

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032816\
 Data File : BE091548.D
 Acq On : 28 Mar 2016 21:38
 Operator : UM/SJ
 Sample : H1855-06
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SB-4

Quant Time: Mar 29 01:07:47 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	42204	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	214610	5.00	ng	0.00
10) Acenaphthene-d10	14.43	164	134328	5.00	ng	-0.01
16) Phenanthrene-d10	17.17	188	330472	5.00	ng	0.00
22) Chrysene-d12	21.34	240	354766	5.00	ng	0.00
28) Perylene-d12	23.78	264	371184	5.00	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	64165	7.80	ng	-0.01
5) Phenol-d6	6.97	99	100322	8.93	ng	-0.02
7) Nitrobenzene-d5	8.97	82	37972	4.07	ng	-0.01
11) 2,4,6-Tribromophenol	15.91	330	26991	11.81	ng	-0.01
12) 2-Fluorobiphenyl	13.06	172	139397	3.68	ng	-0.01
24) Terphenyl-d14	19.78	244	228883	3.92	ng	0.00

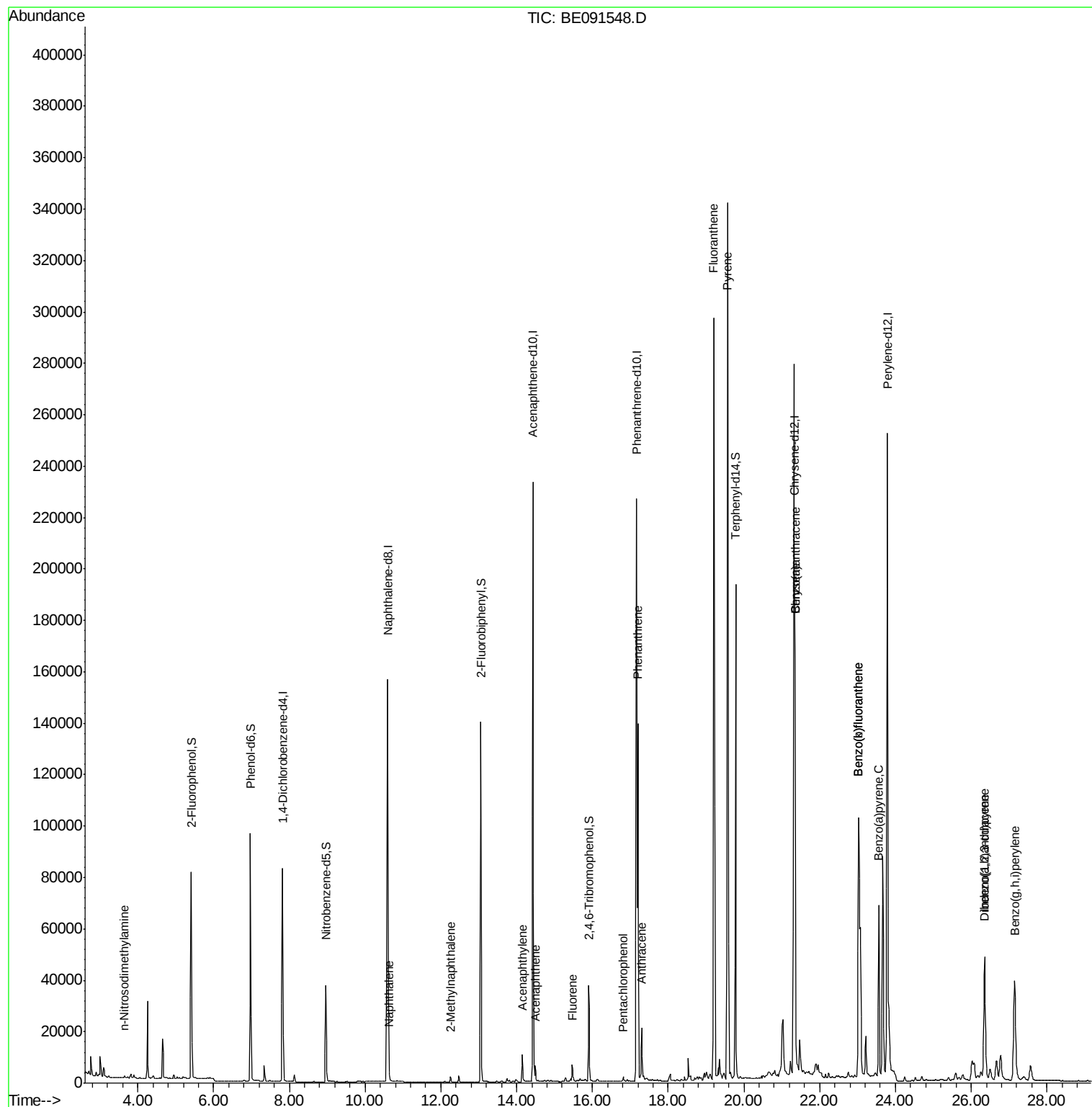
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.64	42	110	0.11	ng	# 11
8) Naphthalene	10.63	128	4017	0.09	ng	# 92
9) 2-Methylnaphthalene	12.25	142	1680	0.06	ng	# 83
13) Acenaphthylene	14.15	152	15353	0.33	ng	98
14) Acenaphthene	14.49	154	3015	0.09	ng	# 89
15) Fluorene	15.47	166	5069	0.12	ng	# 93
18) Pentachlorophenol	16.81	266	1321	0.49	ng	96
19) Phenanthrene	17.21	178	143324	1.89	ng	99
20) Anthracene	17.30	178	25461	0.41	ng	98
21) Fluoranthene	19.21	202	325808	4.60	ng	99
23) Pyrene	19.57	202	334277	3.99	ng	96
25) Benzo(a)anthracene	21.36	228	320438	3.91	ng	# 94
26) Chrysene	21.36	228	320662	2.98	ng	93
27) Indeno(1,2,3-cd)pyrene	26.35	276	91875	1.10	ng	95
29) Benzo(b)fluoranthene	23.02	252	281553	3.41	ng	97
30) Benzo(k)fluoranthene	23.02	252	281553	3.43	ng	94
31) Benzo(a)pyrene	23.56	252	105228	1.42	ng	98
32) Dibenzo(a,h)anthracene	26.36	278	21840	0.30	ng	97
33) Benzo(g,h,i)perylene	27.15	276	96126	1.26	ng	98

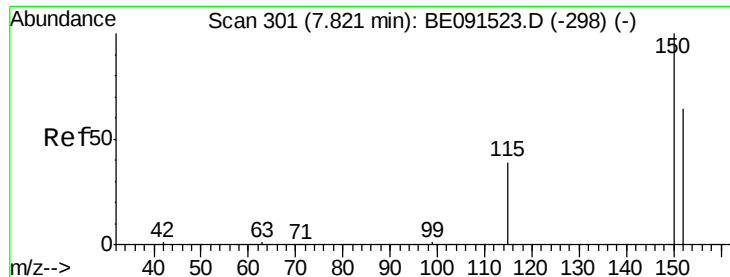
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE091548.D

Acq: 28 Mar 2016 21:38

Instrument :

BNA_E

ClientSampled :

SB-4

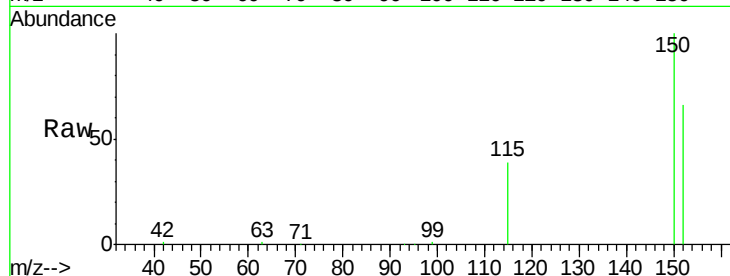
Tgt Ion:152 Resp: 42204

Ion Ratio Lower Upper

152 100

150 152.0 122.2 183.2

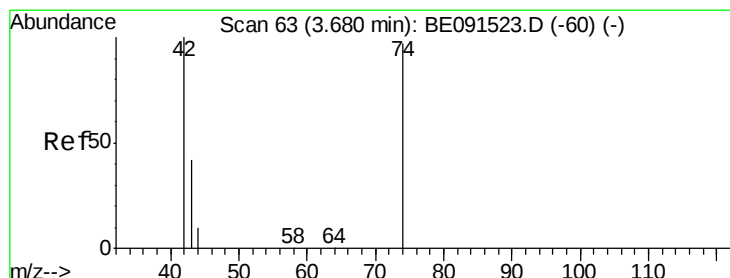
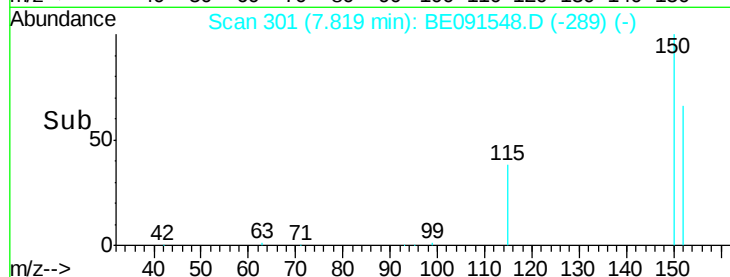
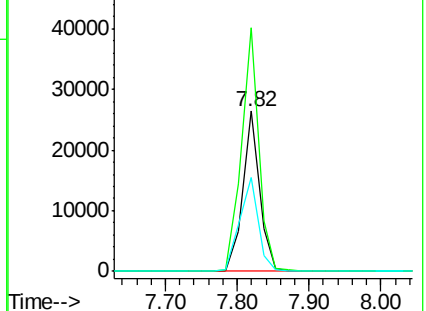
115 58.6 45.9 68.9



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: 0.11 ng

RT: 3.64 min Scan# 61

Delta R.T. -0.03 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

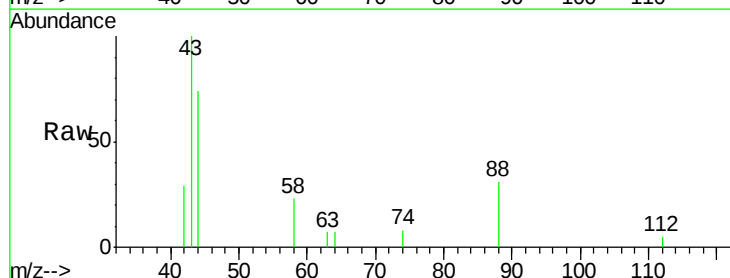
Tgt Ion: 42 Resp: 110

Ion Ratio Lower Upper

42 100

74 8.2 84.3 126.5#

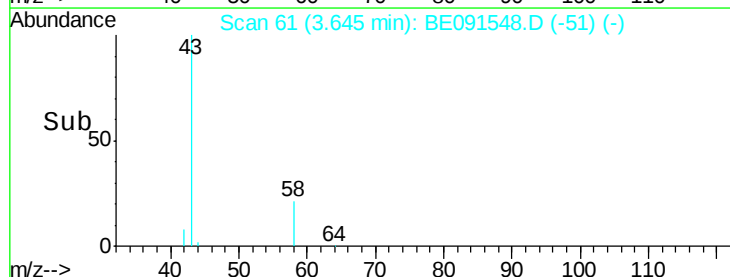
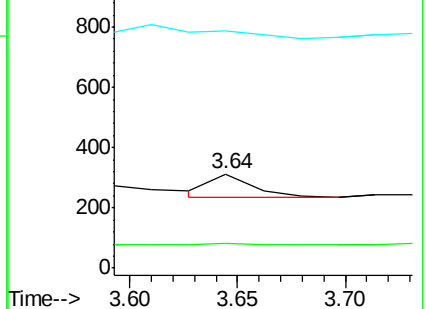
44 0.0 6.7 10.1#

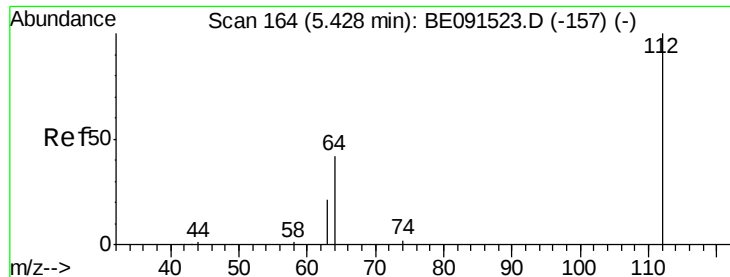


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 7.80 ng

RT: 5.41 min Scan# 163

Delta R.T. -0.01 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

Instrument :

BNA_E

ClientSampled :

SB-4

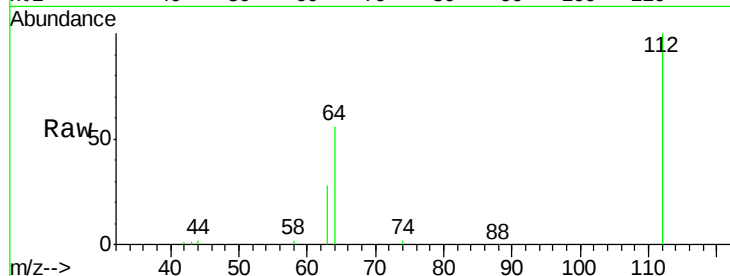
Tgt Ion: 112 Resp: 64165

Ion Ratio Lower Upper

112 100

64 66.9 53.3 79.9

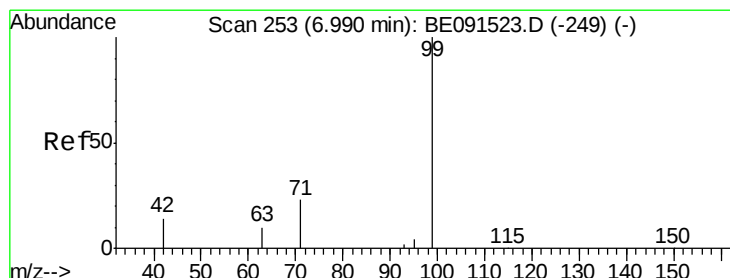
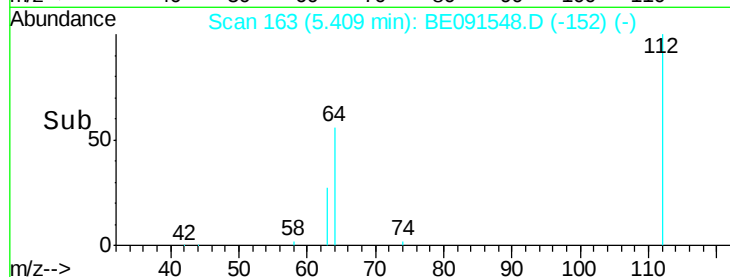
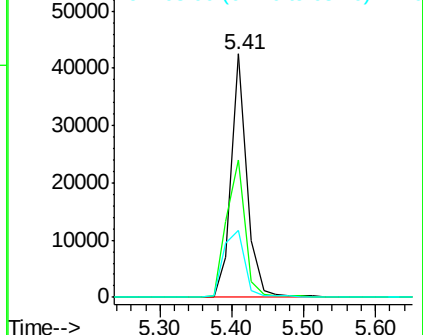
63 37.3 29.8 44.8



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: 8.93 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

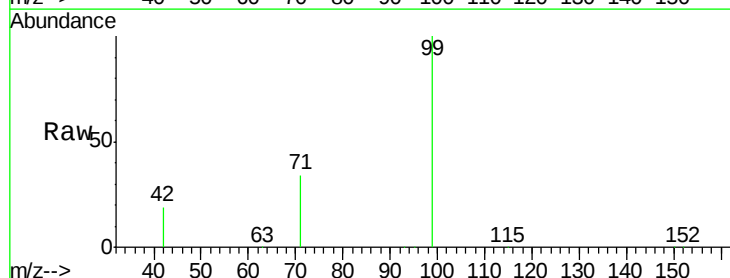
Tgt Ion: 99 Resp: 100322

Ion Ratio Lower Upper

99 100

42 26.0 20.6 30.8

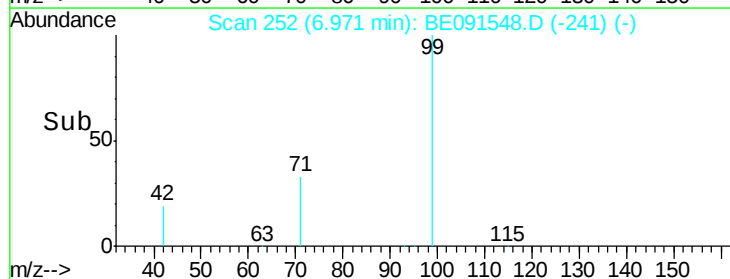
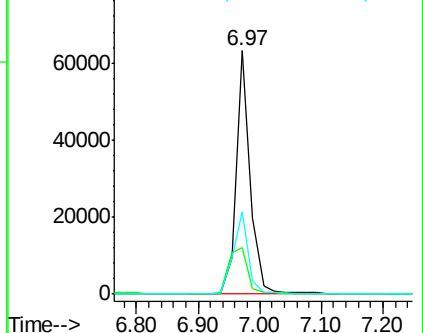
71 36.2 29.0 43.4

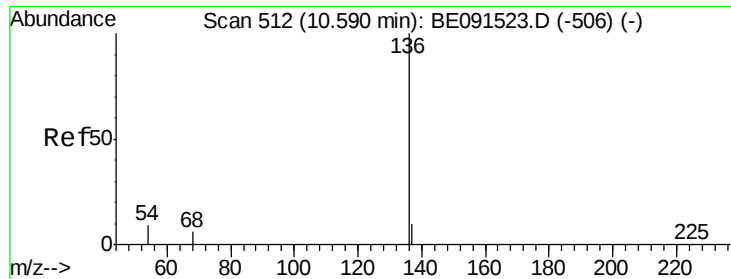


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: BE091548.D

Acq: 28 Mar 2016 21:38

Instrument :

BNA_E

ClientSampleId :

SB-4

Tgt Ion:136 Resp: 214610

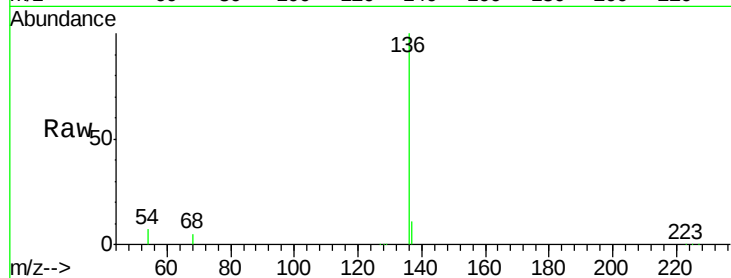
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 7.1 5.2 7.8

68 5.2 4.1 6.1

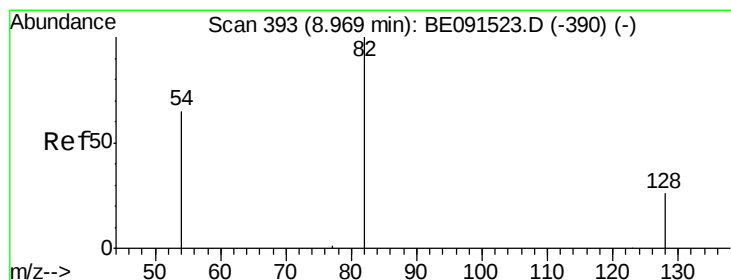
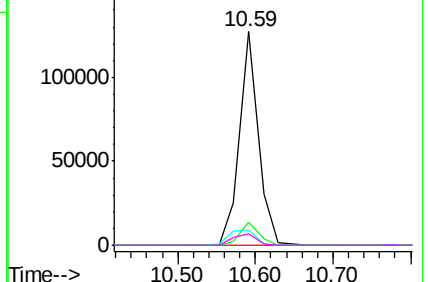
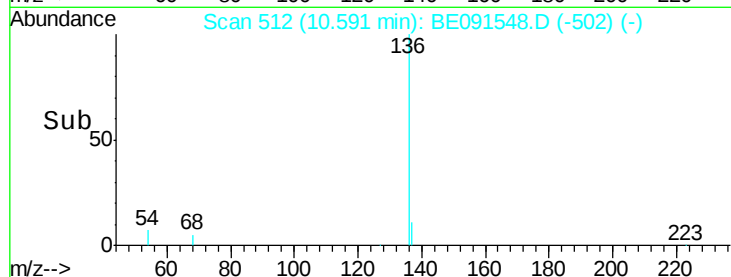


Abundance Ion 136.00 (135.70 to 136.70): E

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: 4.07 ng

RT: 8.97 min Scan# 393

Delta R.T. -0.01 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

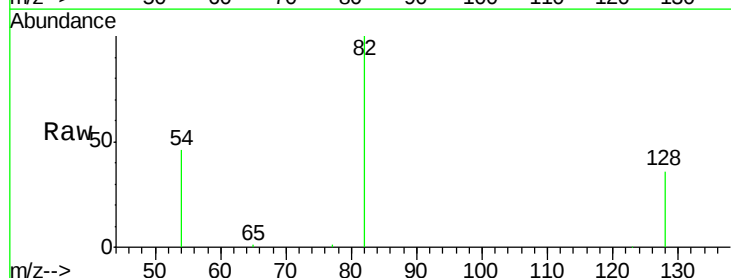
Tgt Ion: 82 Resp: 37972

Ion Ratio Lower Upper

82 100

128 36.0 23.5 35.3#

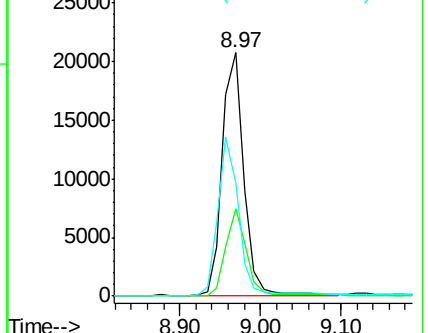
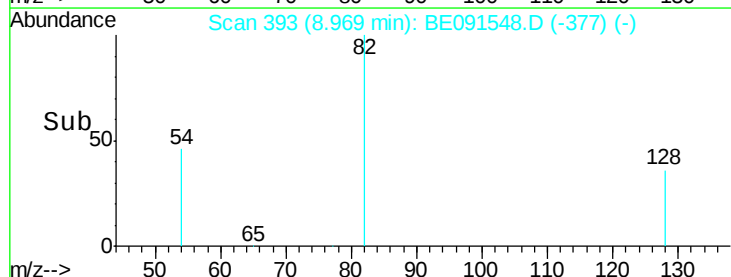
54 46.4 52.4 78.6#

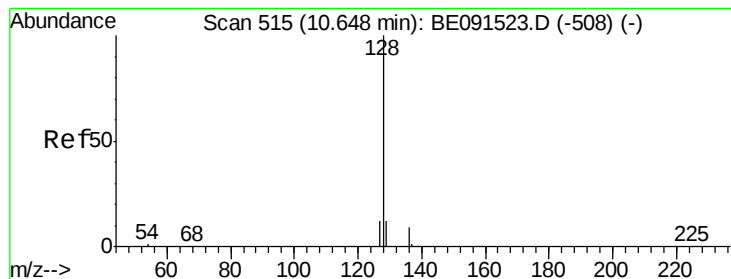


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Naphthalene

Concen: 0.09 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

Instrument :

BNA_E

ClientSampleId :

SB-4

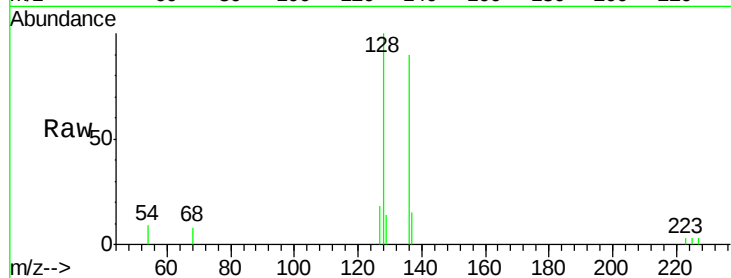
Tgt Ion:128 Resp: 4017

Ion Ratio Lower Upper

128 100

129 13.8 8.2 12.2#

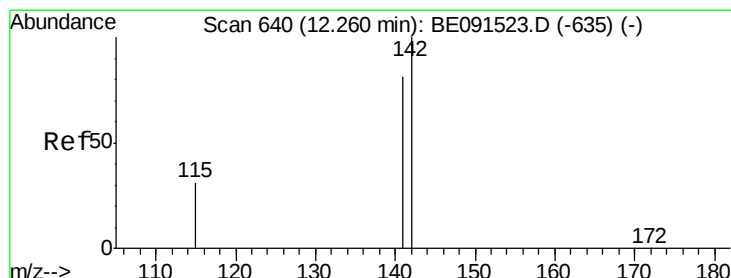
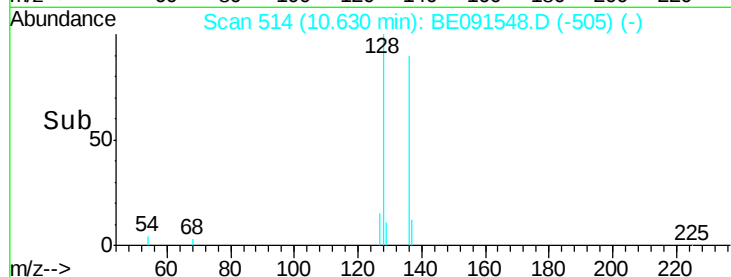
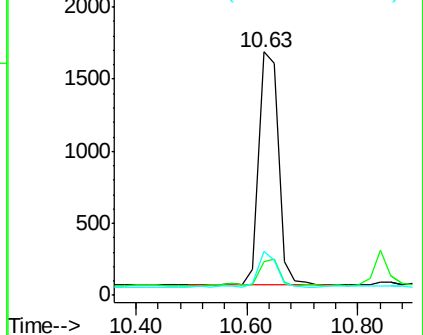
127 17.9 11.8 17.8#



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: 0.06 ng

RT: 12.25 min Scan# 639

Delta R.T. -0.01 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

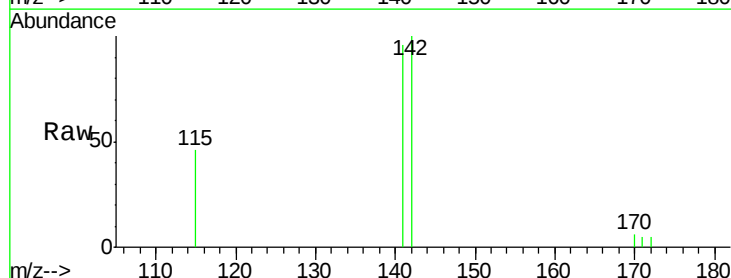
Tgt Ion:142 Resp: 1680

Ion Ratio Lower Upper

142 100

141 95.5 66.9 100.3

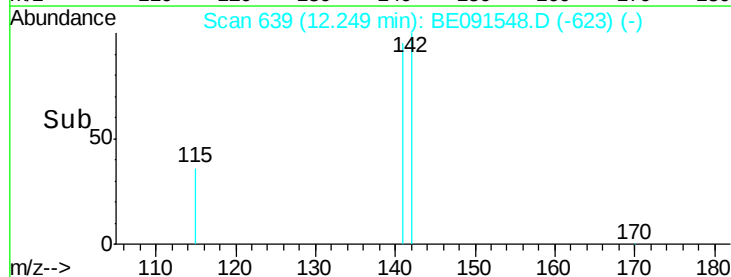
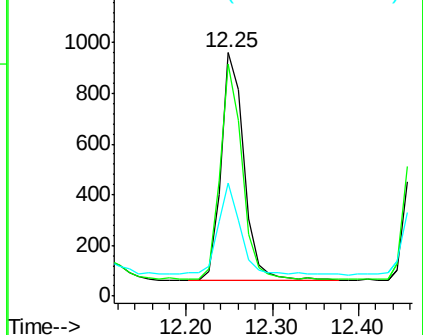
115 46.3 25.1 37.7#

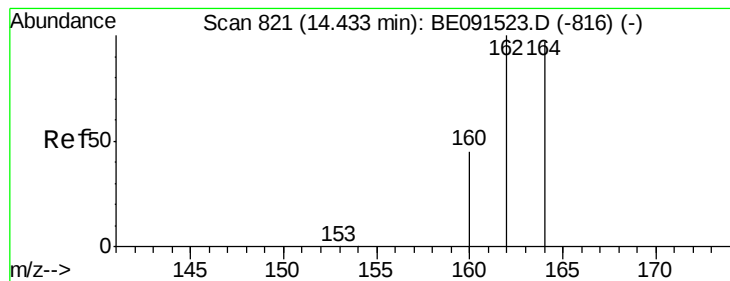


Abundance Ion 142.00 (141.70 to 142.70): E

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: BE091548.D

Acq: 28 Mar 2016 21:38

Instrument :

BNA_E

ClientSampleId :

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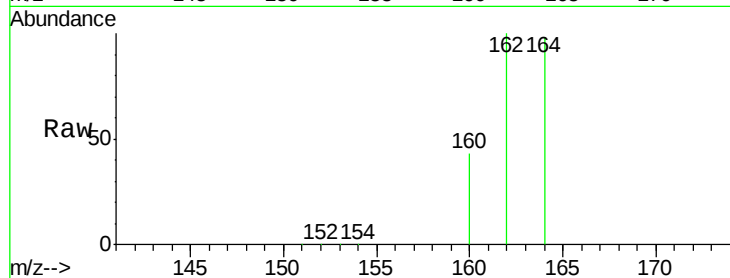
Tgt Ion:164 Resp: 134328

Ion Ratio Lower Upper

164 100

162 102.4 84.4 126.6

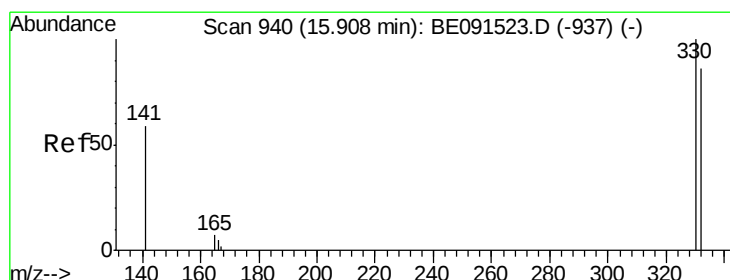
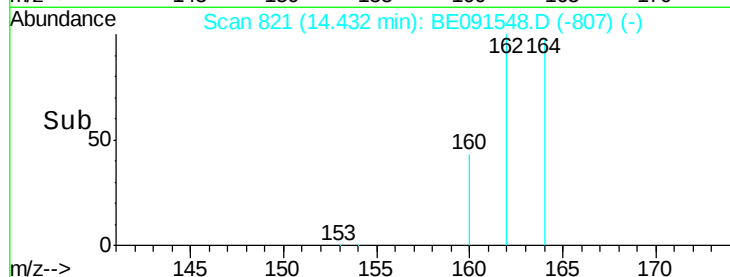
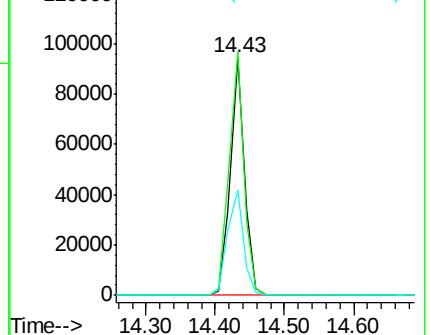
160 44.1 37.7 56.5



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: 11.81 ng

RT: 15.91 min Scan# 940

Delta R.T. -0.01 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

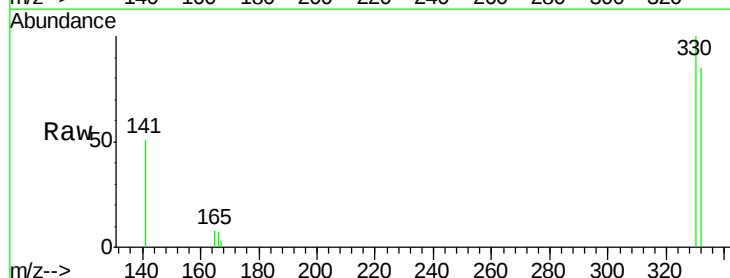
Tgt Ion:330 Resp: 26991

Ion Ratio Lower Upper

330 100

332 97.7 79.2 118.8

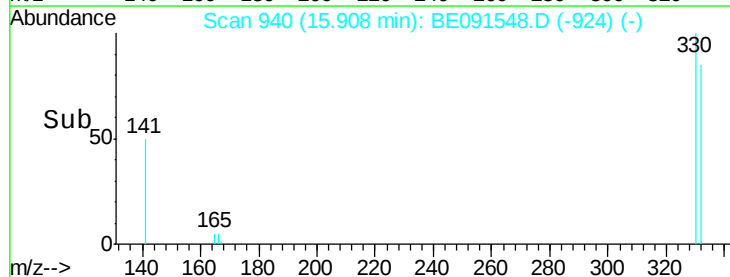
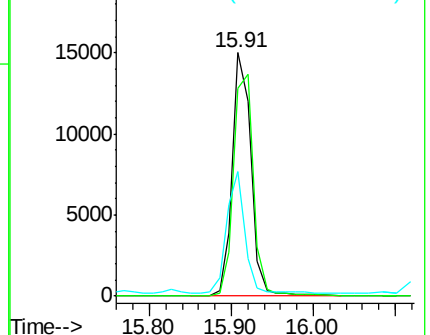
141 48.8 28.1 42.1#

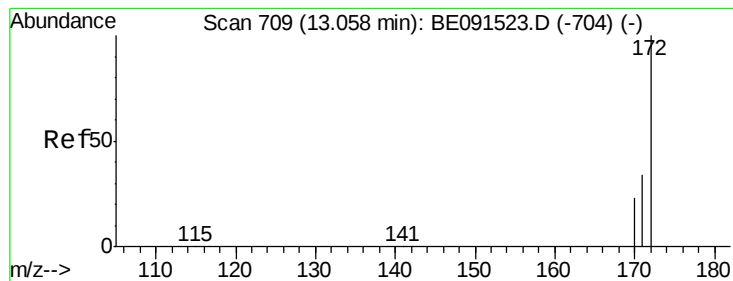


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

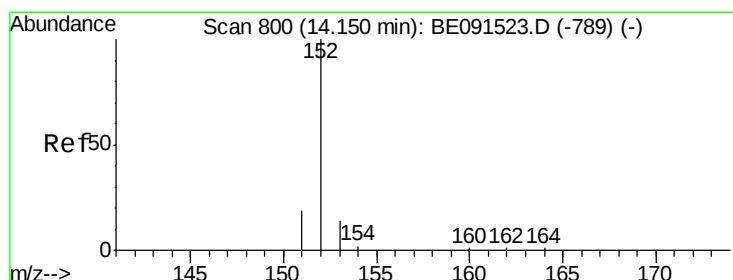
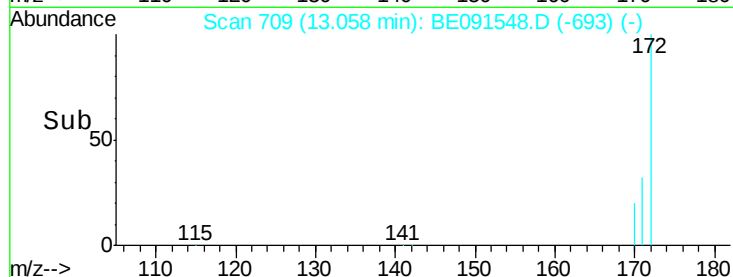
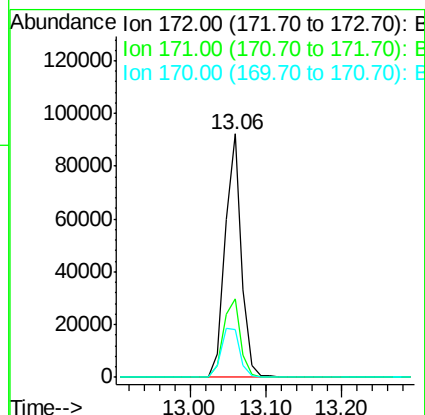
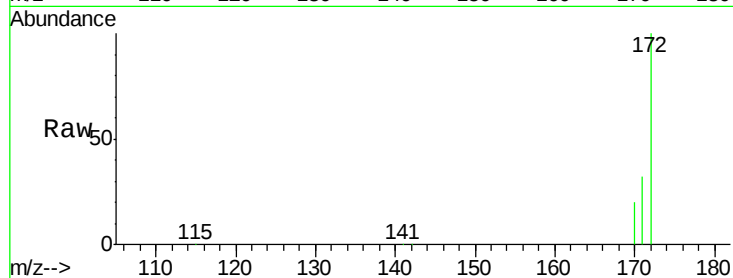




#12
2-Fluorobiphenyl
Concen: 3.68 ng
RT: 13.06 min Scan# 709
Delta R.T. -0.01 min
Lab File: BE091548.D
Acq: 28 Mar 2016 21:38

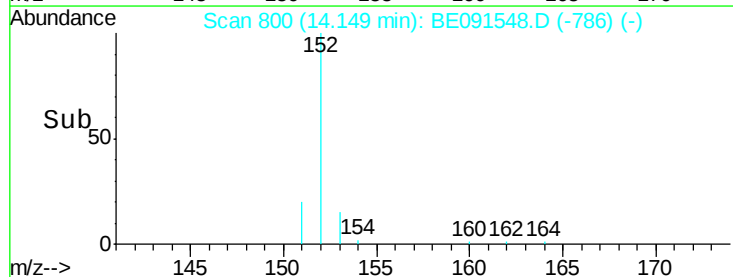
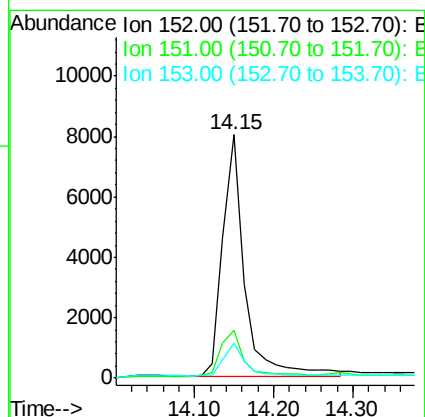
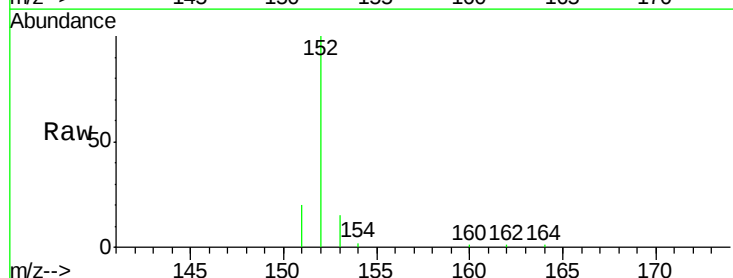
Instrument :
BNA_E
ClientSampleId :
SB-4

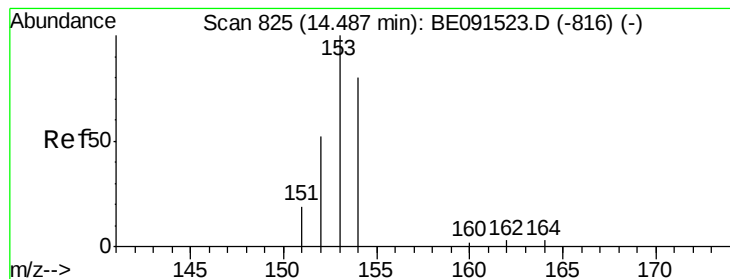
Tgt Ion:172 Resp: 139397
Ion Ratio Lower Upper
172 100
171 32.1 29.8 44.8
170 19.8 21.4 32.2#



#13
Acenaphthylene
Concen: 0.33 ng
RT: 14.15 min Scan# 800
Delta R.T. 0.00 min
Lab File: BE091548.D
Acq: 28 Mar 2016 21:38

Tgt Ion:152 Resp: 15353
Ion Ratio Lower Upper
152 100
151 21.3 16.3 24.5
153 15.0 11.1 16.7





#14

Acenaphthene

Concen: 0.09 ng

RT: 14.49 min Scan# 825

Delta R.T. -0.01 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

Instrument :

BNA_E

ClientSampleId :

SB-4

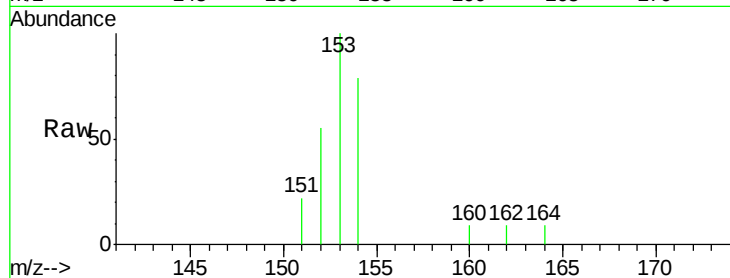
Tgt Ion:154 Resp: 3015

Ion Ratio Lower Upper

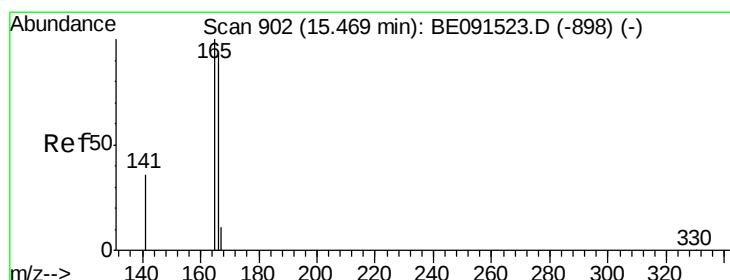
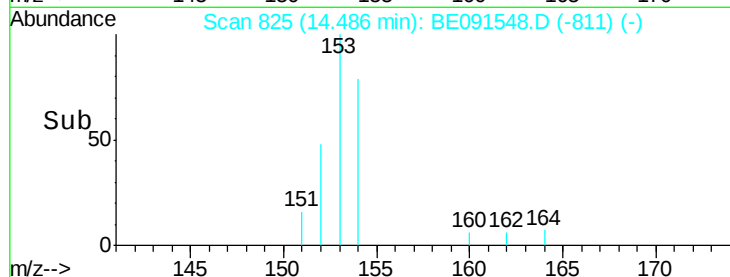
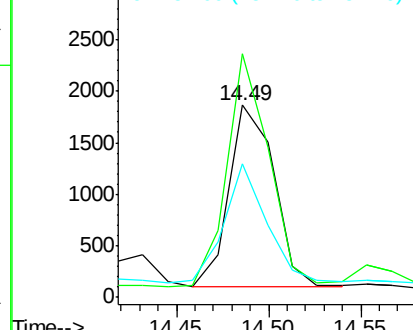
154 100

153 118.9 87.3 130.9

152 64.8 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: 0.12 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

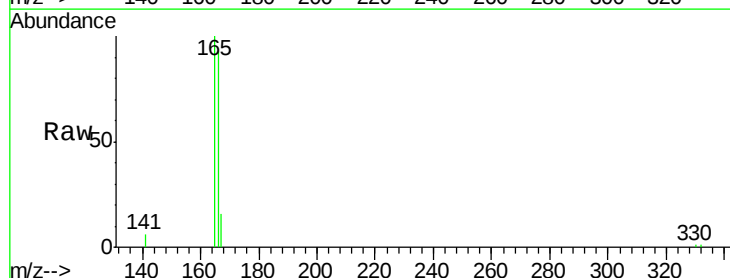
Tgt Ion:166 Resp: 5069

Ion Ratio Lower Upper

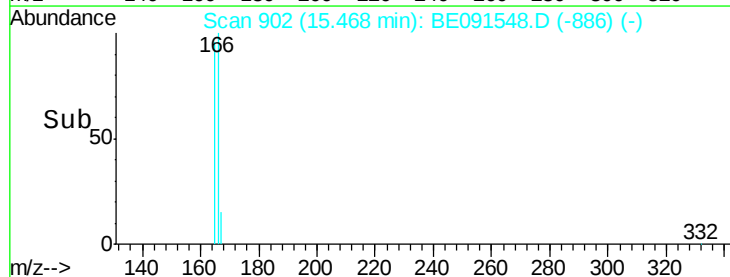
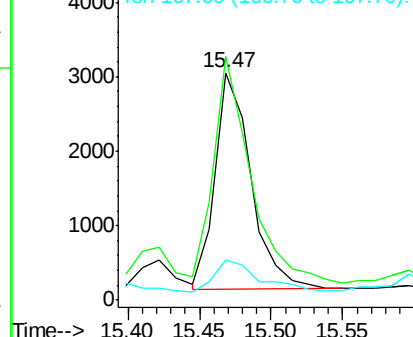
166 100

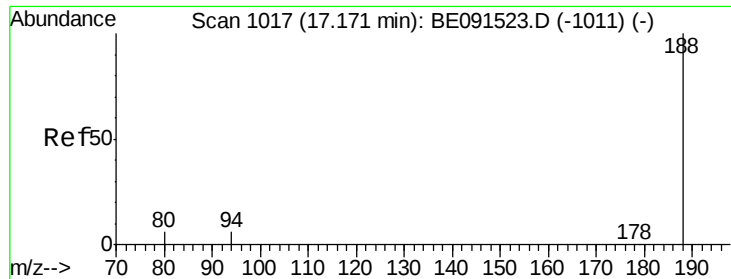
165 105.9 79.2 118.8

167 17.3 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

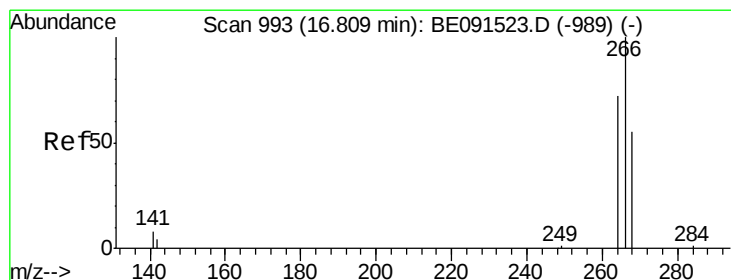
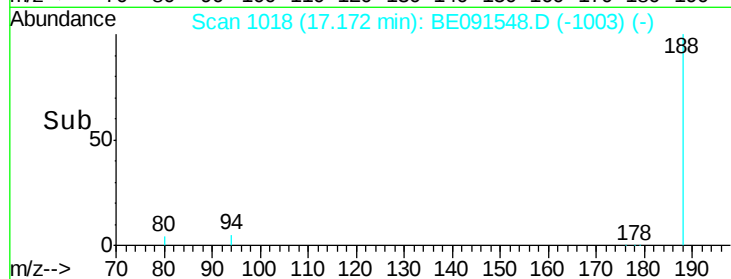
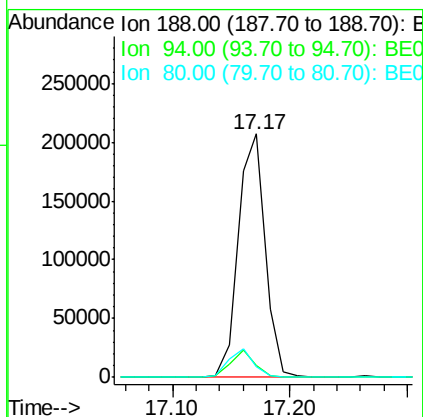
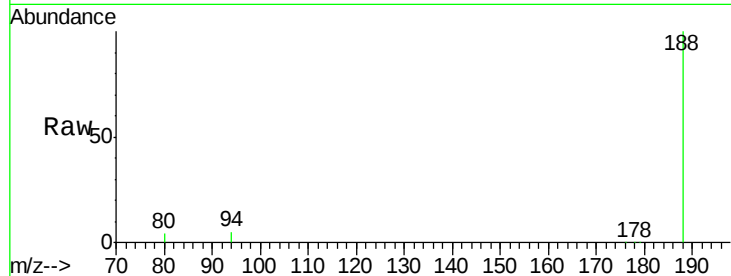




#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.17 min Scan# 1018
Delta R.T. -0.00 min
Lab File: BE091548.D
Acq: 28 Mar 2016 21:38

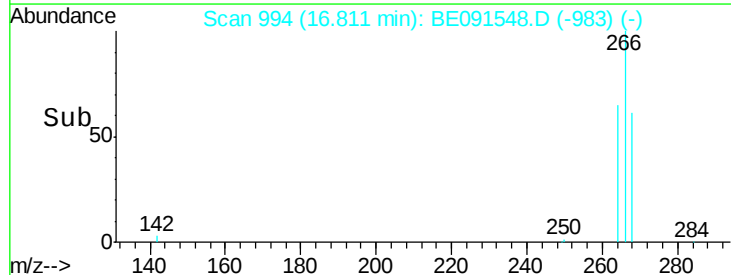
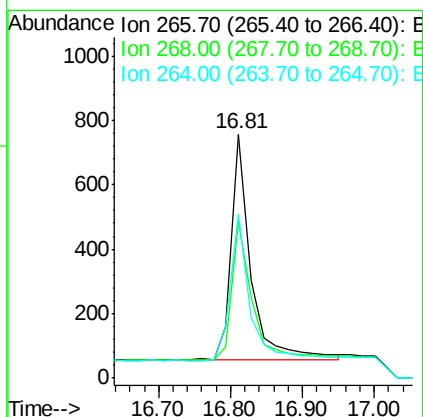
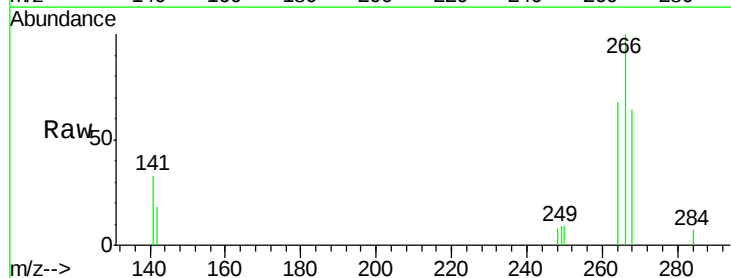
Instrument :
BNA_E
ClientSampled :
SB-4

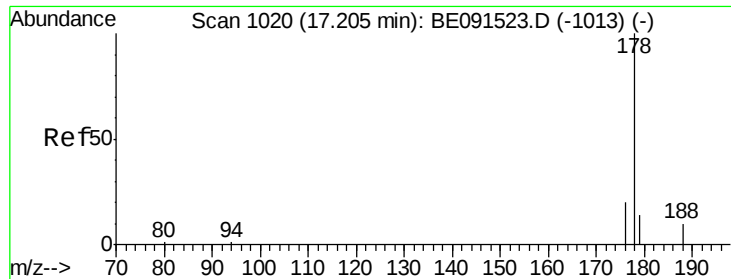
Tgt Ion:188 Resp: 330472
Ion Ratio Lower Upper
188 100
94 5.1 5.4 8.2#
80 4.3 5.0 7.4#



#18
Pentachlorophenol
Concen: 0.49 ng
RT: 16.81 min Scan# 994
Delta R.T. -0.02 min
Lab File: BE091548.D
Acq: 28 Mar 2016 21:38

Tgt Ion:266 Resp: 1321
Ion Ratio Lower Upper
266 100
268 64.0 48.2 72.2
264 67.6 52.1 78.1





#19

Phenanthrene

Concen: 1.89 ng

RT: 17.21 min Scan# 1021

Delta R.T. -0.00 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

Instrument :

BNA_E

ClientSampleId :

SB-4

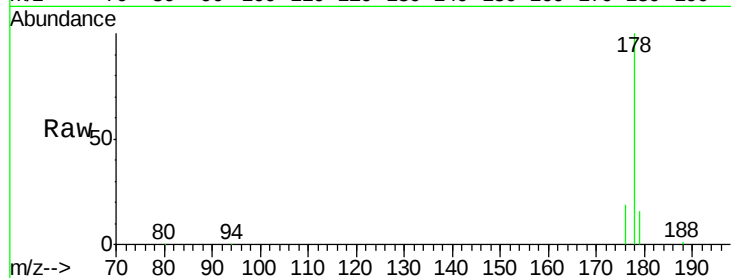
Tgt Ion:178 Resp: 143324

Ion Ratio Lower Upper

178 100

176 19.5 15.5 23.3

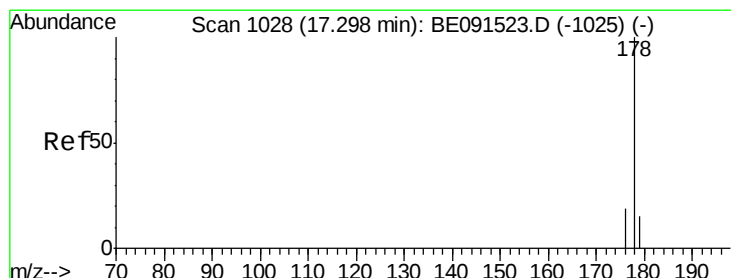
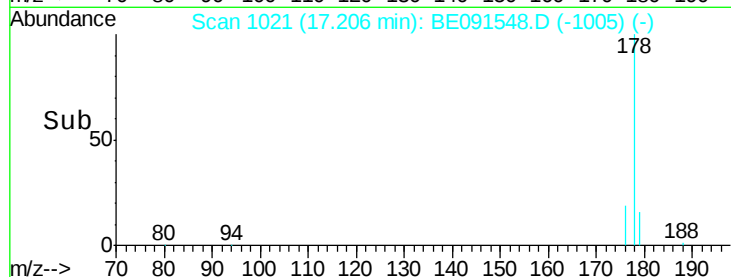
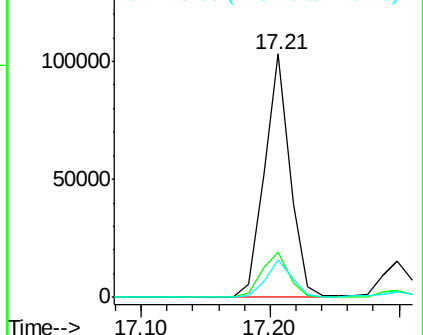
179 15.6 13.1 19.7



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: 0.41 ng

RT: 17.30 min Scan# 1029

Delta R.T. -0.00 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

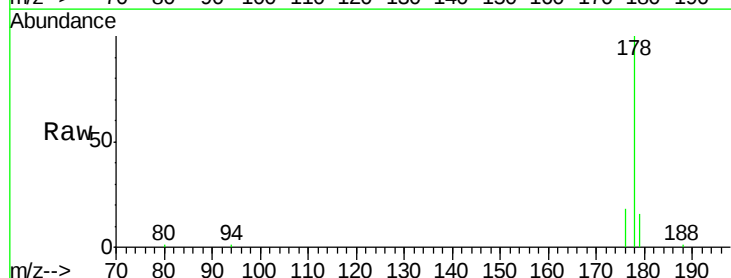
Tgt Ion:178 Resp: 25461

Ion Ratio Lower Upper

178 100

176 18.8 14.9 22.3

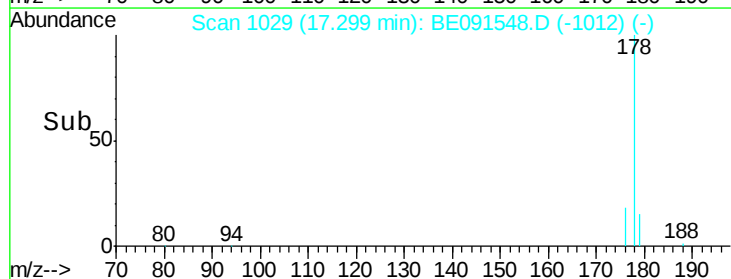
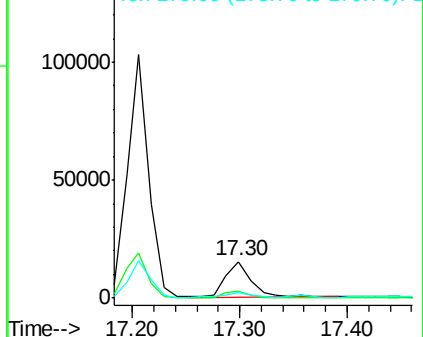
179 13.4 12.2 18.4

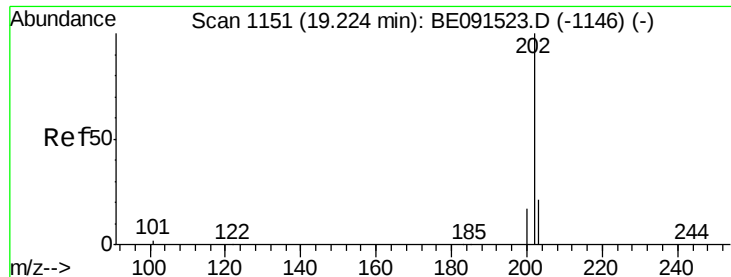


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

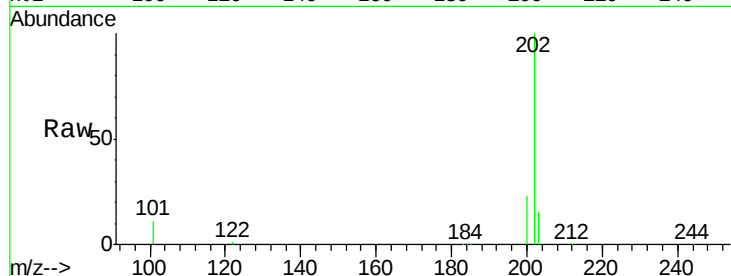




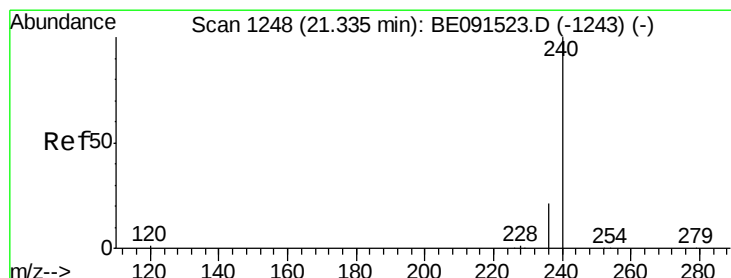
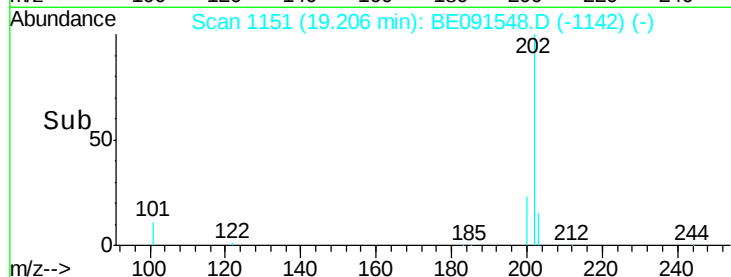
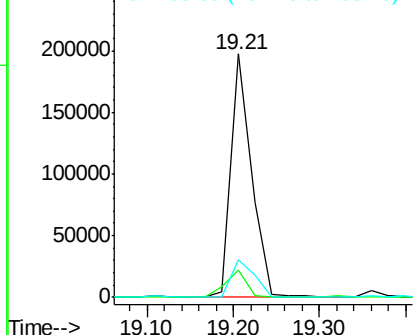
#21
Fluoranthene
Concen: 4.60 ng
RT: 19.21 min Scan# 1151
Delta R.T. -0.02 min
Lab File: BE091548.D
Acq: 28 Mar 2016 21:38

Instrument :
BNA_E
ClientSampleId :
SB-4

Tgt Ion: 202 Resp: 325808
Ion Ratio Lower Upper
202 100
101 11.1 8.3 12.5
203 17.2 13.9 20.9

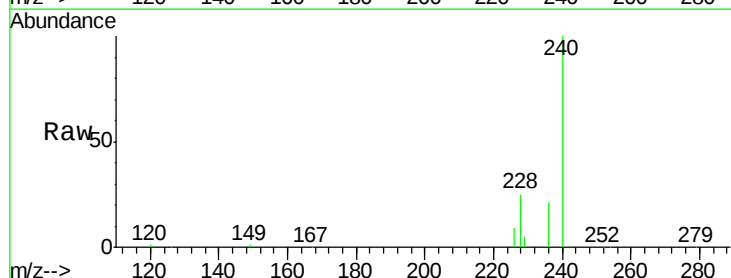


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

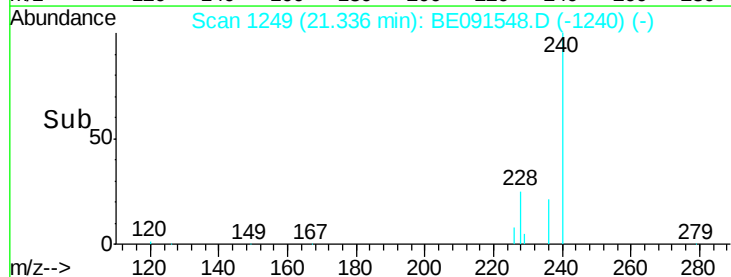
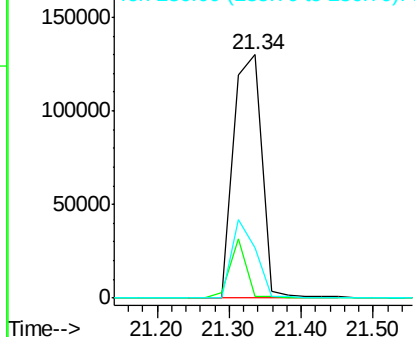


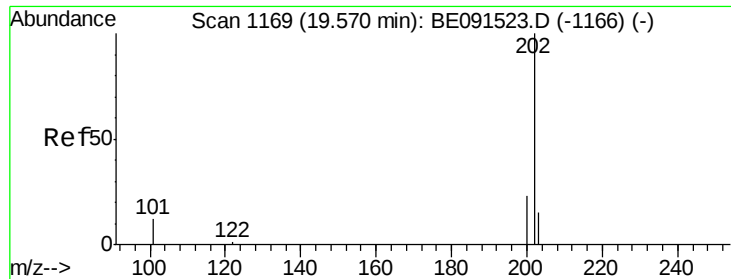
#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.34 min Scan# 1249
Delta R.T. 0.00 min
Lab File: BE091548.D
Acq: 28 Mar 2016 21:38

Tgt Ion: 240 Resp: 354766
Ion Ratio Lower Upper
240 100
120 0.8 4.0 6.0#
236 20.7 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

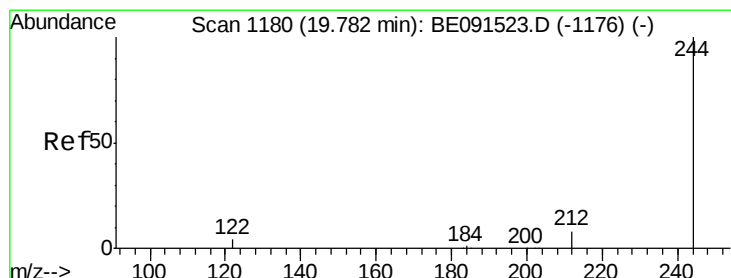
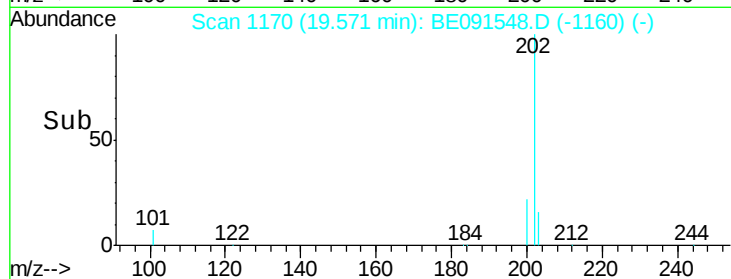
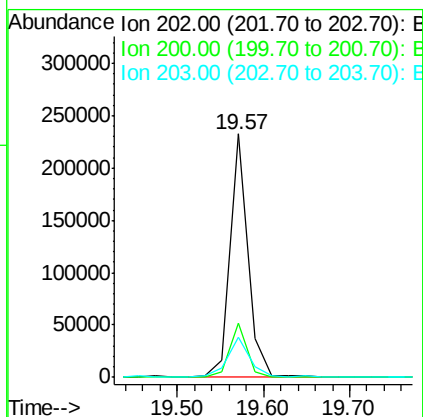
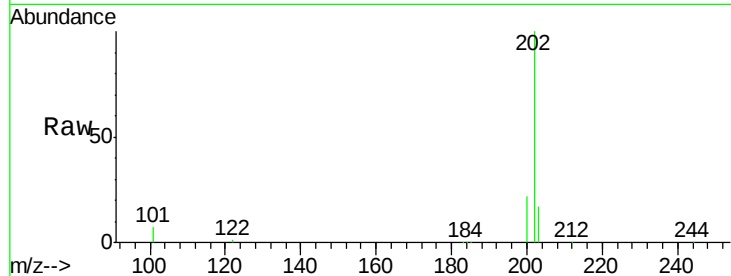




#23
 Pyrene
 Concen: 3.99 ng
 RT: 19.57 min Scan# 1170
 Delta R.T. 0.00 min
 Lab File: BE091548.D
 Acq: 28 Mar 2016 21:38

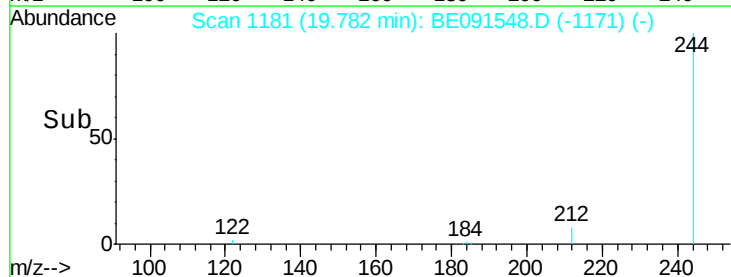
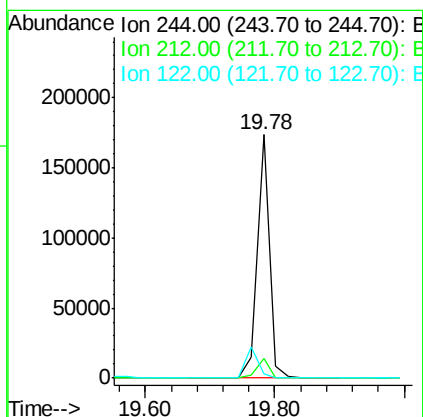
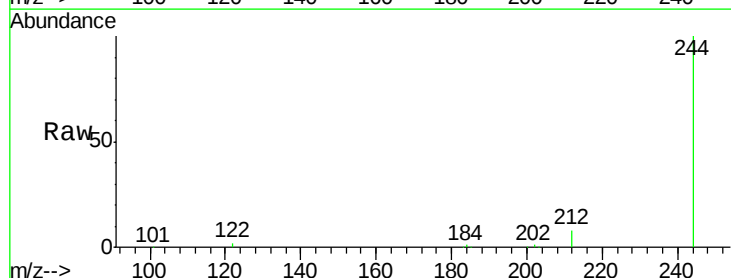
Instrument :
 BNA_E
 ClientSampleId :
 SB-4

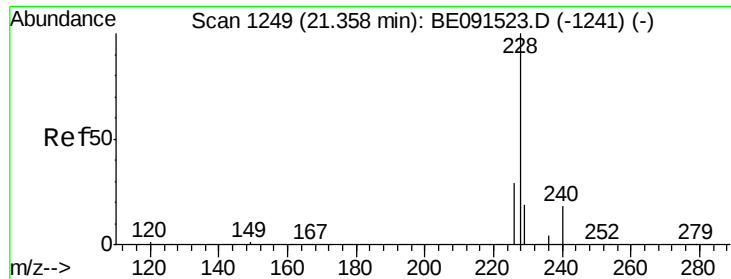
Tgt Ion: 202 Resp: 334277
 Ion Ratio Lower Upper
 202 100
 200 21.9 16.4 24.6
 203 20.8 14.6 21.8



#24
 Terphenyl-d14
 Concen: 3.92 ng
 RT: 19.78 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: BE091548.D
 Acq: 28 Mar 2016 21:38

Tgt Ion: 244 Resp: 228883
 Ion Ratio Lower Upper
 244 100
 212 7.8 5.8 8.8
 122 1.7 1.8 2.8#

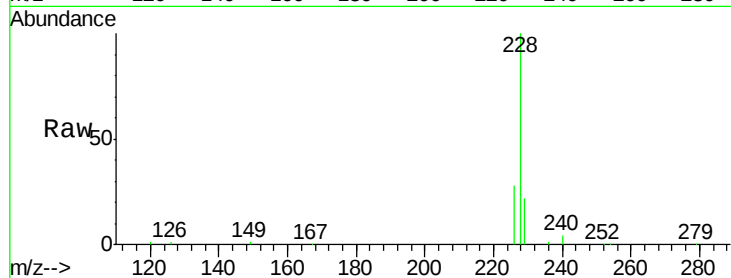




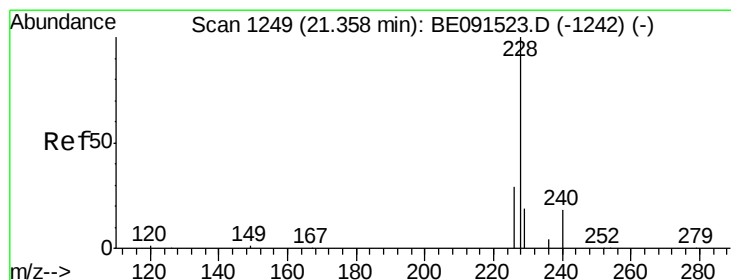
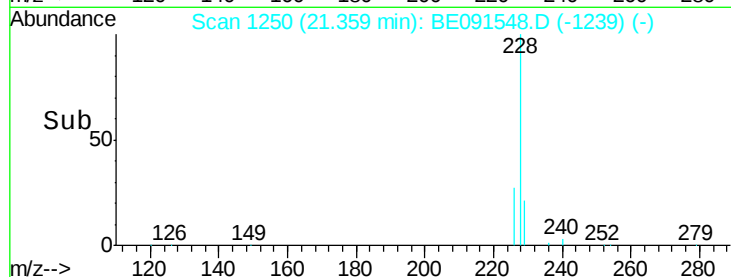
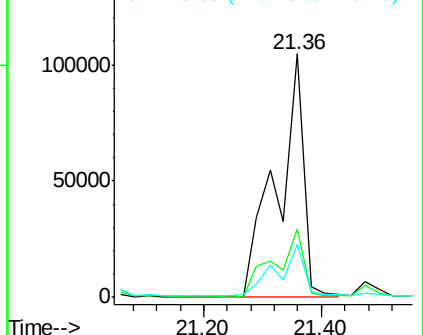
#25
Benzo(a)anthracene
Concen: 3.91 ng
RT: 21.36 min Scan# 1250
Delta R.T. 0.05 min
Lab File: BE091548.D
Acq: 28 Mar 2016 21:38

Instrument :
BNA_E
ClientSampled :
SB-4

Tgt Ion:228 Resp: 320438
Ion Ratio Lower Upper
228 100
226 28.0 24.0 36.0
229 21.7 13.8 20.6#

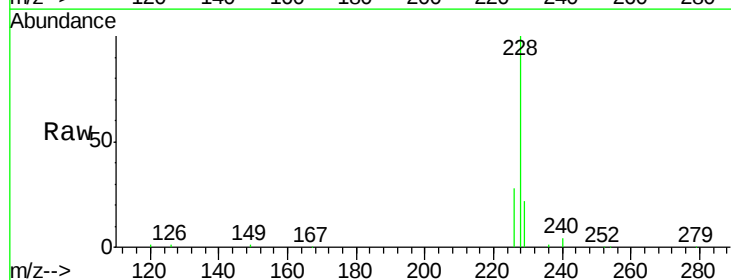


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

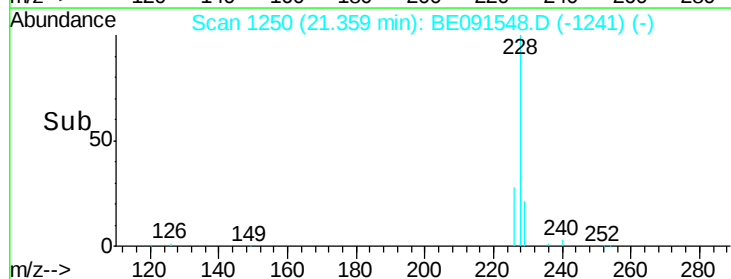
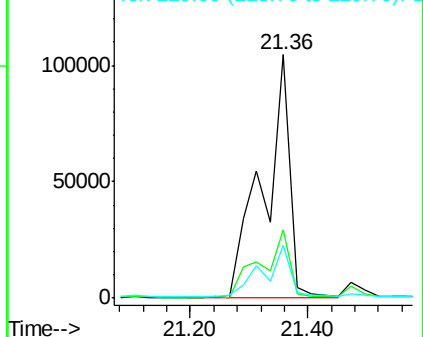


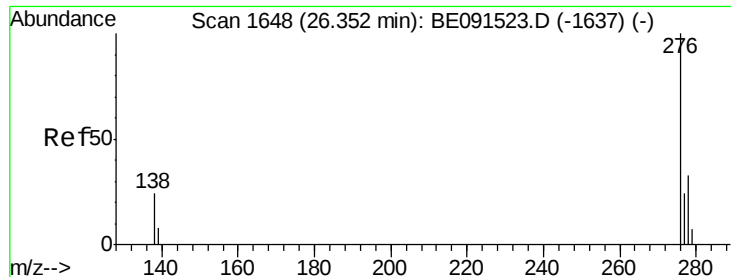
#26
Chrysene
Concen: 2.98 ng
RT: 21.36 min Scan# 1250
Delta R.T. 0.00 min
Lab File: BE091548.D
Acq: 28 Mar 2016 21:38

Tgt Ion:228 Resp: 320662
Ion Ratio Lower Upper
228 100
226 28.0 18.9 28.3
229 21.7 19.1 28.7



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

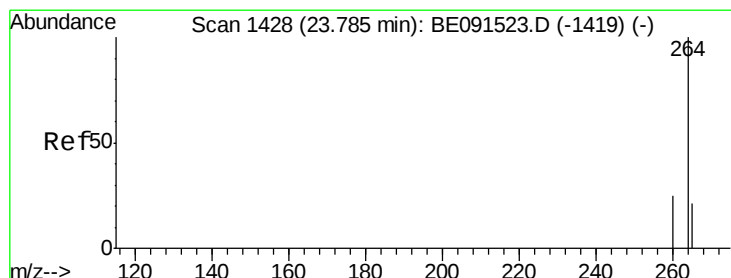
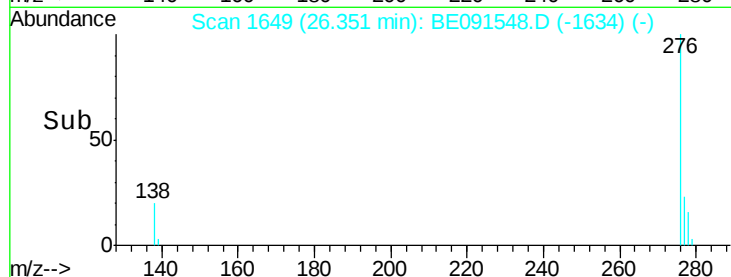
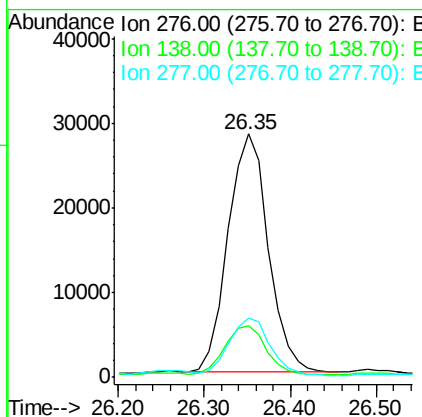
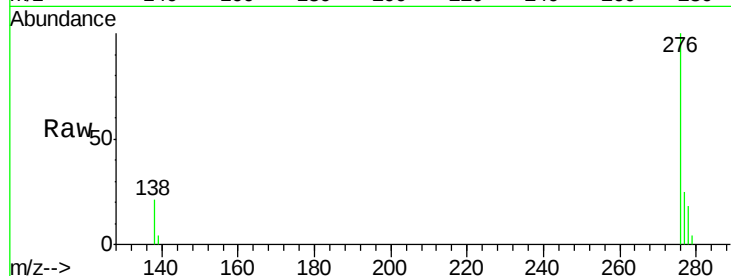




#27
 Indeno(1,2,3-cd)pyrene
 Concen: 1.10 ng
 RT: 26.35 min Scan# 1649
 Delta R.T. -0.02 min
 Lab File: BE091548.D
 Acq: 28 Mar 2016 21:38

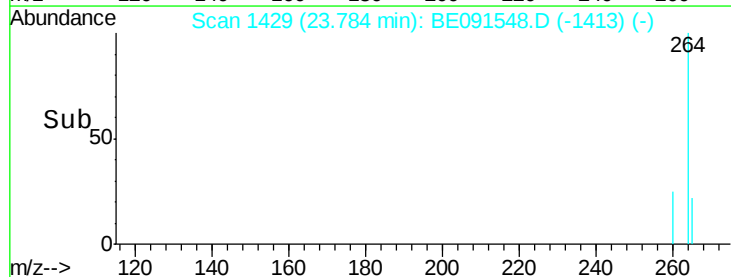
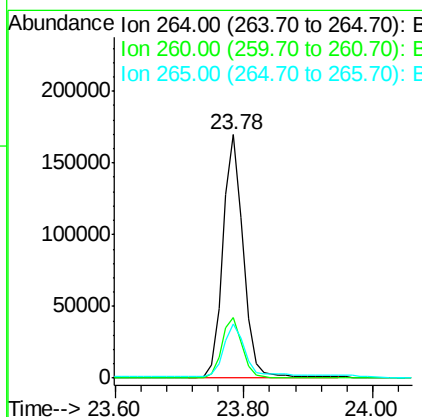
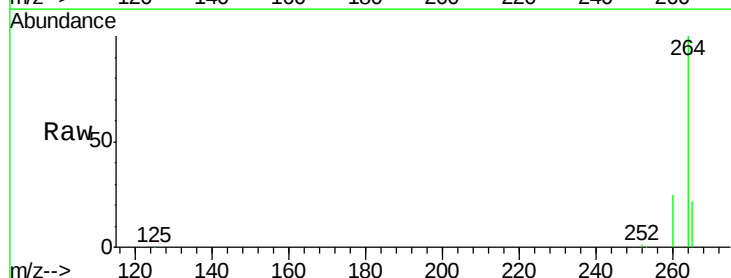
Instrument :
 BNA_E
 ClientSampleId :
 SB-4

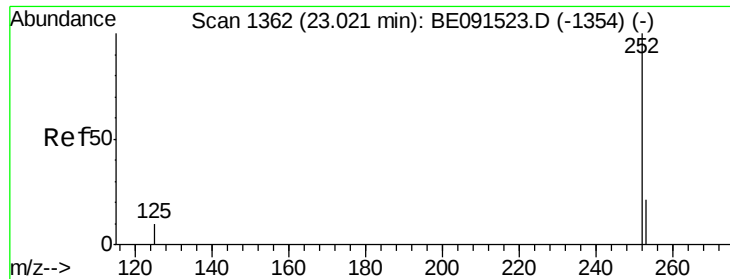
Tgt Ion: 276 Resp: 91875
 Ion Ratio Lower Upper
 276 100
 138 21.3 20.2 30.4
 277 24.2 19.8 29.8



#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.78 min Scan# 1429
 Delta R.T. -0.01 min
 Lab File: BE091548.D
 Acq: 28 Mar 2016 21:38

Tgt Ion: 264 Resp: 371184
 Ion Ratio Lower Upper
 264 100
 260 24.7 20.1 30.1
 265 22.4 18.3 27.5





#29

Benzo(b)fluoranthene

Concen: 3.41 ng

RT: 23.02 min Scan# 1363

Delta R.T. -0.01 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

Instrument :

BNA_E

ClientSampleId :

SB-4

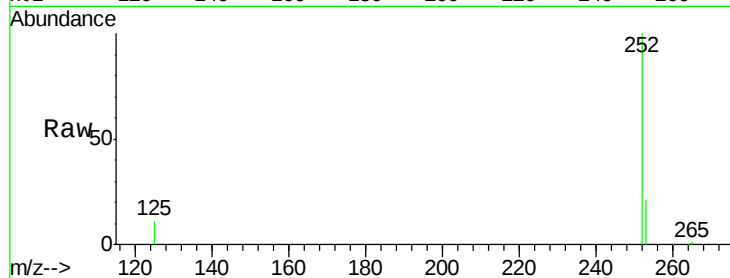
Tgt Ion:252 Resp: 281553

Ion Ratio Lower Upper

252 100

253 21.3 18.7 28.1

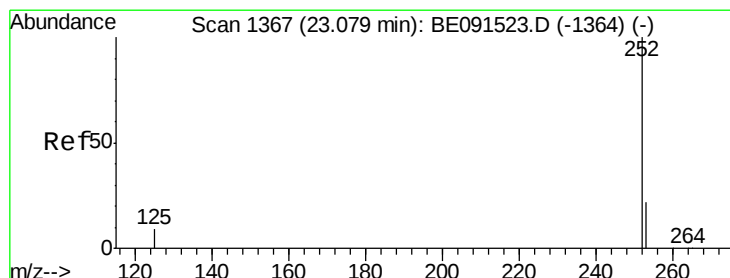
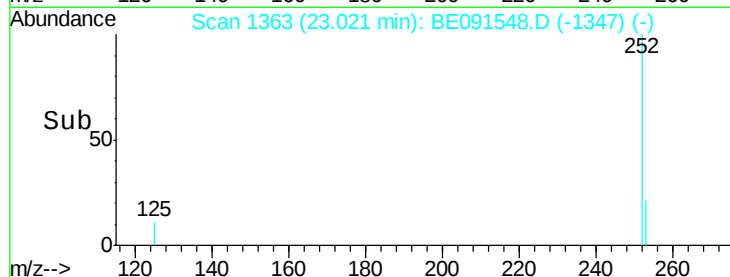
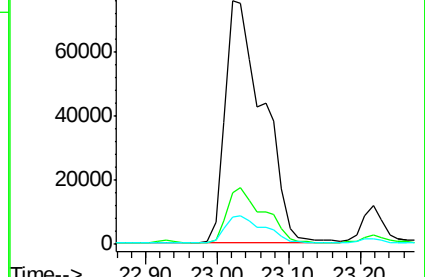
125 11.4 9.8 14.6



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: 3.43 ng

RT: 23.02 min Scan# 1363

Delta R.T. -0.06 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

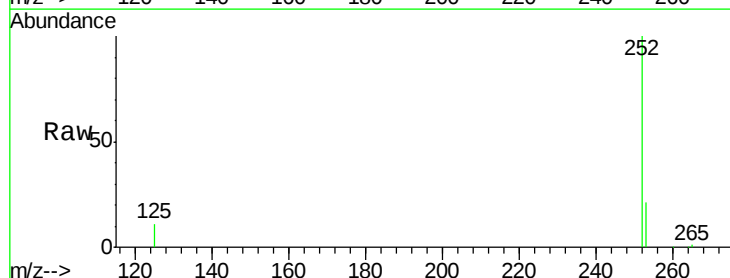
Tgt Ion:252 Resp: 281553

Ion Ratio Lower Upper

252 100

253 21.3 20.2 30.4

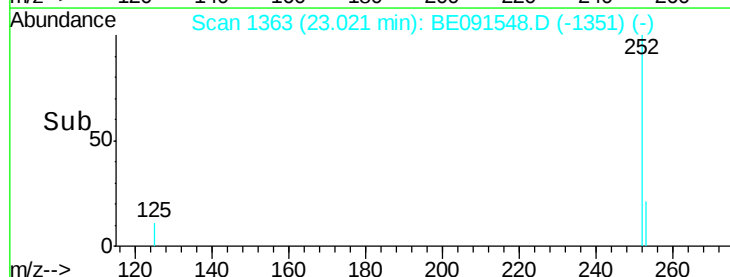
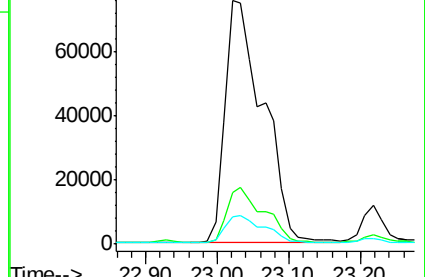
125 11.4 9.4 14.2

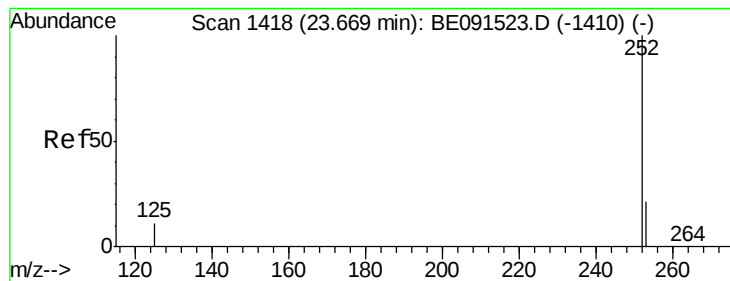


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#31

Benzo(a)pyrene

Concen: 1.42 ng

RT: 23.56 min Scan# 1410

Delta R.T. -0.11 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

Instrument :

BNA_E

ClientSampleId :

SB-4

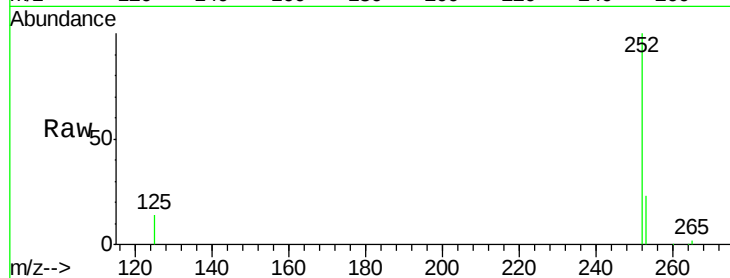
Tgt Ion:252 Resp: 105228

Ion Ratio Lower Upper

252 100

253 23.1 19.4 29.0

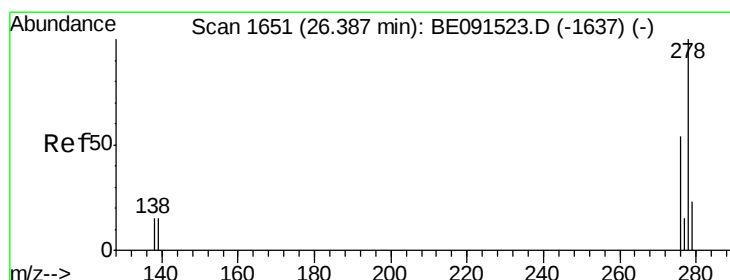
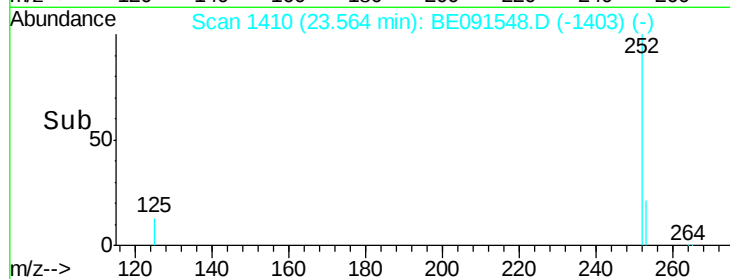
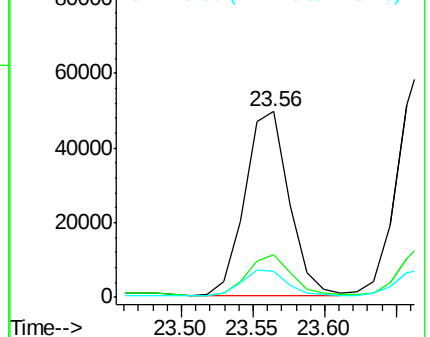
125 14.0 11.4 17.2



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: 0.30 ng

RT: 26.36 min Scan# 1650

Delta R.T. -0.03 min

Lab File: BE091548.D

Acq: 28 Mar 2016 21:38

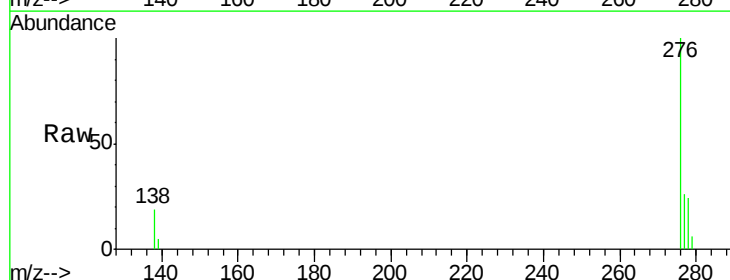
Tgt Ion:278 Resp: 21840

Ion Ratio Lower Upper

278 100

139 20.7 14.2 21.4

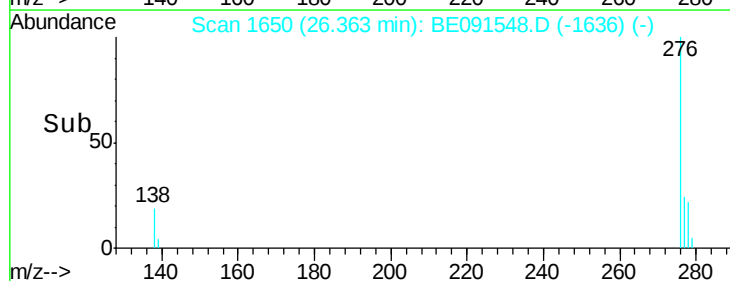
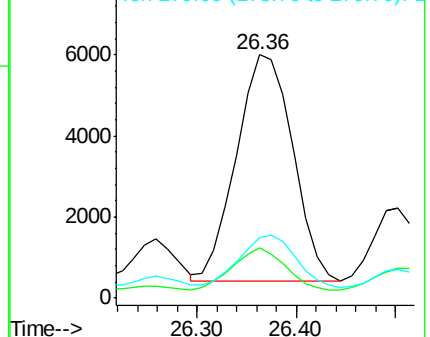
279 24.8 19.6 29.4

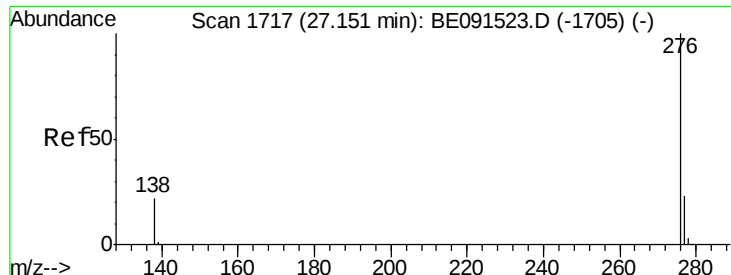


Abundance Ion 278.00 (277.70 to 278.70): E

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: 1.26 ng

RT: 27.15 min Scan# 1718

Delta R.T. -0.01 min

Lab File: BE091548.D

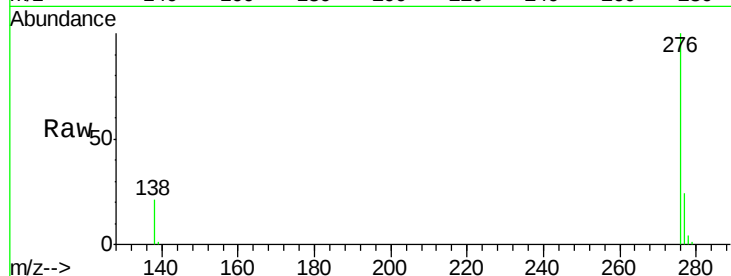
Acq: 28 Mar 2016 21:38

Instrument :

BNA_E

ClientSampleId :

SB-4



Tgt Ion: 276 Resp: 96126

Ion Ratio Lower Upper

276 100

277 24.2 19.4 29.2

138 21.0 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

