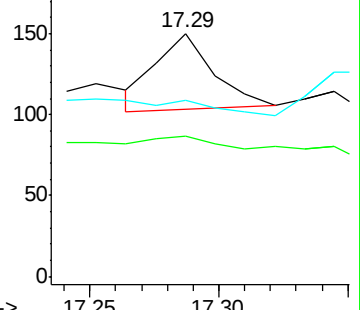
179 0.0 12.2 18.4#



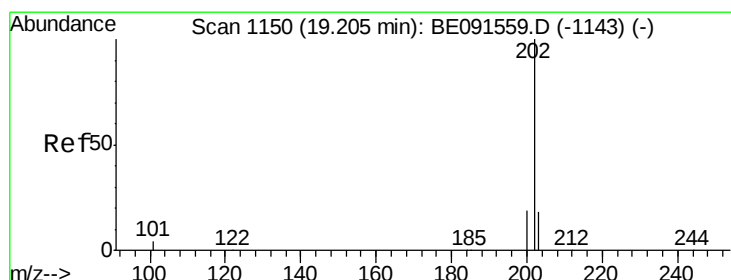
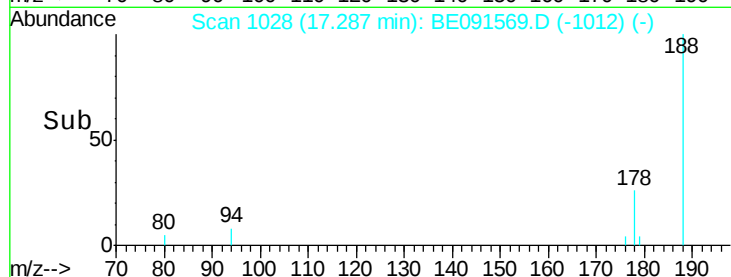
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#21

Fluoranthene

Concen: 0.00 ng

RT: 19.21 min Scan# 1151

Delta R.T. -0.02 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

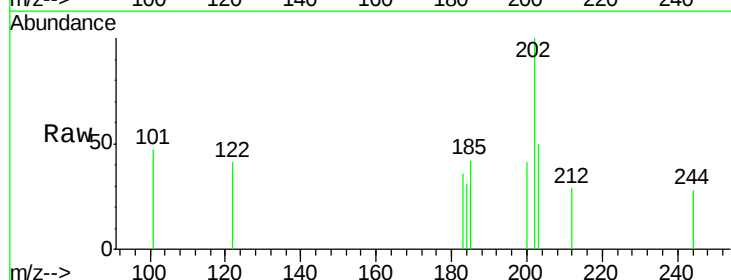
Tgt Ion:202 Resp: 292

Ion Ratio Lower Upper

202 100

101 19.2 8.3 12.5#

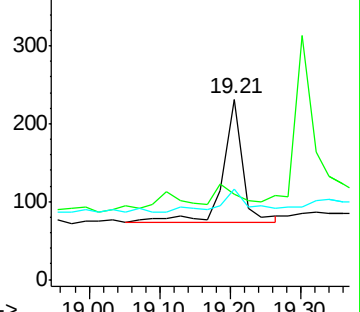
203 30.5 13.9 20.9#



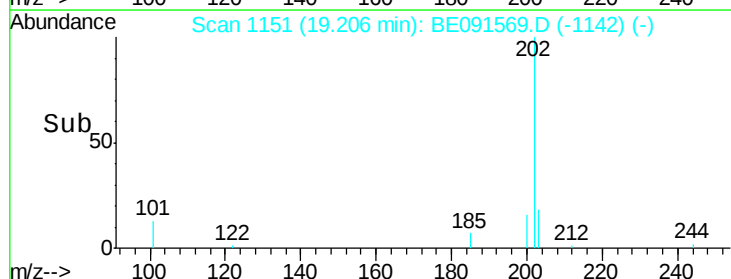
Abundance Ion 202.00 (201.70 to 202.70): E

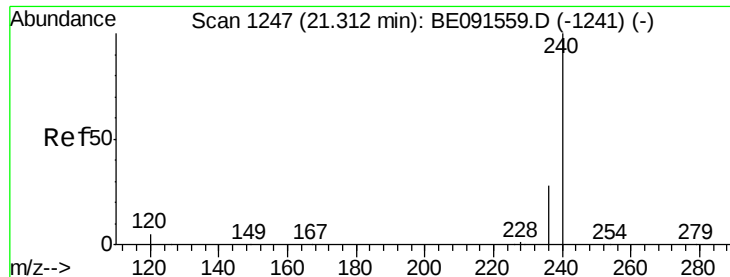
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->

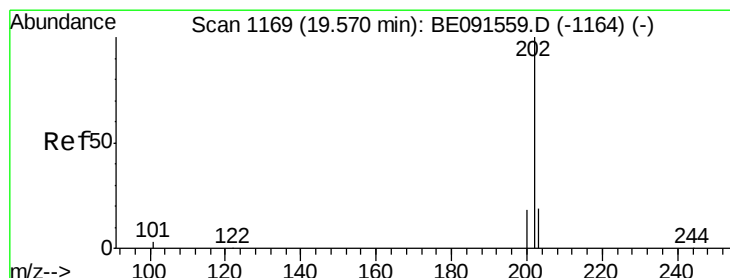
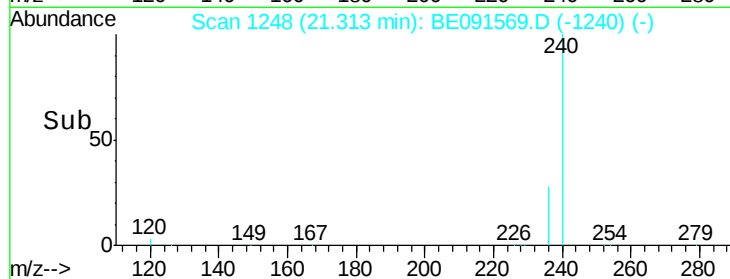
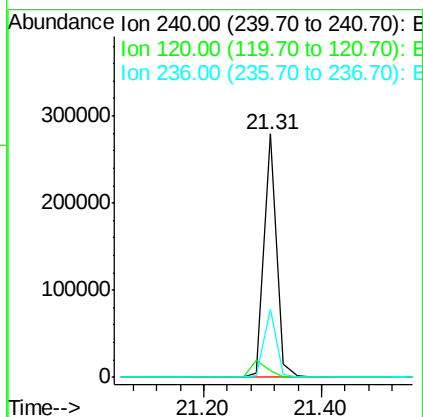
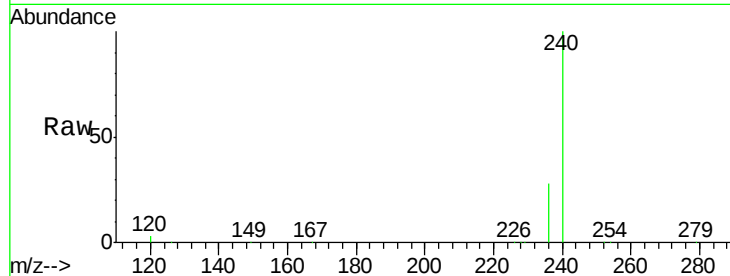




#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.31 min Scan# 1248
Delta R.T. -0.02 min
Lab File: BE091569.D
Acq: 30 Mar 2016 23:51

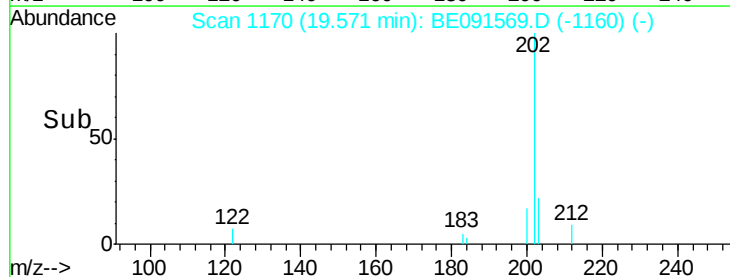
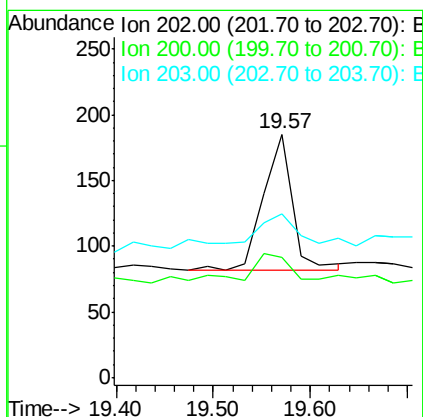
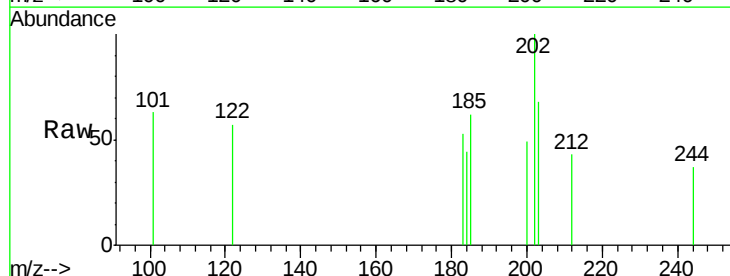
Instrument :
BNA_E
ClientSampleId :

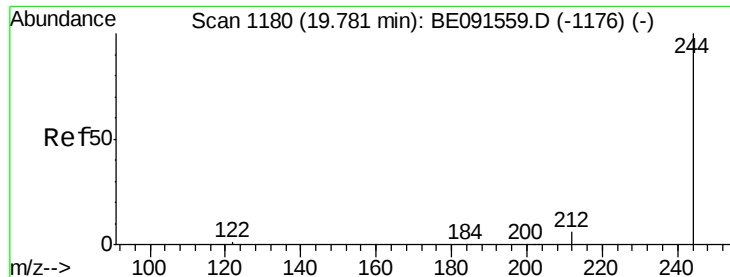
Tot Ion:240 Resp: 418543
Ion Ratio Lower Upper
240 100
120 3.1 4.0 6.0#
236 27.8 23.0 34.4



#23
Pyrene
Concen: 0.00 ng
RT: 19.57 min Scan# 1170
Delta R.T. 0.00 min
Lab File: BE091569.D
Acq: 30 Mar 2016 23:51

Tgt Ion:202 Resp: 217
Ion Ratio Lower Upper
202 100
200 35.5 16.4 24.6#
203 72.8 14.6 21.8#





#24

Terphenyl-d14

Concen: 4.85 ng

RT: 19.76 min Scan# 1180

Delta R.T. -0.02 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

Instrument :

BNA_E

ClientSampleId :

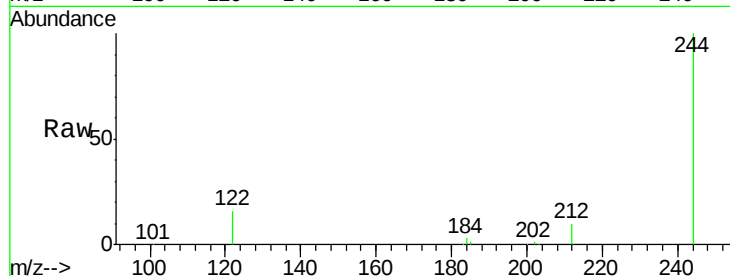
Tot Ion:244 Resp: 257713

Ion Ratio Lower Upper

244 100

212 10.1 5.8 8.8#

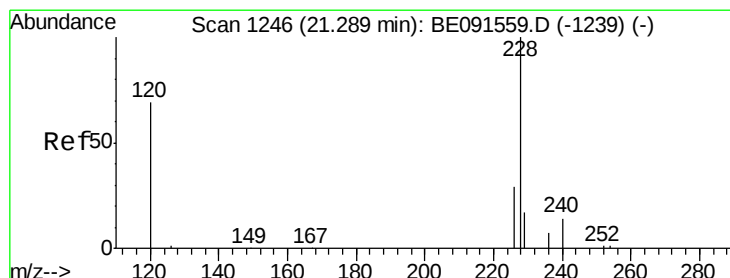
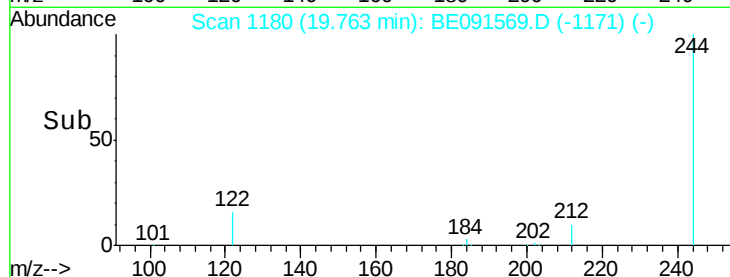
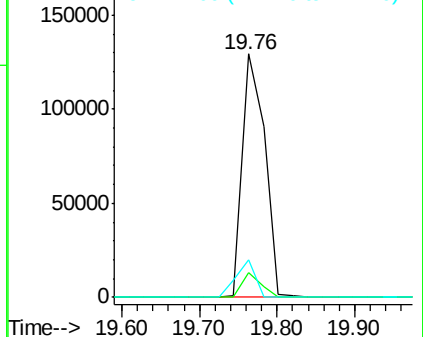
122 15.7 1.8 2.8#



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



#25

Benzo(a)anthracene

Concen: 0.01 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

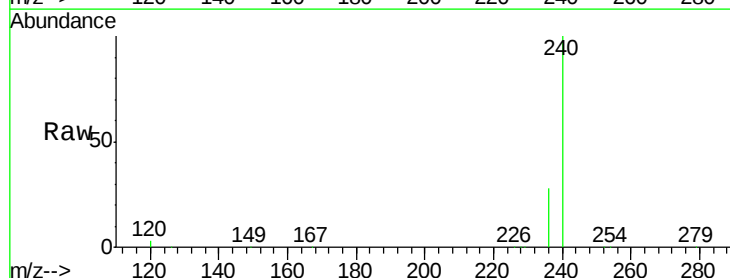
Tgt Ion:228 Resp: 1404

Ion Ratio Lower Upper

228 100

226 17.8 24.0 36.0#

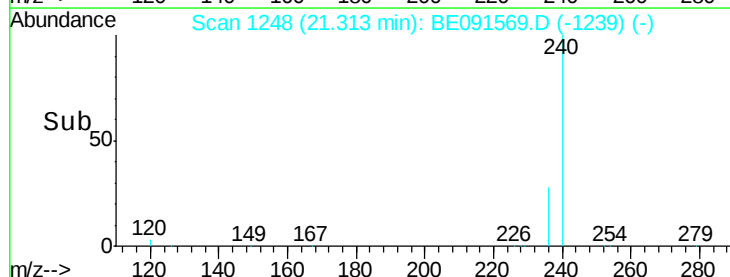
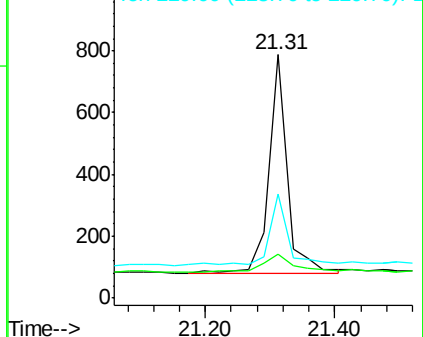
229 42.8 13.8 20.6#

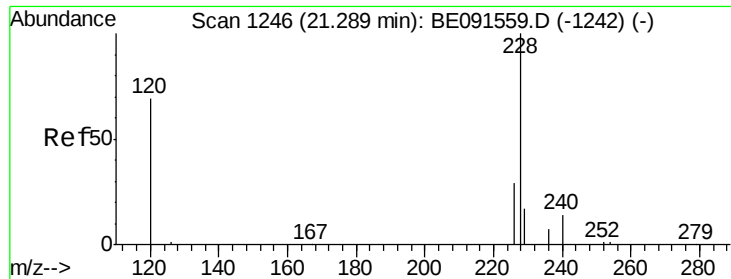


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

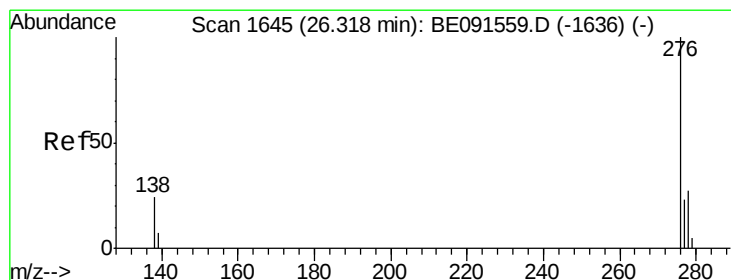
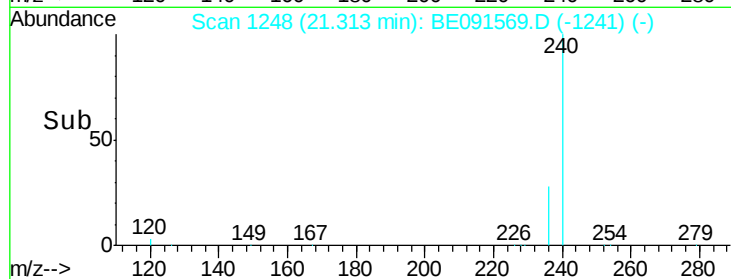
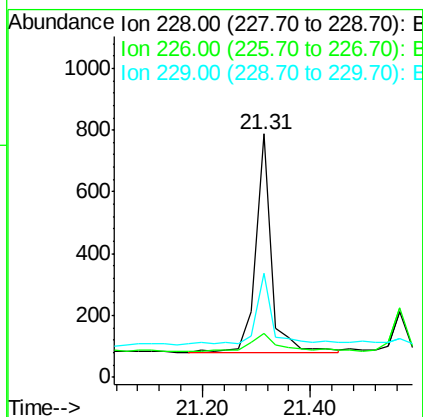
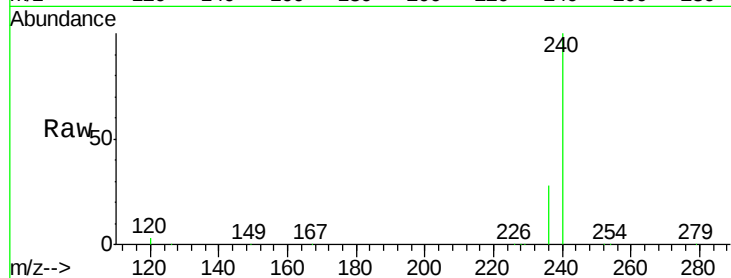




#26
Chrysene
Concen: 0.02 ng
RT: 21.31 min Scan# 1248
Delta R.T. -0.05 min
Lab File: BE091569.D
Acq: 30 Mar 2016 23:51

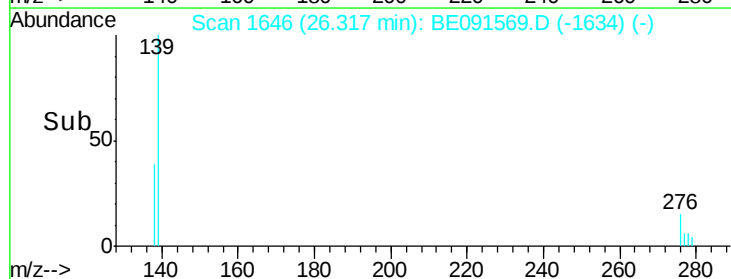
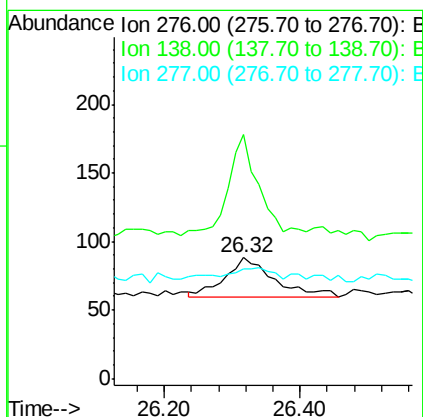
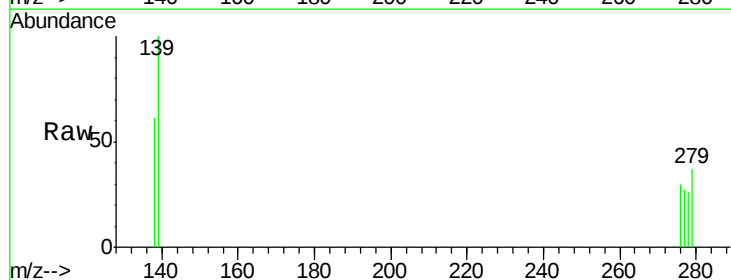
Instrument :
BNA_E
ClientSampled :

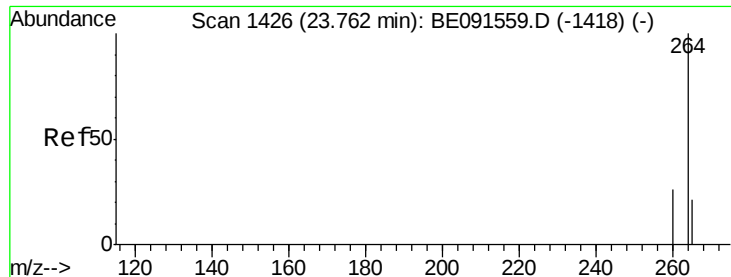
Tot Ion:228 Resp: 1431
Ion Ratio Lower Upper
228 100
226 17.8 18.9 28.3#
229 42.8 19.1 28.7#



#27
Indeno(1,2,3-cd)pyrene
Concen: 0.00 ng
RT: 26.32 min Scan# 1646
Delta R.T. -0.06 min
Lab File: BE091569.D
Acq: 30 Mar 2016 23:51

Tgt Ion:276 Resp: 150
Ion Ratio Lower Upper
276 100
138 164.7 20.2 30.4#
277 0.0 19.8 29.8#

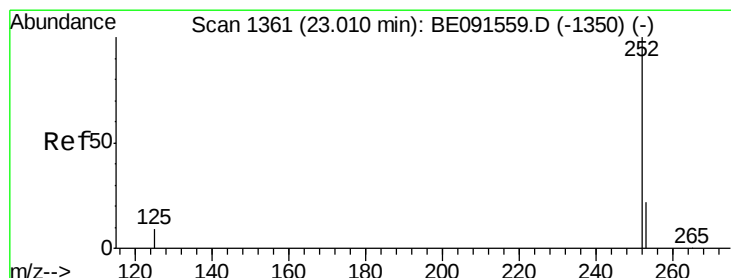
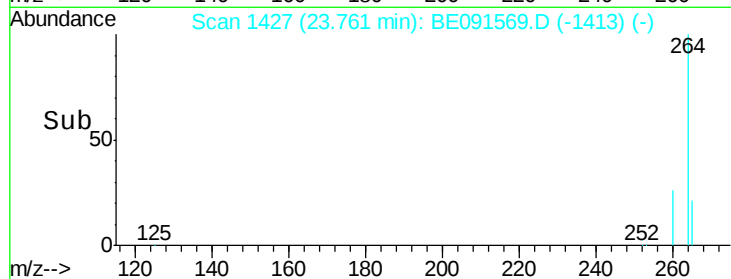
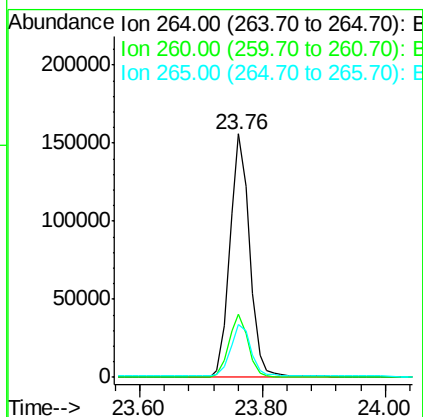
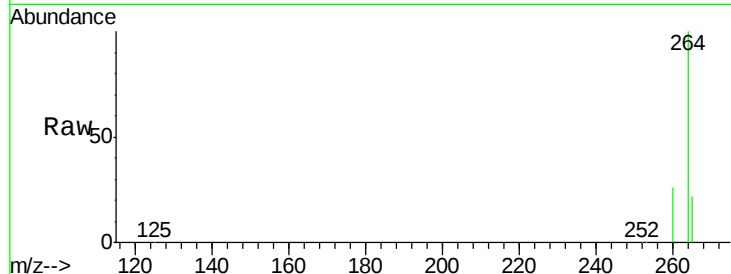




#28
Pervlene-d12
Concen: 5.00 ng
RT: 23.76 min Scan# 1427
Delta R.T. -0.03 min
Lab File: BE091569.D
Acq: 30 Mar 2016 23:51

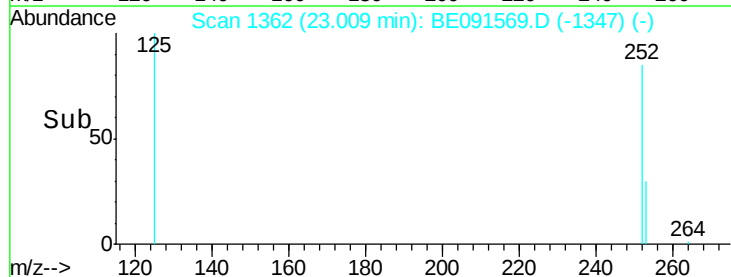
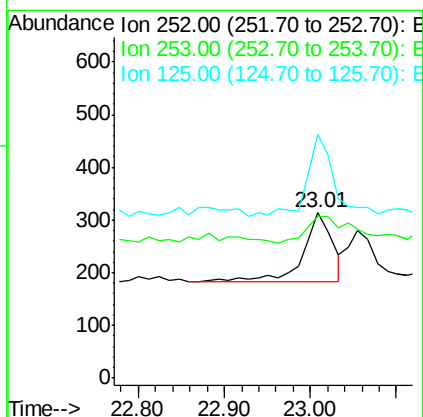
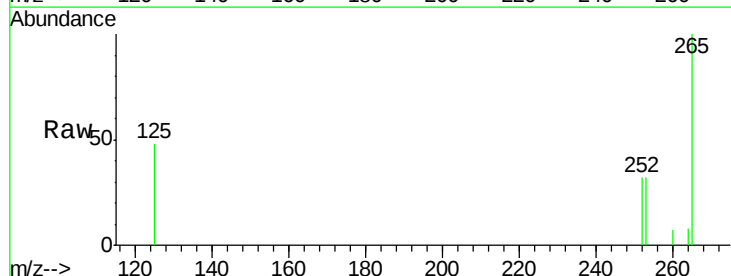
Instrument :
BNA_E
ClientSampleId :

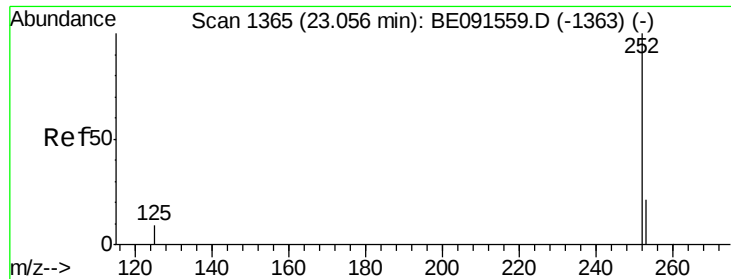
Tot Ion:264 Resp: 348567
Ion Ratio Lower Upper
264 100
260 25.9 20.1 30.1
265 21.6 18.3 27.5



#29
Benzo(b)fluoranthene
Concen: 0.00 ng
RT: 23.01 min Scan# 1362
Delta R.T. -0.02 min
Lab File: BE091569.D
Acq: 30 Mar 2016 23:51

Tgt Ion:252 Resp: 317
Ion Ratio Lower Upper
252 100
253 98.1 18.7 28.1#
125 147.6 9.8 14.6#





#30

Benzo(k)fluoranthene

Concen: 0.00 ng

RT: 23.06 min Scan# 1366

Delta R.T. -0.02 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

Instrument :

BNA_E

ClientSampleId :

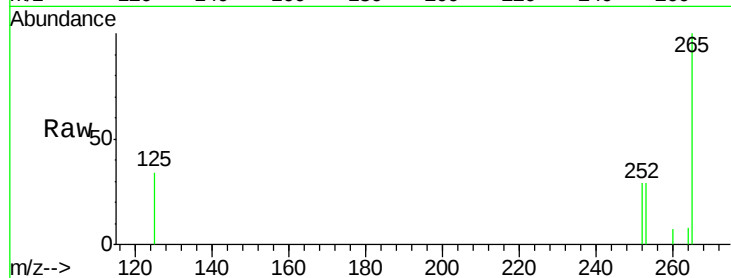
Tot Ion:252 Resp: 174

Ion Ratio Lower Upper

252 100

253 100.7 20.2 30.4#

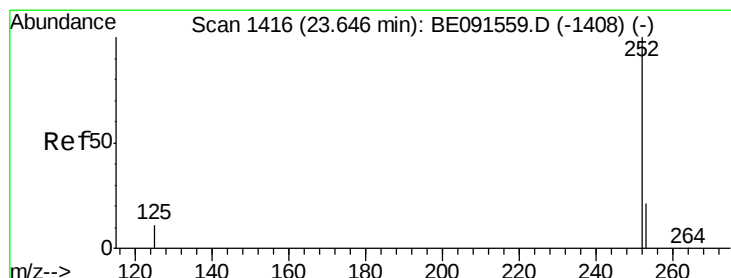
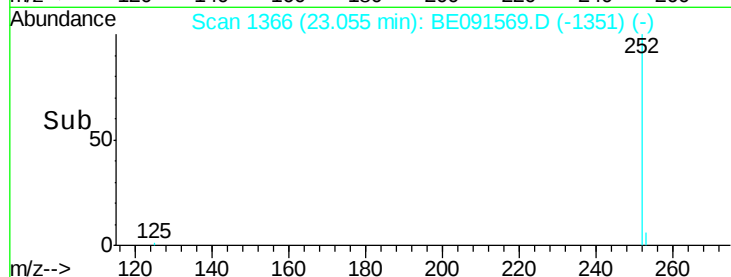
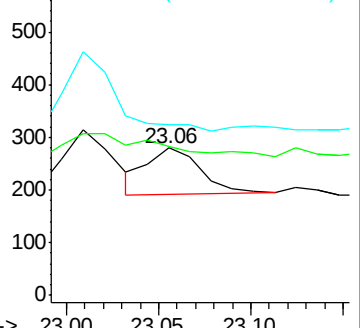
125 115.7 9.4 14.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#31

Benzo(a)pyrene

Concen: 0.00 ng

RT: 23.66 min Scan# 1418

Delta R.T. -0.02 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

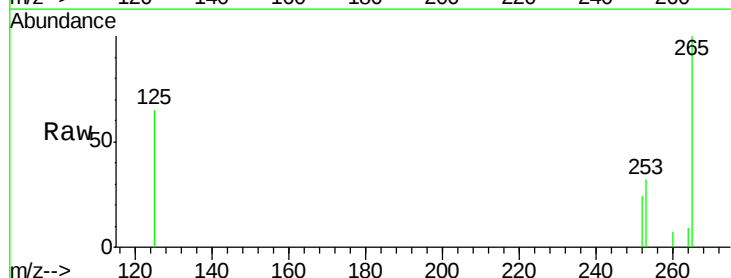
Tgt Ion:252 Resp: 88

Ion Ratio Lower Upper

252 100

253 134.2 19.4 29.0#

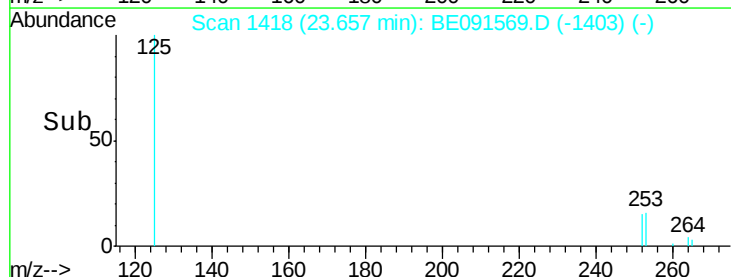
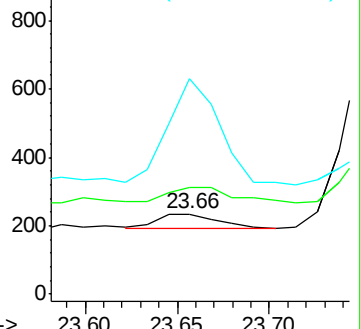
125 268.8 11.4 17.2#

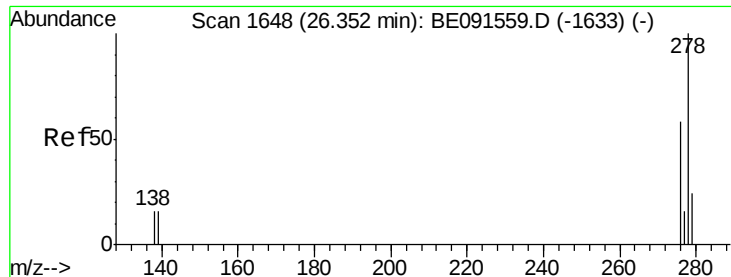


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#32

Dibenzo(a,h)anthracene

Concen: 0.00 ng

RT: 26.34 min Scan# 1648

Delta R.T. -0.06 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

Instrument :

BNA_E

ClientSampleId :

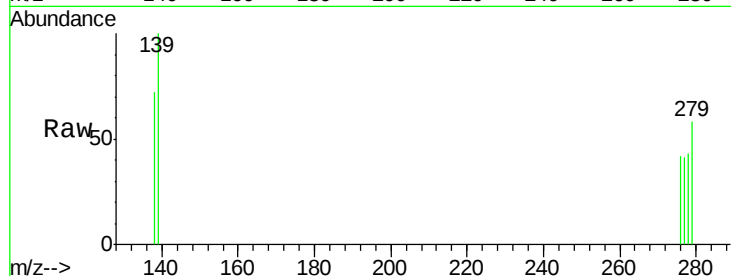
Tot Ion:278 Resp: 110

Ion Ratio Lower Upper

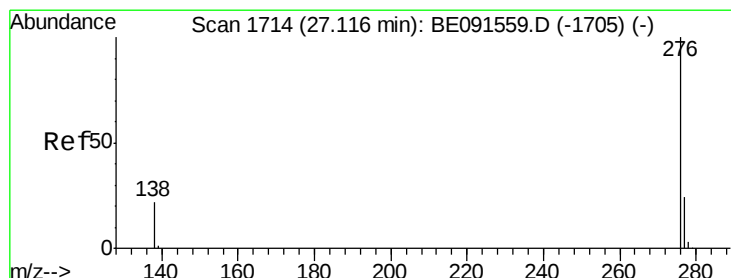
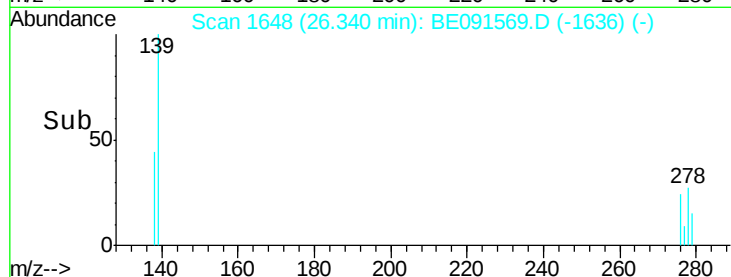
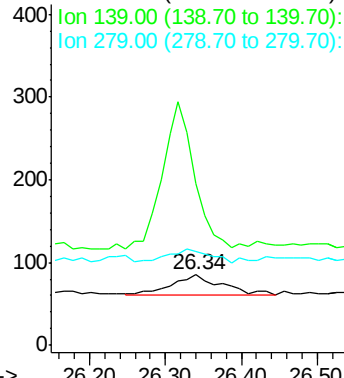
278 100

139 230.6 14.2 21.4#

279 132.9 19.6 29.4#



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



#33

Benzo(g,h,i)perylene

Concen: 0.00 ng

RT: 27.12 min Scan# 1715

Delta R.T. -0.05 min

Lab File: BE091569.D

Acq: 30 Mar 2016 23:51

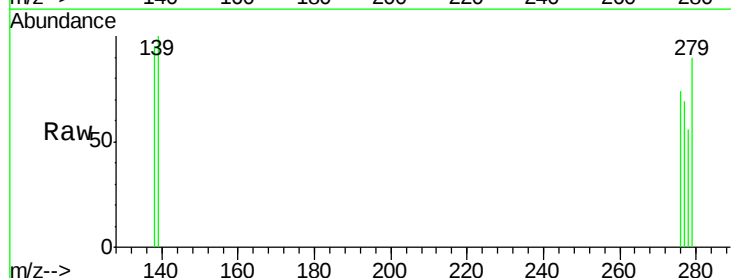
Tgt Ion:276 Resp: 146

Ion Ratio Lower Upper

276 100

277 93.0 19.4 29.2#

138 127.9 18.2 27.4#



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

