

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031916\
 Data File : BE097493.D
 Acq On : 18 Mar 2016 21:33
 Operator : UM/SJ
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 19 00:00:31 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 14:14:30 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	65249	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	289642	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	167220	5.00	ng	0.00
16) Phenanthrene-d10	17.17	188	420814	5.00	ng	-0.01
22) Chrysene-d12	21.34	240	510058	5.00	ng	0.00
28) Perylene-d12	23.80	264	493650	5.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.43	112	5016	0.33	ng	0.00
5) Phenol-d6	6.99	99	6468	0.33	ng	0.00
7) Nitrobenzene-d5	8.98	82	4564	0.50	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	2041	0.57	ng	-0.01
12) 2-Fluorobiphenyl	13.07	172	15233	0.36	ng	0.00
24) Terphenyl-d14	19.78	244	24688	0.40	ng	-0.02

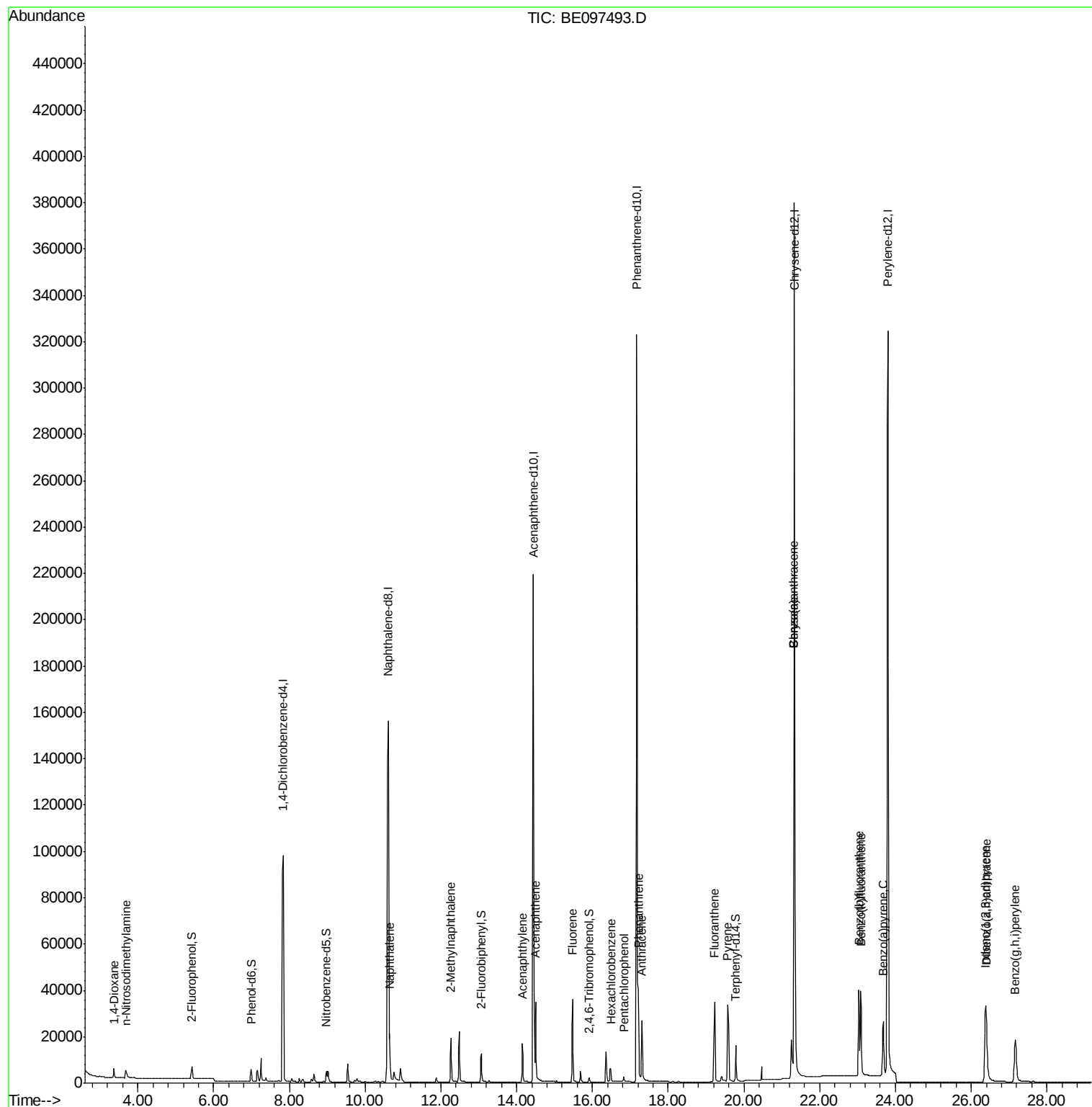
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.37	88	3062	0.38	ng	99
3) n-Nitrosodimethylamine	3.68	42	3771	0.33	ng	100
8) Naphthalene	10.65	128	27434	0.39	ng	96
9) 2-Methylnaphthalene	12.26	142	16048	0.35	ng	95
13) Acenaphthylene	14.15	152	22964	0.40	ng	100
14) Acenaphthene	14.50	154	18921	0.37	ng	95
15) Fluorene	15.48	166	23540	0.36	ng	100
17) Hexachlorobenzene	16.48	284	6746	0.37	ng	96
18) Pentachlorophenol	16.83	266	1972	0.40	ng	# 86
19) Phenanthrene	17.22	178	45537	0.38	ng	99
20) Anthracene	17.30	178	35963	0.34	ng	100
21) Fluoranthene	19.22	202	44770	0.32	ng	98
23) Pyrene	19.57	202	46641	0.37	ng	98
25) Benzo(a)anthracene	21.31	228	56173	0.40	ng	# 90
26) Chrysene	21.31	228	56134	0.43	ng	97
27) Indeno(1,2,3-cd)pyrene	26.37	276	54197	0.37	ng	99
29) Benzo(b)fluoranthene	23.03	252	53827	0.34	ng	98
30) Benzo(k)fluoranthene	23.08	252	55224	0.35	ng	95
31) Benzo(a)pyrene	23.68	252	43102	0.31	ng	98
32) Dibenzo(a,h)anthracene	26.40	278	45659	0.34	ng	99
33) Benzo(g,h,i)perylene	27.16	276	47798	0.34	ng	100

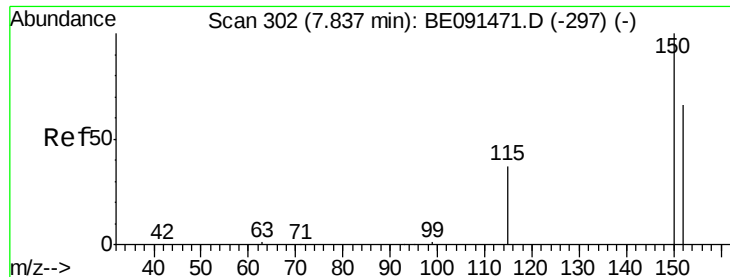
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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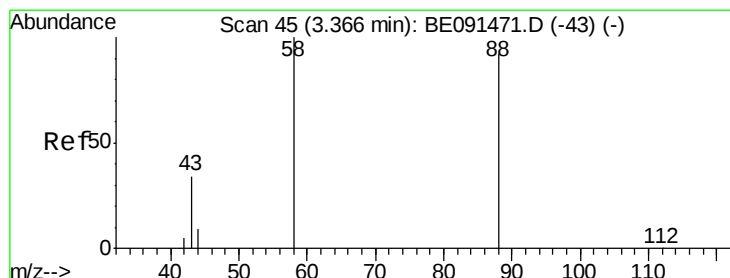
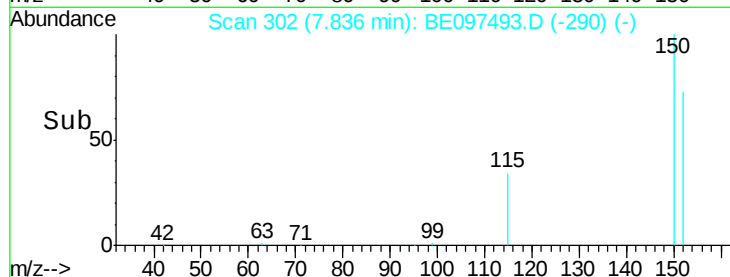
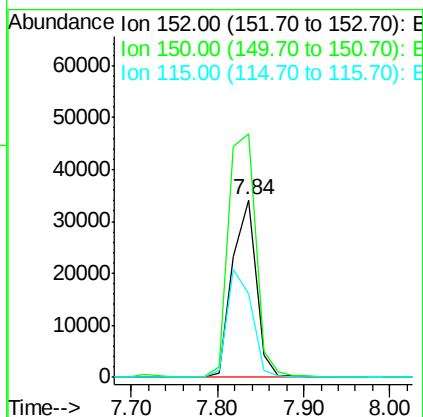
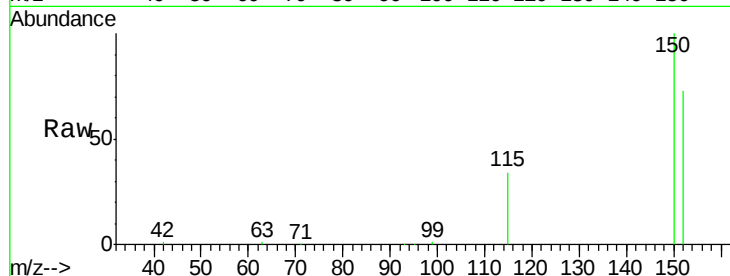




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 7.84 min Scan# 302
 Delta R.T. -0.00 min
 Lab File: BE097493.D
 Acq: 18 Mar 2016 21:33

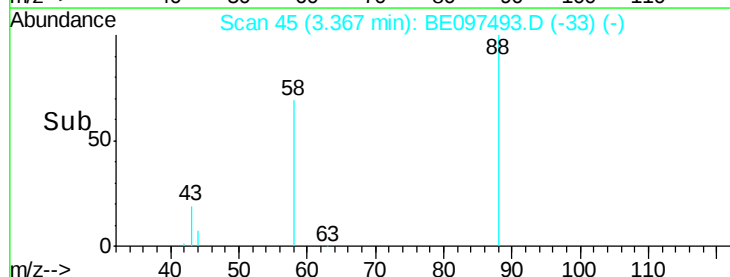
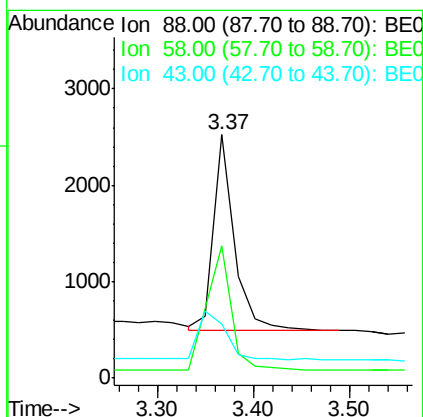
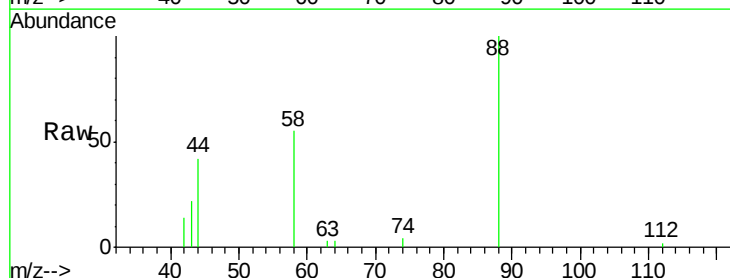
Instrument :
 BNA_E
 ClientSampleId :

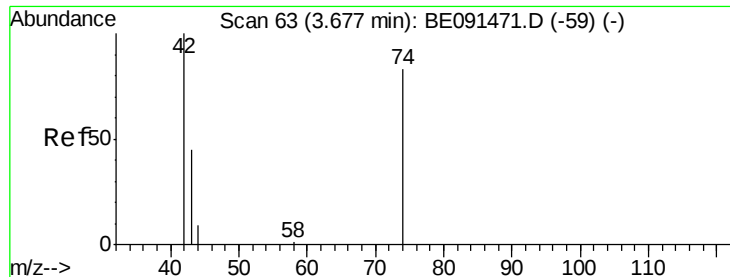
Tgt Ion: 152 Resp: 65249
 Ion Ratio Lower Upper
 152 100
 150 137.3 122.2 183.2
 115 47.2 45.9 68.9



#2
 1,4-Dioxane
 Concen: 0.38 ng
 RT: 3.37 min Scan# 45
 Delta R.T. 0.00 min
 Lab File: BE097493.D
 Acq: 18 Mar 2016 21:33

Tgt Ion: 88 Resp: 3062
 Ion Ratio Lower Upper
 88 100
 58 75.1 61.0 91.6
 43 32.4 25.4 38.2





#3

n-Nitrosodimethylamine

Concen: 0.33 ng

RT: 3.68 min Scan# 63

Delta R.T. 0.00 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

Instrument :

BNA_E

ClientSampled :

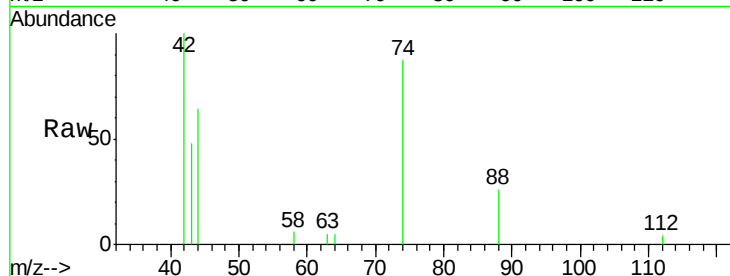
Tgt Ion: 42 Resp: 3771

Ion Ratio Lower Upper

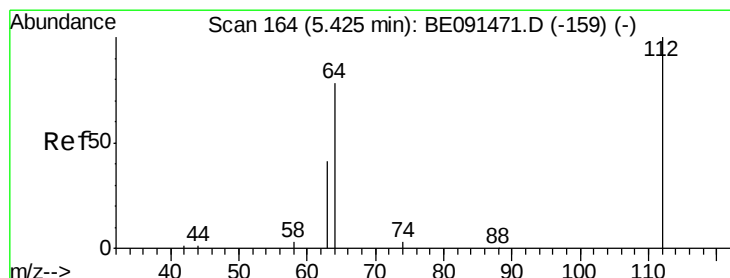
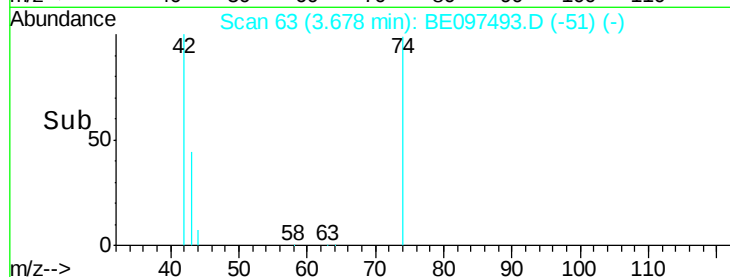
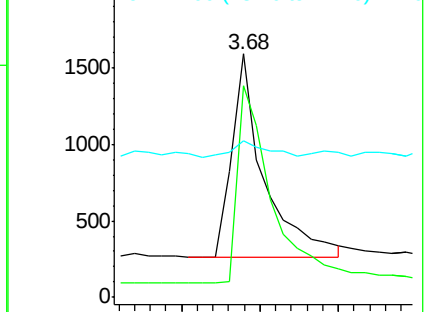
42 100

74 105.6 84.3 126.5

44 9.0 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: 0.33 ng

RT: 5.43 min Scan# 164

Delta R.T. 0.00 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

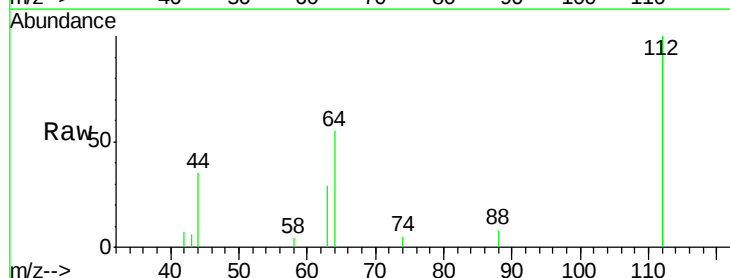
Tgt Ion: 112 Resp: 5016

Ion Ratio Lower Upper

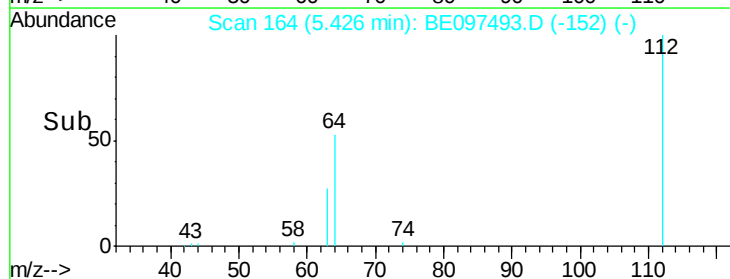
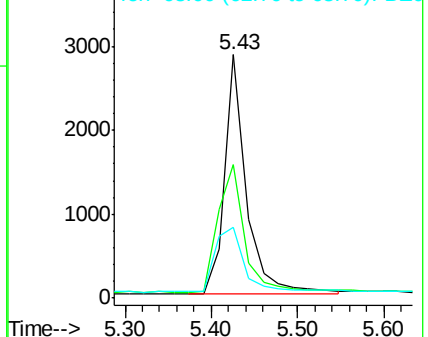
112 100

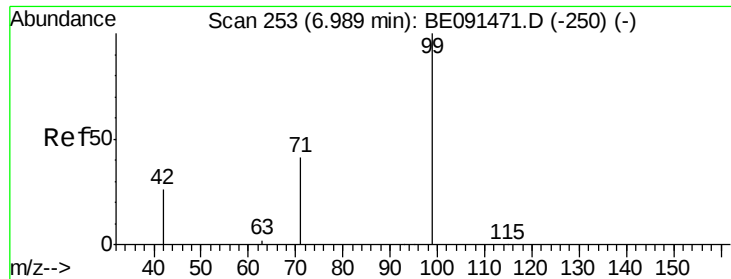
64 65.6 53.3 79.9

63 37.7 29.8 44.8



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.33 ng

RT: 6.99 min Scan# 253

Delta R.T. -0.00 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

Instrument :

BNA_E

ClientSampleId :

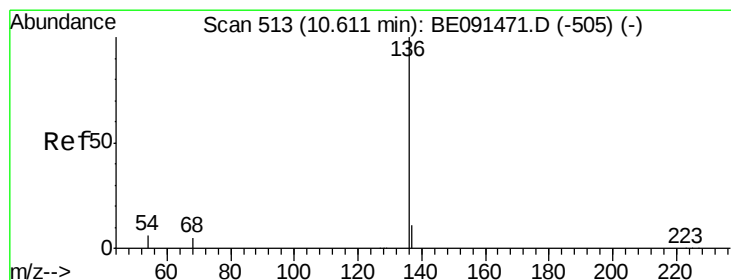
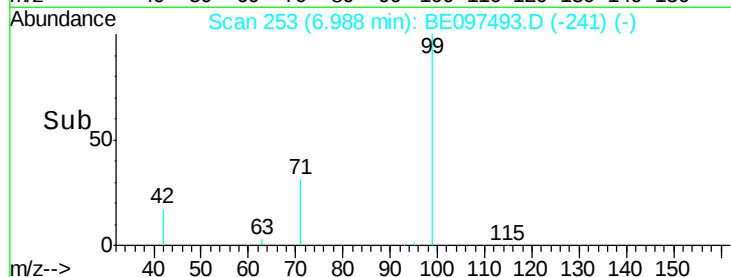
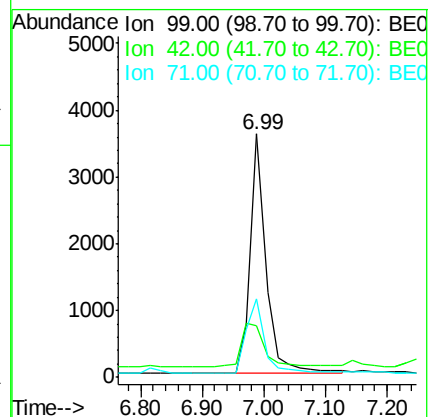
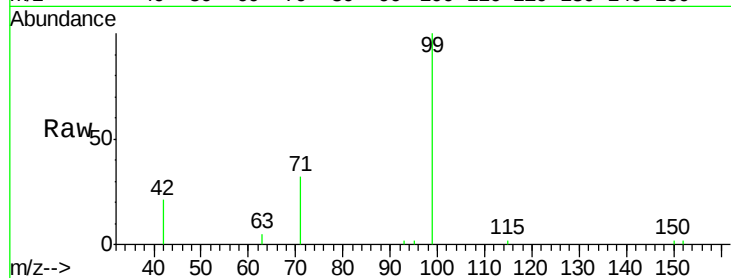
Tgt Ion: 99 Resp: 6468

Ion Ratio Lower Upper

99 100

42 27.7 20.6 30.8

71 36.2 29.0 43.4



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.61 min Scan# 513

Delta R.T. -0.00 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

Tgt Ion: 136 Resp: 289642

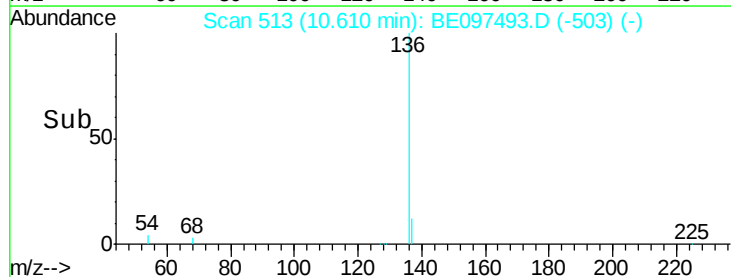
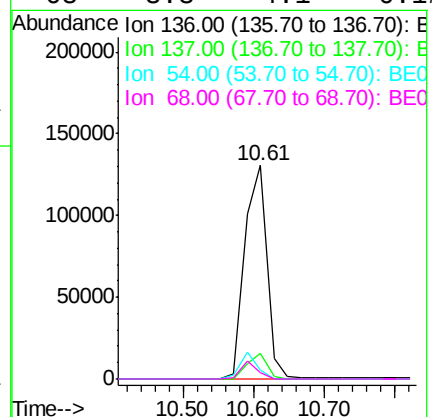
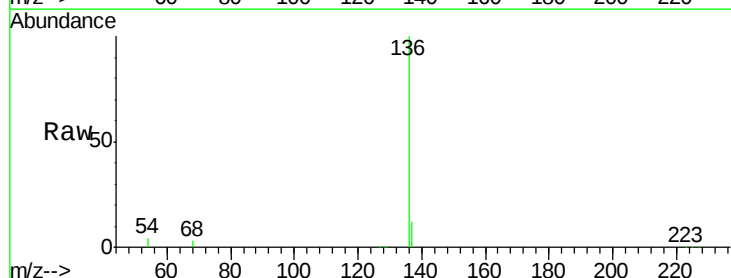
Ion Ratio Lower Upper

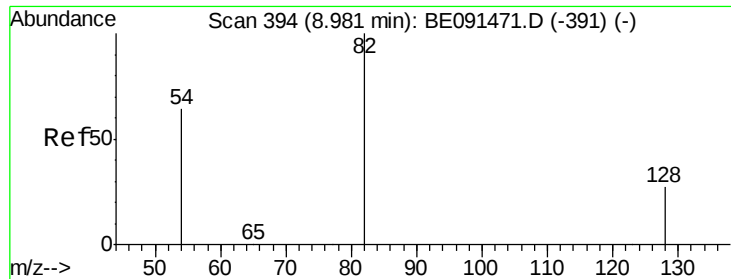
136 100

137 12.1 8.8 13.2

54 3.9 5.2 7.8#

68 3.3 4.1 6.1#





#7

Nitrobenzene-d5

Concen: 0.50 ng

RT: 8.98 min Scan# 394

Delta R.T. 0.00 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

Instrument :

BNA_E

ClientSampleId :

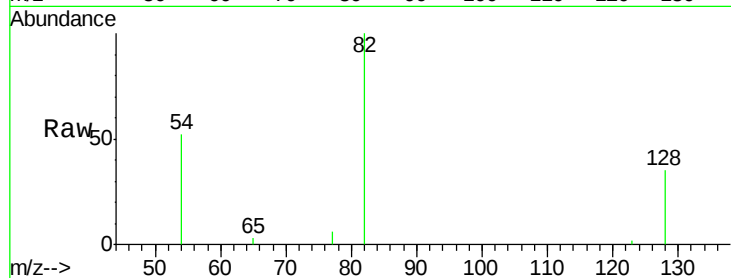
Tgt Ion: 82 Resp: 4564

Ion Ratio Lower Upper

82 100

128 34.5 23.5 35.3

54 52.0 52.4 78.6#



Abundance Ion 82.00 (81.70 to 82.70): BE091471.D (-391) (-)

Ion 128.00 (127.70 to 128.70): BE091471.D (-391) (-)

Ion 54.00 (53.70 to 54.70): BE091471.D (-391) (-)

8.98

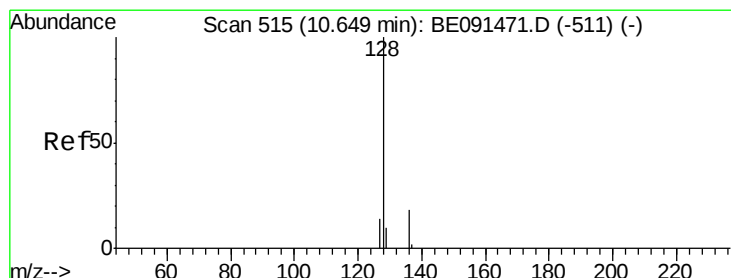
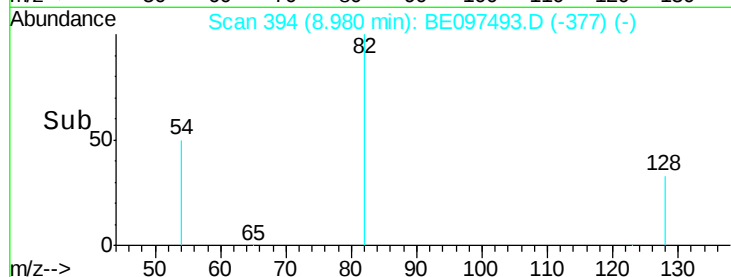
2000

1000

0

Time-->

8.90 9.00 9.10 9.20



#8

Naphthalene

Concen: 0.39 ng

RT: 10.65 min Scan# 515

Delta R.T. -0.00 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

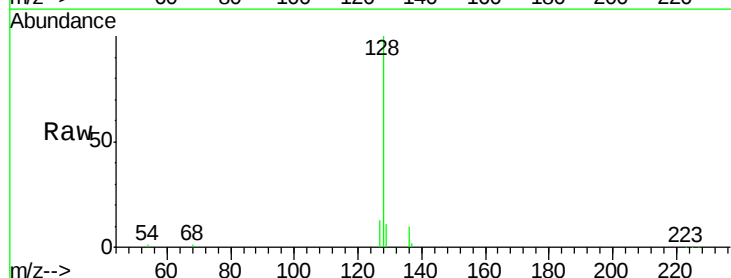
Tgt Ion: 128 Resp: 27434

Ion Ratio Lower Upper

128 100

129 11.2 8.2 12.2

127 13.0 11.8 17.8



Abundance Ion 128.00 (127.70 to 128.70): BE091471.D (-511) (-)

Ion 129.00 (128.70 to 129.70): BE091471.D (-511) (-)

Ion 127.00 (126.70 to 127.70): BE091471.D (-511) (-)

10.65

20000

15000

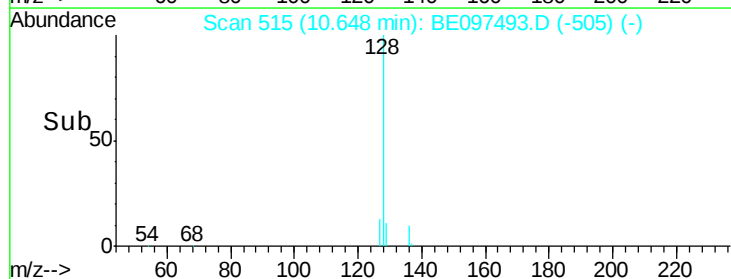
10000

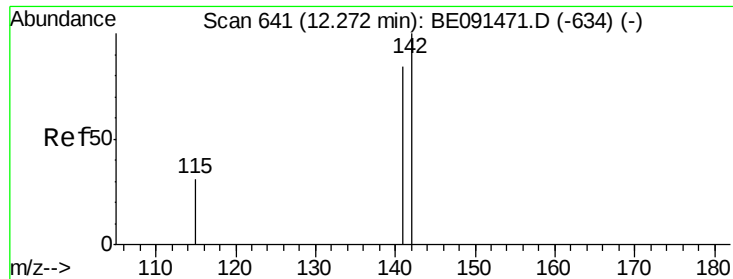
5000

0

Time-->

10.50 10.60 10.70





#9

2-Methylnaphthalene

Concen: 0.35 ng

RT: 12.26 min Scan# 640

Delta R.T. -0.01 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

Instrument :

BNA_E

ClientSampleId :

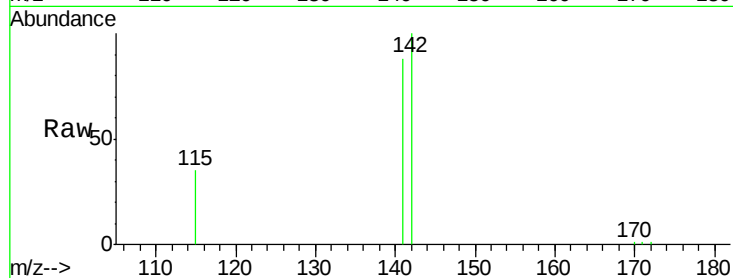
Tgt Ion:142 Resp: 16048

Ion Ratio Lower Upper

142 100

141 88.1 66.9 100.3

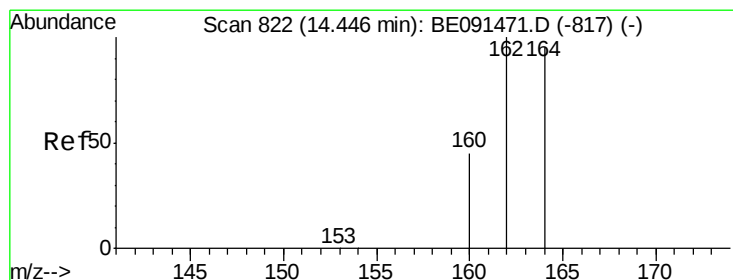
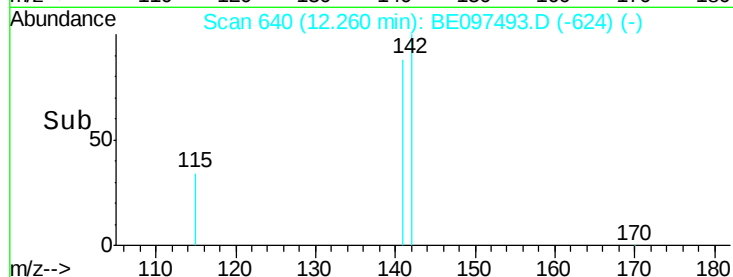
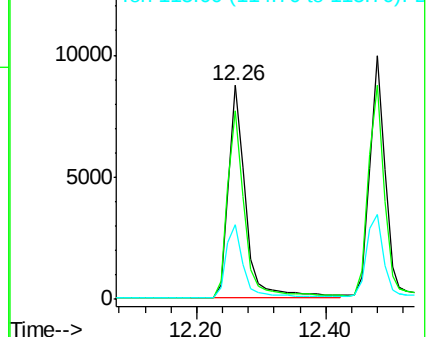
115 34.7 25.1 37.7



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: 14.44 min Scan# 822

Delta R.T. -0.00 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

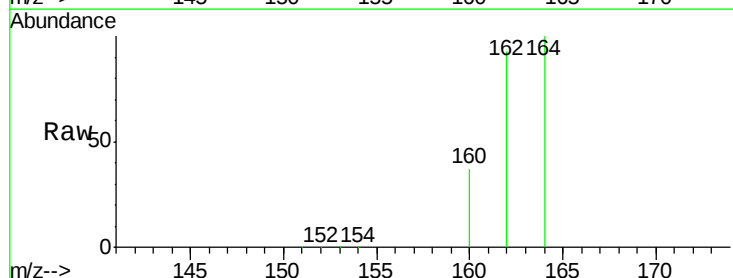
Tgt Ion:164 Resp: 167220

Ion Ratio Lower Upper

164 100

162 92.8 84.4 126.6

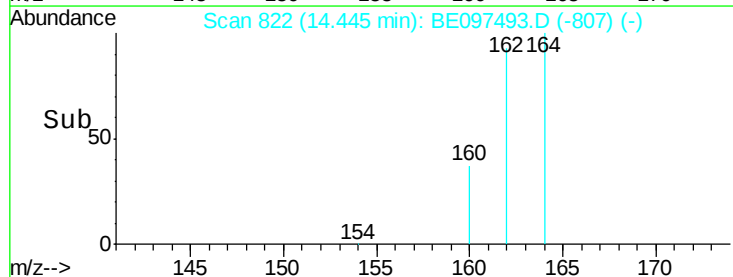
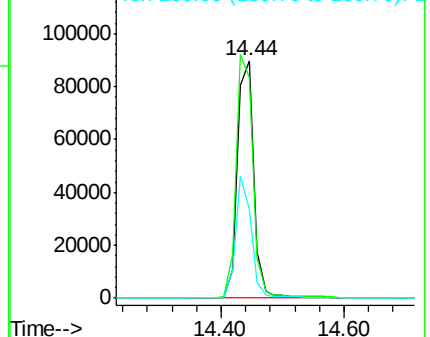
160 37.4 37.7 56.5#

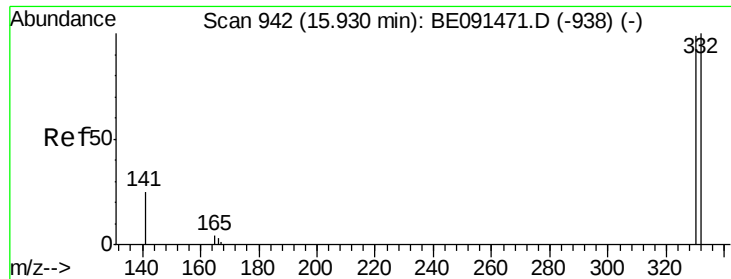


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

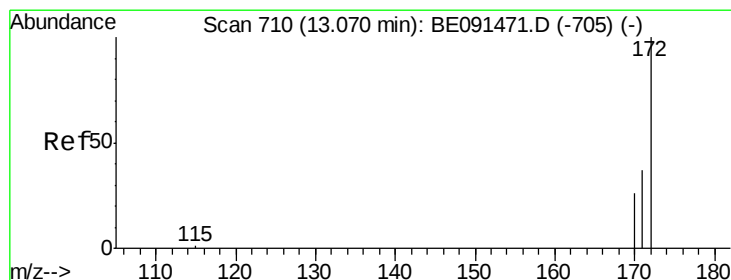
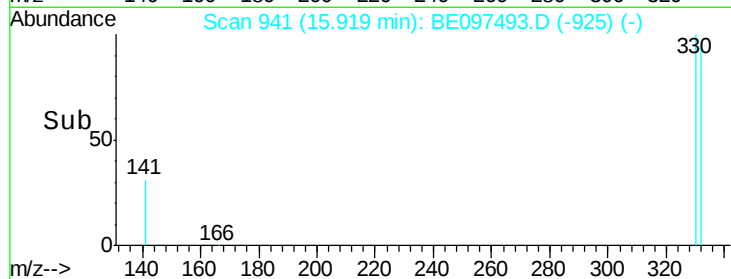
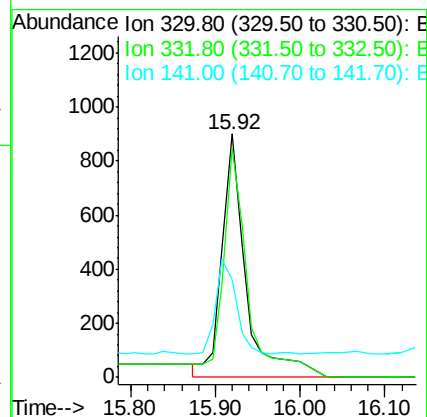
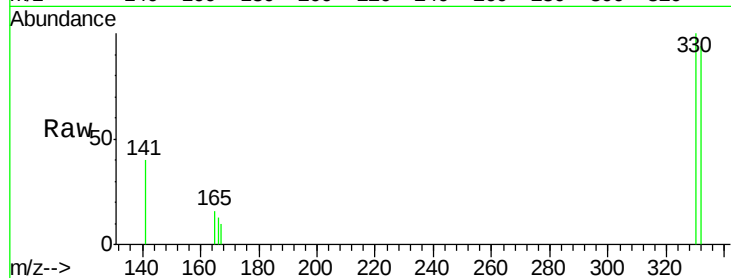




#11
 2,4,6-Tribromophenol
 Concen: 0.57 ng
 RT: 15.92 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: BE097493.D
 Acq: 18 Mar 2016 21:33

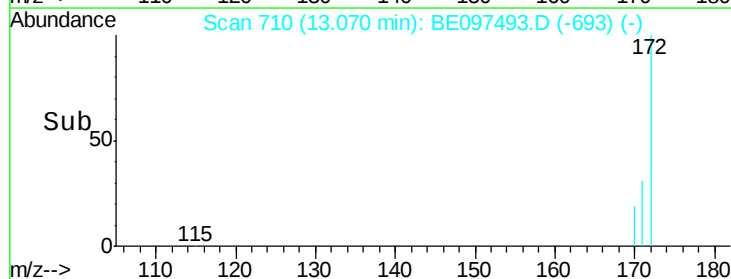
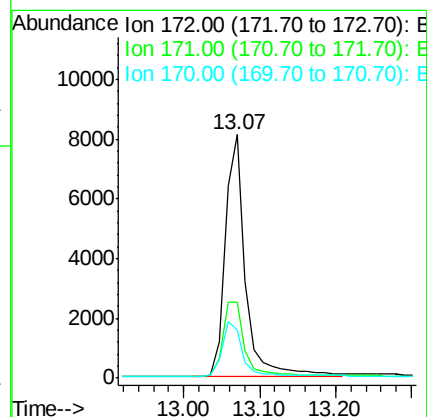
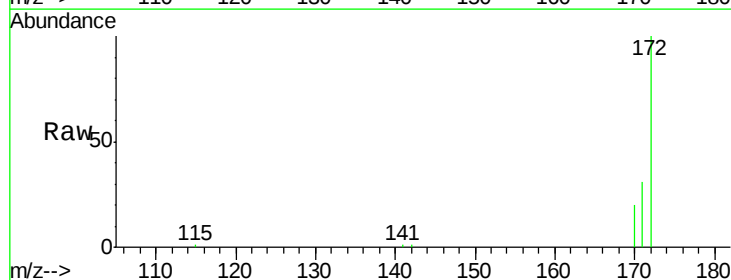
Instrument :
 BNA_E
 ClientSampleId :

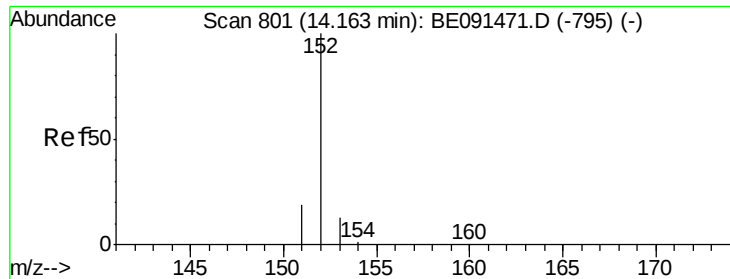
Tgt Ion:330 Resp: 2041
 Ion Ratio Lower Upper
 330 100
 332 94.9 79.2 118.8
 141 29.2 28.1 42.1



#12
 2-Fluorobiphenyl
 Concen: 0.36 ng
 RT: 13.07 min Scan# 710
 Delta R.T. -0.00 min
 Lab File: BE097493.D
 Acq: 18 Mar 2016 21:33

Tgt Ion:172 Resp: 15233
 Ion Ratio Lower Upper
 172 100
 171 31.4 29.8 44.8
 170 19.8 21.4 32.2#





#13

Acenaphthylene

Concen: 0.40 ng

RT: 14.15 min Scan# 800

Delta R.T. -0.01 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

Instrument :

BNA_E

ClientSampleId :

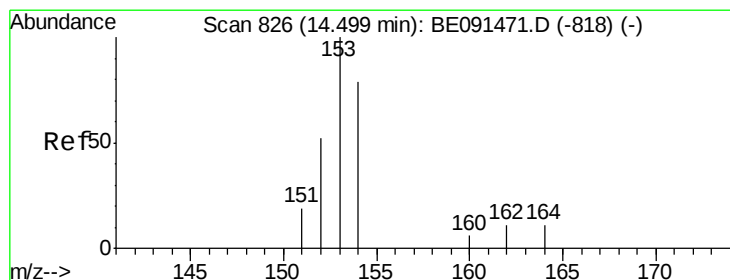
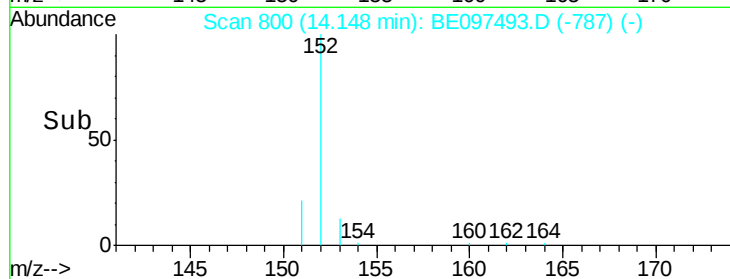
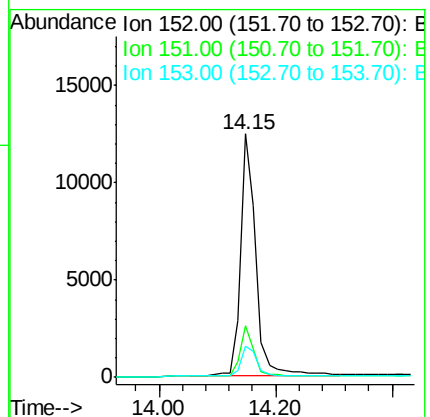
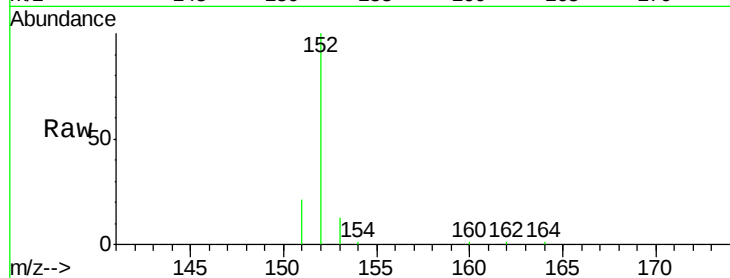
Tgt Ion:152 Resp: 22964

Ion Ratio Lower Upper

152 100

151 20.3 16.3 24.5

153 13.7 11.1 16.7



#14

Acenaphthene

Concen: 0.37 ng

RT: 14.50 min Scan# 826

Delta R.T. -0.00 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

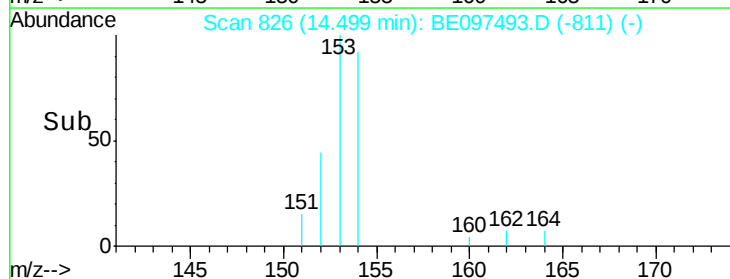
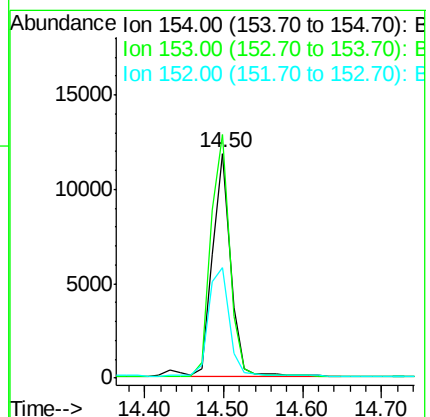
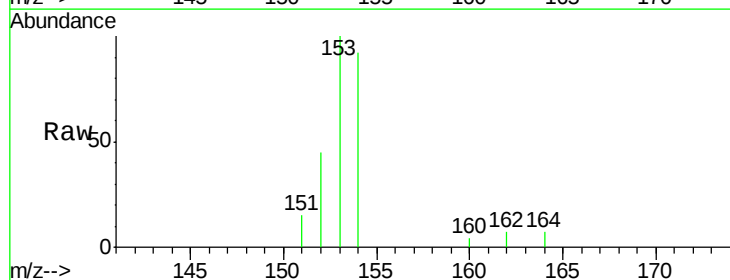
Tgt Ion:154 Resp: 18921

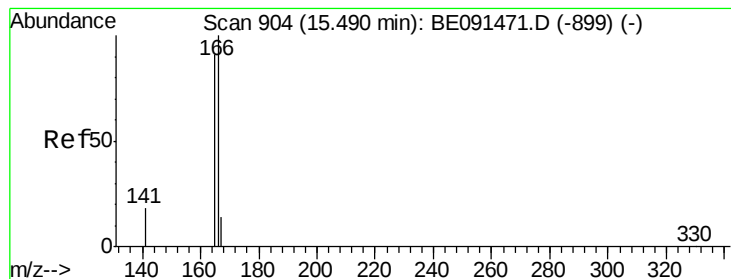
Ion Ratio Lower Upper

154 100

153 114.8 87.3 130.9

152 55.7 42.9 64.3





#15

Fluorene

Concen: 0.36 ng

RT: 15.48 min Scan# 903

Delta R.T. -0.01 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

Instrument :

BNA_E

ClientSampleId :

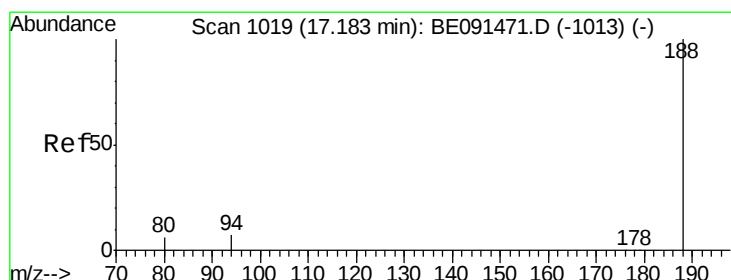
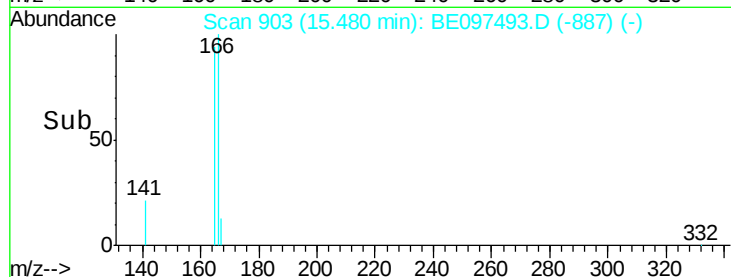
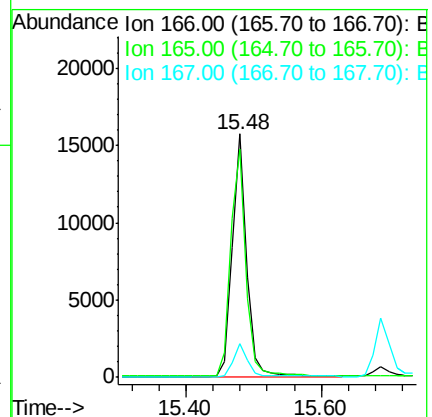
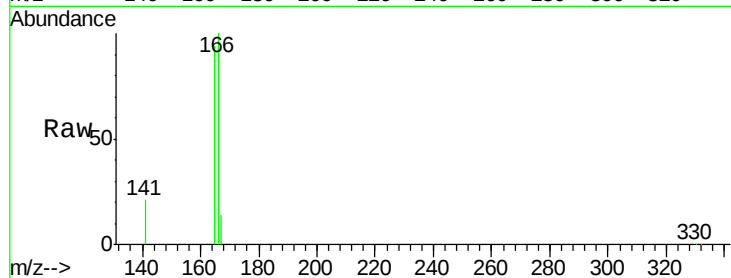
Tgt Ion:166 Resp: 23540

Ion Ratio Lower Upper

166 100

165 99.2 79.2 118.8

167 13.4 10.8 16.2



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.17 min Scan# 1017

Delta R.T. -0.01 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

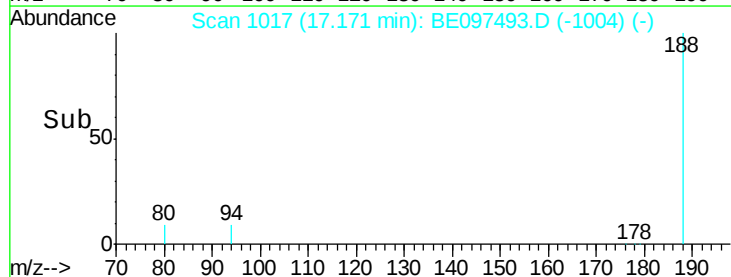
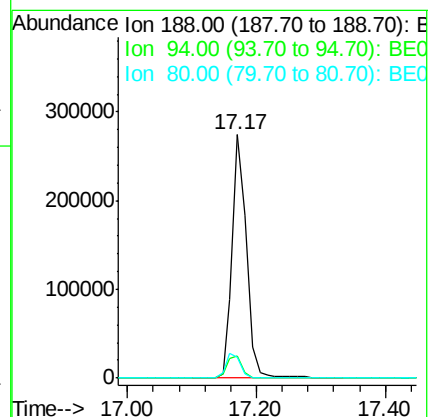
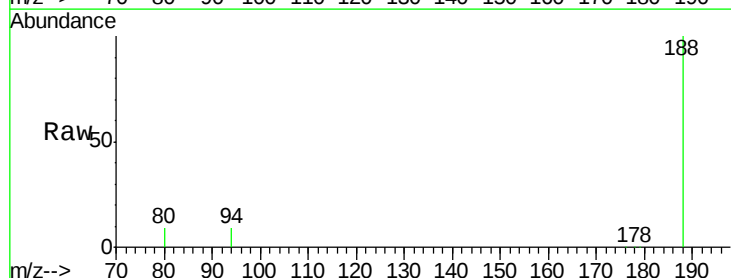
Tgt Ion:188 Resp: 420814

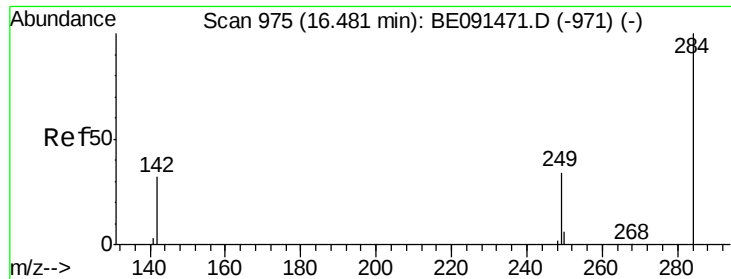
Ion Ratio Lower Upper

188 100

94 8.8 5.4 8.2#

80 8.8 5.0 7.4#

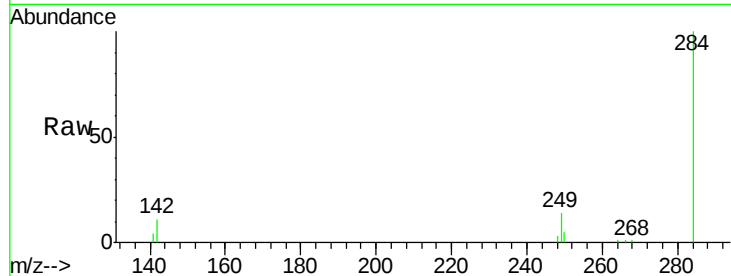




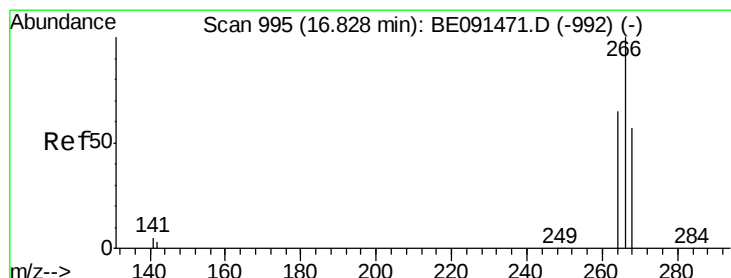
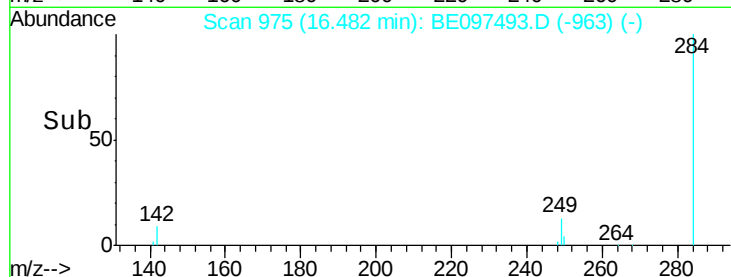
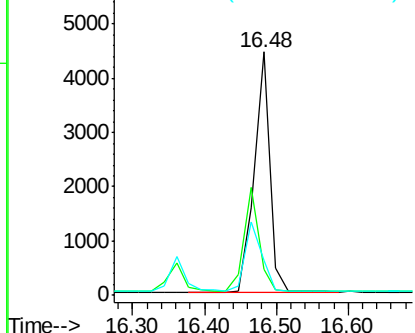
#17
Hexachlorobenzene
Concen: 0.37 ng
RT: 16.48 min Scan# 975
Delta R.T. 0.00 min
Lab File: BE097493.D
Acq: 18 Mar 2016 21:33

Instrument :
BNA_E
ClientSampleId :

Tgt Ion: 284 Resp: 6746
Ion Ratio Lower Upper
284 100
142 40.8 31.0 46.4
249 30.2 25.8 38.8

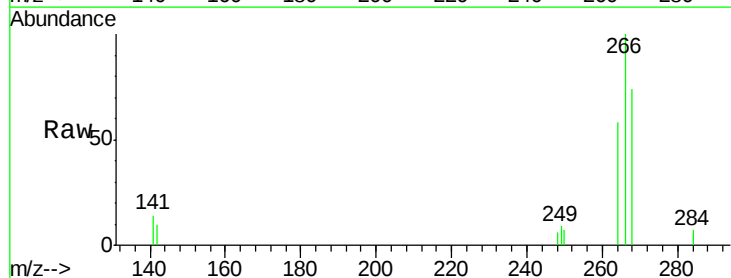


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

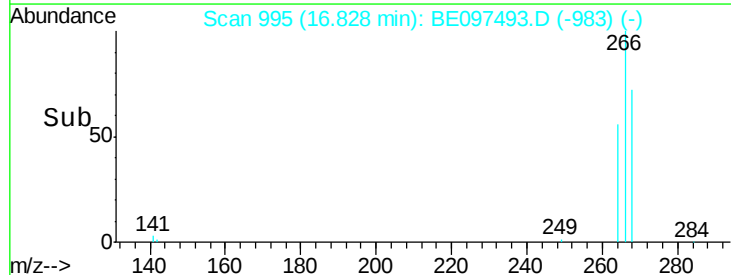
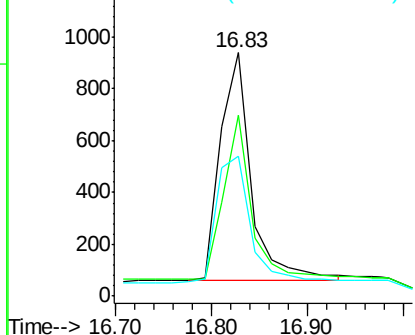


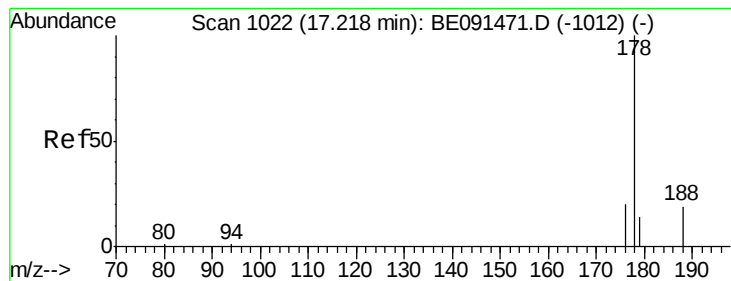
#18
Pentachlorophenol
Concen: 0.40 ng
RT: 16.83 min Scan# 995
Delta R.T. 0.00 min
Lab File: BE097493.D
Acq: 18 Mar 2016 21:33

Tgt Ion: 266 Resp: 1972
Ion Ratio Lower Upper
266 100
268 74.3 48.2 72.2#
264 57.6 52.1 78.1



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E





#19

Phenanthrene

Concen: 0.38 ng

RT: 17.22 min Scan# 1021

Delta R.T. -0.00 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

Instrument :

BNA_E

ClientSampleId :

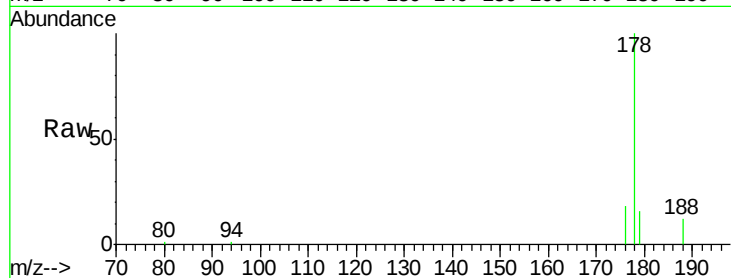
Tgt Ion:178 Resp: 45537

Ion Ratio Lower Upper

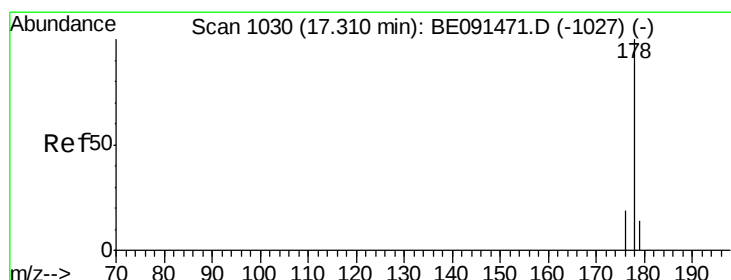
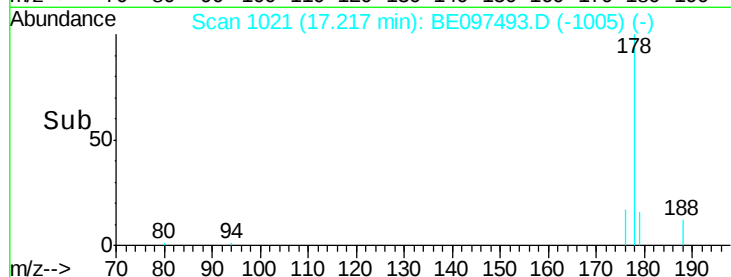
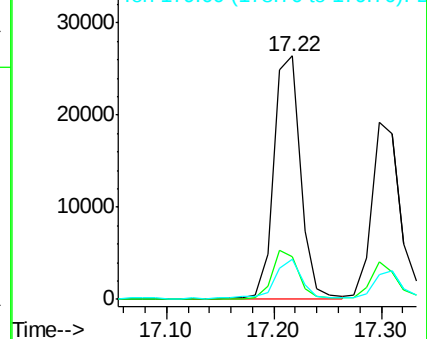
178 100

176 19.3 15.5 23.3

179 15.8 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: 0.34 ng

RT: 17.30 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

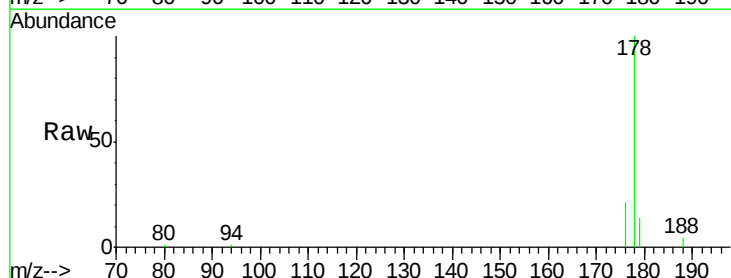
Tgt Ion:178 Resp: 35963

Ion Ratio Lower Upper

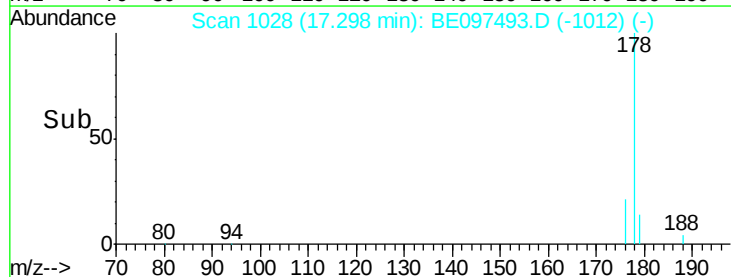
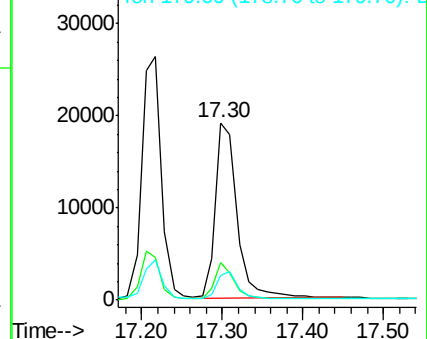
178 100

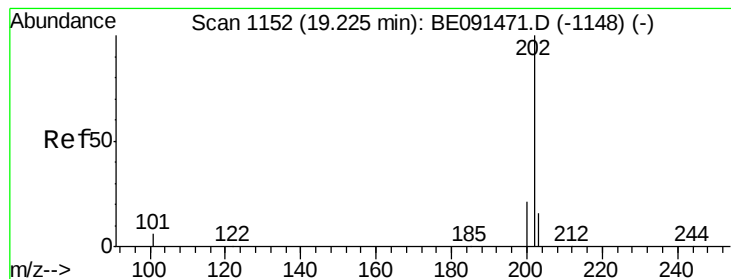
176 18.8 14.9 22.3

179 15.3 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: 0.32 ng

RT: 19.22 min Scan# 1151

Delta R.T. -0.00 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

Instrument :

BNA_E

ClientSampleId :

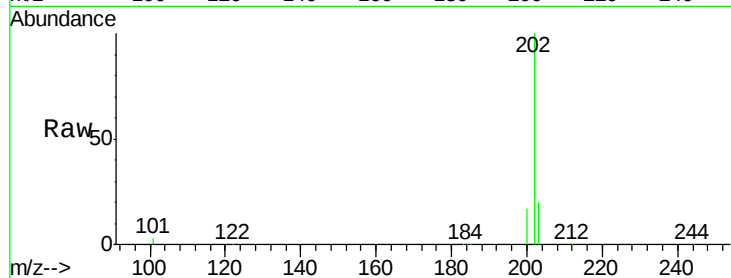
Tgt Ion:202 Resp: 44770

Ion Ratio Lower Upper

202 100

101 11.8 8.3 12.5

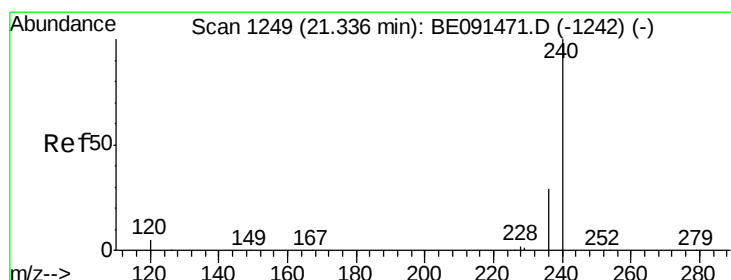
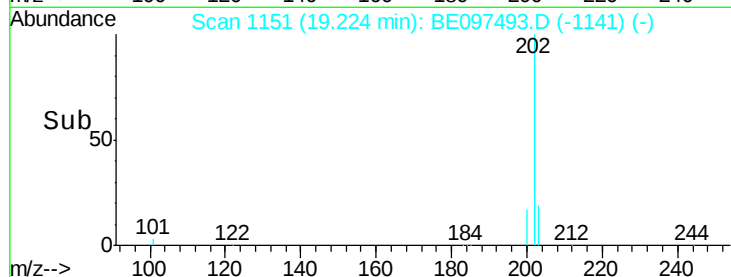
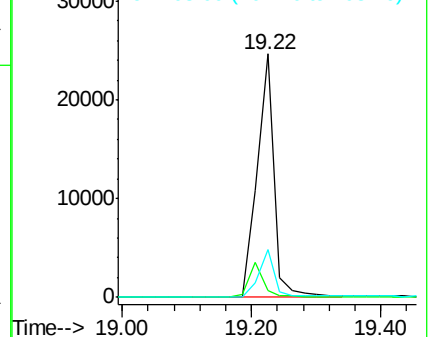
203 17.8 13.9 20.9



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: 21.34 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

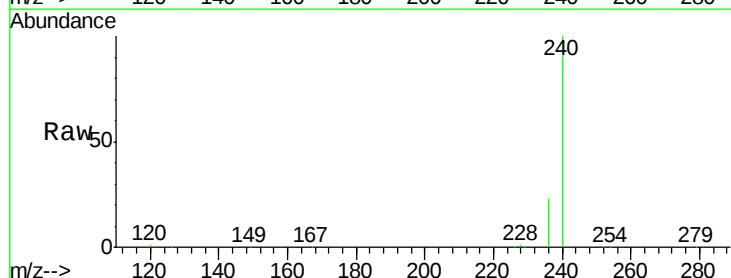
Tgt Ion:240 Resp: 510058

Ion Ratio Lower Upper

240 100

120 1.4 4.0 6.0#

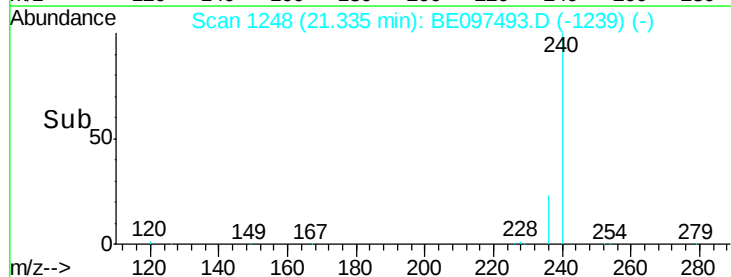
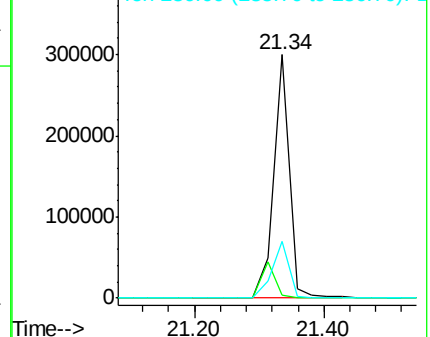
236 23.1 23.0 34.4

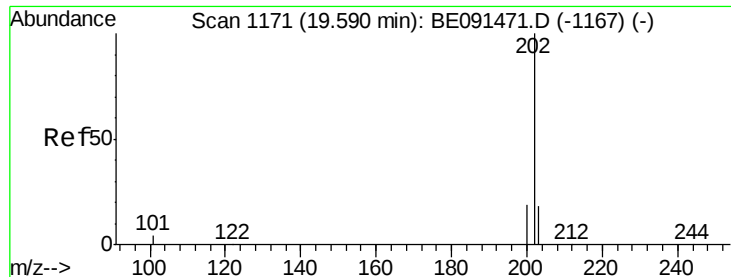


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

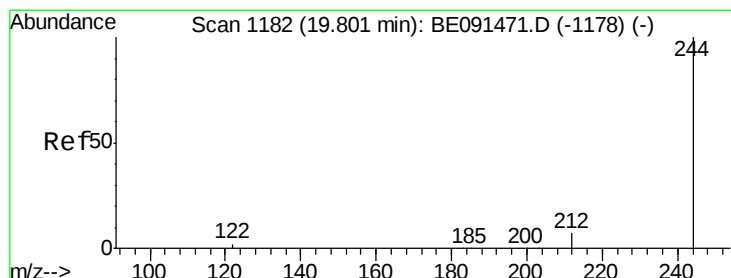
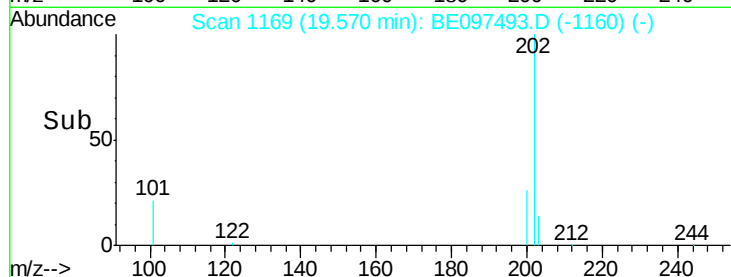
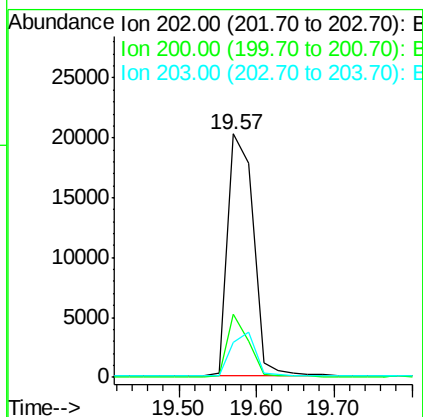
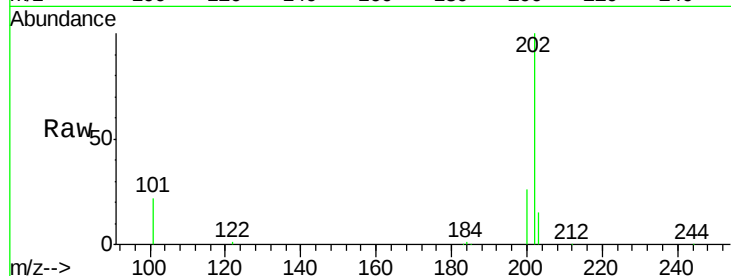




#23
 Pyrene
 Concen: 0.37 ng
 RT: 19.57 min Scan# 1169
 Delta R.T. -0.02 min
 Lab File: BE097493.D
 Acq: 18 Mar 2016 21:33

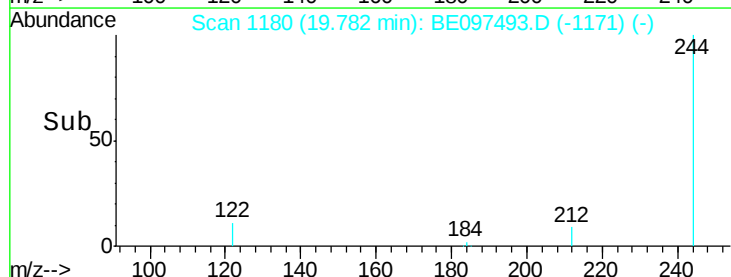
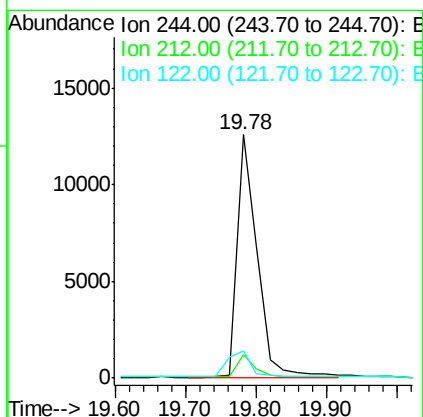
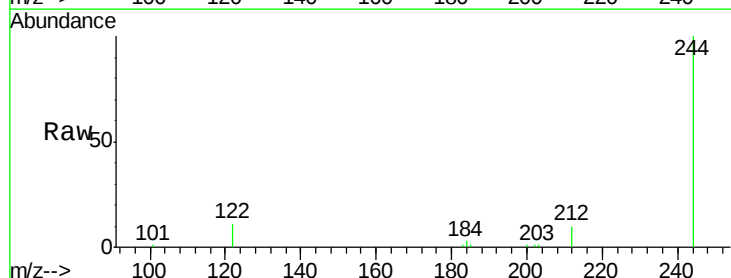
Instrument :
 BNA_E
 ClientSampleId :

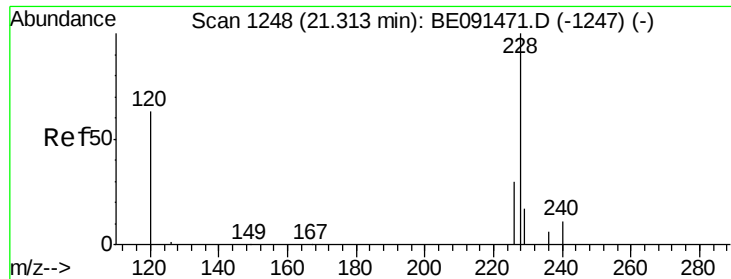
Tgt Ion: 202 Resp: 46641
 Ion Ratio Lower Upper
 202 100
 200 21.4 16.4 24.6
 203 17.7 14.6 21.8



#24
 Terphenyl-d14
 Concen: 0.40 ng
 RT: 19.78 min Scan# 1180
 Delta R.T. -0.02 min
 Lab File: BE097493.D
 Acq: 18 Mar 2016 21:33

Tgt Ion: 244 Resp: 24688
 Ion Ratio Lower Upper
 244 100
 212 9.7 5.8 8.8#
 122 11.2 1.8 2.8#

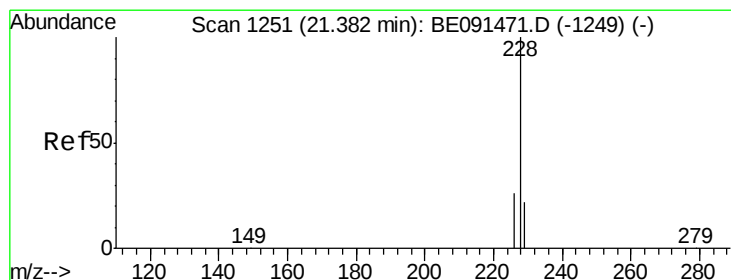
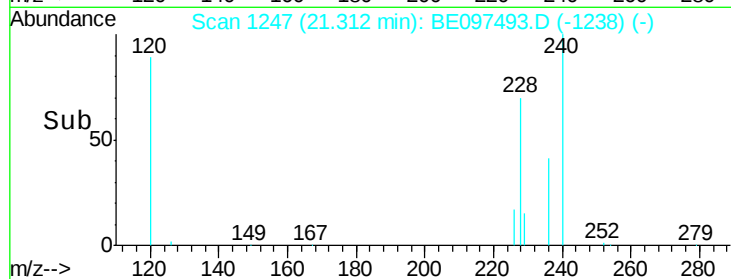
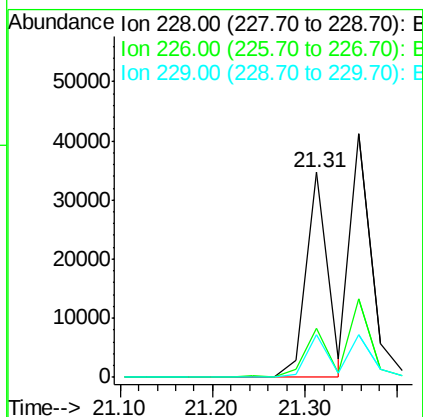
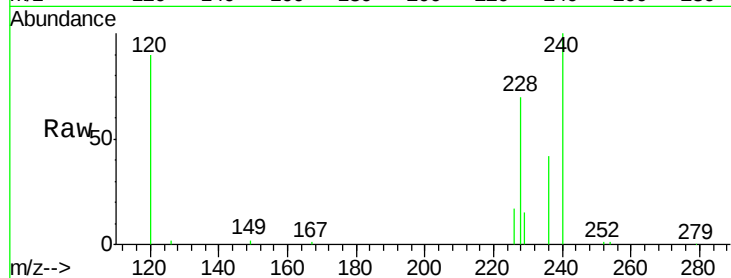




#25
Benzo(a)anthracene
Concen: 0.40 ng
RT: 21.31 min Scan# 1247
Delta R.T. -0.00 min
Lab File: BE097493.D
Acq: 18 Mar 2016 21:33

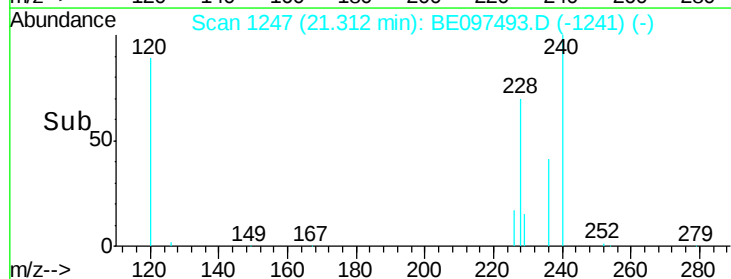
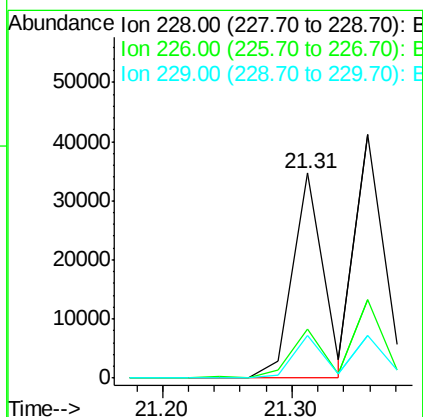
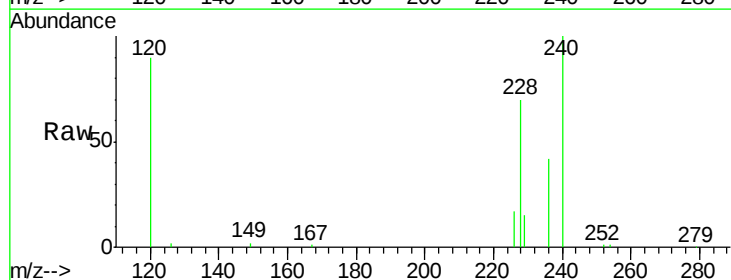
Instrument :
BNA_E
ClientSampleId :

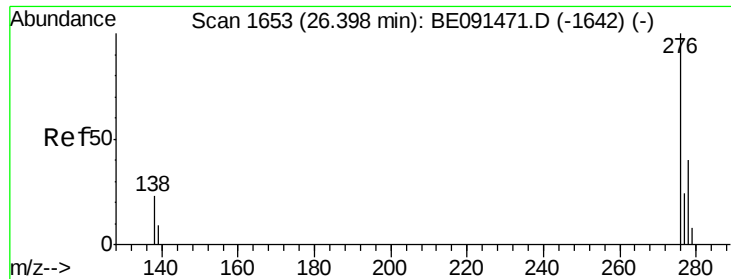
Tgt Ion:228 Resp: 56173
Ion Ratio Lower Upper
228 100
226 23.8 24.0 36.0#
229 21.0 13.8 20.6#



#26
Chrysene
Concen: 0.43 ng
RT: 21.31 min Scan# 1247
Delta R.T. -0.07 min
Lab File: BE097493.D
Acq: 18 Mar 2016 21:33

Tgt Ion:228 Resp: 56134
Ion Ratio Lower Upper
228 100
226 23.8 18.9 28.3
229 21.0 19.1 28.7

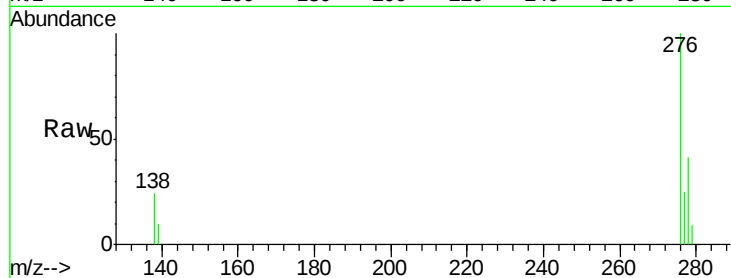




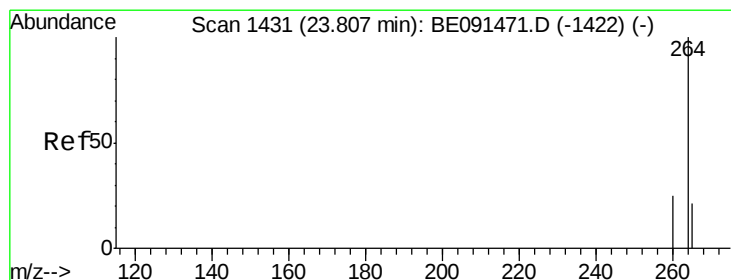
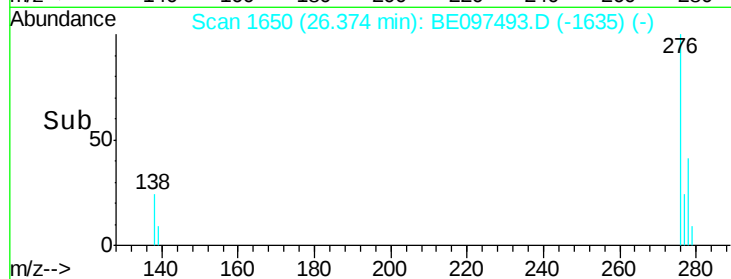
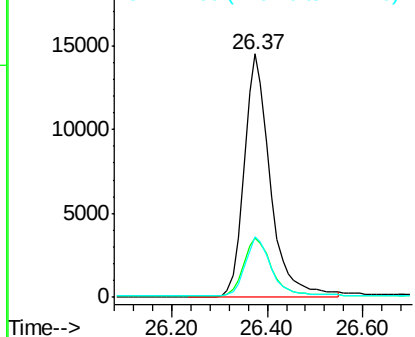
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.37 ng
 RT: 26.37 min Scan# 1650
 Delta R.T. -0.02 min
 Lab File: BE097493.D
 Acq: 18 Mar 2016 21:33

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 54197
 Ion Ratio Lower Upper
 276 100
 138 25.8 20.2 30.4
 277 24.8 19.8 29.8

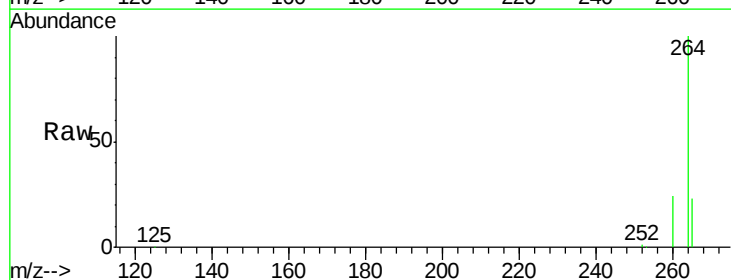


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

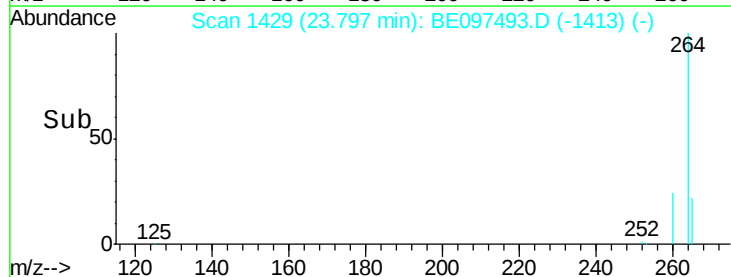
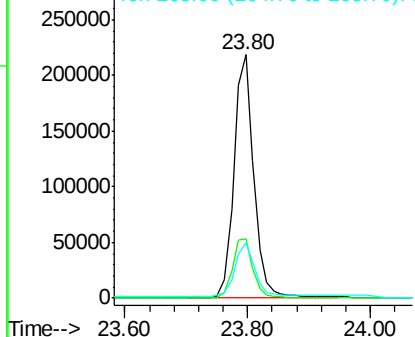


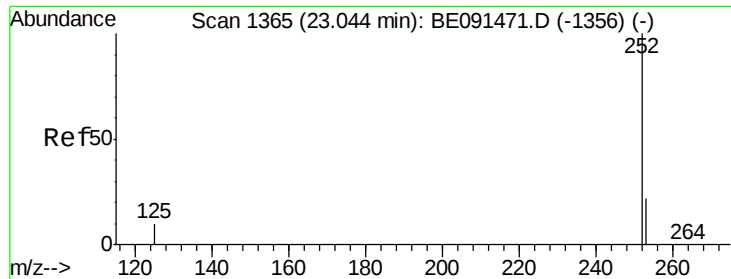
#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.80 min Scan# 1429
 Delta R.T. -0.01 min
 Lab File: BE097493.D
 Acq: 18 Mar 2016 21:33

Tgt Ion: 264 Resp: 493650
 Ion Ratio Lower Upper
 264 100
 260 24.3 20.1 30.1
 265 22.8 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: 0.34 ng

RT: 23.03 min Scan# 1363

Delta R.T. -0.01 min

Lab File: BE097493.D

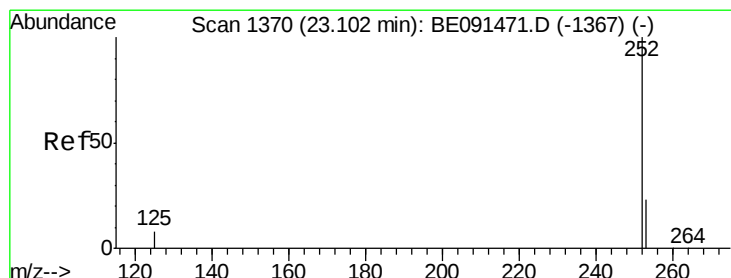
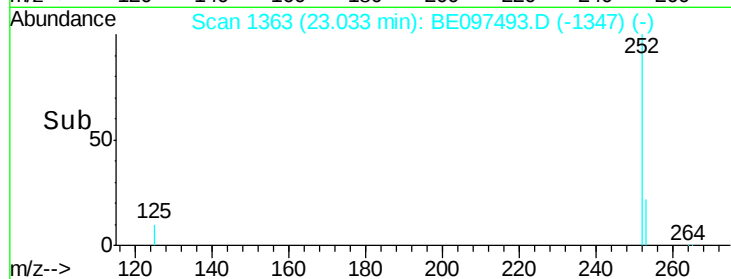
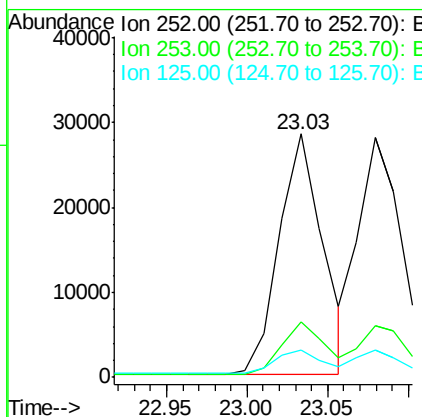
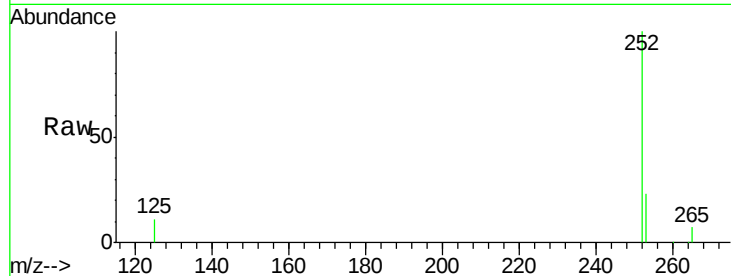
Acq: 18 Mar 2016 21:33

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	53827
Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.7	28.1
125	11.3	9.8	14.6



#30

Benzo(k)fluoranthene

Concen: 0.35 ng

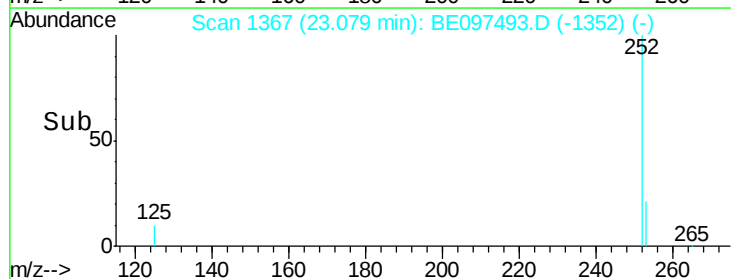
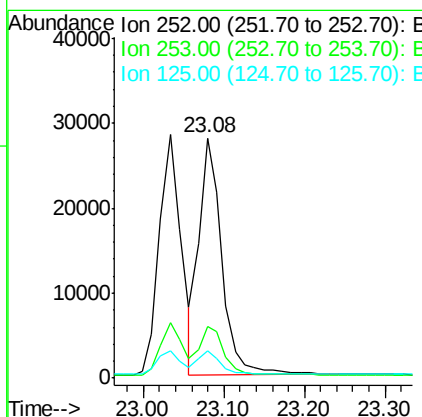
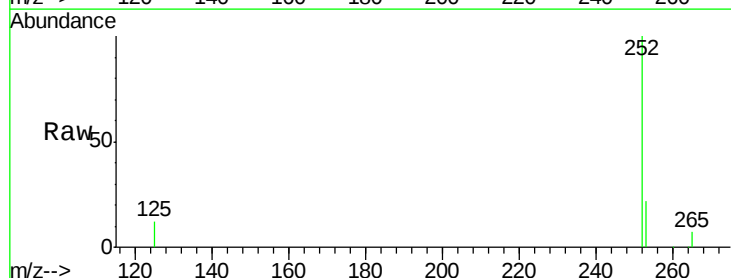
RT: 23.08 min Scan# 1367

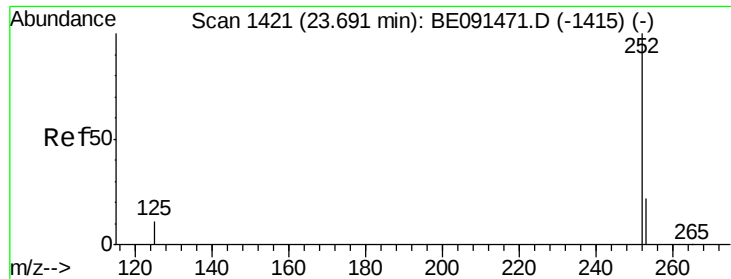
Delta R.T. -0.02 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

Tgt Ion:	252	Resp:	55224
Ion	Ratio	Lower	Upper
252	100		
253	21.7	20.2	30.4
125	11.6	9.4	14.2





#31

Benzo(a)pyrene

Concen: 0.31 ng

RT: 23.68 min Scan# 1419

Delta R.T. -0.01 min

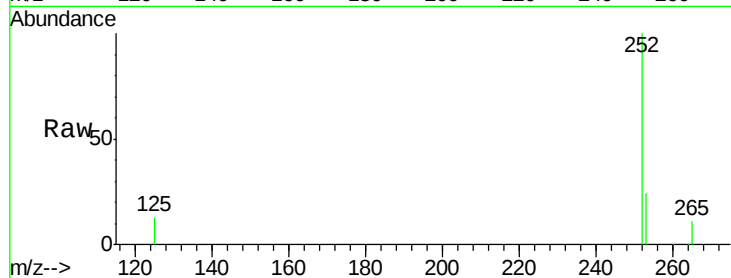
Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

Instrument :

BNA_E

ClientSampleId :



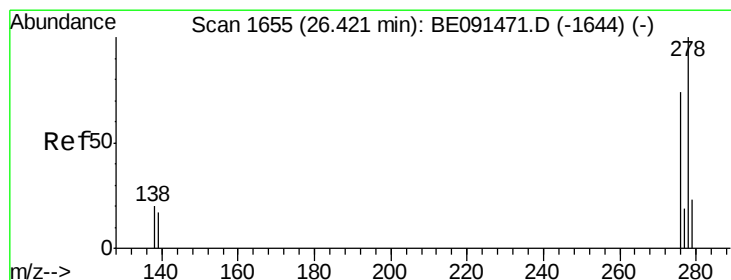
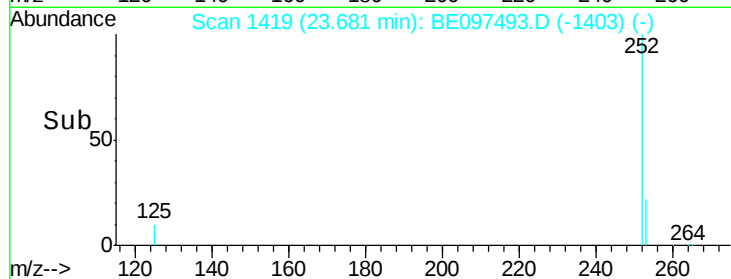
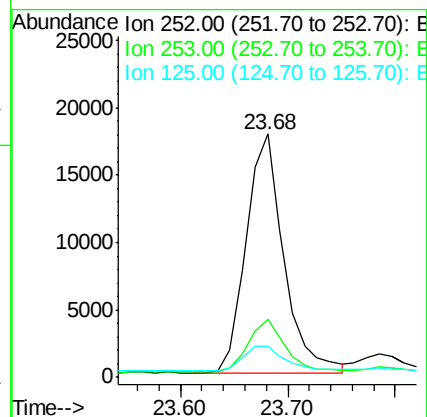
Tgt Ion: 252 Resp: 43102

Ion Ratio Lower Upper

252 100

253 23.9 19.4 29.0

125 12.9 11.4 17.2



#32

Dibenzo(a,h)anthracene

Concen: 0.34 ng

RT: 26.40 min Scan# 1652

Delta R.T. -0.02 min

Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

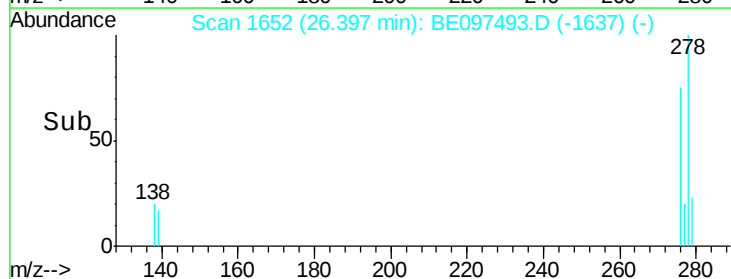
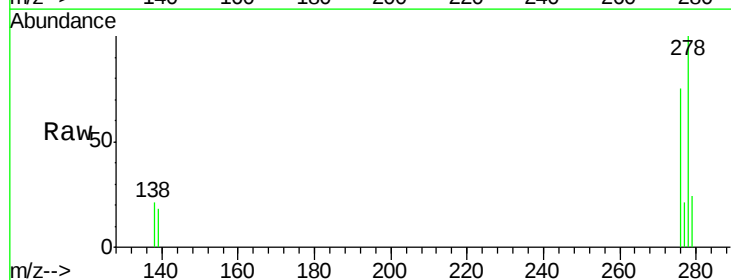
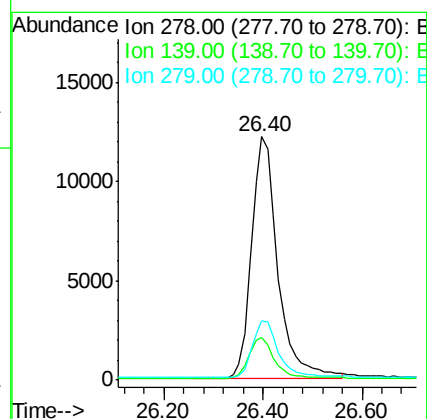
Tgt Ion: 278 Resp: 45659

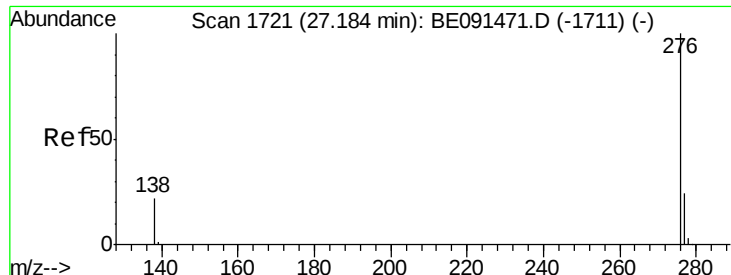
Ion Ratio Lower Upper

278 100

139 17.5 14.2 21.4

279 24.2 19.6 29.4





#33

Benzo(g,h,i)perylene

Concen: 0.34 ng

RT: 27.16 min Scan# 1718

Delta R.T. -0.02 min

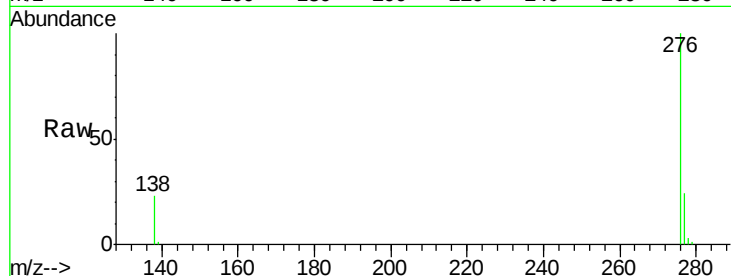
Lab File: BE097493.D

Acq: 18 Mar 2016 21:33

Instrument :

BNA_E

ClientSampleId :



Tgt Ion: 276 Resp: 47798

Ion Ratio Lower Upper

276 100

277 24.3 19.4 29.2

138 23.2 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

