

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040116\
 Data File : BE091580.D
 Acq On : 31 Mar 2016 12:14
 Operator : UM/SJ
 Sample : PB89317BL
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Apr 01 00:44:43 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	37025	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	165033	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	99782	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	257871	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	362886	5.00	ng	-0.02
28) Perylene-d12	23.76	264	309400	5.00	ng	-0.03

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	74232	7.66	ng	-0.02
5) Phenol-d6	6.97	99	105086	8.02	ng	-0.02
7) Nitrobenzene-d5	8.96	82	43791	3.95	ng	-0.02
11) 2,4,6-Tribromophenol	15.91	330	31106	7.03	ng	-0.01
12) 2-Fluorobiphenyl	13.05	172	122778	4.33	ng	-0.02
24) Terphenyl-d14	19.76	244	205060	4.45	ng	-0.02

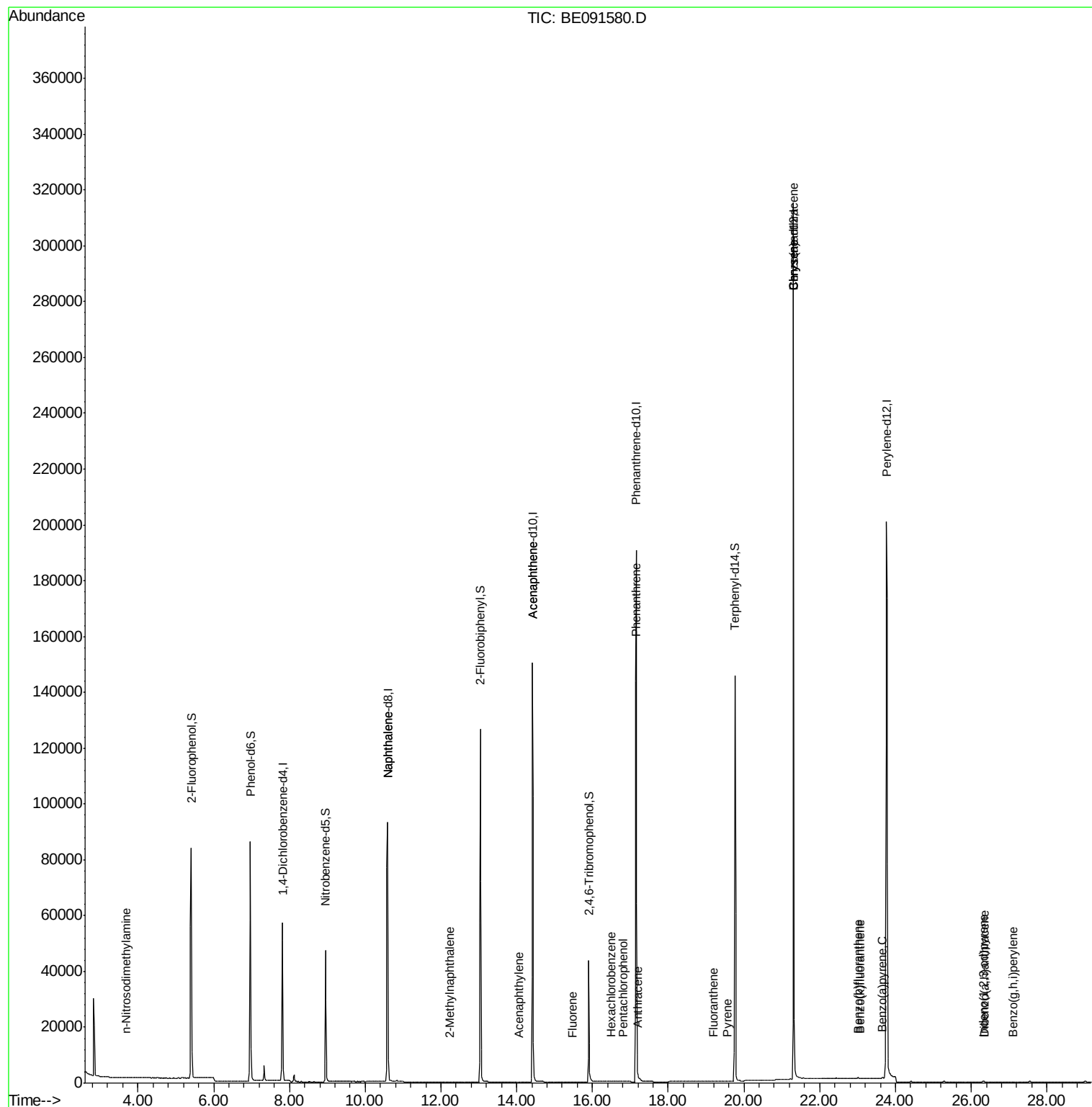
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.69	42	43	0.01	ng	# 47
8) Naphthalene	10.59	128	21	0.00	ng	# 1
9) 2-Methylnaphthalene	12.24	142	19	0.00	ng	# 38
13) Acenaphthylene	14.05	152	357	0.01	ng	# 1
14) Acenaphthene	14.42	154	391	0.02	ng	# 16
15) Fluorene	15.47	166	27	0.00	ng	# 79
17) Hexachlorobenzene	16.50	284	4	0.00	ng	# 39
18) Pentachlorophenol	16.81	266	57	0.01	ng	# 67
19) Phenanthrene	17.15	178	94	0.00	ng	# 1
20) Anthracene	17.19	178	110	0.00	ng	# 54
21) Fluoranthene	19.21	202	59	0.00	ng	# 9
23) Pyrene	19.57	202	60	0.00	ng	# 2
25) Benzo(a)anthracene	21.31	228	1125	0.01	ng	# 66
26) Chrysene	21.31	228	1143	0.02	ng	# 78
27) Indeno(1,2,3-cd)pyrene	26.33	276	85	0.00	ng	# 1
29) Benzo(b)fluoranthene	23.01	252	253	0.00	ng	# 1
30) Benzo(k)fluoranthene	23.06	252	169	0.00	ng	# 1
31) Benzo(a)pyrene	23.66	252	64	0.00	ng	# 1
32) Dibenzo(a,h)anthracene	26.34	278	62	0.00	ng	# 1
33) Benzo(a,h,i)perylene	27.12	276	67	0.00	ng	# 1

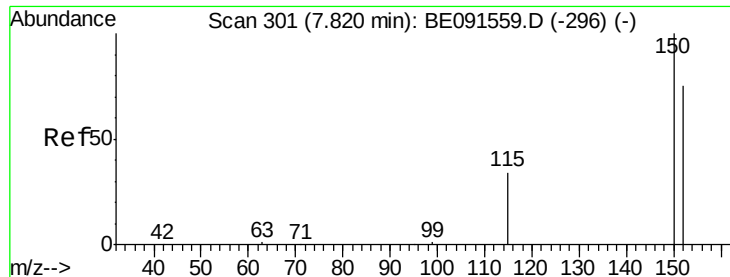
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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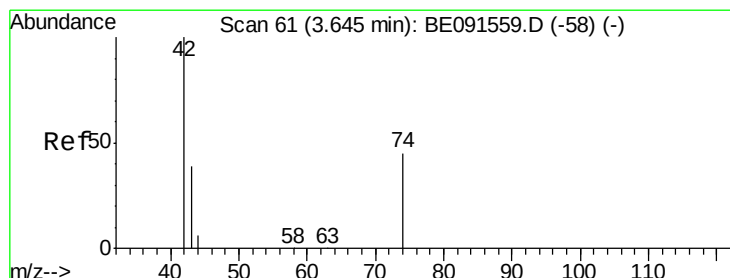
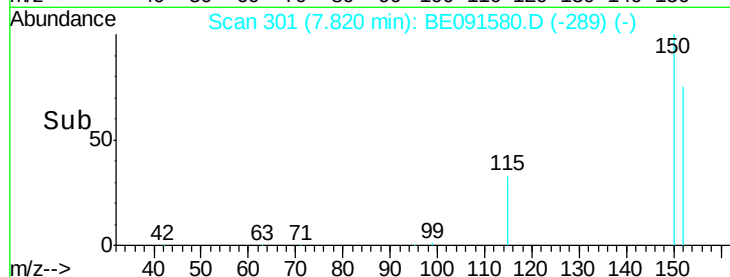
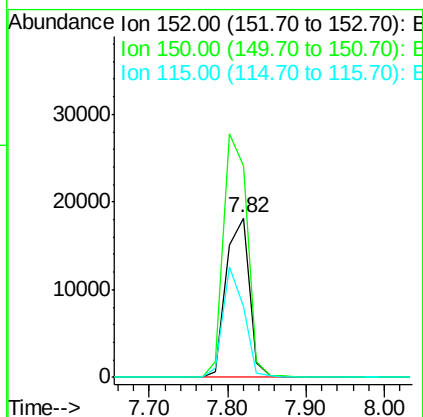
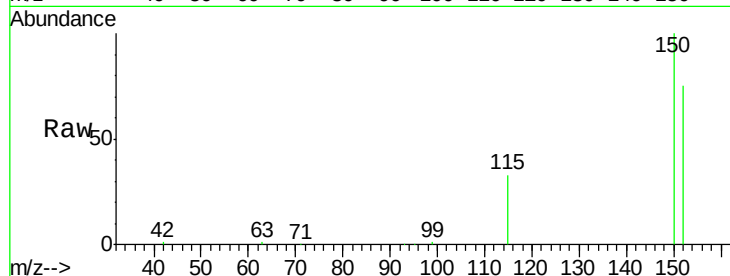


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.82 min Scan# 301
Delta R.T. 0.00 min
Lab File: BE091580.D
Acq: 31 Mar 2016 12:14

Instrument :
BNA_E
ClientSampleId :

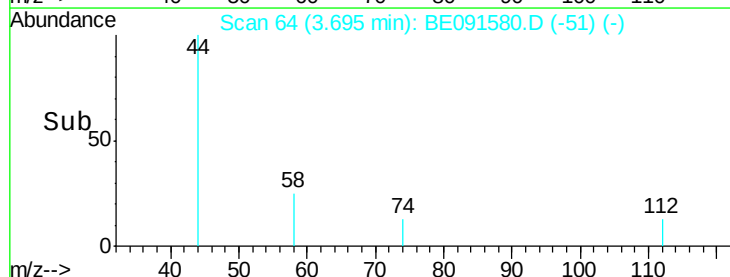
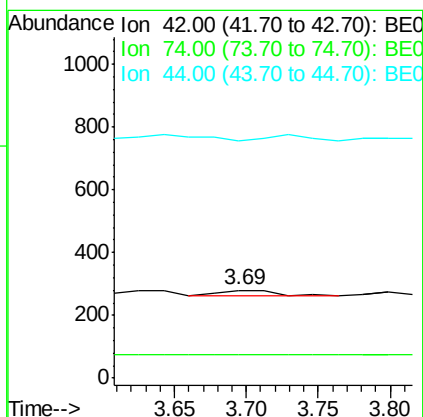
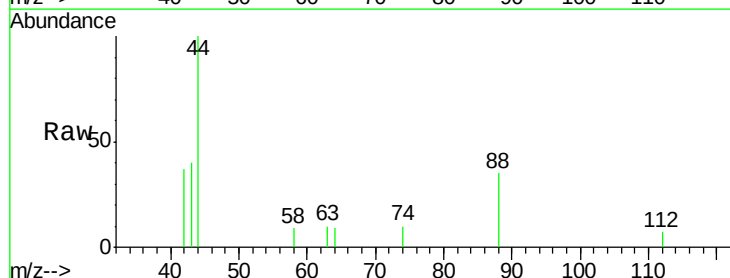
Tot Ion:152 Resp: 37025
Ion Ratio Lower Upper
152 100
150 132.8 122.2 183.2
115 44.1 45.9 68.9#

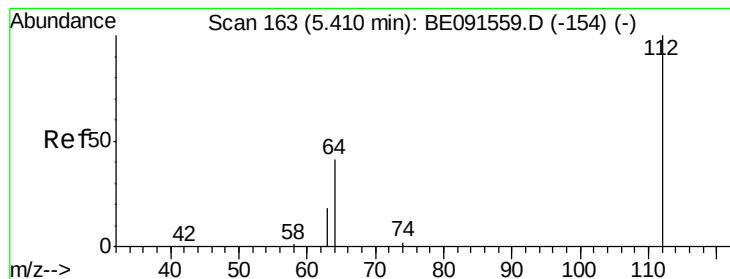


#3

n-Nitrosodimethylamine
Concen: 0.01 ng
RT: 3.69 min Scan# 64
Delta R.T. 0.02 min
Lab File: BE091580.D
Acq: 31 Mar 2016 12:14

Tgt Ion: 42 Resp: 43
Ion Ratio Lower Upper
42 100
74 48.8 84.3 126.5#
44 0.0 6.7 10.1#





#4

2-Fluorophenol

Concen: 7.66 ng

RT: 5.41 min Scan# 163

Delta R.T. -0.02 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

Instrument :

BNA_E

ClientSampleId :

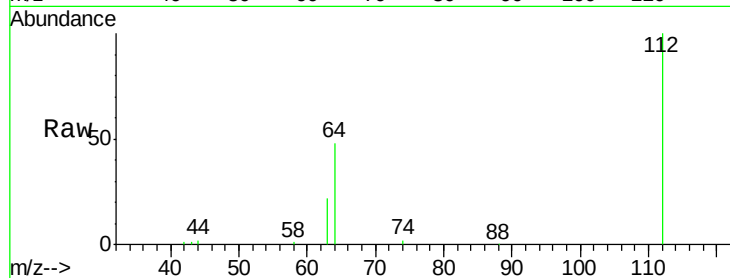
Tot Ion:112 Resp: 74232

Ion Ratio Lower Upper

112 100

64 67.4 53.3 79.9

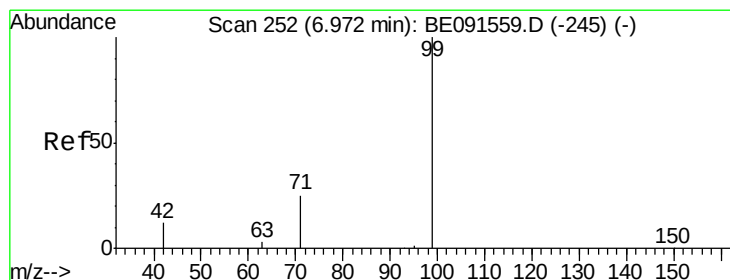
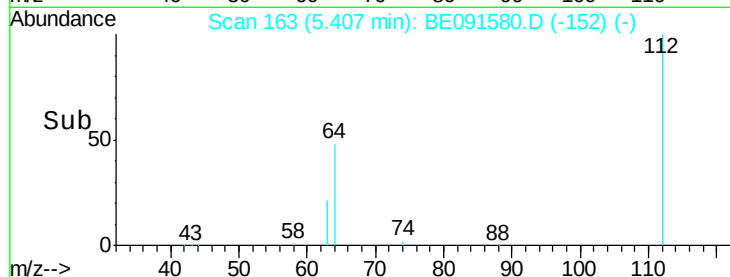
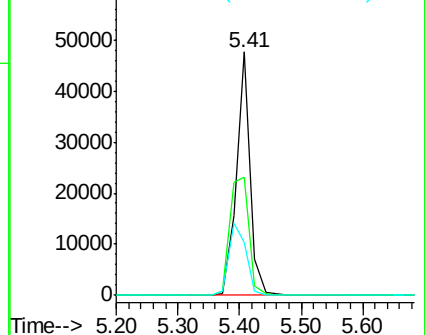
63 36.3 29.8 44.8



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: 8.02 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

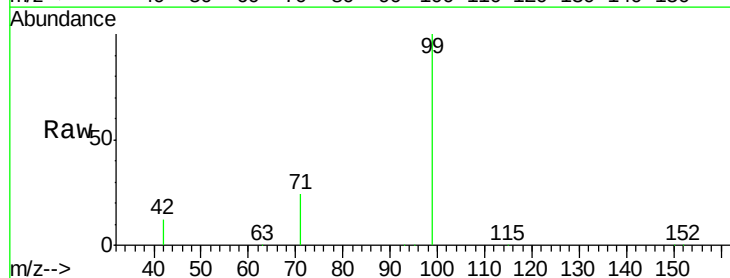
Tgt Ion: 99 Resp: 105086

Ion Ratio Lower Upper

99 100

42 24.4 20.6 30.8

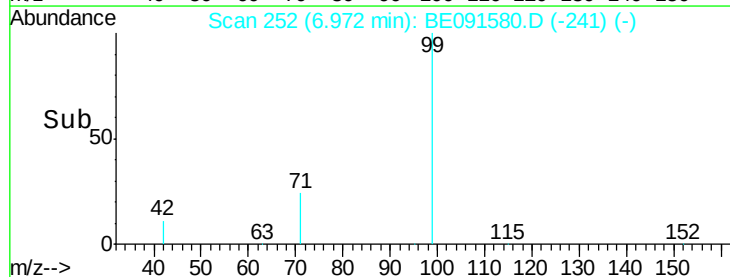
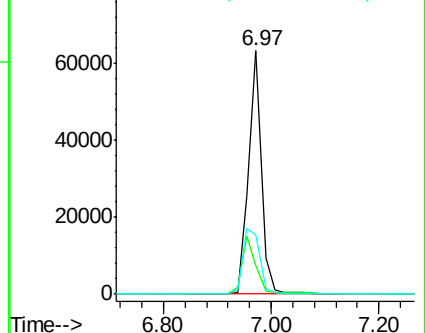
71 35.1 29.0 43.4

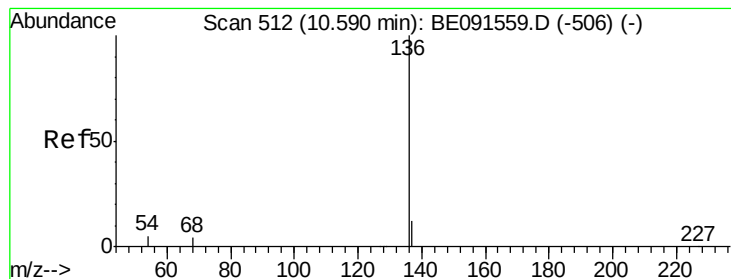


Abundance Ion 99.00 (98.70 to 99.70): BE0

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

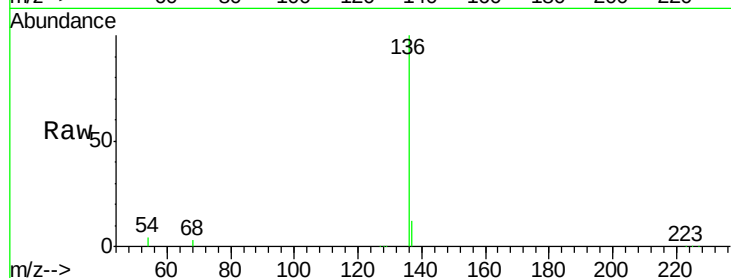
Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

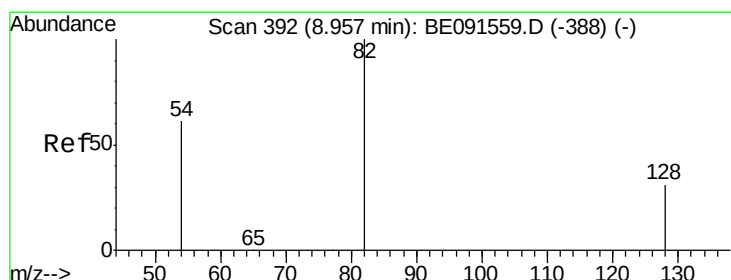
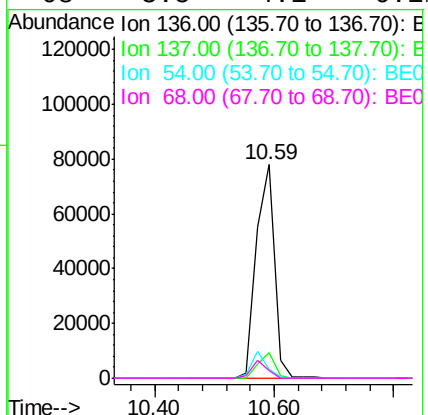
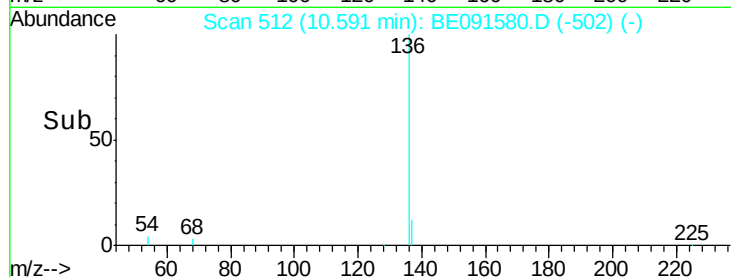
Instrument :

BNA_E

ClientSampled :



Tot Ion:136	Resp:	165033
Ion Ratio	Lower	Upper
136	100	
137	11.8	8.8 13.2
54	4.1	5.2 7.8#
68	3.5	4.1 6.1#



#7

Nitrobenzene-d5

Concen: 3.95 ng

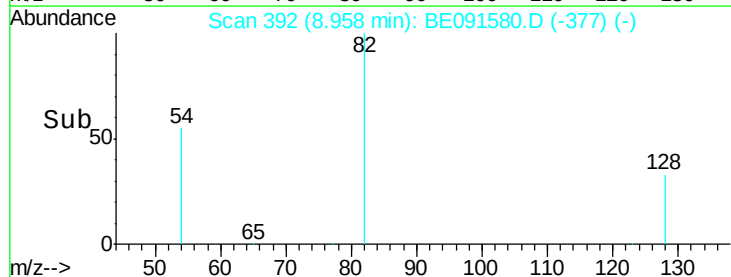
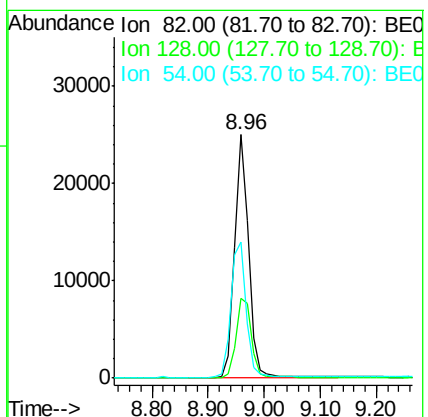
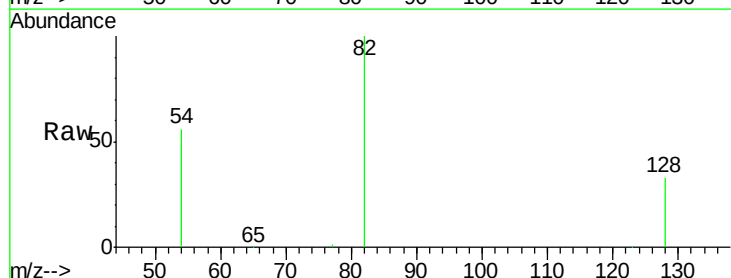
RT: 8.96 min Scan# 392

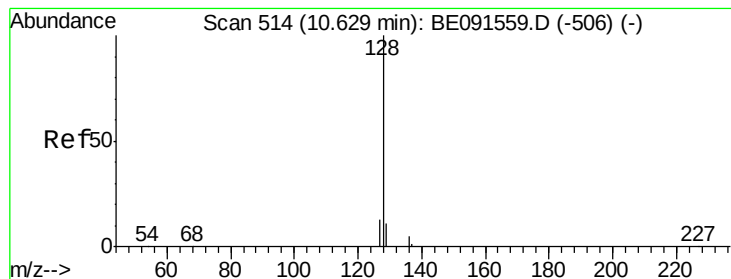
Delta R.T. -0.02 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

Tgt Ion: 82	Resp:	43791
Ion Ratio	Lower	Upper
82	100	
128	32.7	23.5 35.3
54	55.6	52.4 78.6





#8

Naphthalene

Concen: 0.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.06 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

Instrument :

BNA_E

ClientSampleId :

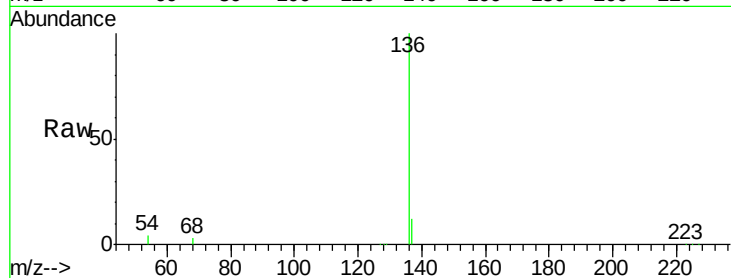
Tot Ion:128 Resp: 21

Ion Ratio Lower Upper

128 100

129 83.9 8.2 12.2#

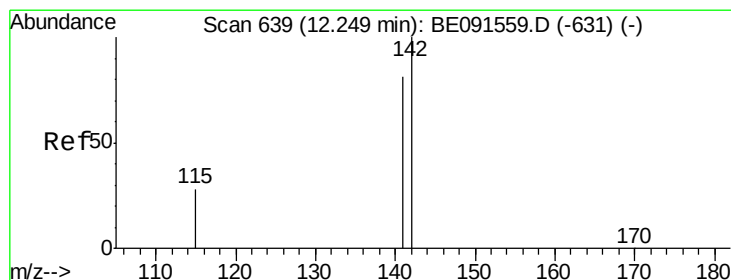
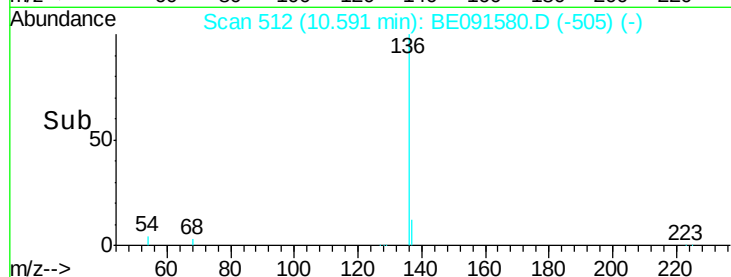
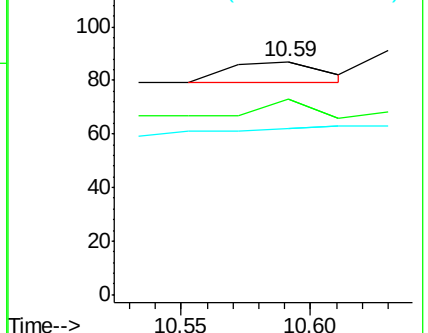
127 71.3 11.8 17.8#



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: 12.24 min Scan# 638

Delta R.T. -0.02 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

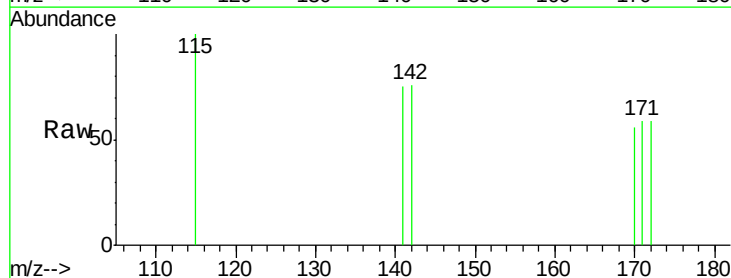
Tgt Ion:142 Resp: 19

Ion Ratio Lower Upper

142 100

141 98.5 66.9 100.3

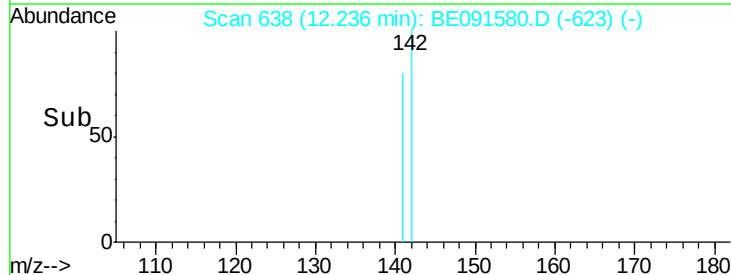
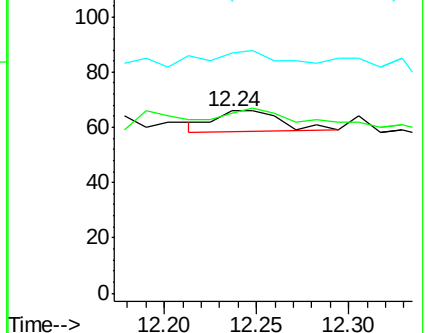
115 131.8 25.1 37.7#

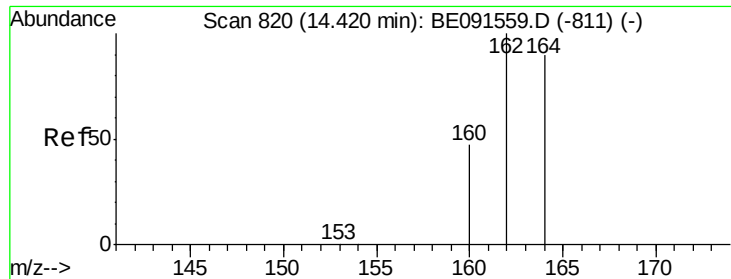


Abundance Ion 142.00 (141.70 to 142.70): E

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: BE091580.D

Acq: 31 Mar 2016 12:14

Instrument :

BNA_E

ClientSampleId :

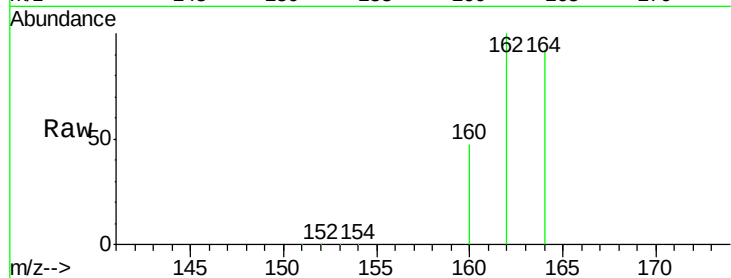
Tot Ion:164 Resp: 99782

Ion Ratio Lower Upper

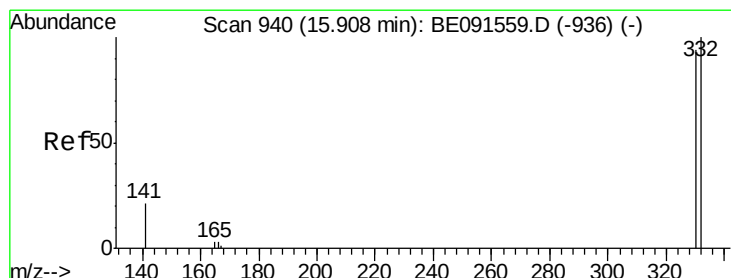
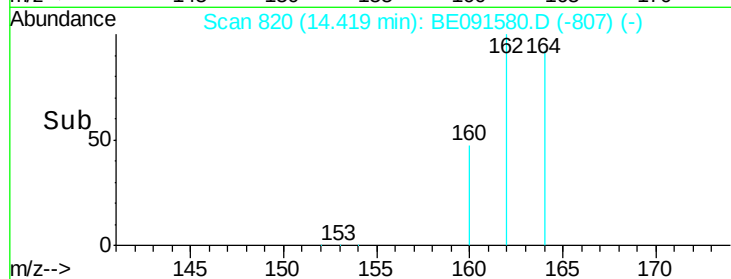
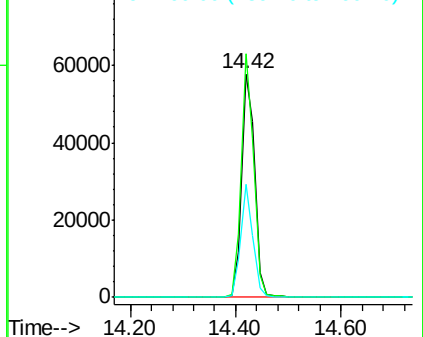
164 100

162 109.0 84.4 126.6

160 50.8 37.7 56.5



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



#11

2,4,6-Tribromophenol

Concen: 7.03 ng

RT: 15.91 min Scan# 940

Delta R.T. -0.01 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

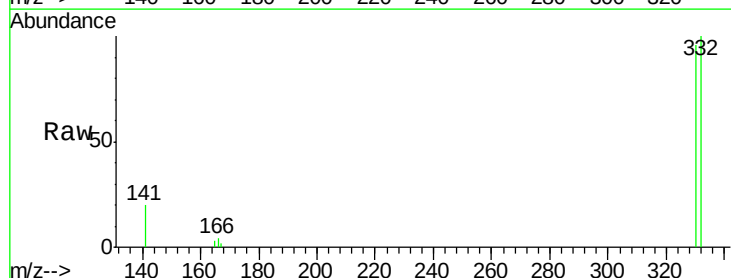
Tgt Ion:330 Resp: 31106

Ion Ratio Lower Upper

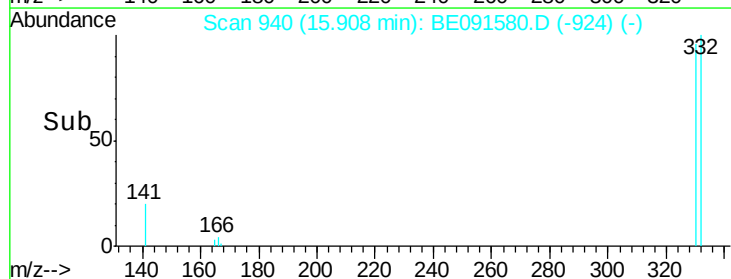
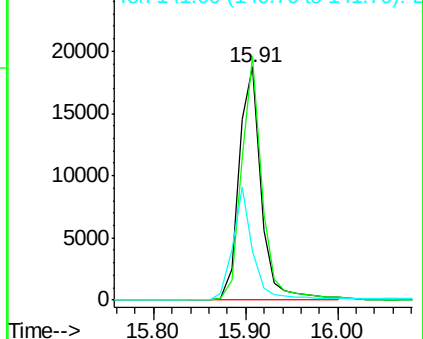
330 100

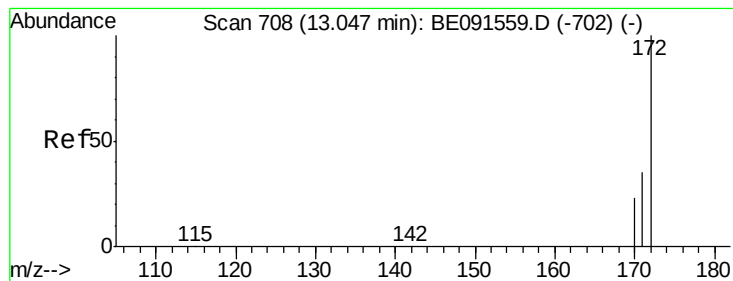
332 96.4 79.2 118.8

141 43.2 28.1 42.1#



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

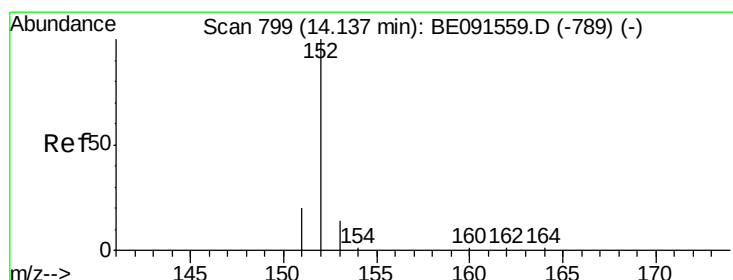
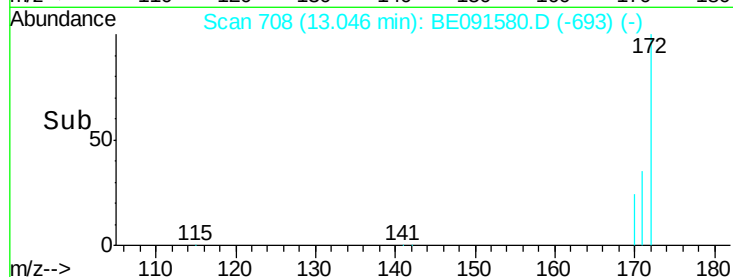
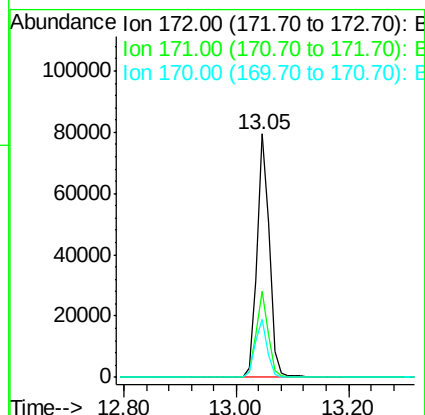
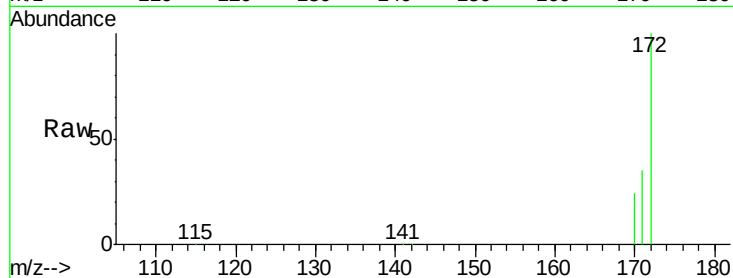




#12
2-Fluorobiphenyl
Concen: 4.33 ng
RT: 13.05 min Scan# 708
Delta R.T. -0.02 min
Lab File: BE091580.D
Acq: 31 Mar 2016 12:14

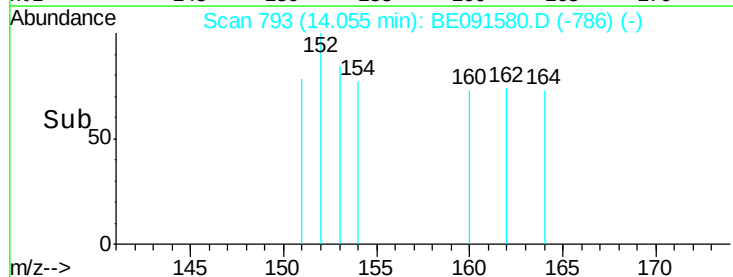
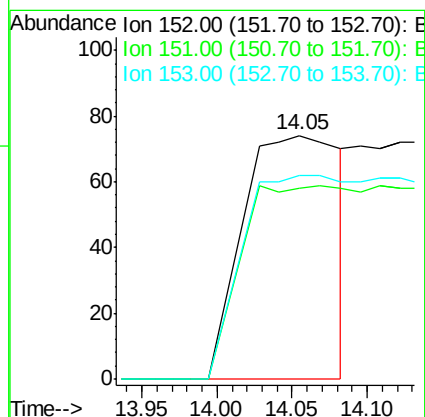
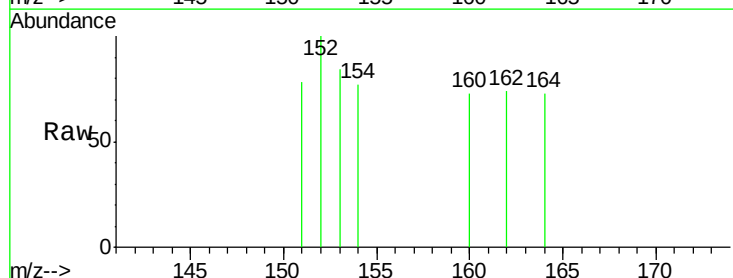
Instrument :
BNA_E
ClientSampleId :

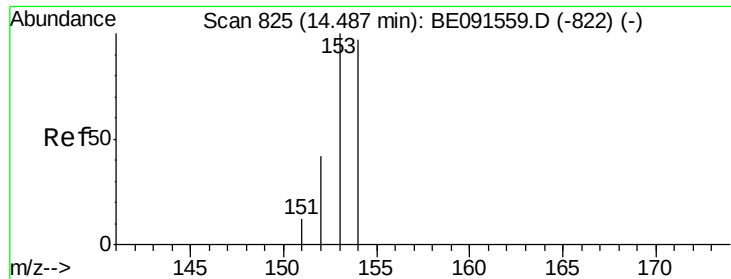
Tot Ion:172 Resp: 122778
Ion Ratio Lower Upper
172 100
171 35.2 29.8 44.8
170 23.8 21.4 32.2



#13
Acenaphthylene
Concen: 0.01 ng
RT: 14.05 min Scan# 793
Delta R.T. -0.09 min
Lab File: BE091580.D
Acq: 31 Mar 2016 12:14

Tgt Ion:152 Resp: 357
Ion Ratio Lower Upper
152 100
151 0.0 16.3 24.5#
153 98.6 11.1 16.7#





#14

Acenaphthene

Concen: 0.02 ng

RT: 14.42 min Scan# 820

Delta R.T. -0.08 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

Instrument :

BNA_E

ClientSampleId :

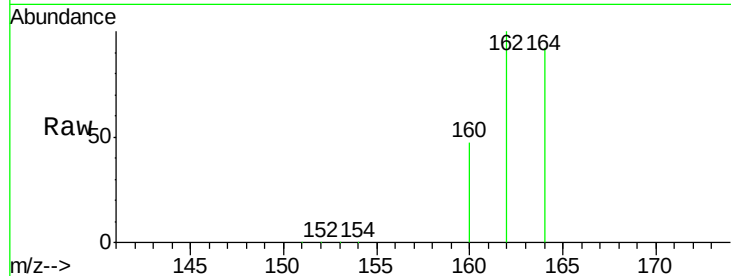
Tot Ion:154 Resp: 391

Ion Ratio Lower Upper

154 100

153 13.8 87.3 130.9#

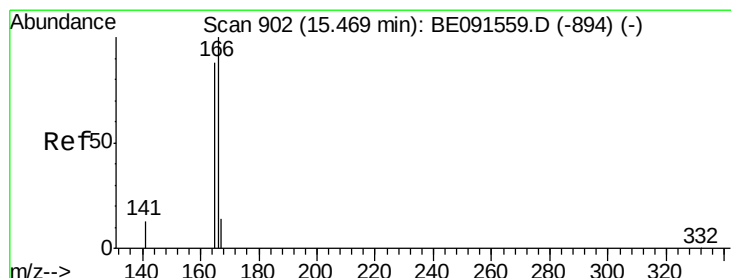
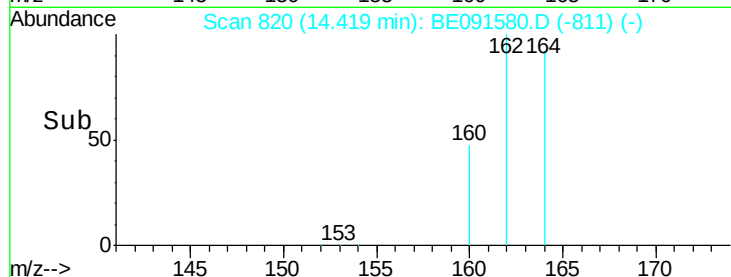
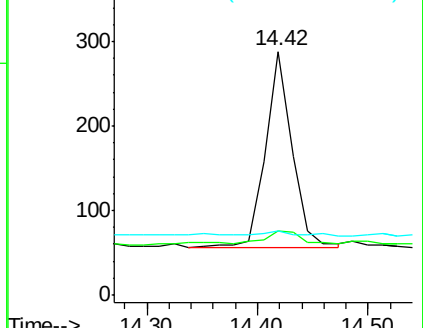
152 3.8 42.9 64.3#



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: BE091580.D

Acq: 31 Mar 2016 12:14

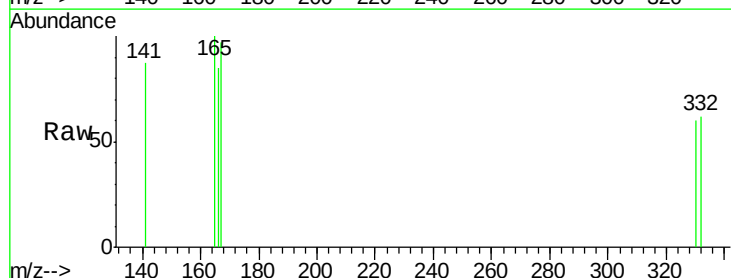
Tgt Ion:166 Resp: 27

Ion Ratio Lower Upper

166 100

165 85.2 79.2 118.8

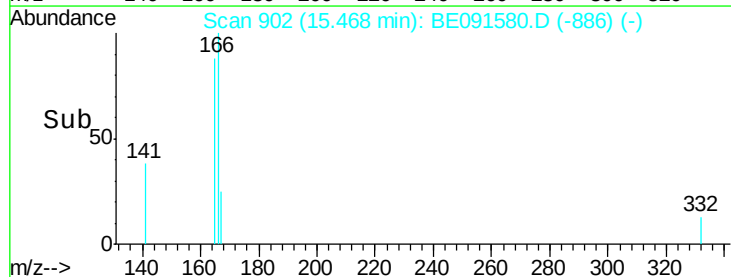
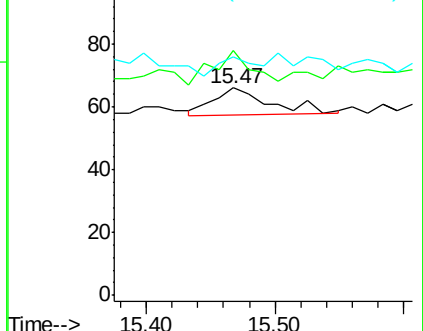
167 44.4 10.8 16.2#

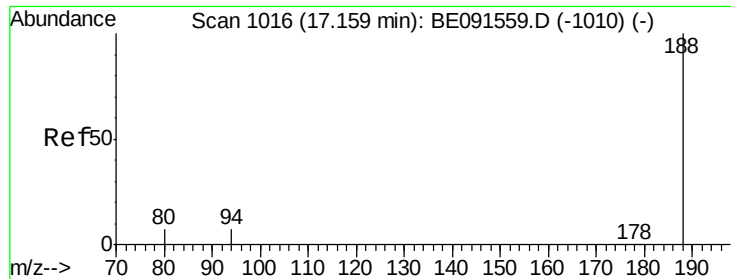


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

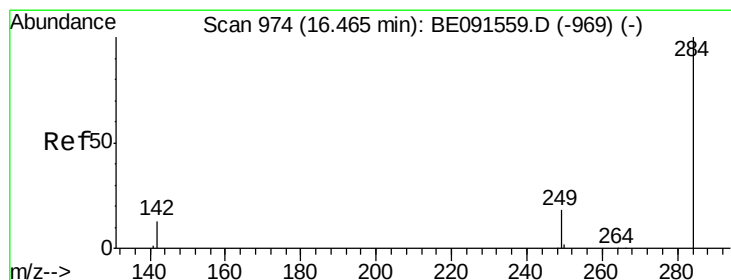
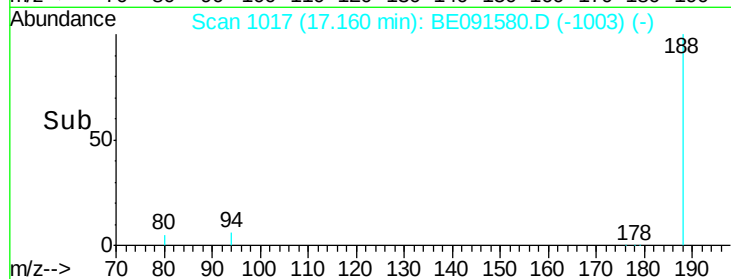
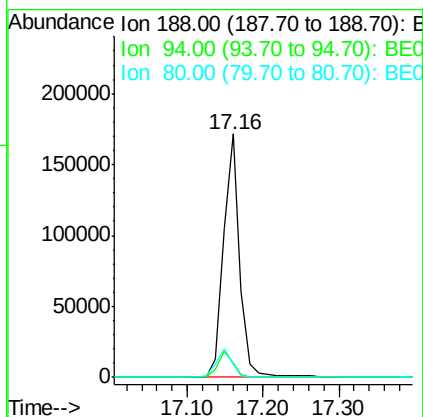
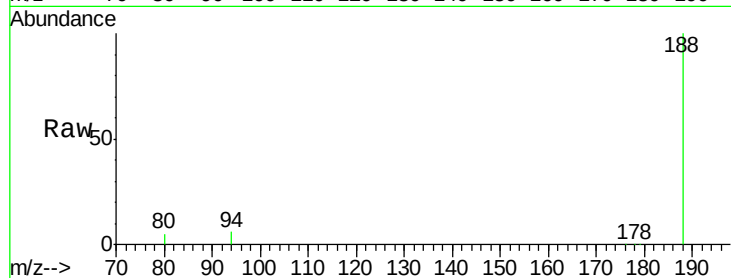




#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.16 min Scan# 1017
Delta R.T. -0.01 min
Lab File: BE091580.D
Acq: 31 Mar 2016 12:14

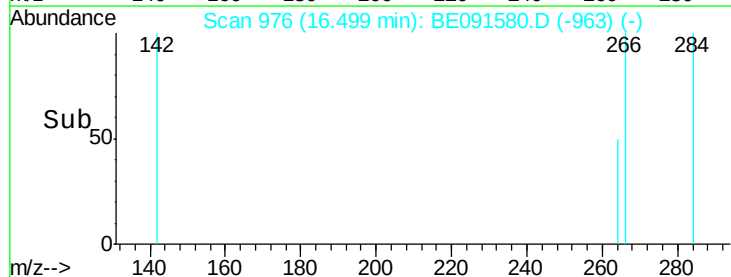
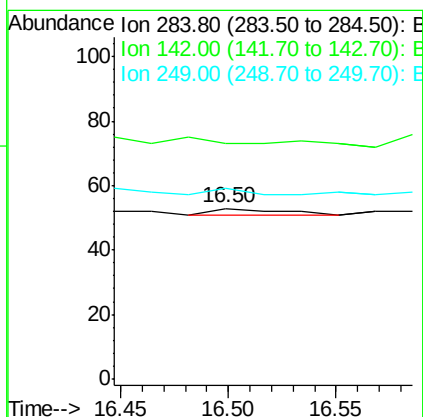
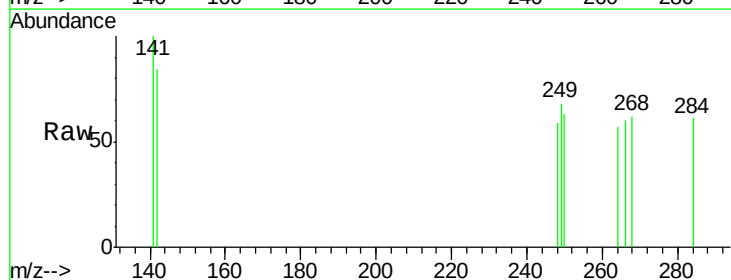
Instrument :
BNA_E
ClientSampled :

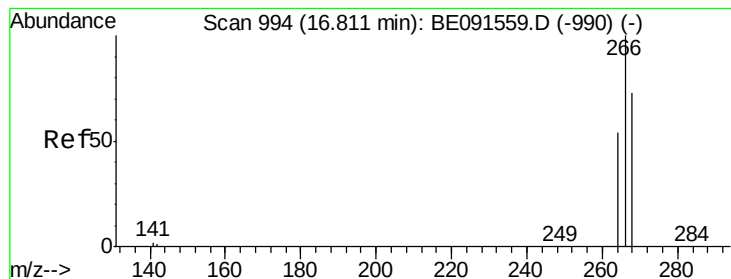
Tot Ion:188 Resp: 257871
Ion Ratio Lower Upper
188 100
94 5.8 5.4 8.2
80 5.3 5.0 7.4



#17
Hexachlorobenzene
Concen: 0.00 ng
RT: 16.50 min Scan# 976
Delta R.T. 0.02 min
Lab File: BE091580.D
Acq: 31 Mar 2016 12:14

Tgt Ion:284 Resp: 4
Ion Ratio Lower Upper
284 100
142 0.0 31.0 46.4#
249 0.0 25.8 38.8#





#18

Pentachlorophenol

Concen: 0.01 ng

RT: 16.81 min Scan# 994

Delta R.T. -0.02 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

Instrument :

BNA_E

ClientSampleId :

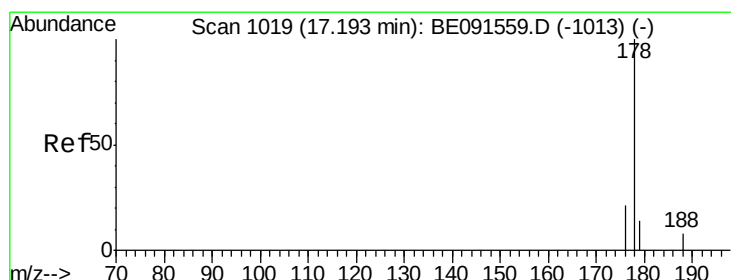
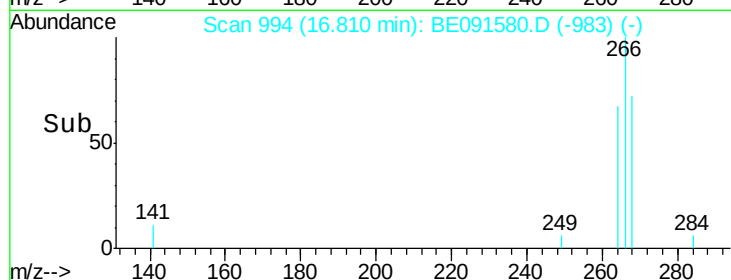
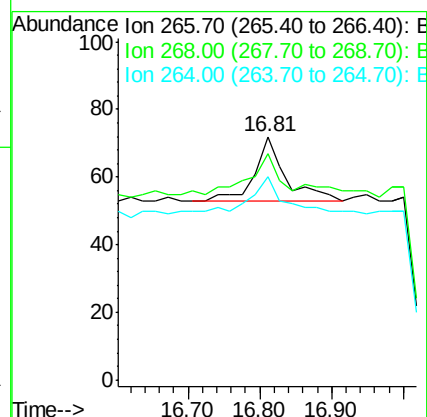
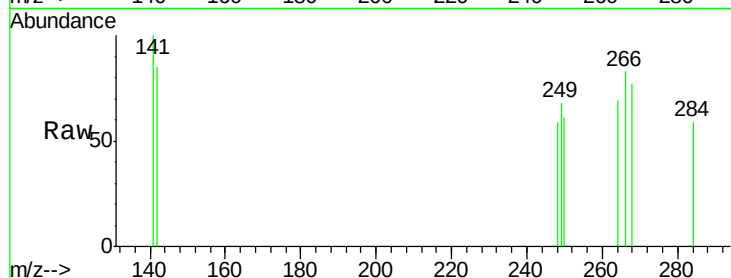
Tot Ion:266 Resp: 57

Ion Ratio Lower Upper

266 100

268 93.1 48.2 72.2#

264 83.3 52.1 78.1#



#19

Phenanthrene

Concen: 0.00 ng

RT: 17.15 min Scan# 1016

Delta R.T. -0.06 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

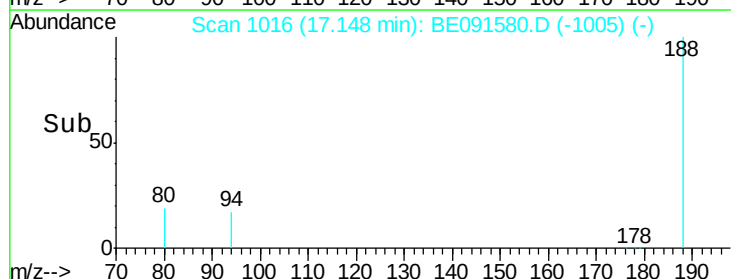
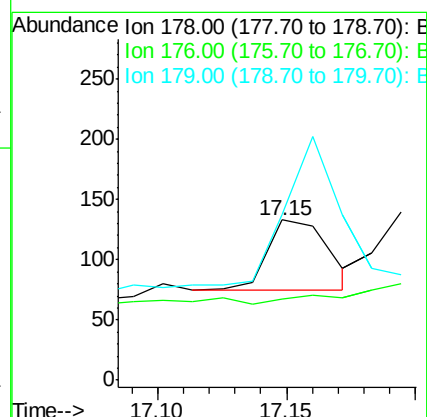
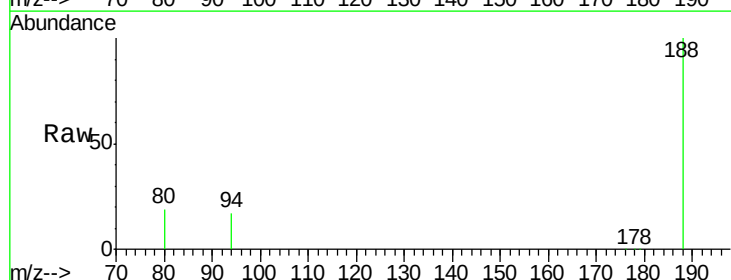
Tgt Ion:178 Resp: 94

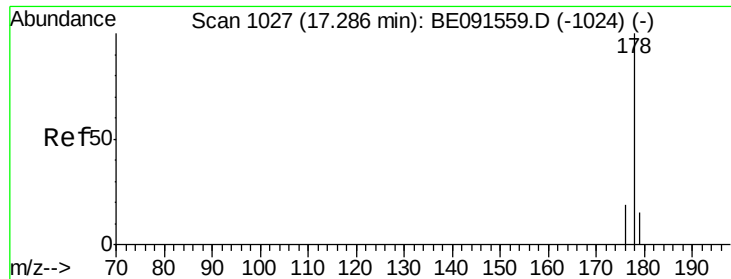
Ion Ratio Lower Upper

178 100

176 0.0 15.5 23.3#

179 256.4 13.1 19.7#





#20

Anthracene

Concen: 0.00 ng

RT: 17.19 min Scan# 1020

Delta R.T. -0.10 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

Instrument :

BNA_E

ClientSampleId :

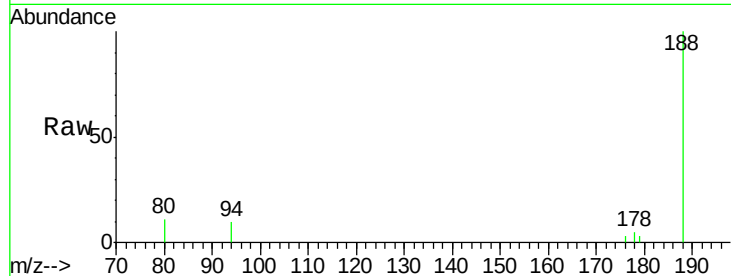
Tot Ion:178 Resp: 110

Ion Ratio Lower Upper

178 100

176 42.7 14.9 22.3#

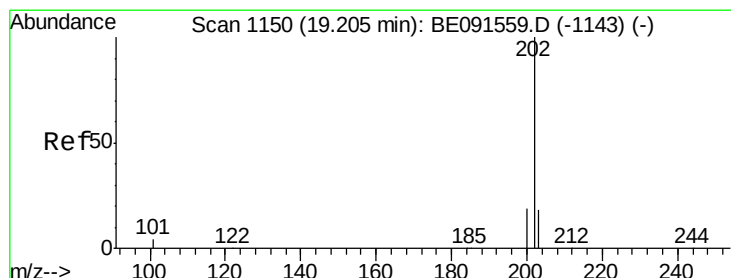
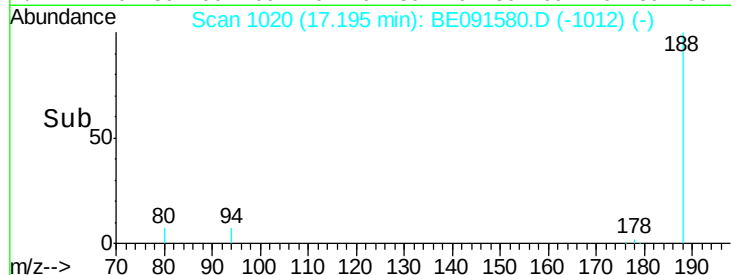
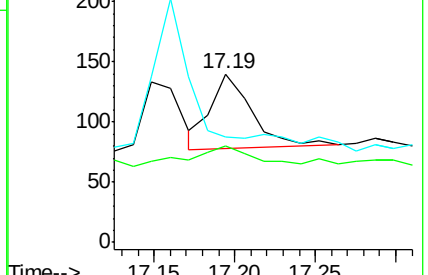
179 0.0 12.2 18.4#



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



#21

Fluoranthene

Concen: 0.00 ng

RT: 19.21 min Scan# 1151

Delta R.T. -0.02 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

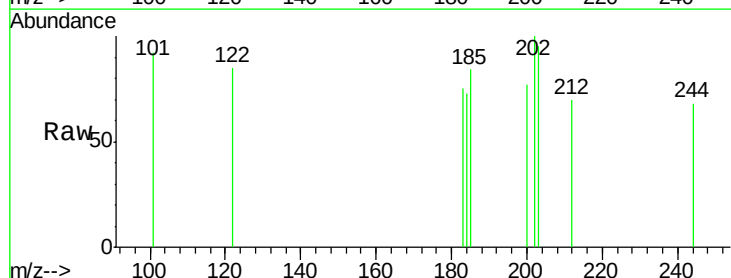
Tgt Ion:202 Resp: 59

Ion Ratio Lower Upper

202 100

101 28.8 8.3 12.5#

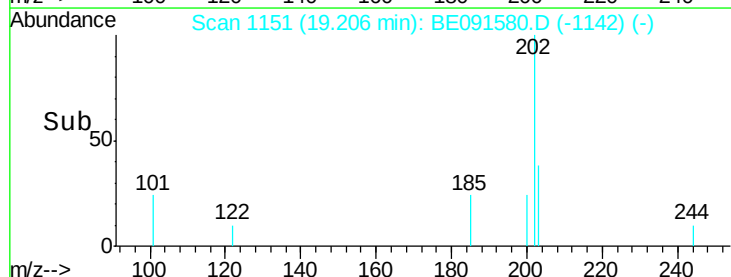
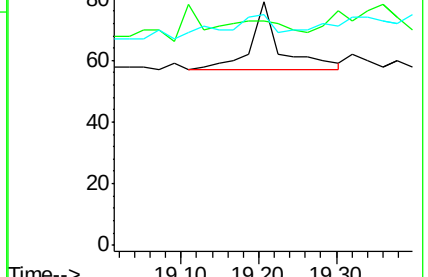
203 67.8 13.9 20.9#

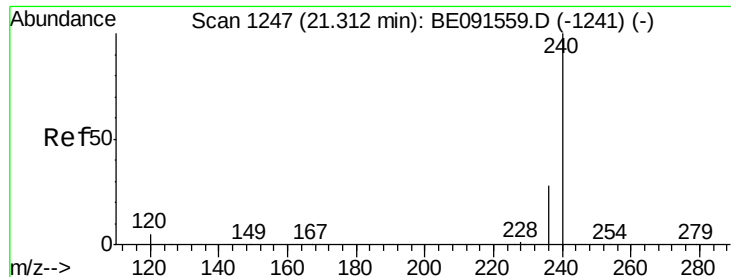


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.02 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

Instrument :

BNA_E

ClientSampleId :

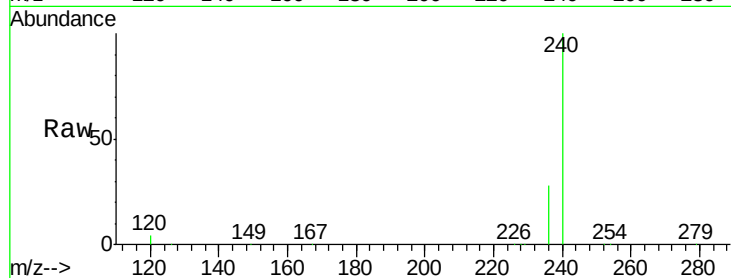
Tot Ion:240 Resp: 362886

Ion Ratio Lower Upper

240 100

120 3.7 4.0 6.0#

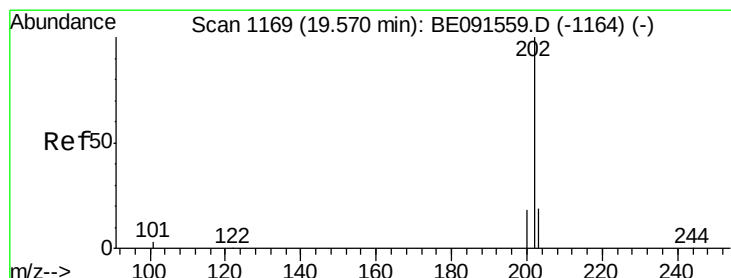
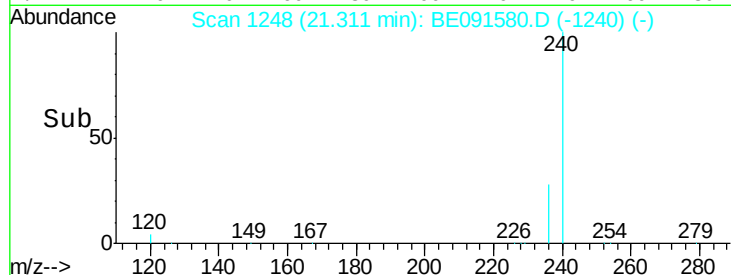
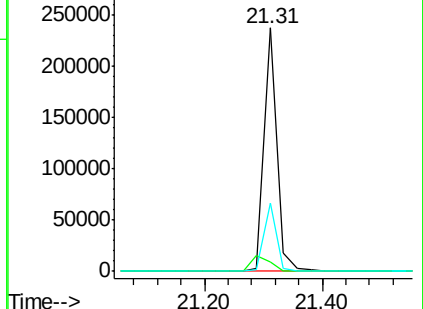
236 28.1 23.0 34.4



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



#23

Pyrene

Concen: 0.00 ng

RT: 19.57 min Scan# 1170

Delta R.T. 0.00 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

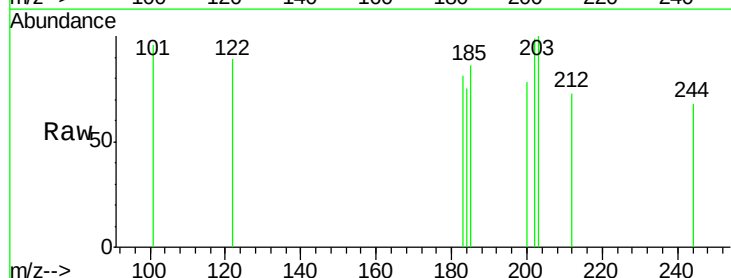
Tgt Ion:202 Resp: 60

Ion Ratio Lower Upper

202 100

200 60.0 16.4 24.6#

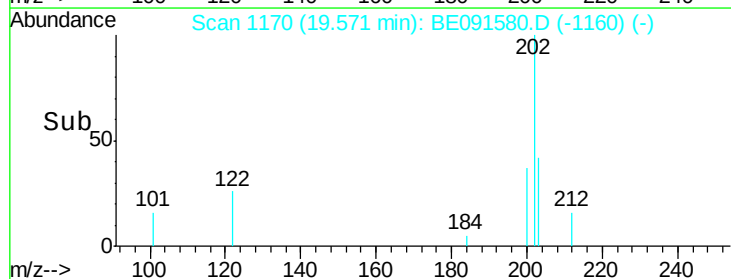
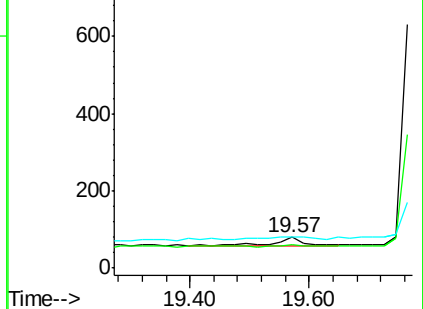
203 68.3 14.6 21.8#

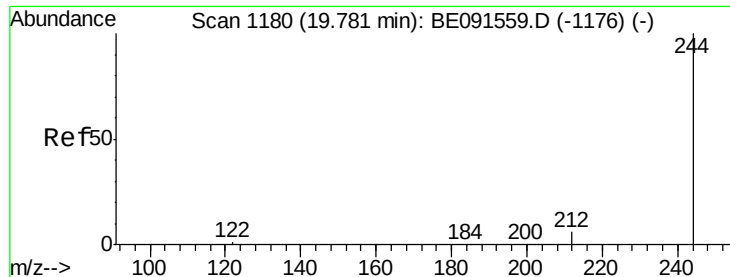


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#24

Terphenyl-d14

Concen: 4.45 ng

RT: 19.76 min Scan# 1180

Delta R.T. -0.02 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

Instrument :

BNA_E

ClientSampleId :

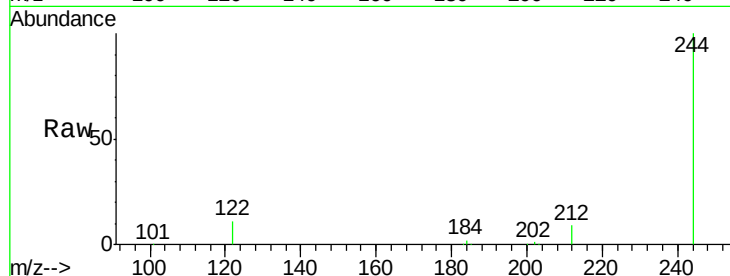
Tot Ion:244 Resp: 205060

Ion Ratio Lower Upper

244 100

212 9.4 5.8 8.8#

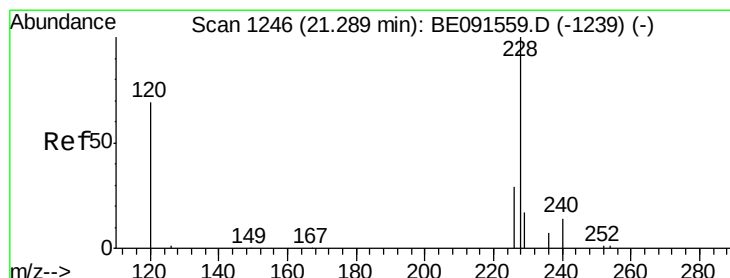
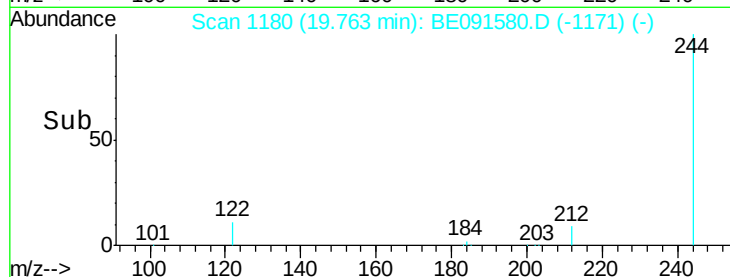
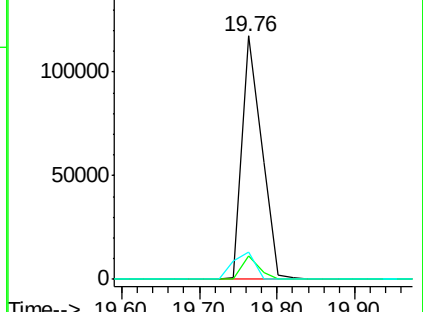
122 11.0 1.8 2.8#



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: BE091580.D

Acq: 31 Mar 2016 12:14

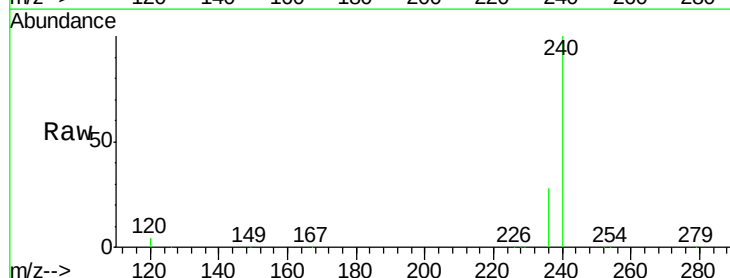
Tgt Ion:228 Resp: 1125

Ion Ratio Lower Upper

228 100

226 15.5 24.0 36.0#

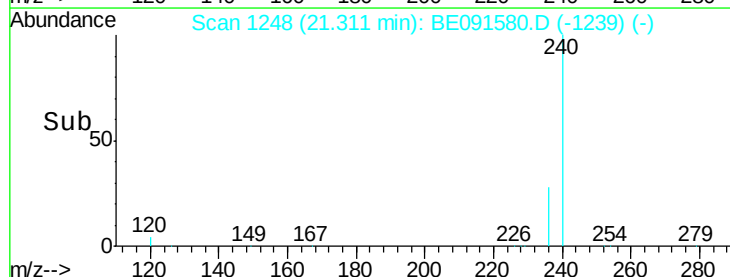
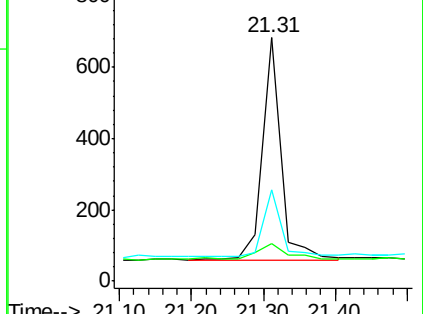
229 37.6 13.8 20.6#

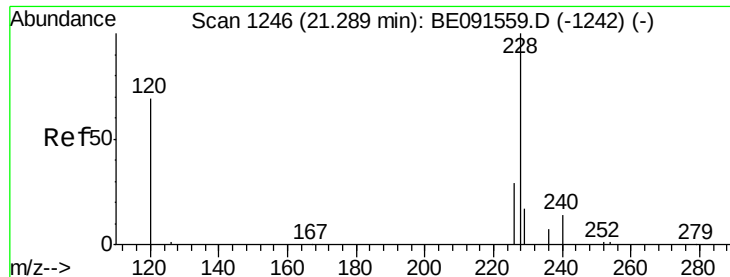


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

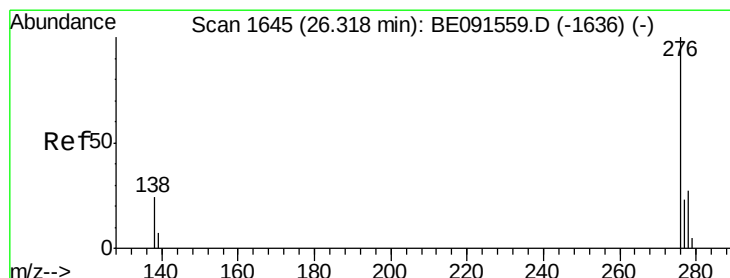
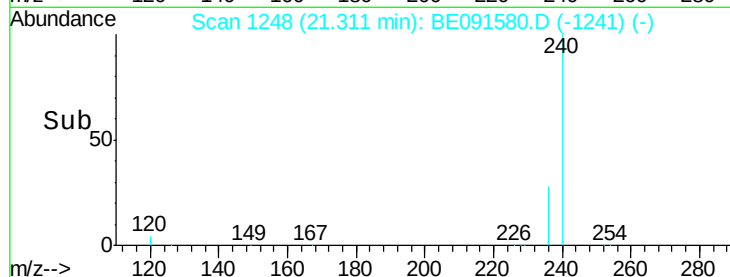
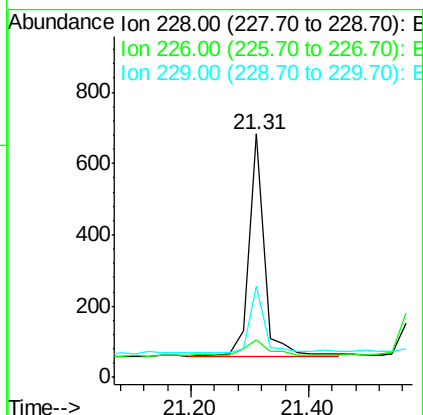
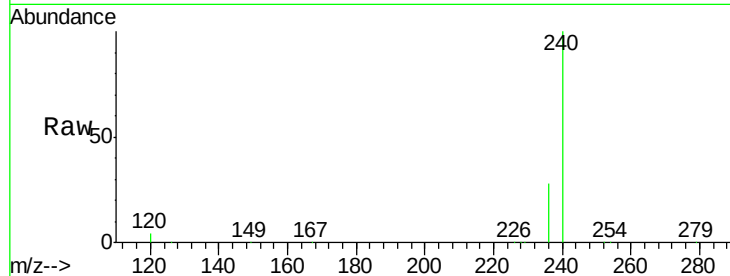




#26
Chrysene
Concen: 0.02 ng
RT: 21.31 min Scan# 1248
Delta R.T. -0.05 min
Lab File: BE091580.D
Acq: 31 Mar 2016 12:14

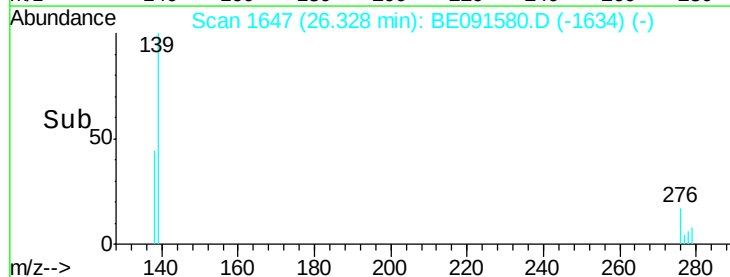
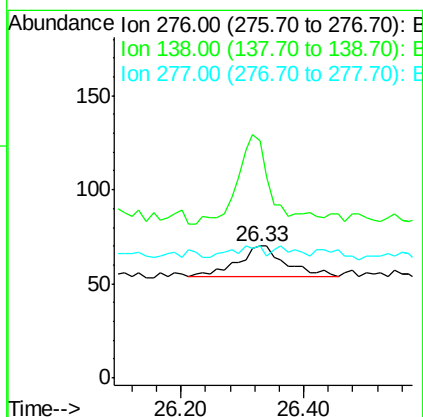
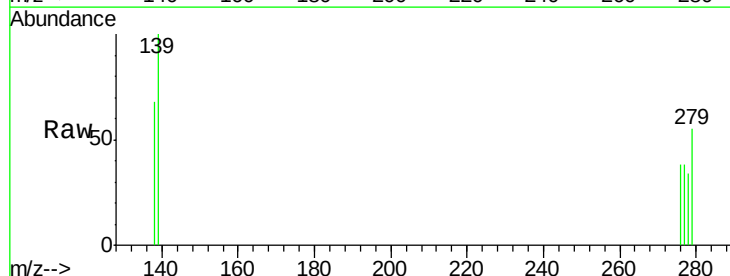
Instrument :
BNA_E
ClientSampleId :

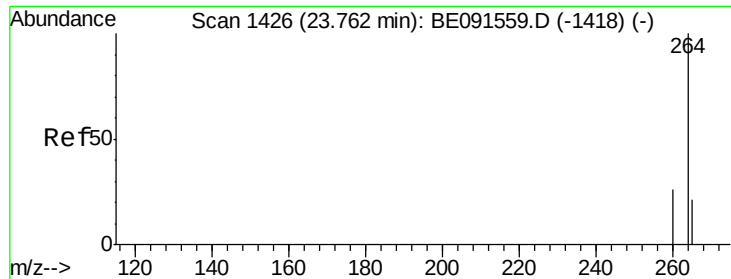
Tot Ion:228 Resp: 1143
Ion Ratio Lower Upper
228 100
226 15.5 18.9 28.3#
229 37.6 19.1 28.7#



#27
Indeno(1,2,3-cd)pyrene
Concen: 0.00 ng
RT: 26.33 min Scan# 1647
Delta R.T. -0.05 min
Lab File: BE091580.D
Acq: 31 Mar 2016 12:14

Tgt Ion:276 Resp: 85
Ion Ratio Lower Upper
276 100
138 194.1 20.2 30.4#
277 0.0 19.8 29.8#

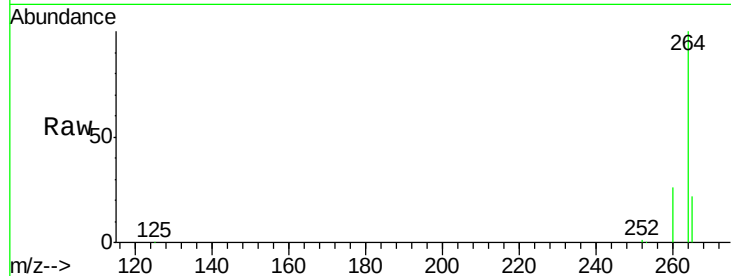




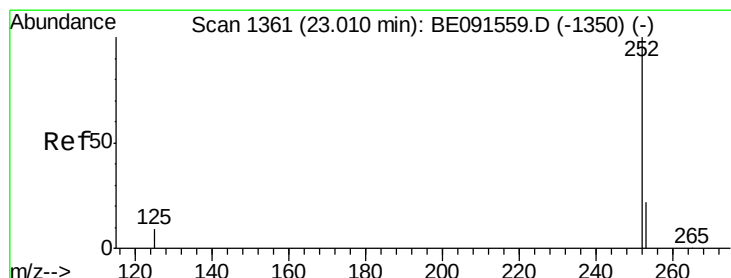
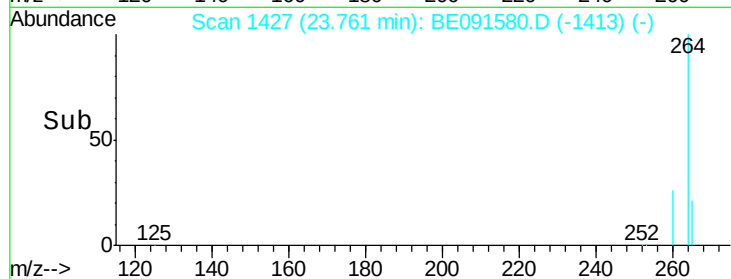
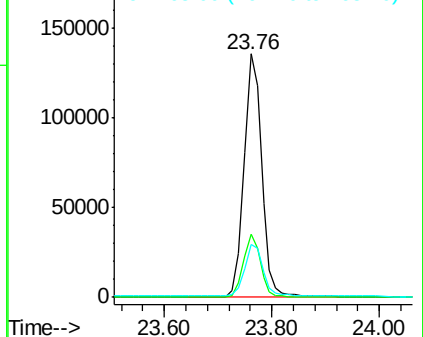
#28
Pervlene-d12
Concen: 5.00 ng
RT: 23.76 min Scan# 1427
Delta R.T. -0.03 min
Lab File: BE091580.D
Acq: 31 Mar 2016 12:14

Instrument :
BNA_E
ClientSampleId :

Tot Ion:264 Resp: 309400
Ion Ratio Lower Upper
264 100
260 25.9 20.1 30.1
265 21.6 18.3 27.5

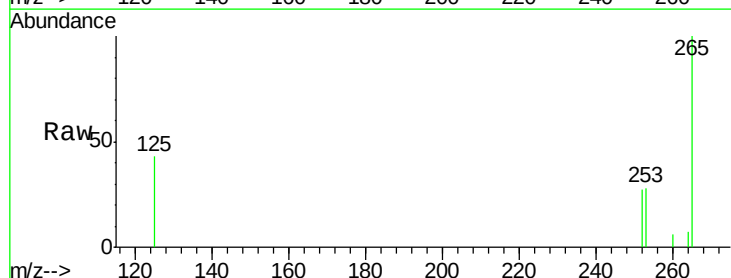


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

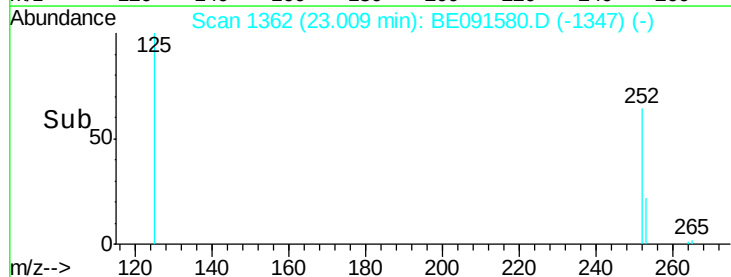
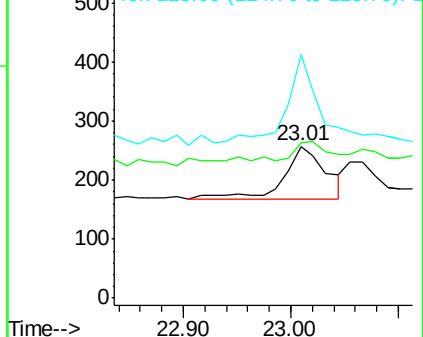


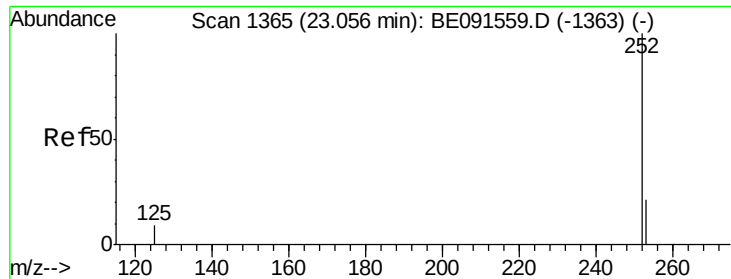
#29
Benzo(b)fluoranthene
Concen: 0.00 ng
RT: 23.01 min Scan# 1362
Delta R.T. -0.02 min
Lab File: BE091580.D
Acq: 31 Mar 2016 12:14

Tgt Ion:252 Resp: 253
Ion Ratio Lower Upper
252 100
253 102.7 18.7 28.1#
125 160.3 9.8 14.6#



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





#30

Benzo(k)fluoranthene

Concen: 0.00 ng

RT: 23.06 min Scan# 1366

Delta R.T. -0.02 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

Instrument :

BNA_E

ClientSampleId :

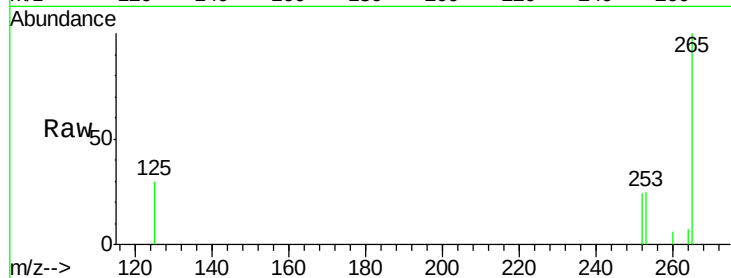
Tot Ion:252 Resp: 169

Ion Ratio Lower Upper

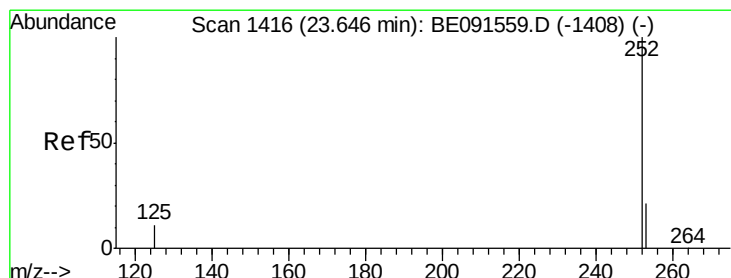
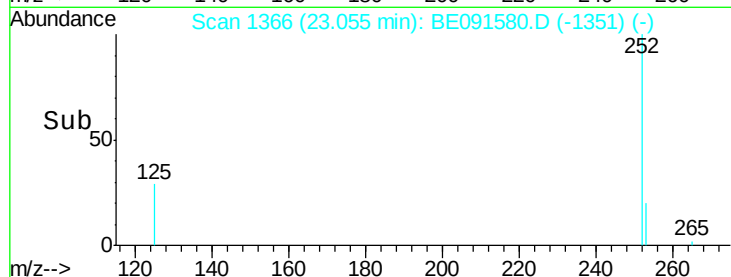
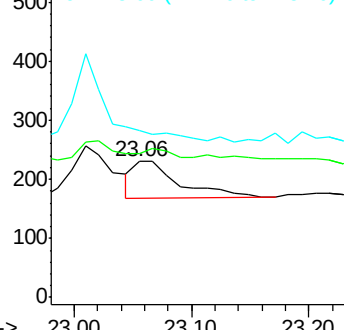
252 100

253 105.7 20.2 30.4#

125 123.0 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: BE091580.D

Acq: 31 Mar 2016 12:14

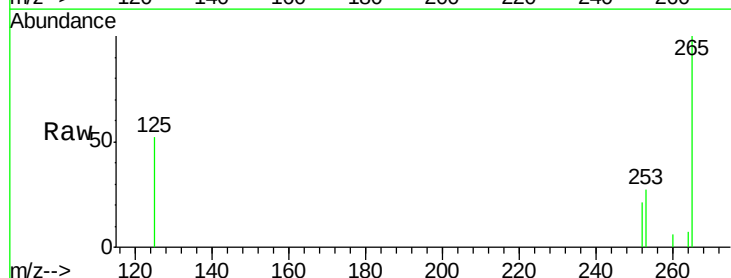
Tgt Ion:252 Resp: 64

Ion Ratio Lower Upper

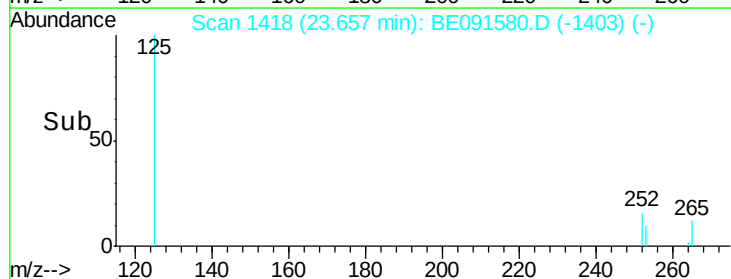
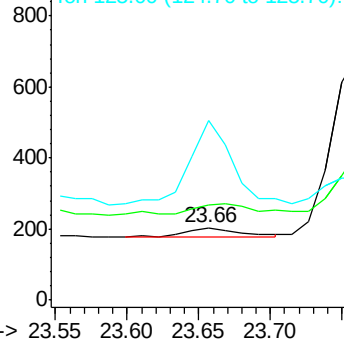
252 100

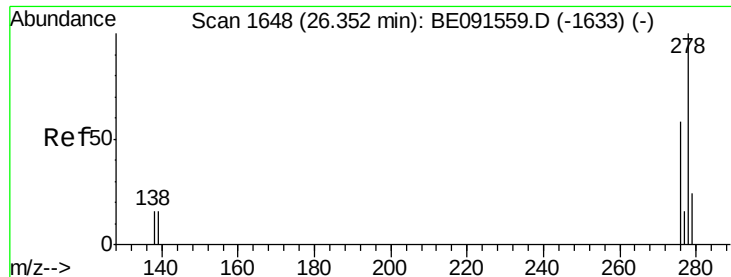
253 130.9 19.4 29.0#

125 247.1 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: BE091580.D

Acq: 31 Mar 2016 12:14

Instrument :

BNA_E

ClientSampleId :

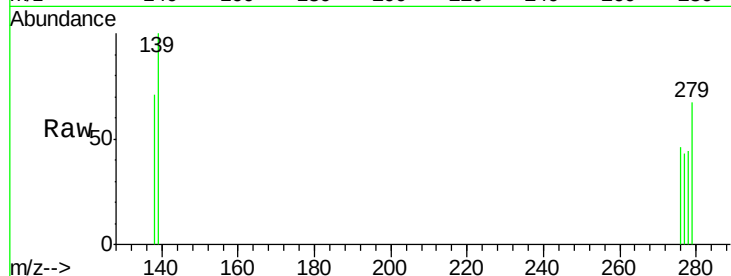
Tot Ion:278 Resp: 62

Ion Ratio Lower Upper

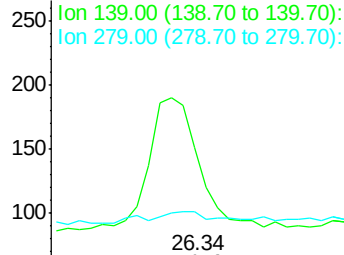
278 100

139 225.4 14.2 21.4#

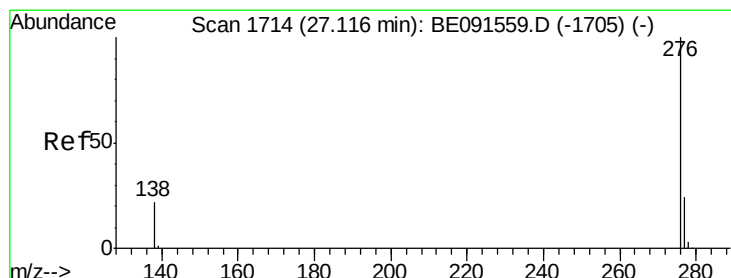
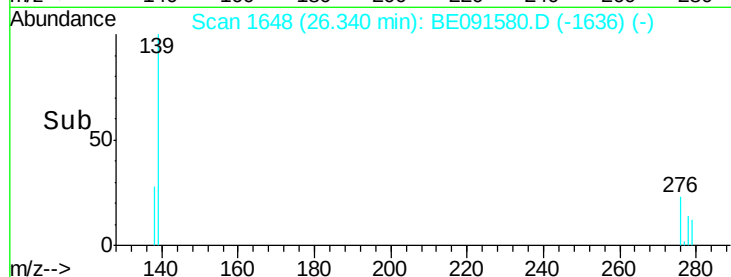
279 150.7 19.6 29.4#



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



Time--> 26.20 26.30 26.40



#33

Benzo(g,h,i)perylene

Concen: 0.00 ng

RT: 27.12 min Scan# 1715

Delta R.T. -0.05 min

Lab File: BE091580.D

Acq: 31 Mar 2016 12:14

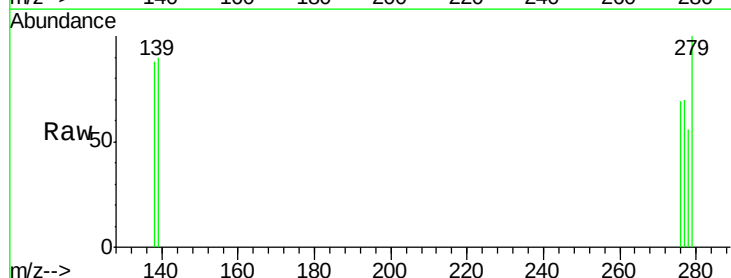
Tgt Ion:276 Resp: 67

Ion Ratio Lower Upper

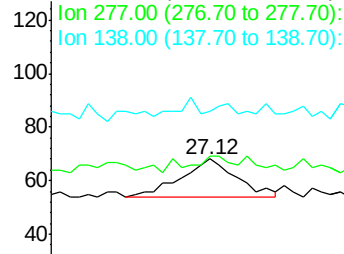
276 100

277 101.5 19.4 29.2#

138 126.5 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



Time--> 27.00 27.10 27.20

