

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032816\
 Data File : BE091550.D
 Acq On : 28 Mar 2016 22:52
 Operator : UM/SJ
 Sample : H1855-10
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SB-6A

Quant Time: Mar 29 01:08:07 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE032516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 25 19:00:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	43435	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	226750	5.00	ng	0.00
10) Acenaphthene-d10	14.43	164	143227	5.00	ng	-0.01
16) Phenanthrene-d10	17.17	188	345516	5.00	ng	0.00
22) Chrysene-d12	21.33	240	361885	5.00	ng	0.00
28) Perylene-d12	23.78	264	393486	5.00	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	52310	6.18	ng	-0.02
5) Phenol-d6	6.97	99	81630	7.06	ng	-0.02
7) Nitrobenzene-d5	8.97	82	33812	3.43	ng	-0.01
11) 2,4,6-Tribromophenol	15.91	330	24270	9.96	ng	-0.01
12) 2-Fluorobiphenyl	13.06	172	114045	2.83	ng	-0.01
24) Terphenyl-d14	19.78	244	189712	3.19	ng	0.00

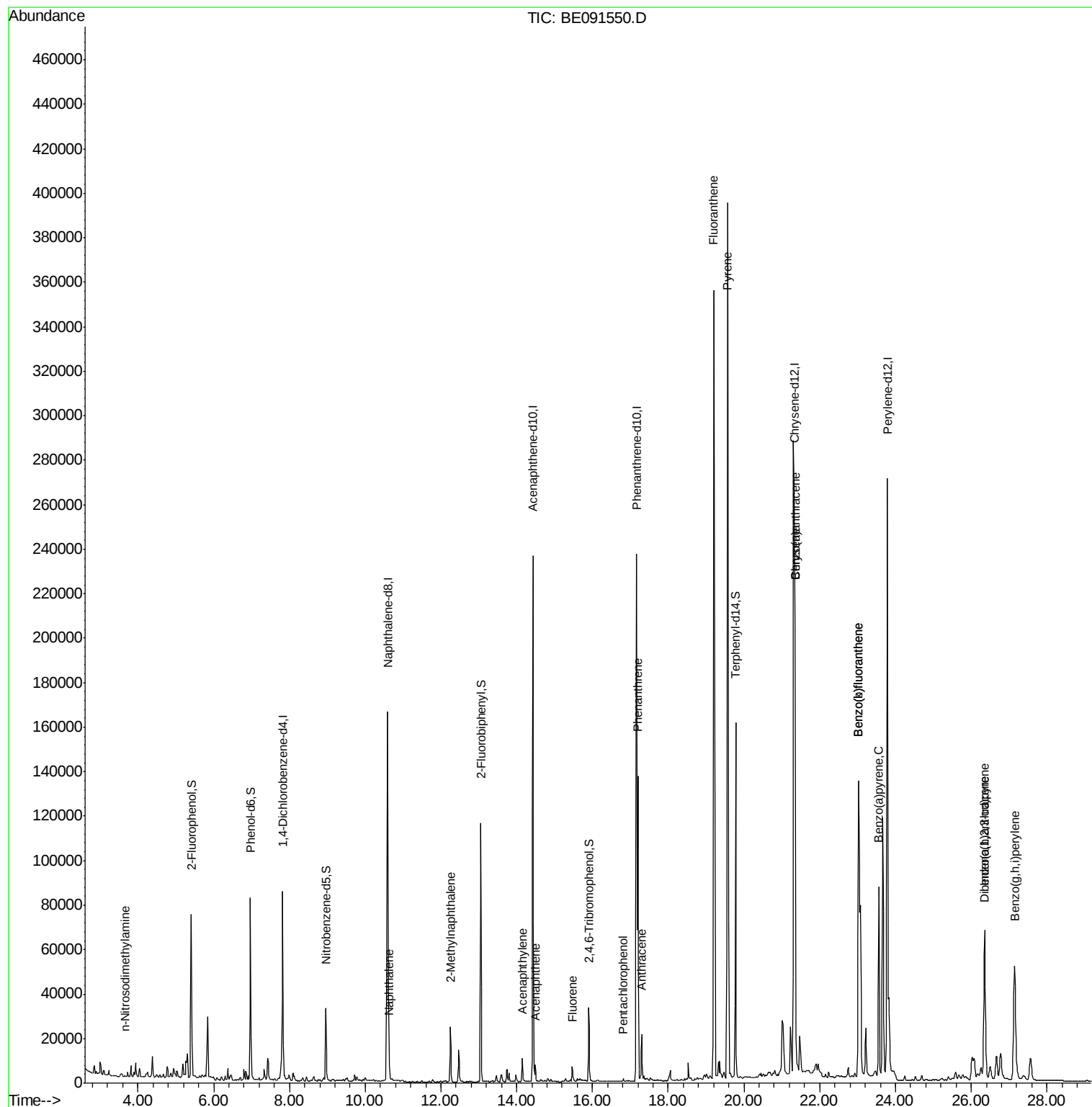
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.66	42	237	0.13	ng	# 8
8) Naphthalene	10.63	128	16376	0.36	ng	# 96
9) 2-Methylnaphthalene	12.25	142	18044	0.63	ng	# 91
13) Acenaphthylene	14.15	152	15278	0.30	ng	# 84
14) Acenaphthene	14.49	154	3784	0.11	ng	# 84
15) Fluorene	15.47	166	6023	0.14	ng	# 92
18) Pentachlorophenol	16.81	266	944	0.40	ng	95
19) Phenanthrene	17.21	178	142035	1.79	ng	100
20) Anthracene	17.30	178	24994	0.38	ng	97
21) Fluoranthene	19.21	202	406035	5.49	ng	99
23) Pyrene	19.57	202	392867	4.60	ng	95
25) Benzo(a)anthracene	21.36	228	398234	4.77	ng	# 97
26) Chrysene	21.36	228	398584	3.63	ng	# 91
27) Indeno(1,2,3-cd)pyrene	26.35	276	124737	1.46	ng	96
29) Benzo(b)fluoranthene	23.02	252	367641	4.21	ng	96
30) Benzo(k)fluoranthene	23.02	252	367641	4.22	ng	94
31) Benzo(a)pyrene	23.56	252	134793	1.67	ng	98
32) Dibenzo(a,h)anthracene	26.36	278	28768	0.37	ng	98
33) Benzo(g,h,i)perylene	27.15	276	129492	1.60	ng	99

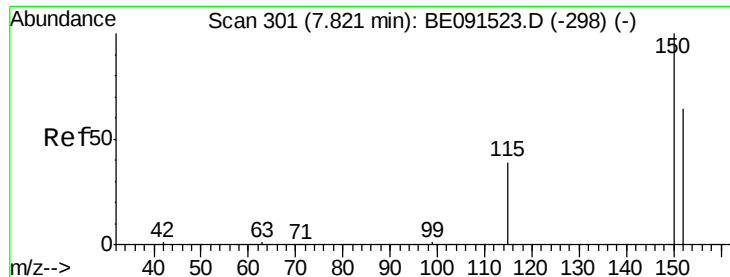
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.82 min Scan# 301

Delta R.T. 0.00 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

SB-6A

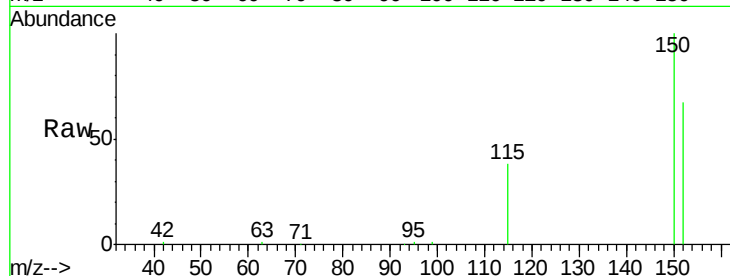
Tgt Ion:152 Resp: 43435

Ion Ratio Lower Upper

152 100

150 150.1 122.2 183.2

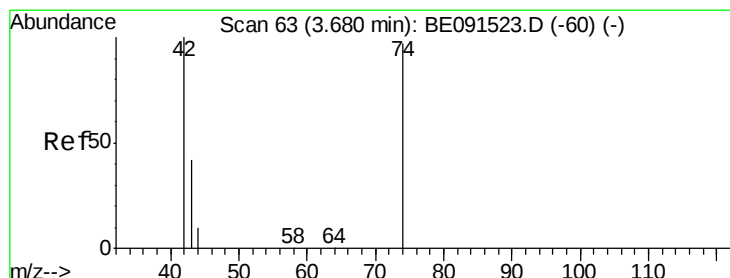
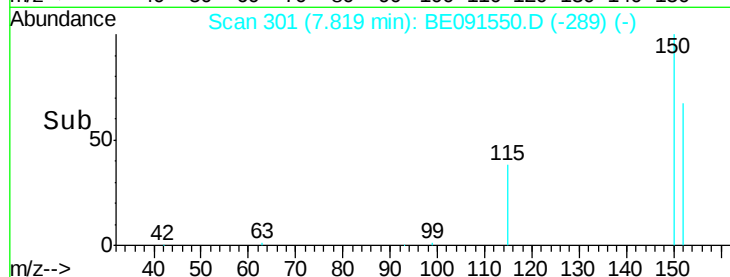
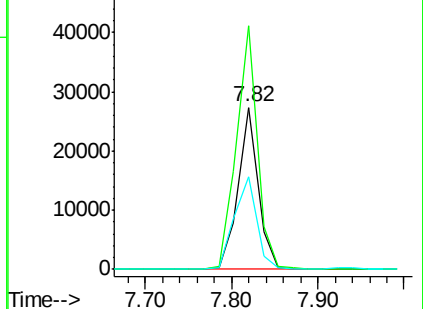
115 57.2 45.9 68.9



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: 0.13 ng

RT: 3.66 min Scan# 62

Delta R.T. -0.02 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

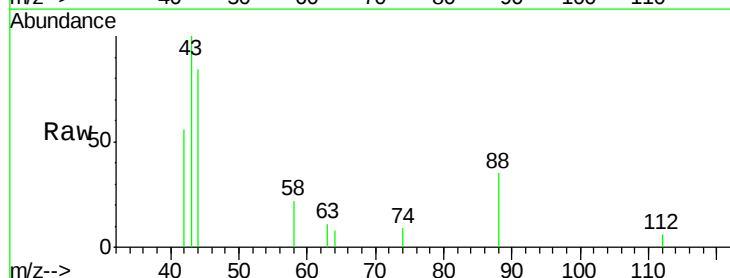
Tgt Ion: 42 Resp: 237

Ion Ratio Lower Upper

42 100

74 5.1 84.3 126.5#

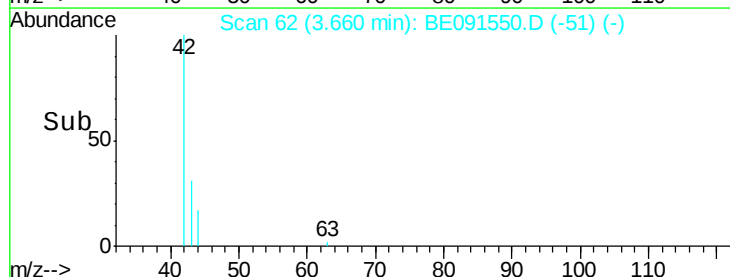
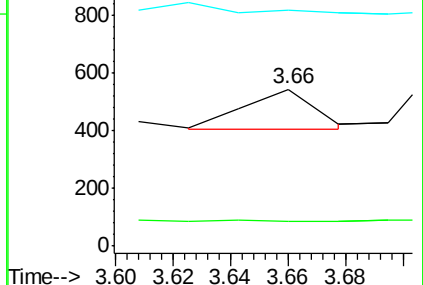
44 0.0 6.7 10.1#

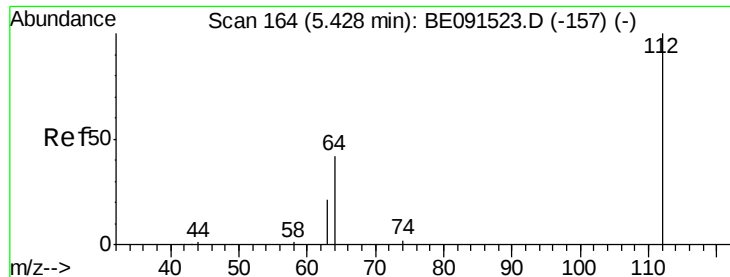


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 6.18 ng

RT: 5.41 min Scan# 163

Delta R.T. -0.02 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

SB-6A

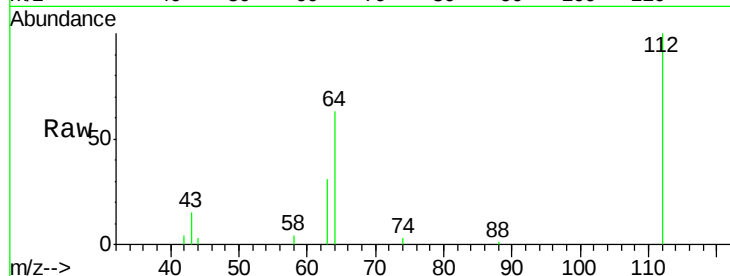
Tgt Ion: 112 Resp: 52310

Ion Ratio Lower Upper

112 100

64 67.1 53.3 79.9

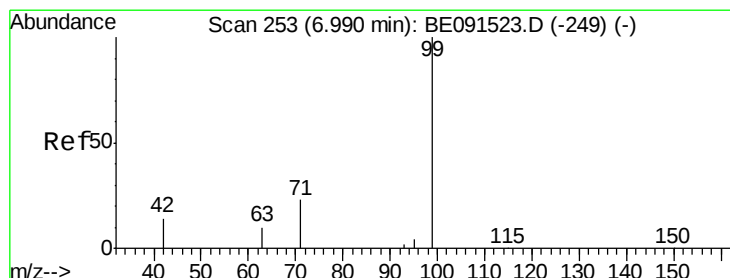
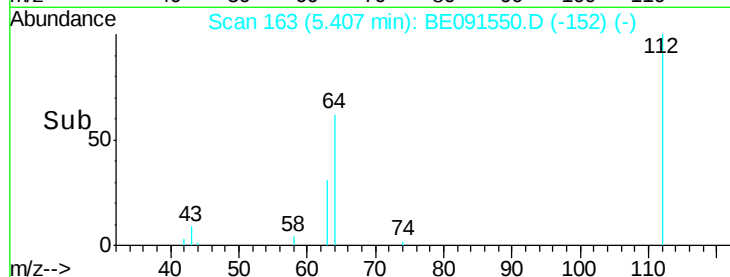
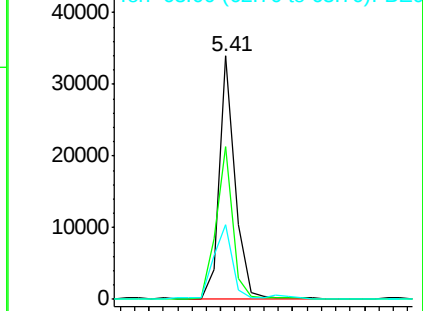
63 36.0 29.8 44.8



Abundance Ion 112.00 (111.70 to 112.70): BE091523.D (-157) (-)

Ion 64.00 (63.70 to 64.70): BE091523.D (-157) (-)

Ion 63.00 (62.70 to 63.70): BE091523.D (-157) (-)



#5

Phenol-d6

Concen: 7.06 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

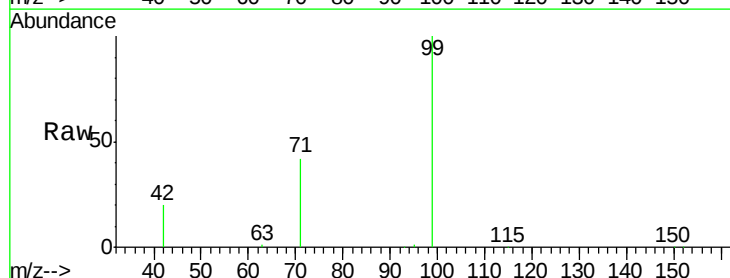
Tgt Ion: 99 Resp: 81630

Ion Ratio Lower Upper

99 100

42 27.4 20.6 30.8

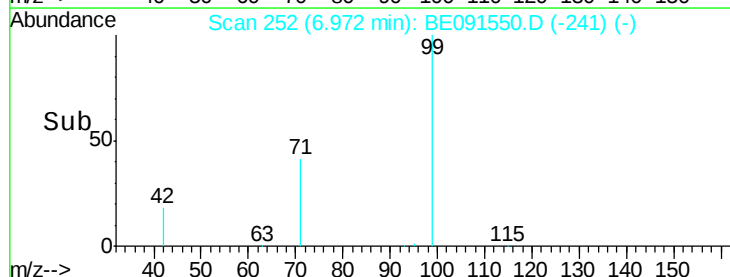
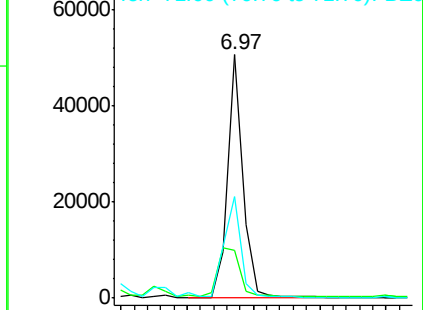
71 45.3 29.0 43.4#

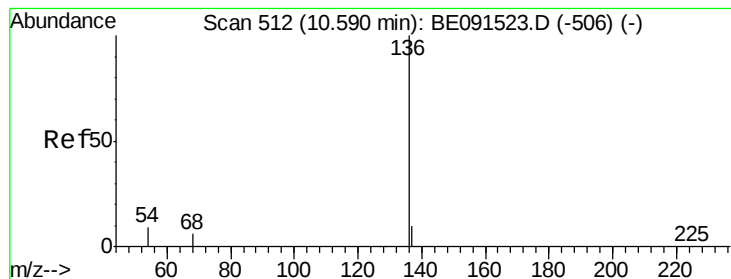


Abundance Ion 99.00 (98.70 to 99.70): BE091523.D (-249) (-)

Ion 42.00 (41.70 to 42.70): BE091523.D (-249) (-)

Ion 71.00 (70.70 to 71.70): BE091523.D (-249) (-)





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

SB-6A

Tgt Ion: 136 Resp: 226750

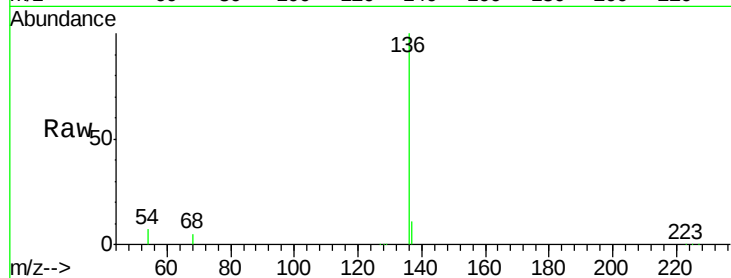
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 7.5 5.2 7.8

68 5.5 4.1 6.1

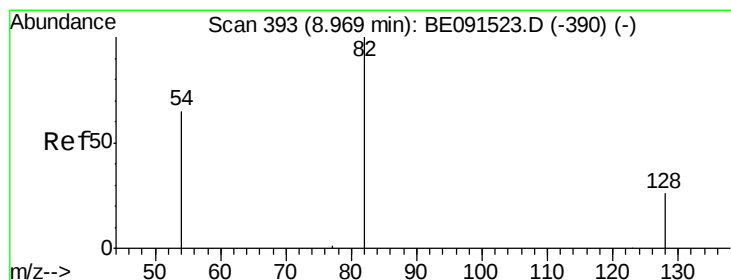
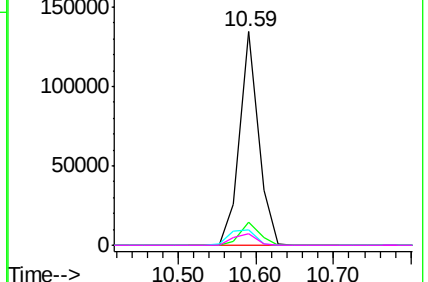
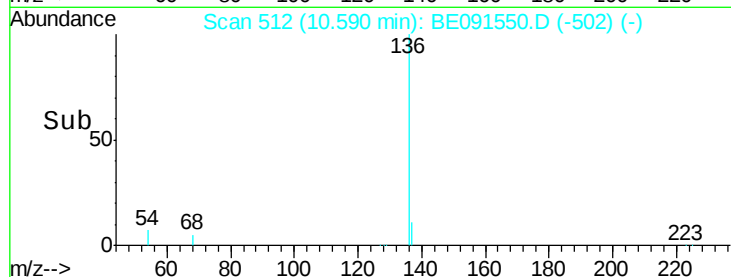


Abundance Ion 136.00 (135.70 to 136.70): E

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: 3.43 ng

RT: 8.97 min Scan# 393

Delta R.T. -0.01 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

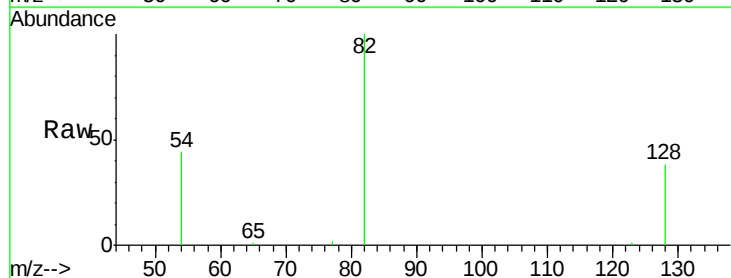
Tgt Ion: 82 Resp: 33812

Ion Ratio Lower Upper

82 100

128 37.5 23.5 35.3#

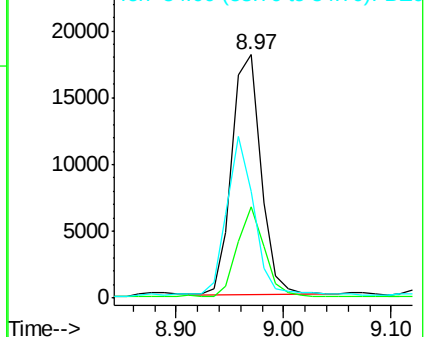
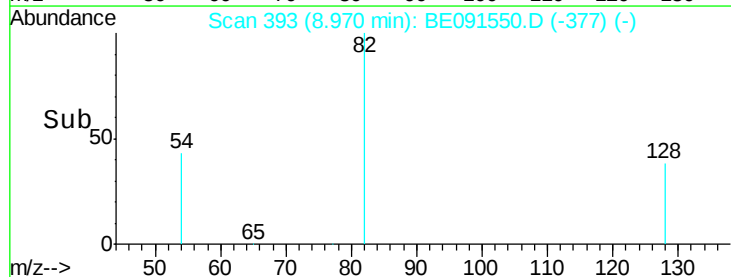
54 43.6 52.4 78.6#

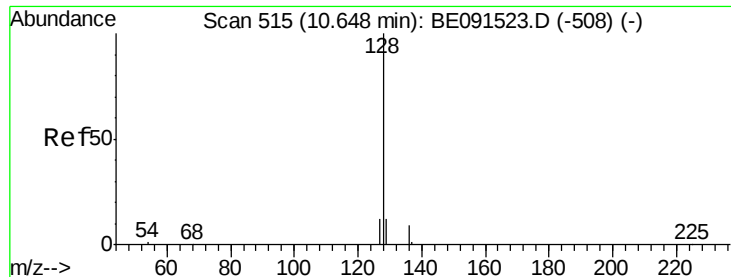


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Naphthalene

Concen: 0.36 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

SB-6A

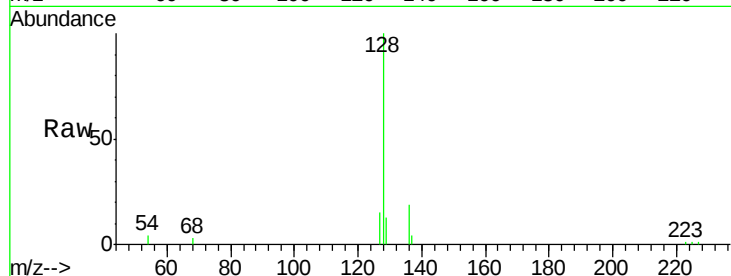
Tgt Ion:128 Resp: 16376

Ion Ratio Lower Upper

128 100

129 12.7 8.2 12.2#

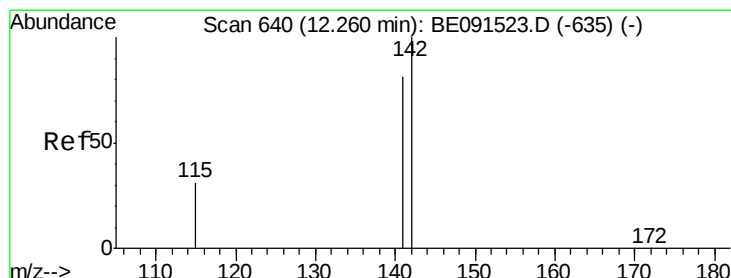
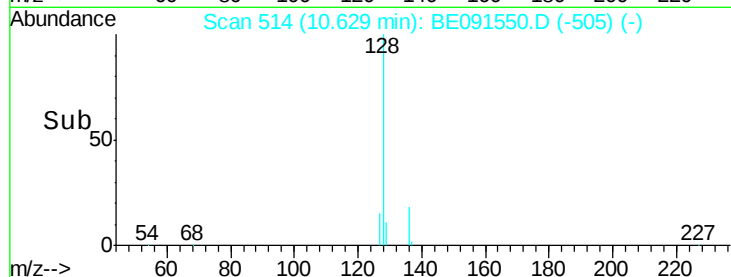
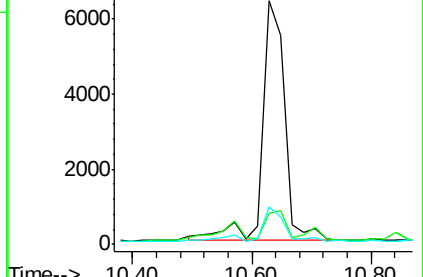
127 15.5 11.8 17.8



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: 0.63 ng

RT: 12.25 min Scan# 639

Delta R.T. -0.01 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

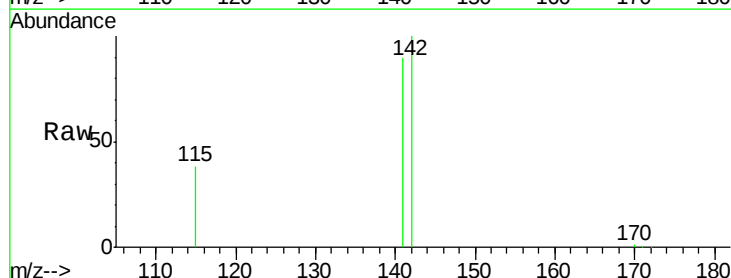
Tgt Ion:142 Resp: 18044

Ion Ratio Lower Upper

142 100

141 90.5 66.9 100.3

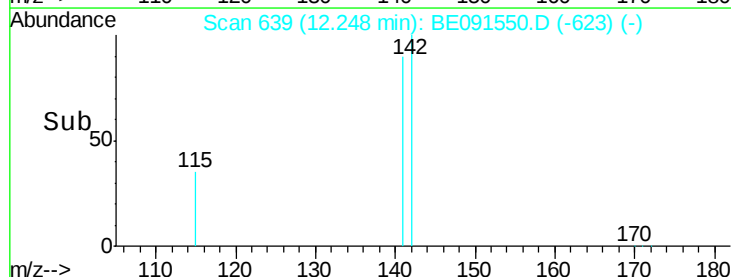
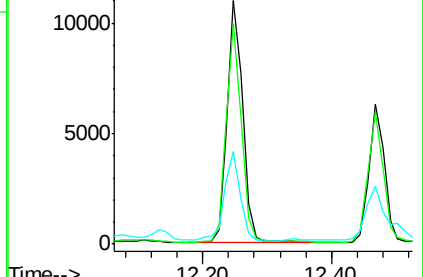
115 37.9 25.1 37.7#

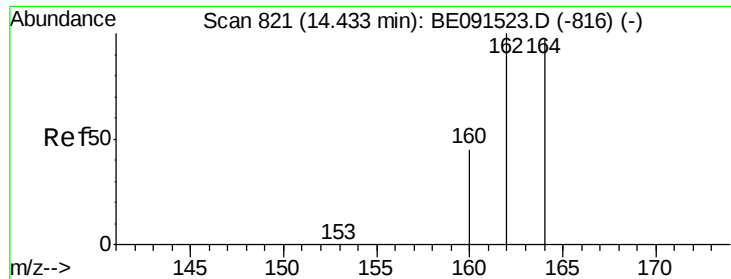


Abundance Ion 142.00 (141.70 to 142.70): E

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: 14.43 min Scan# 821

Delta R.T. -0.01 min

Lab File: BE091550.D

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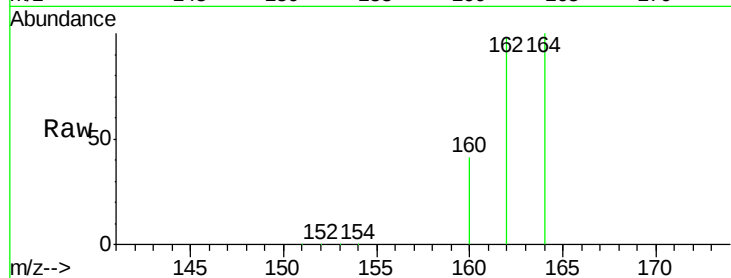
Tgt Ion:164 Resp: 143227

Ion Ratio Lower Upper

164 100

162 98.3 84.4 126.6

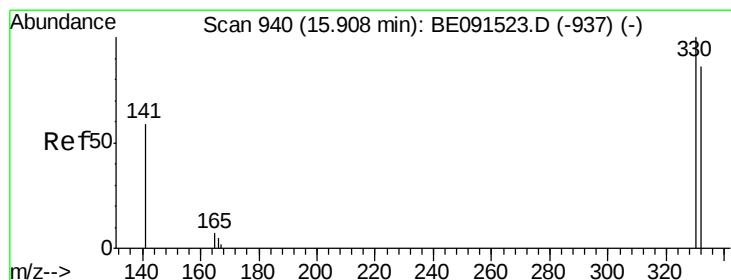
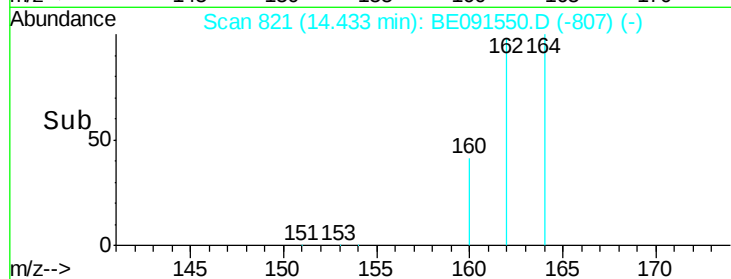
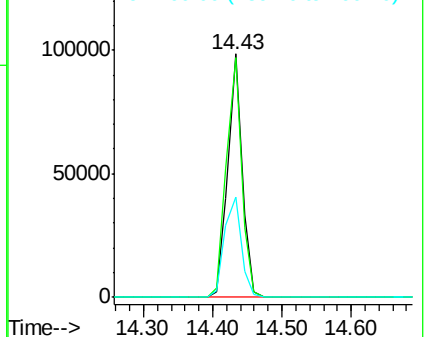
160 41.4 37.7 56.5



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: 9.96 ng

RT: 15.91 min Scan# 940

Delta R.T. -0.01 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

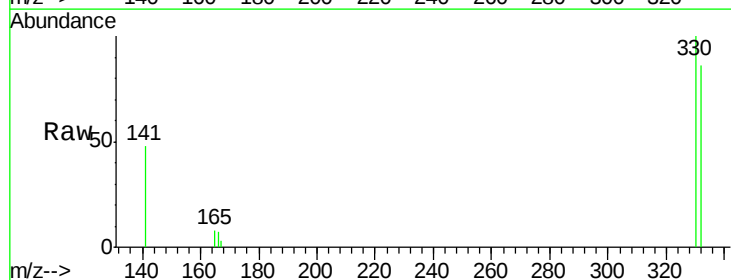
Tgt Ion:330 Resp: 24270

Ion Ratio Lower Upper

330 100

332 96.2 79.2 118.8

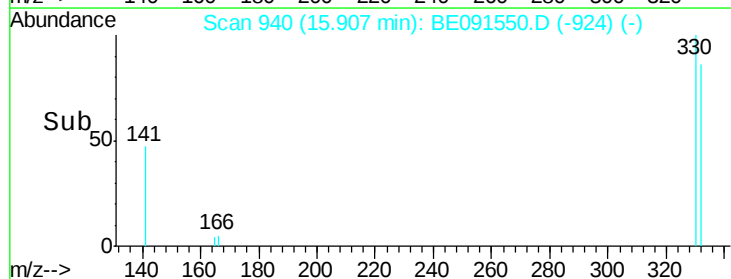
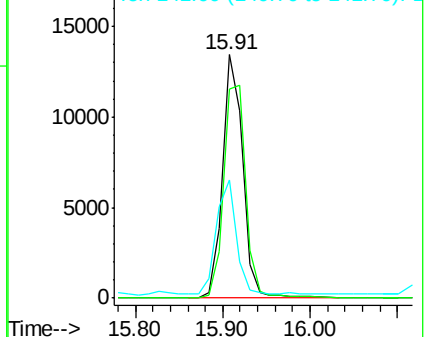
141 40.8 28.1 42.1

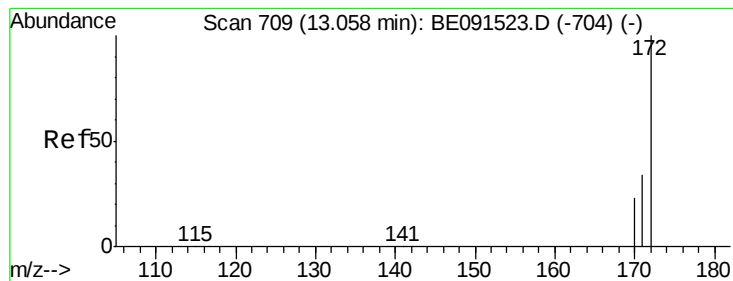


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#12

2-Fluorobiphenyl

Concen: 2.83 ng

RT: 13.06 min Scan# 709

Delta R.T. -0.01 min

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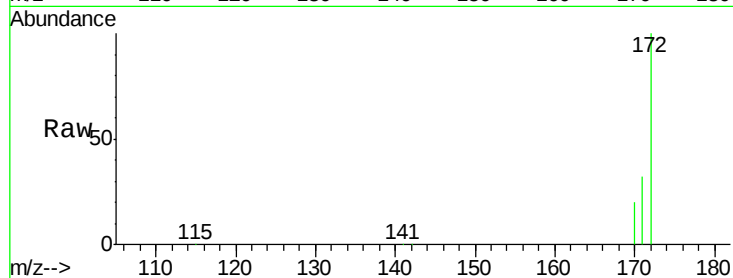
Tgt Ion:172 Resp: 114045

Ion Ratio Lower Upper

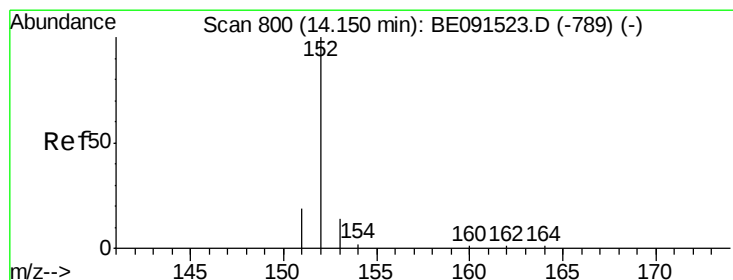
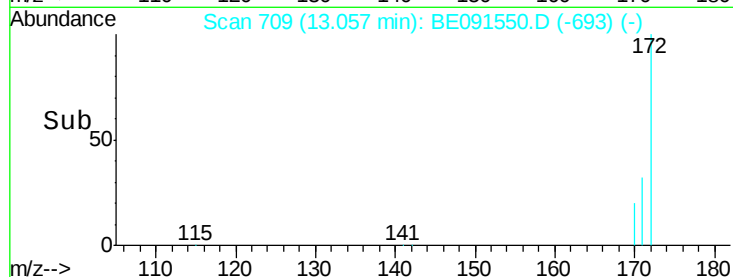
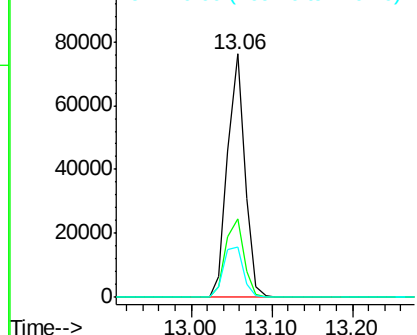
172 100

171 32.2 29.8 44.8

170 20.5 21.4 32.2#



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



#13

Acenaphthylene

Concen: 0.30 ng

RT: 14.15 min Scan# 800

Delta R.T. 0.00 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

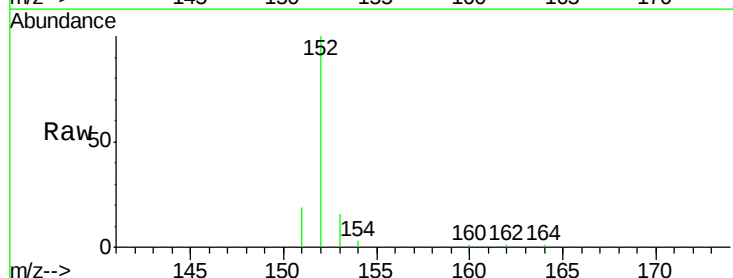
Tgt Ion:152 Resp: 15278

Ion Ratio Lower Upper

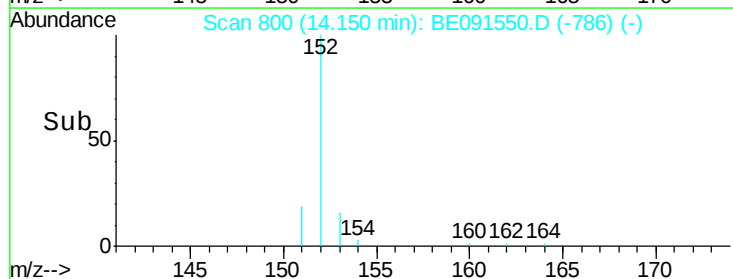
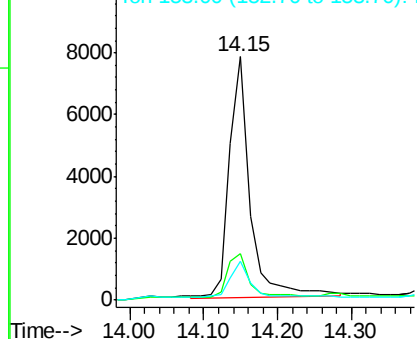
152 100

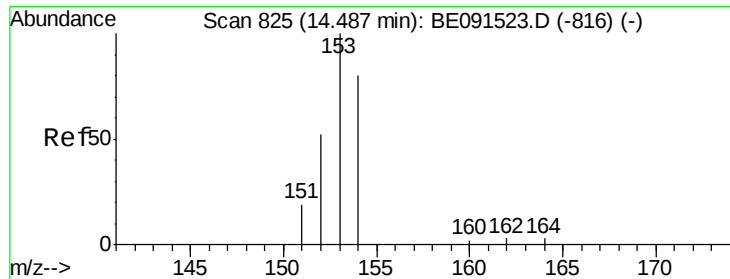
151 30.8 16.3 24.5#

153 16.6 11.1 16.7



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





#14

Acenaphthene

Concen: 0.11 ng

RT: 14.49 min Scan# 825

Delta R.T. -0.01 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

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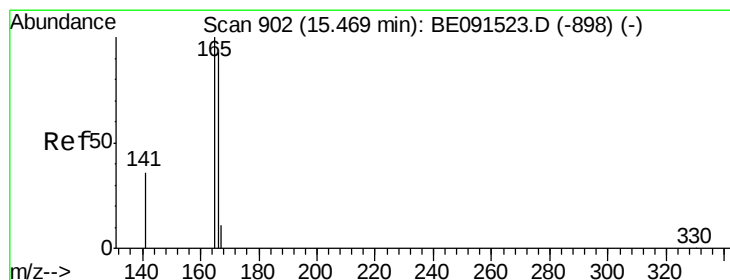
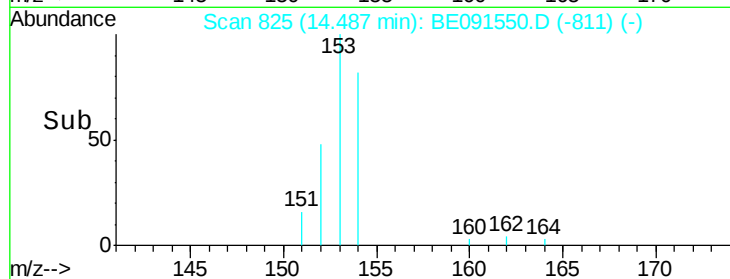
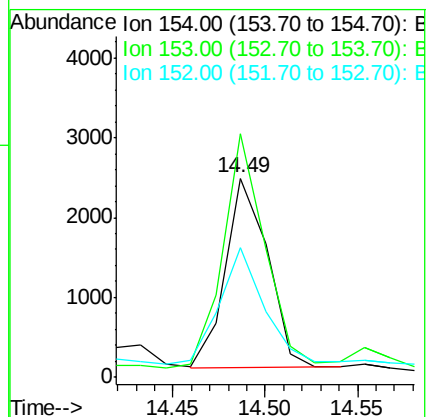
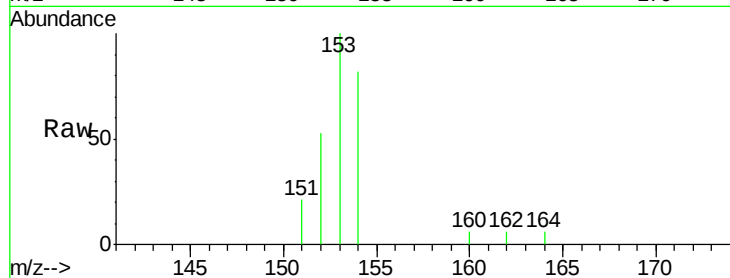
Tgt Ion:154 Resp: 3784

Ion Ratio Lower Upper

154 100

153 122.8 87.3 130.9

152 70.0 42.9 64.3#



#15

Fluorene

Concen: 0.14 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

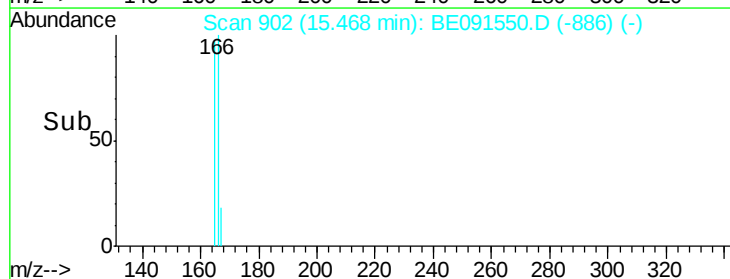
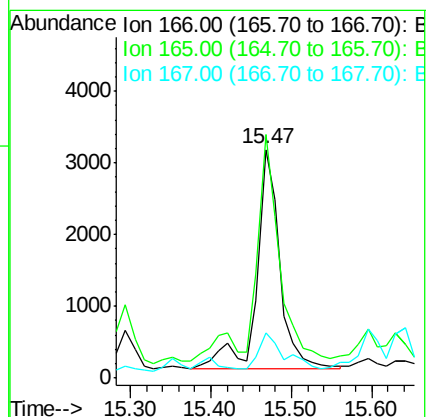
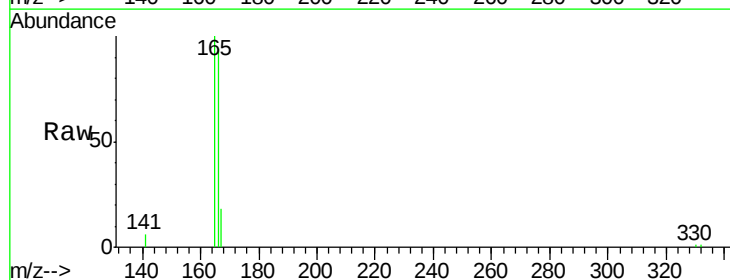
Tgt Ion:166 Resp: 6023

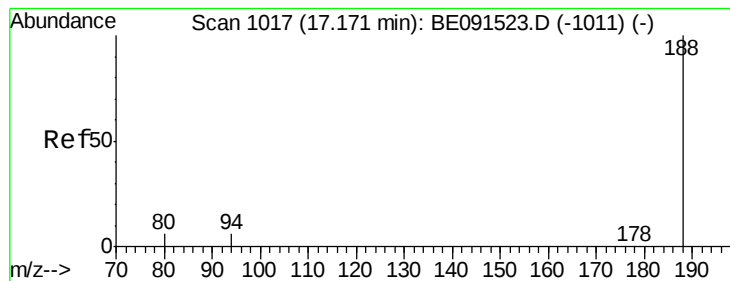
Ion Ratio Lower Upper

166 100

165 90.9 79.2 118.8

167 17.6 10.8 16.2#

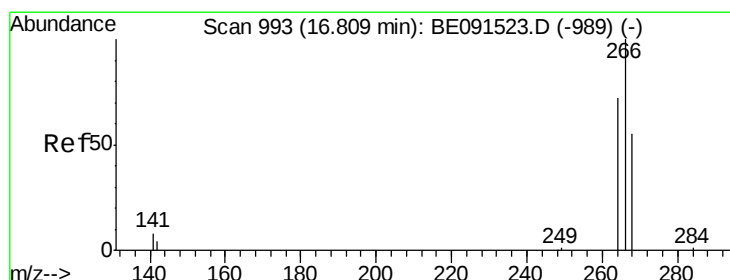
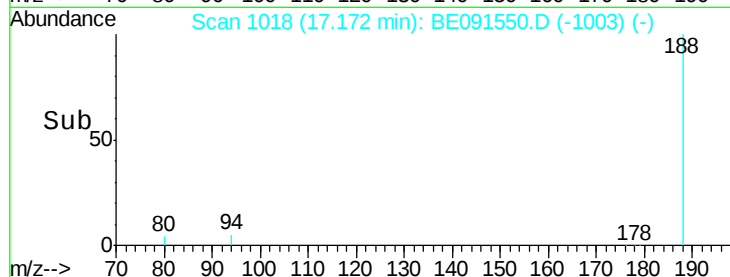
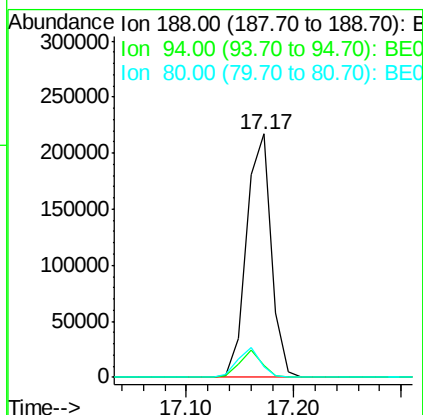
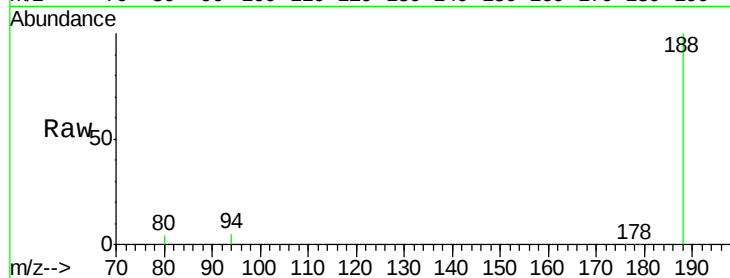




#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.17 min Scan# 1018
Delta R.T. -0.00 min
Lab File: BE091550.D
Acq: 28 Mar 2016 22:52

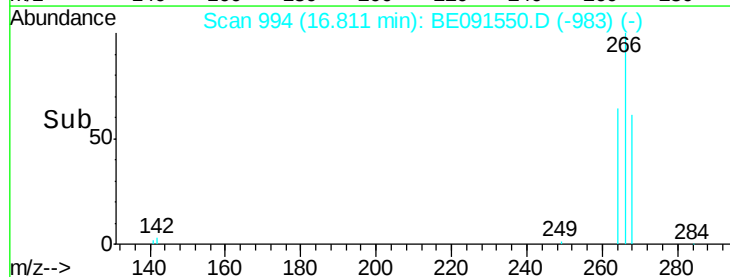
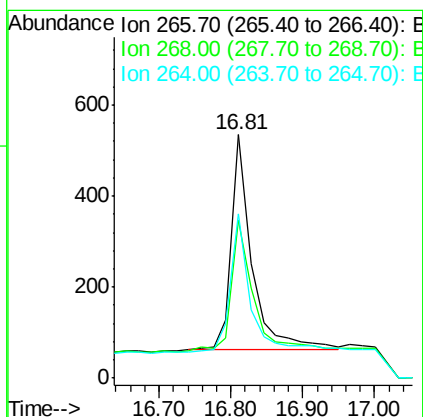
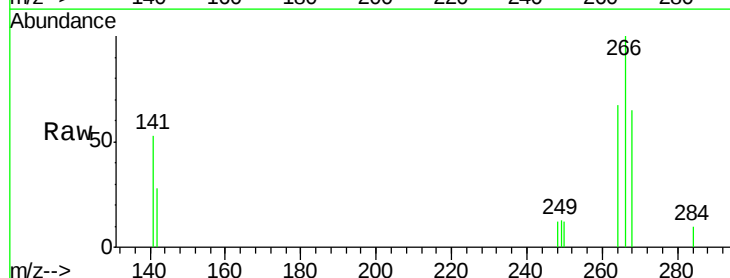
Instrument :
BNA_E
ClientSampleId :
SB-6A

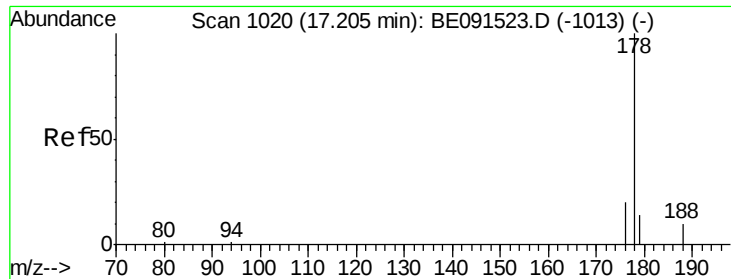
Tgt Ion:188 Resp: 345516
Ion Ratio Lower Upper
188 100
94 4.9 5.4 8.2#
80 4.2 5.0 7.4#



#18
Pentachlorophenol
Concen: 0.40 ng
RT: 16.81 min Scan# 994
Delta R.T. -0.02 min
Lab File: BE091550.D
Acq: 28 Mar 2016 22:52

Tgt Ion:266 Resp: 944
Ion Ratio Lower Upper
266 100
268 65.0 48.2 72.2
264 67.3 52.1 78.1





#19

Phenanthrene

Concen: 1.79 ng

RT: 17.21 min Scan# 1021

Delta R.T. -0.00 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

SB-6A

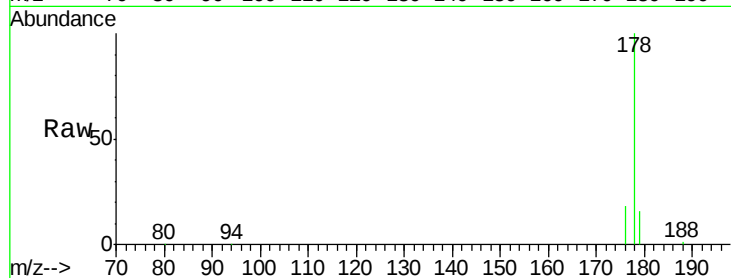
Tgt Ion:178 Resp: 142035

Ion Ratio Lower Upper

178 100

176 19.4 15.5 23.3

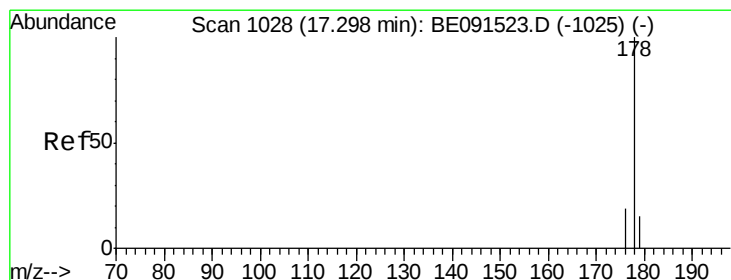
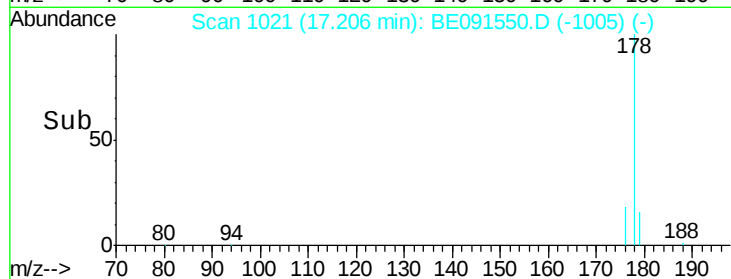
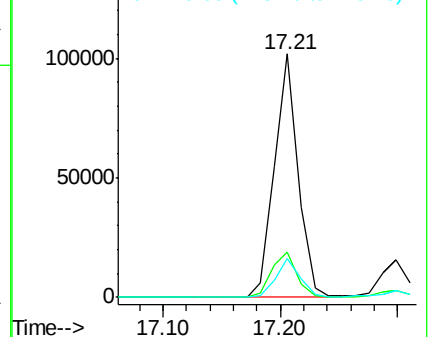
179 16.0 13.1 19.7



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: 0.38 ng

RT: 17.30 min Scan# 1029

Delta R.T. -0.00 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

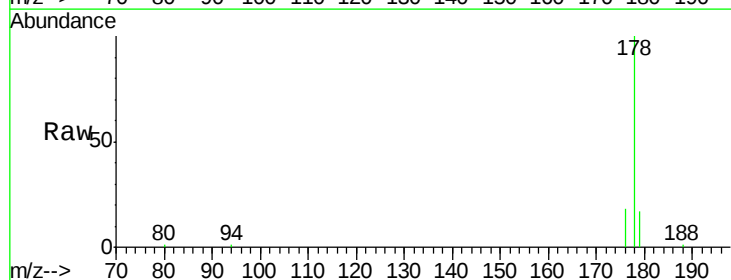
Tgt Ion:178 Resp: 24994

Ion Ratio Lower Upper

178 100

176 18.3 14.9 22.3

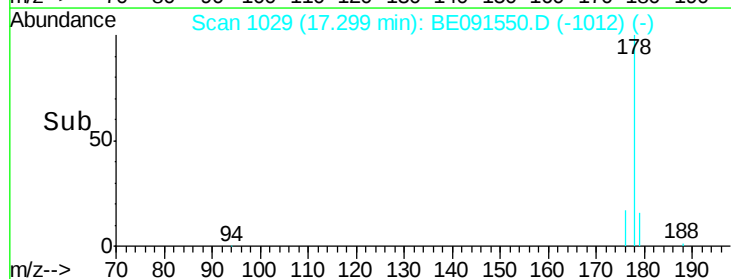
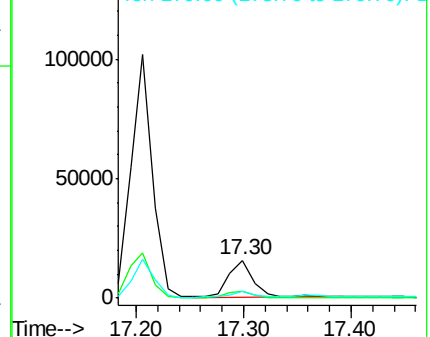
179 13.2 12.2 18.4

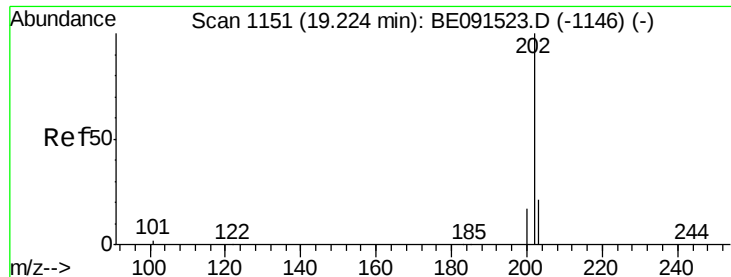


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

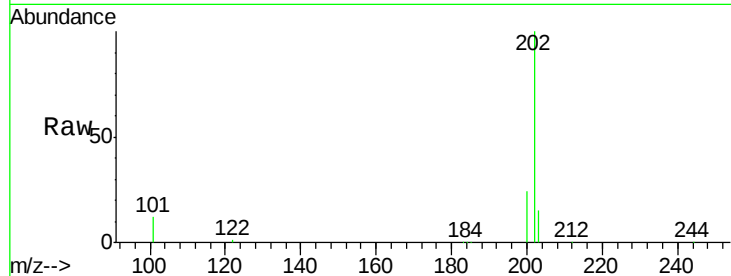




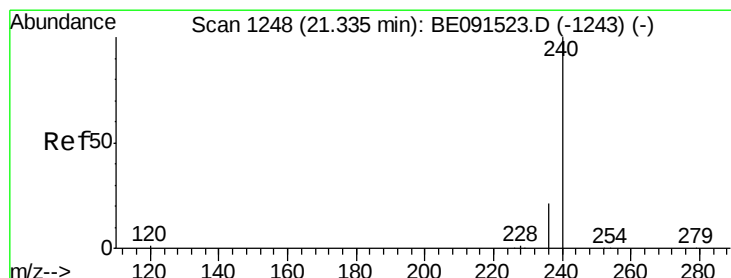
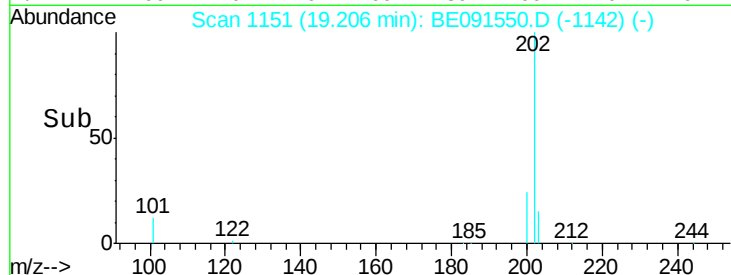
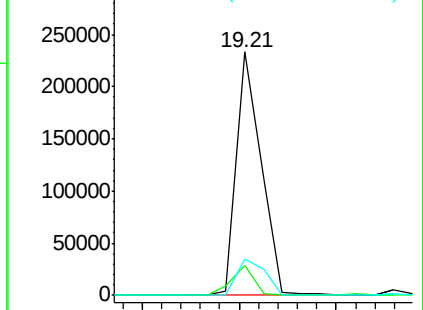
#21
Fluoranthene
Concen: 5.49 ng
RT: 19.21 min Scan# 1151
Delta R.T. -0.02 min
Lab File: BE091550.D
Acq: 28 Mar 2016 22:52

Instrument :
BNA_E
ClientSampleId :
SB-6A

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.8	8.3	12.5
203	17.2	13.9	20.9

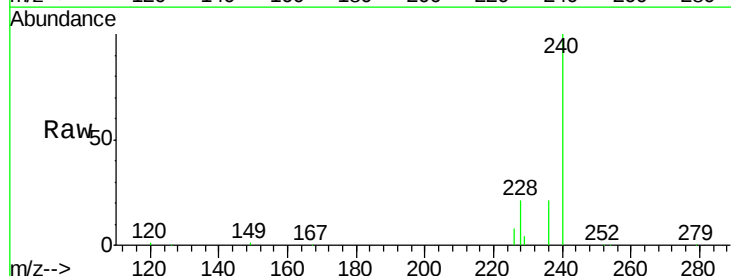


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

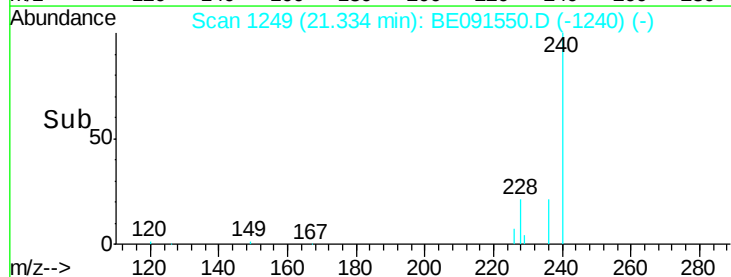
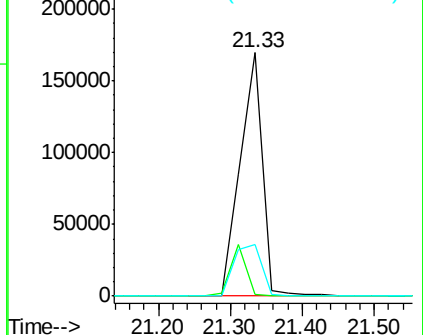


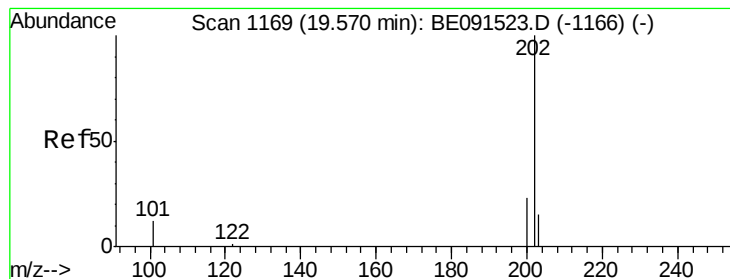
#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.33 min Scan# 1249
Delta R.T. -0.00 min
Lab File: BE091550.D
Acq: 28 Mar 2016 22:52

Tgt Ion	Ratio	Lower	Upper
240	100		
120	0.8	4.0	6.0#
236	21.1	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: 4.60 ng

RT: 19.57 min Scan# 1170

Delta R.T. 0.00 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

SB-6A

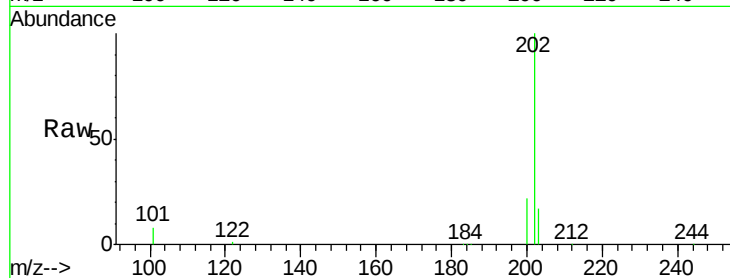
Tgt Ion:202 Resp: 392867

Ion Ratio Lower Upper

202 100

200 21.7 16.4 24.6

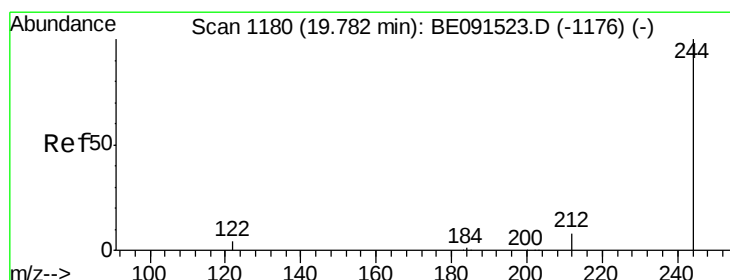
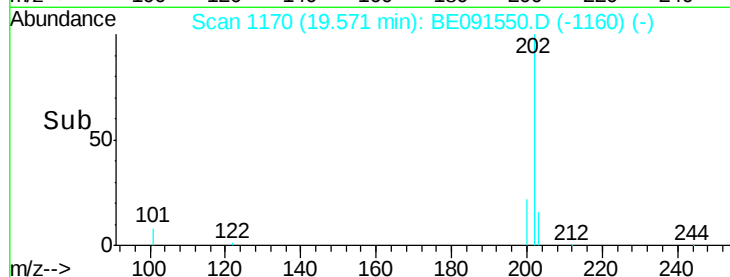
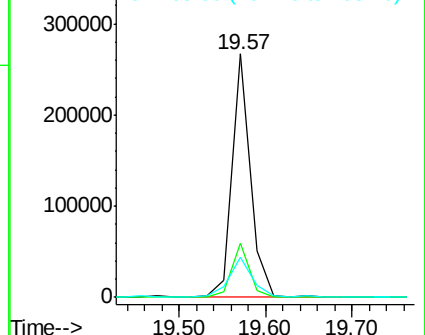
203 21.4 14.6 21.8



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: 3.19 ng

RT: 19.78 min Scan# 1181

Delta R.T. 0.00 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

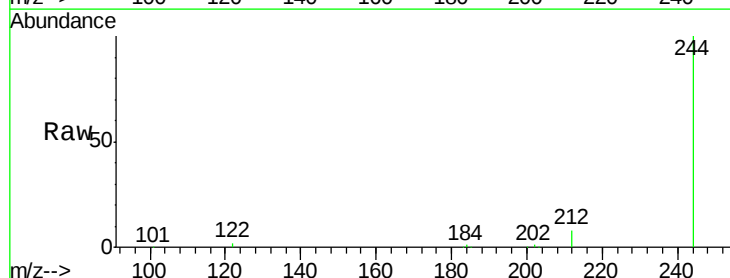
Tgt Ion:244 Resp: 189712

Ion Ratio Lower Upper

244 100

212 7.9 5.8 8.8

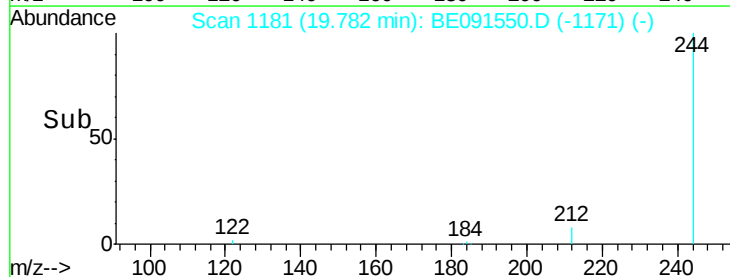
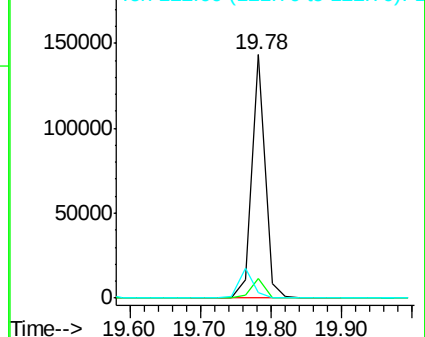
122 2.1 1.8 2.8

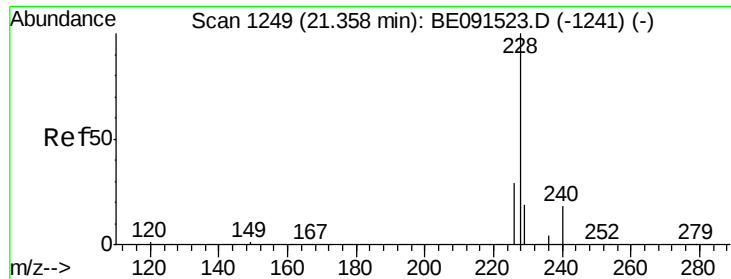


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

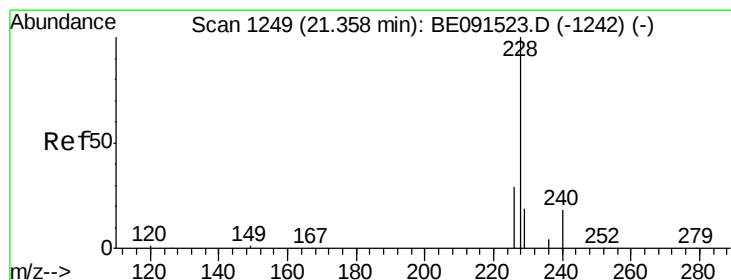
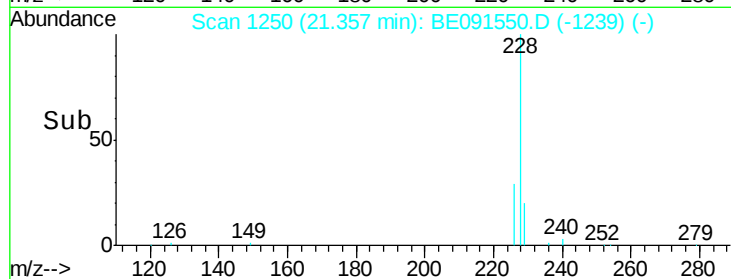
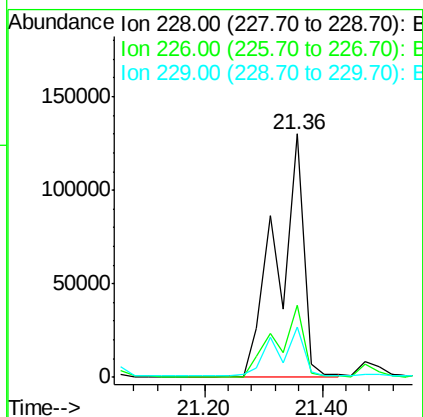
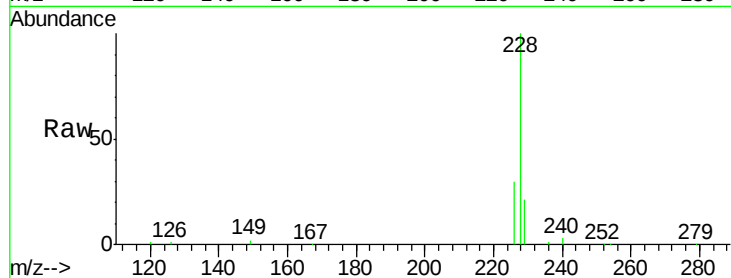




#25
Benzo(a)anthracene
Concen: 4.77 ng
RT: 21.36 min Scan# 1250
Delta R.T. 0.04 min
Lab File: BE091550.D
Acq: 28 Mar 2016 22:52

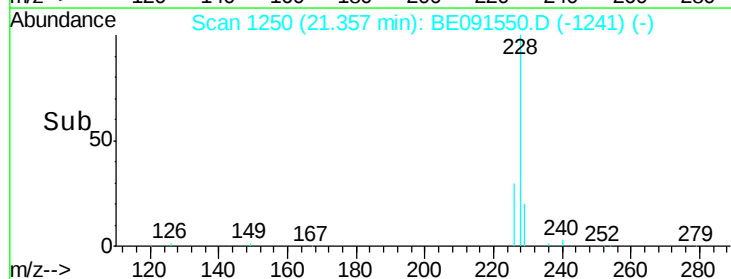
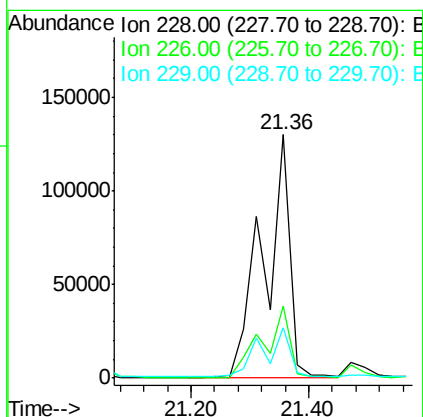
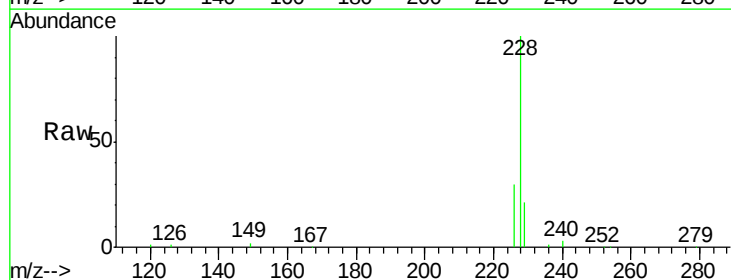
Instrument :
BNA_E
ClientSampleId :
SB-6A

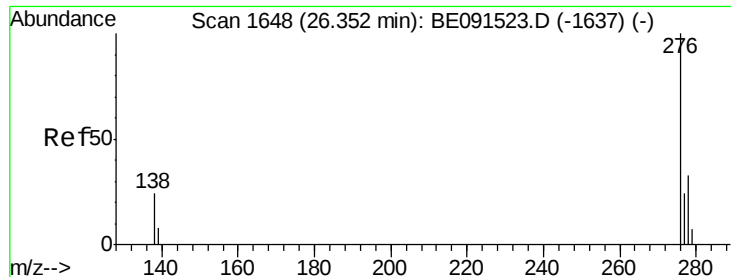
Tgt Ion:228 Resp: 398234
Ion Ratio Lower Upper
228 100
226 29.8 24.0 36.0
229 20.8 13.8 20.6#



#26
Chrysene
Concen: 3.63 ng
RT: 21.36 min Scan# 1250
Delta R.T. -0.00 min
Lab File: BE091550.D
Acq: 28 Mar 2016 22:52

Tgt Ion:228 Resp: 398584
Ion Ratio Lower Upper
228 100
226 29.8 18.9 28.3#
229 20.8 19.1 28.7

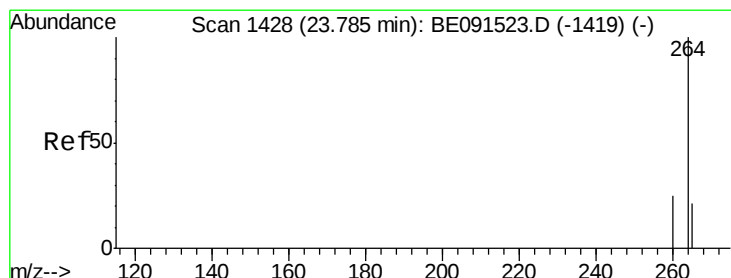
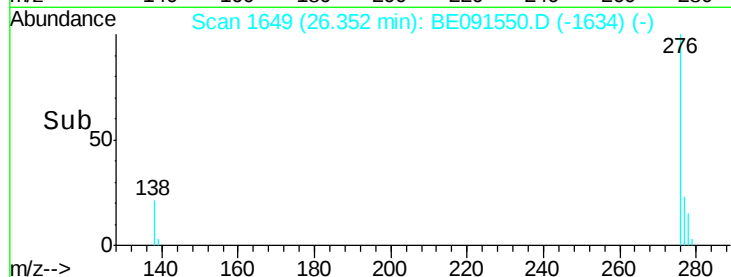
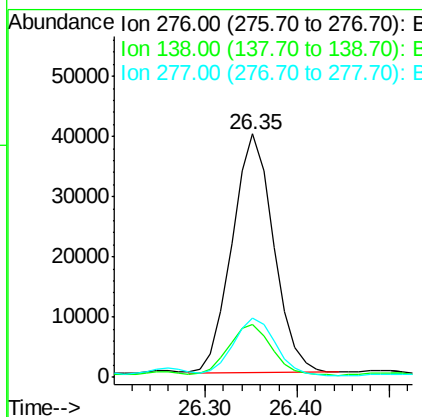
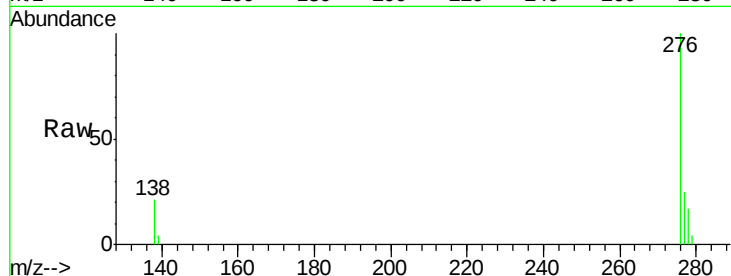




#27
 Indeno(1,2,3-cd)pyrene
 Concen: 1.46 ng
 RT: 26.35 min Scan# 1649
 Delta R.T. -0.02 min
 Lab File: BE091550.D
 Acq: 28 Mar 2016 22:52

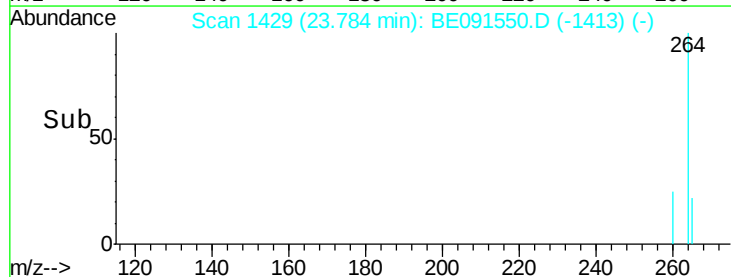
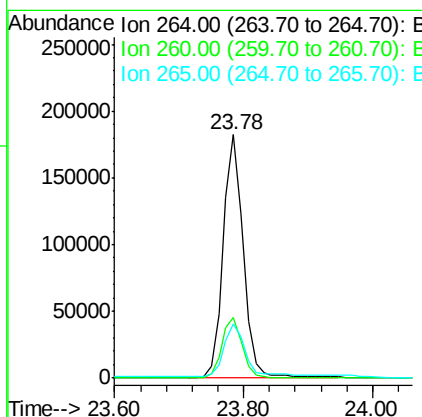
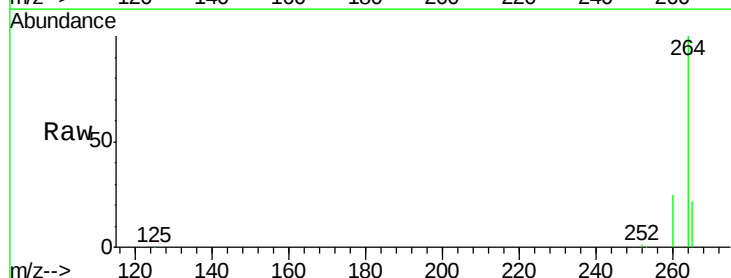
Instrument :
 BNA_E
 ClientSampleId :
 SB-6A

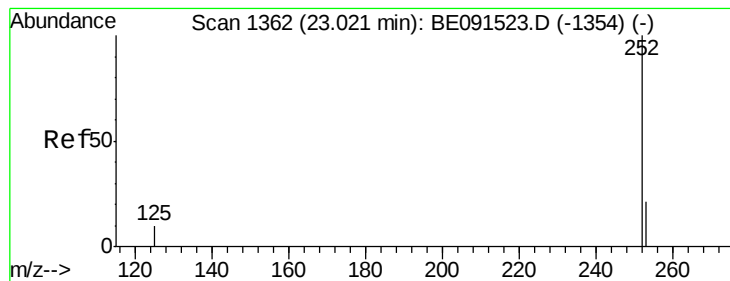
Tgt Ion: 276 Resp: 124737
 Ion Ratio Lower Upper
 276 100
 138 21.6 20.2 30.4
 277 24.4 19.8 29.8



#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.78 min Scan# 1429
 Delta R.T. -0.01 min
 Lab File: BE091550.D
 Acq: 28 Mar 2016 22:52

Tgt Ion: 264 Resp: 393486
 Ion Ratio Lower Upper
 264 100
 260 25.0 20.1 30.1
 265 22.1 18.3 27.5





#29

Benzo(b)fluoranthene

Concen: 4.21 ng

RT: 23.02 min Scan# 1363

Delta R.T. -0.01 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

SB-6A

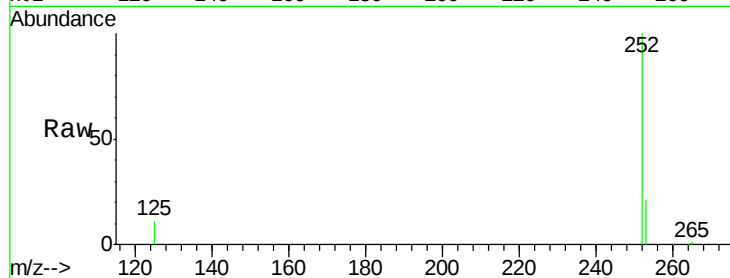
Tgt Ion:252 Resp: 367641

Ion Ratio Lower Upper

252 100

253 21.2 18.7 28.1

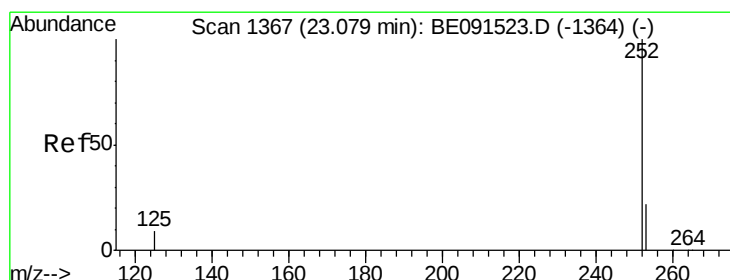
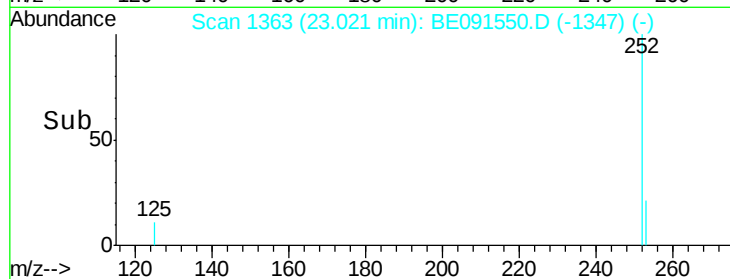
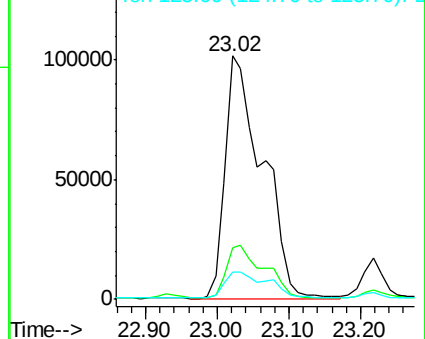
125 11.4 9.8 14.6



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: 4.22 ng

RT: 23.02 min Scan# 1363

Delta R.T. -0.06 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

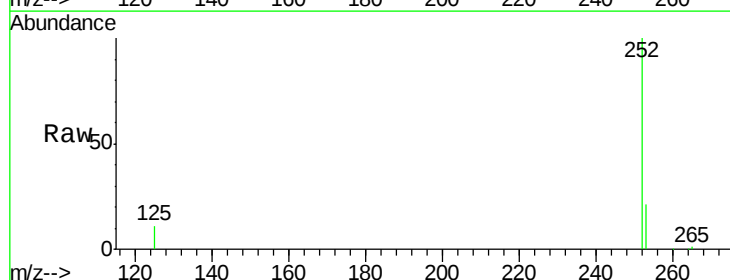
Tgt Ion:252 Resp: 367641

Ion Ratio Lower Upper

252 100

253 21.2 20.2 30.4

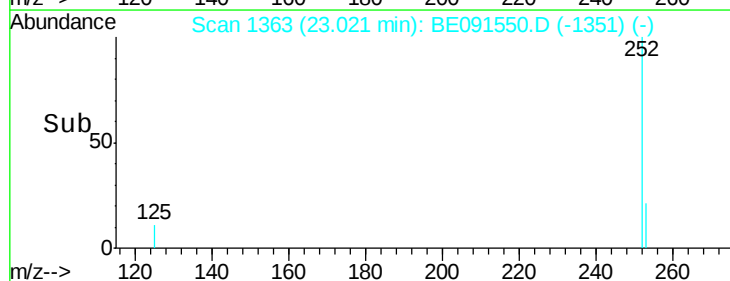
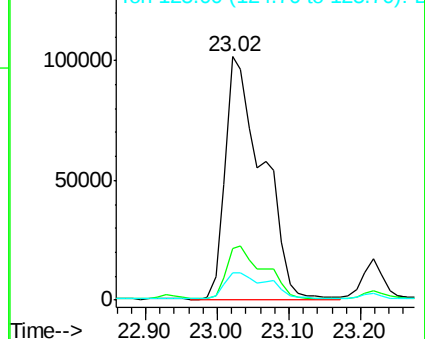
125 11.4 9.4 14.2

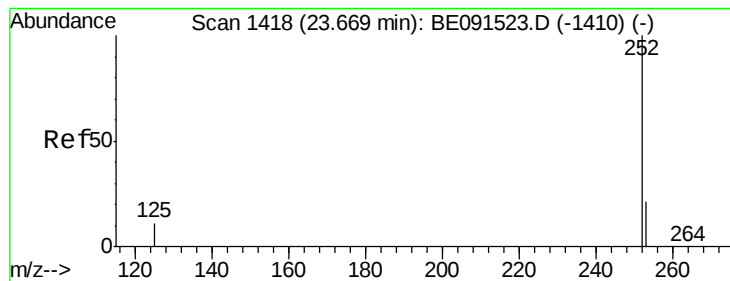


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#31

Benzo(a)pyrene

Concen: 1.67 ng

RT: 23.56 min Scan# 1410

Delta R.T. -0.11 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

SB-6A

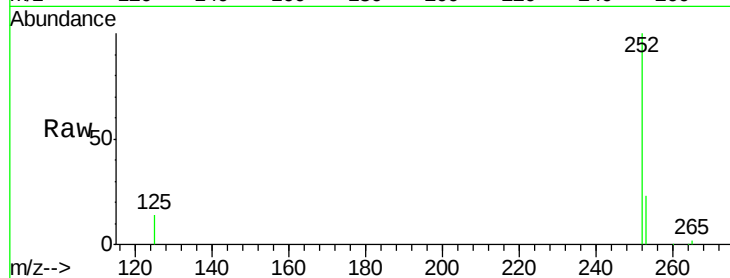
Tgt Ion: 252 Resp: 134793

Ion Ratio Lower Upper

252 100

253 22.9 19.4 29.0

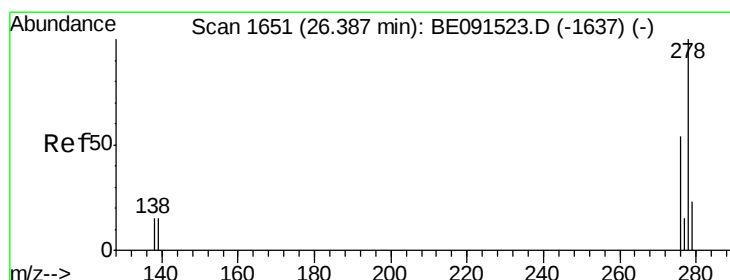
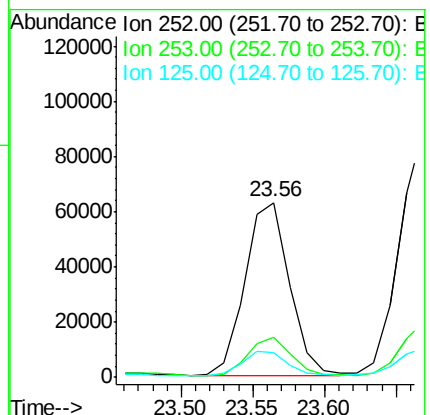
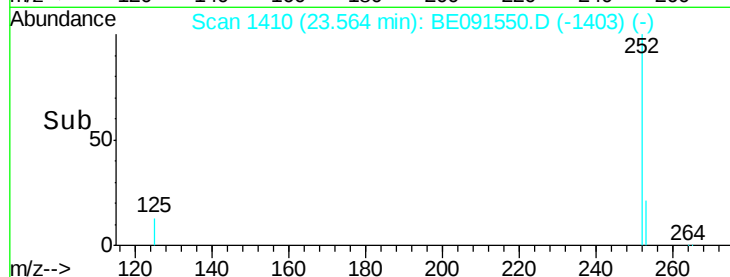
125 14.2 11.4 17.2



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: 0.37 ng

RT: 26.36 min Scan# 1650

Delta R.T. -0.03 min

Lab File: BE091550.D

Acq: 28 Mar 2016 22:52

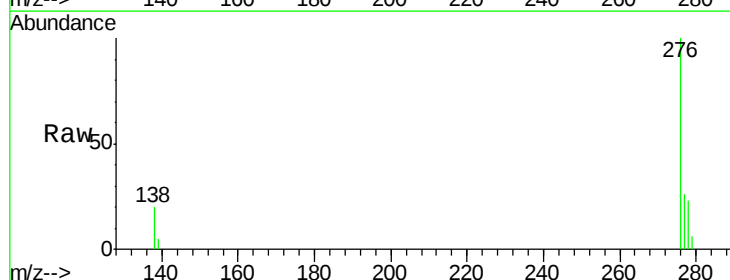
Tgt Ion: 278 Resp: 28768

Ion Ratio Lower Upper

278 100

139 20.0 14.2 21.4

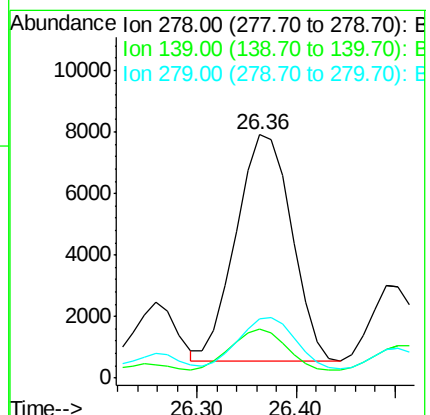
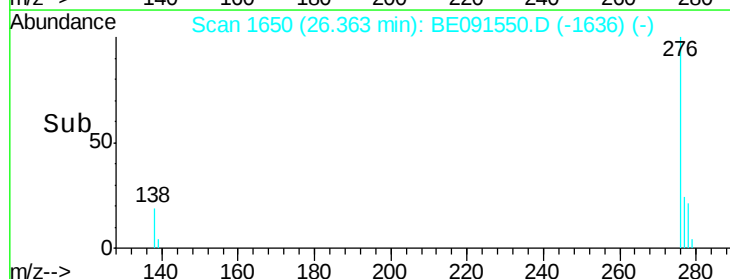
279 24.6 19.6 29.4

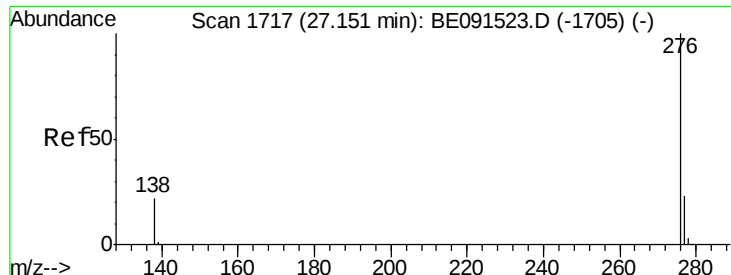


Abundance Ion 278.00 (277.70 to 278.70): E

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: 1.60 ng

RT: 27.15 min Scan# 1718

Delta R.T. -0.01 min

Lab File: BE091550.D

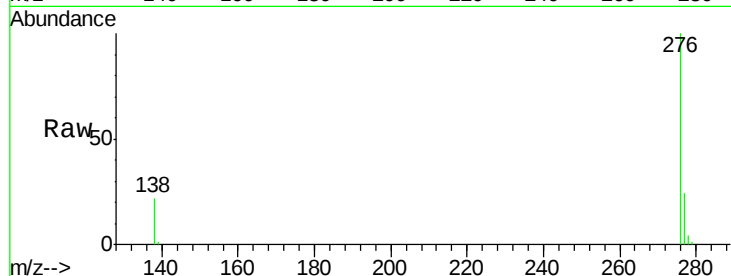
Acq: 28 Mar 2016 22:52

Instrument :

BNA_E

ClientSampleId :

SB-6A



Tgt Ion: 276 Resp: 129492

Ion Ratio Lower Upper

276 100

277 24.0 19.4 29.2

138 21.8 18.2 27.4

