

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
 Data File : BE097491.D
 Acq On : 18 Mar 2016 7:28
 Operator : UM/SJ
 Sample : MDL-04-W
 Misc : 0.16PPM
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB88982BSD

Quant Time: Mar 18 08:22:33 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 04:36:48 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.83	152	41284	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	179603	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	100553	5.00	ng	0.00
16) Phenanthrene-d10	17.18	188	257635	5.00	ng	0.00
22) Chrysene-d12	21.34	240	319134	5.00	ng	0.00
28) Perylene-d12	23.80	264	300827	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.42	112	76772	8.09	ng	0.00
5) Phenol-d6	6.99	99	92987	7.51	ng	0.00
7) Nitrobenzene-d5	8.97	82	32686	3.40	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	18092	4.97	ng	0.00
12) 2-Fluorobiphenyl	13.06	172	107858	4.26	ng	0.00
24) Terphenyl-d14	19.79	244	191464	4.99	ng	-0.01

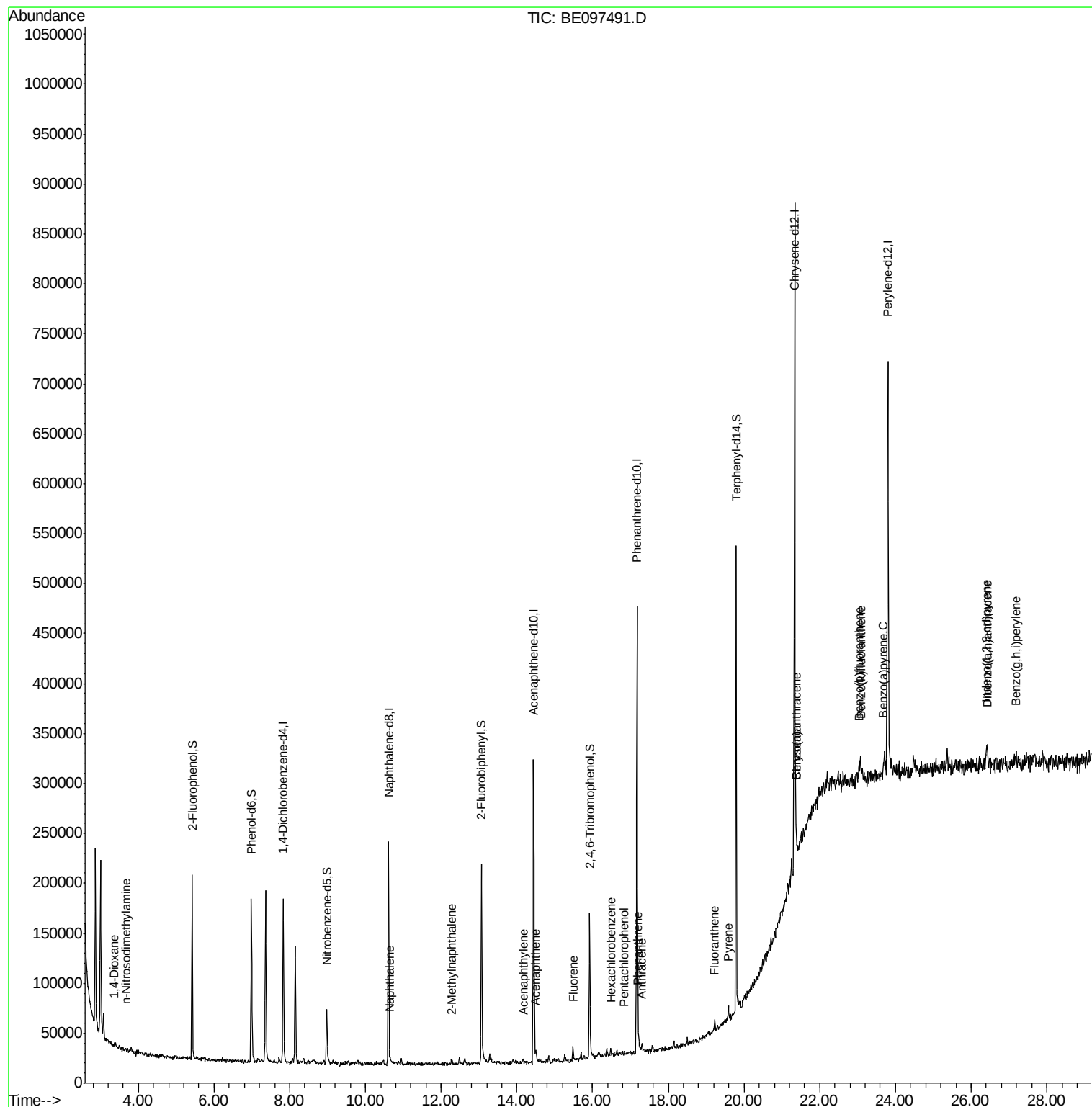
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	1068	0.21	ng	# 82
3) n-Nitrosodimethylamine	3.67	42	262	0.04	ng	# 4
8) Naphthalene	10.65	128	4652	0.11	ng	# 90
9) 2-Methylnaphthalene	12.28	142	2632	0.09	ng	# 84
13) Acenaphthylene	14.16	152	2888	0.19	ng	# 81
14) Acenaphthene	14.50	154	3203	0.10	ng	96
15) Fluorene	15.48	166	3922	0.10	ng	97
17) Hexachlorobenzene	16.48	284	1029	0.09	ng	# 79
18) Pentachlorophenol	16.82	266	399	0.37	ng	# 36
19) Phenanthrene	17.21	178	7822	0.11	ng	# 87
20) Anthracene	17.31	178	5663	0.09	ng	# 91
21) Fluoranthene	19.23	202	7694	0.09	ng	# 92
23) Pyrene	19.59	202	8477	0.11	ng	96
25) Benzo(a)anthracene	21.38	228	10531	0.12	ng	97
26) Chrysene	21.38	228	10531	0.01	ng	# 87
27) Indeno(1,2,3-cd)pyrene	26.39	276	7008	0.08	ng	# 79
29) Benzo(b)fluoranthene	23.04	252	9593	0.10	ng	# 78
30) Benzo(k)fluoranthene	23.09	252	8529	0.09	ng	# 91
31) Benzo(a)pyrene	23.69	252	7939	0.09	ng	# 87
32) Dibenzo(a,h)anthracene	26.43	278	6352	0.08	ng	97
33) Benzo(g,h,i)perylene	27.19	276	6986	0.08	ng	# 89

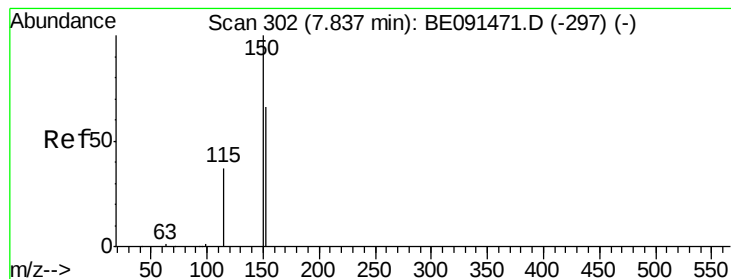
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.83 min Scan# 892

Delta R.T. -0.01 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

Instrument :

BNA_E

ClientSampleId :

PB88982BSD

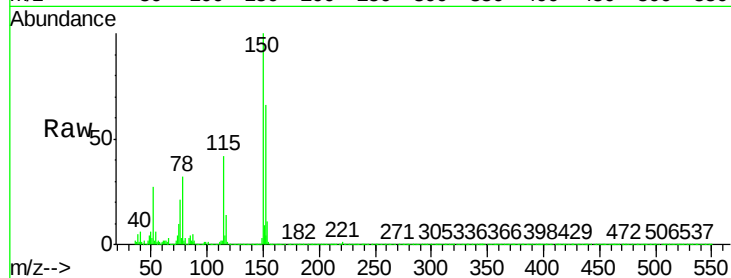
Tgt Ion:152 Resp: 41284

Ion Ratio Lower Upper

152 100

150 152.2 122.2 183.2

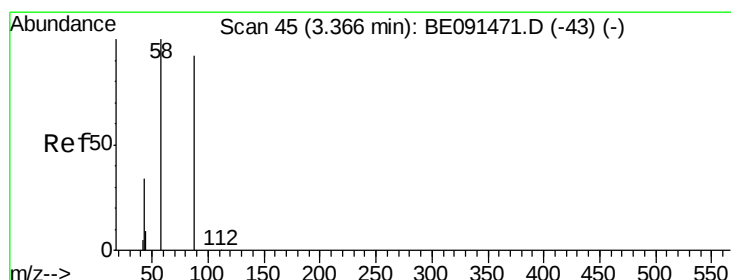
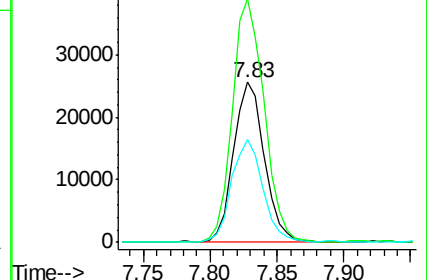
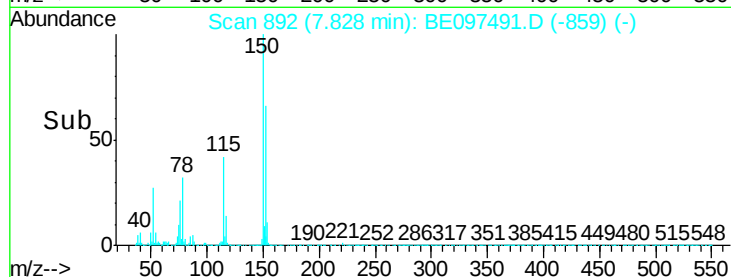
115 64.6 45.9 68.9



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



#2

1,4-Dioxane

Concen: 0.21 ng

RT: 3.37 min Scan# 133

Delta R.T. 0.00 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

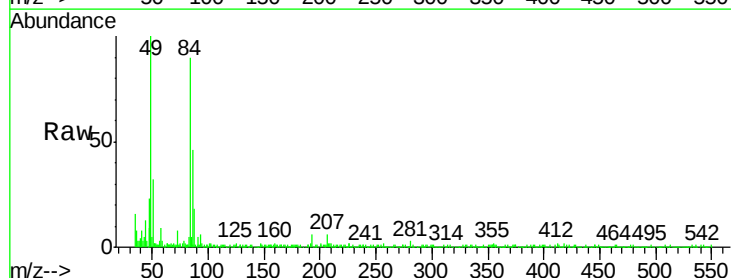
Tgt Ion: 88 Resp: 1068

Ion Ratio Lower Upper

88 100

58 56.3 61.0 91.6#

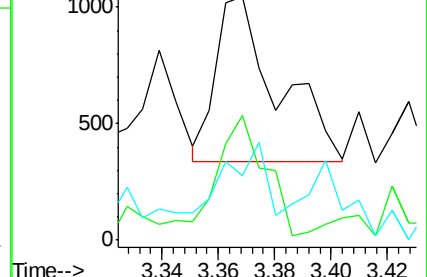
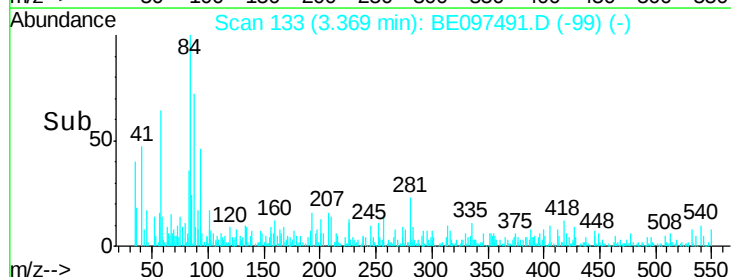
43 29.8 25.4 38.2

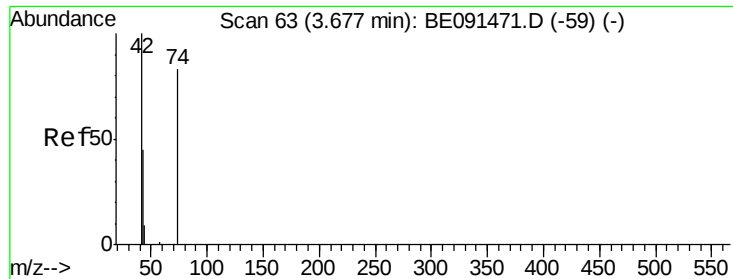


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



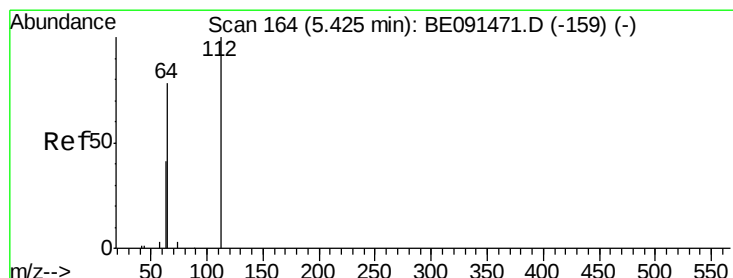
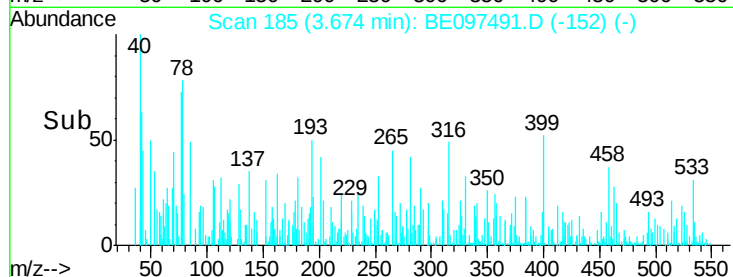
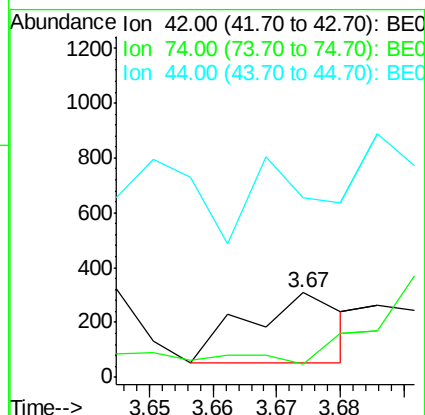
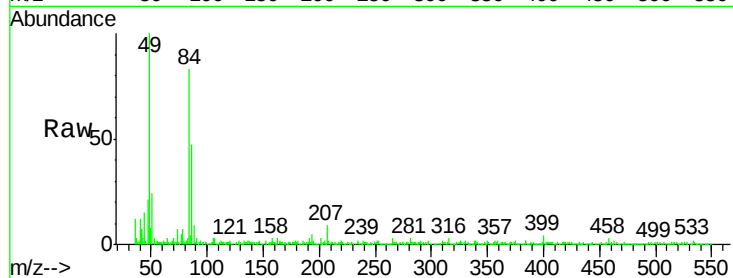


#3

n-Nitrosodimethylamine
Concen: 0.04 ng
RT: 3.67 min Scan# 185
Delta R.T. -0.00 min
Lab File: BE097491.D
Acq: 18 Mar 2016 7:28

Instrument :
BNA_E
ClientSampleId :
PB88982BSD

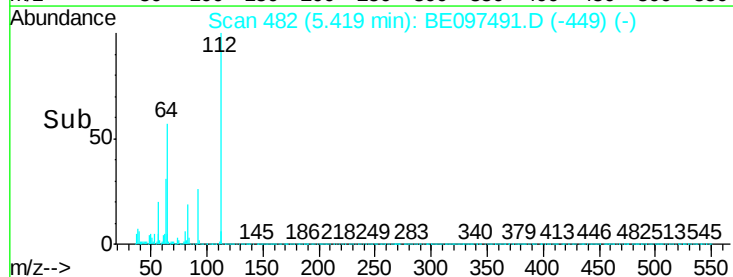
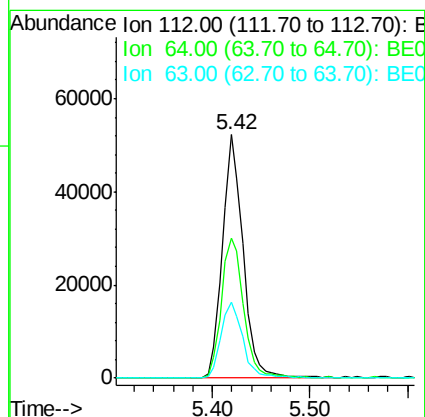
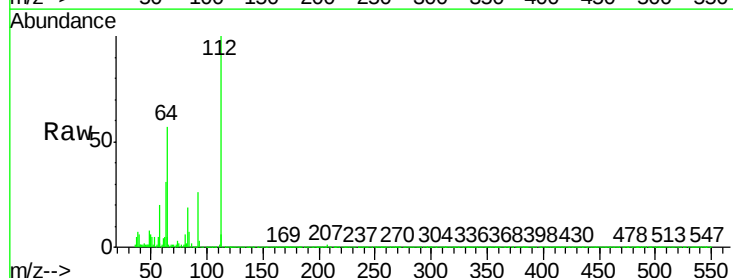
Tgt Ion: 42 Resp: 262
Ion Ratio Lower Upper
42 100
74 0.0 84.3 126.5#
44 0.0 6.7 10.1#

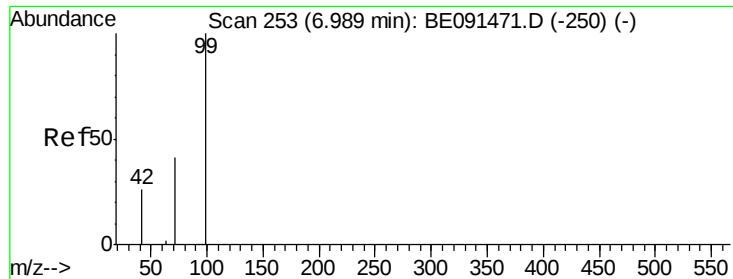


#4

2-Fluorophenol
Concen: 8.09 ng
RT: 5.42 min Scan# 482
Delta R.T. -0.01 min
Lab File: BE097491.D
Acq: 18 Mar 2016 7:28

Tgt Ion: 112 Resp: 76772
Ion Ratio Lower Upper
112 100
64 61.5 53.3 79.9
63 32.6 29.8 44.8





#5

Phenol-d6

Concen: 7.51 ng

RT: 6.99 min Scan# 749

Delta R.T. -0.00 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

Instrument :

BNA_E

ClientSampleId :

PB88982BSD

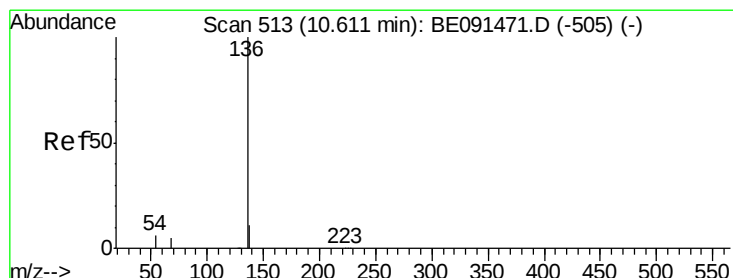
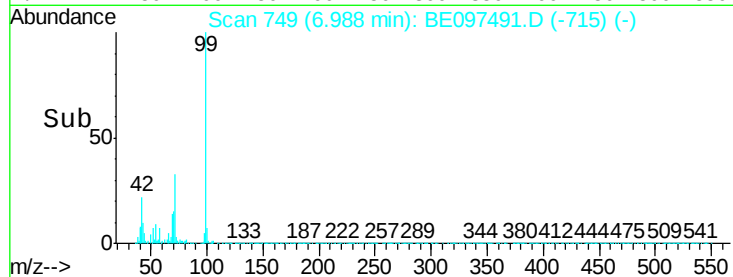
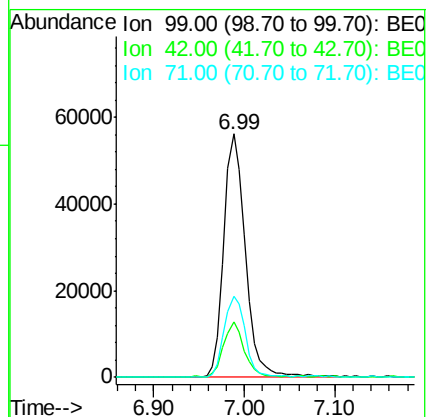
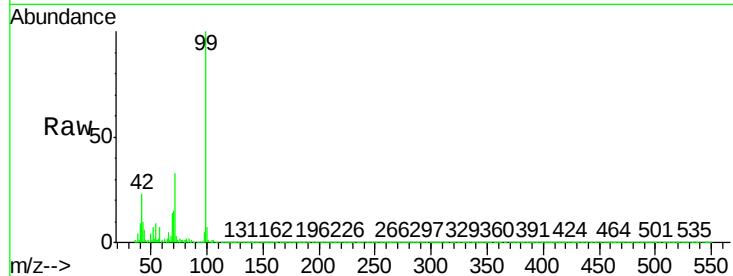
Tgt Ion: 99 Resp: 92987

Ion Ratio Lower Upper

99 100

42 21.4 20.6 30.8

71 32.9 29.0 43.4



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.61 min Scan# 1365

Delta R.T. -0.00 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

Tgt Ion: 136 Resp: 179603

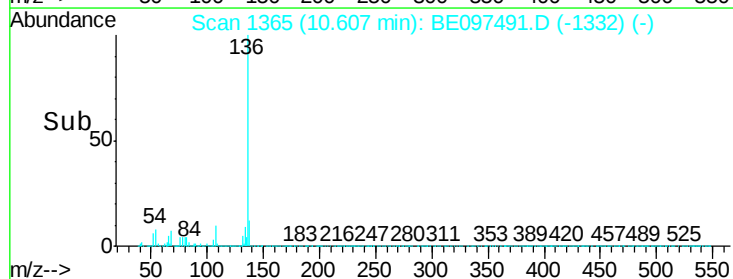
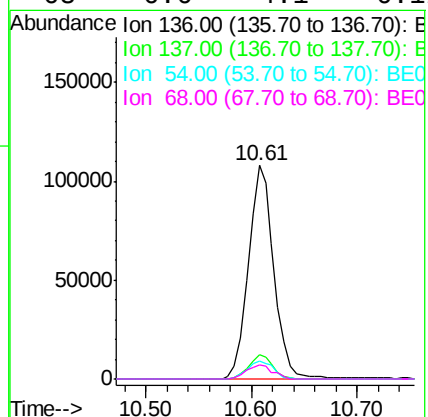
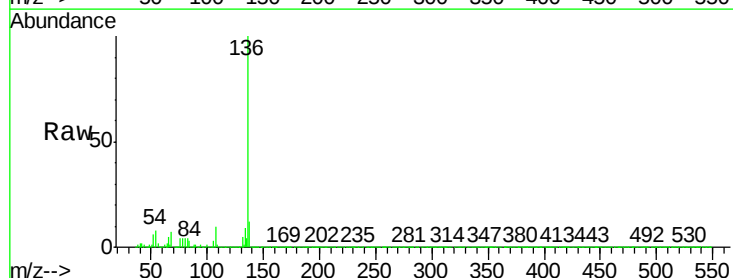
Ion Ratio Lower Upper

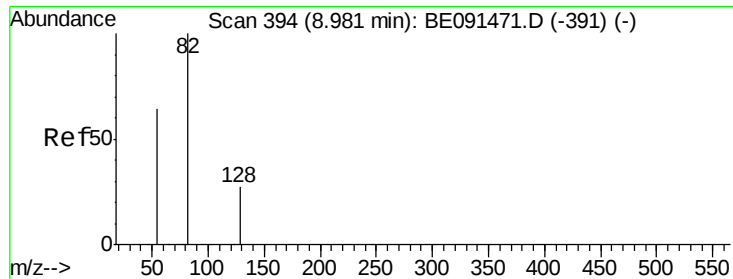
136 100

137 11.5 8.8 13.2

54 8.3 5.2 7.8#

68 6.6 4.1 6.1#





#7

Nitrobenzene-d5

Concen: 3.40 ng

RT: 8.97 min Scan# 1087

Delta R.T. -0.01 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

Instrument :

BNA_E

ClientSampleId :

PB88982BSD

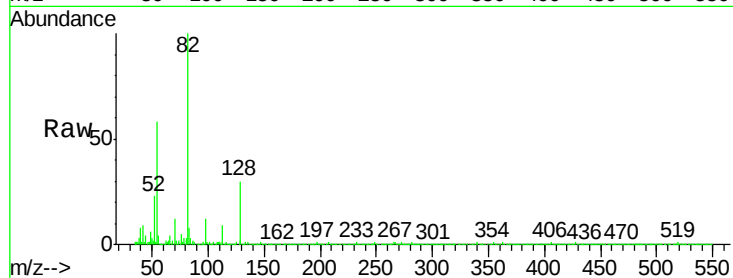
Tgt Ion: 82 Resp: 32686

Ion Ratio Lower Upper

82 100

128 30.1 23.5 35.3

54 57.9 52.4 78.6

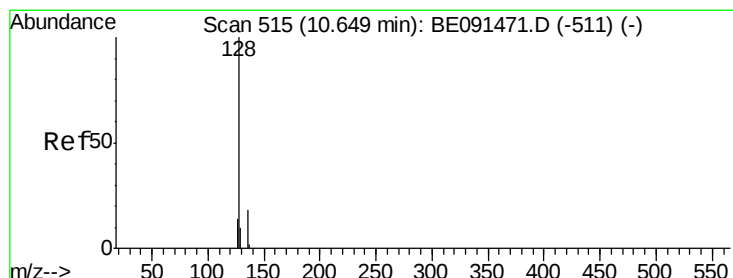
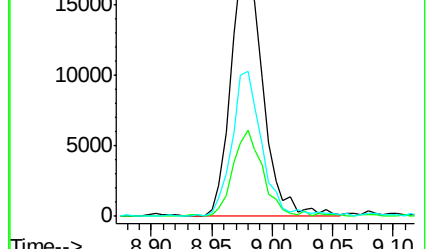
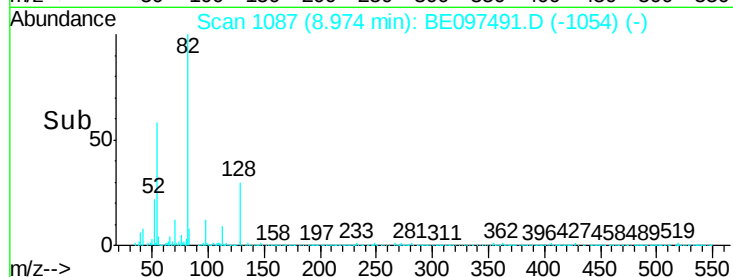


Abundance Ion 82.00 (81.70 to 82.70): BE091471.D (-391) (-)

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

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

Time-->



#8

Naphthalene

Concen: 0.11 ng

RT: 10.65 min Scan# 1373

Delta R.T. 0.00 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

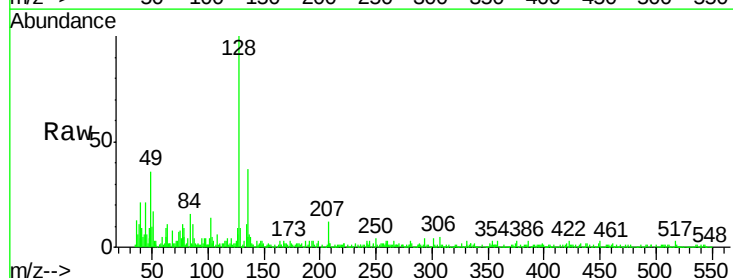
Tgt Ion: 128 Resp: 4652

Ion Ratio Lower Upper

128 100

129 8.7 8.2 12.2

127 8.9 11.8 17.8#

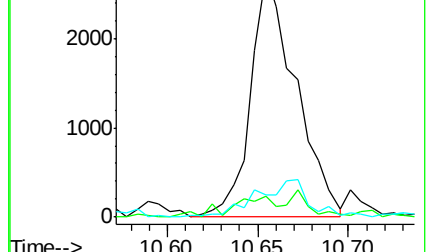
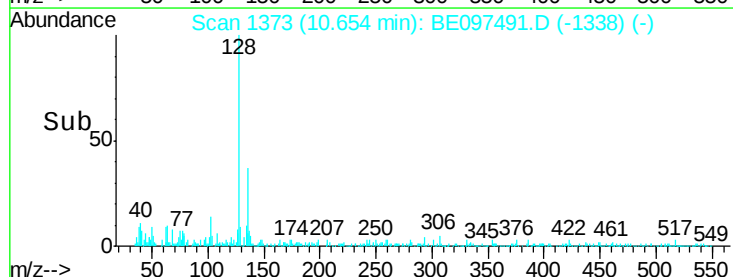


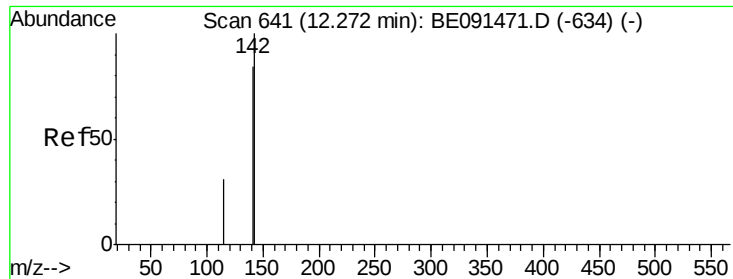
Abundance Ion 128.00 (127.70 to 128.70): BE091471.D (-511) (-)

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

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

Time-->





#9

2-Methylnaphthalene

Concen: 0.09 ng

RT: 12.28 min Scan# 1649

Delta R.T. 0.00 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

Instrument :

BNA_E

ClientSampleId :

PB88982BSD

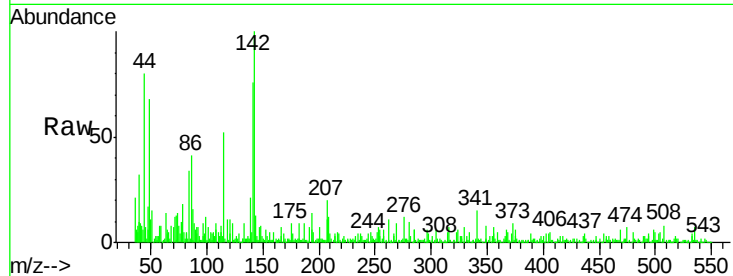
Tgt Ion:142 Resp: 2632

Ion Ratio Lower Upper

142 100

141 76.0 66.9 100.3

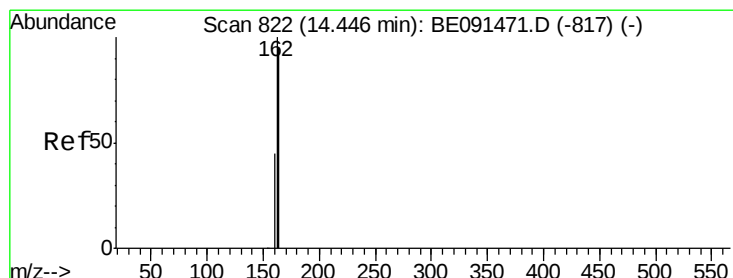
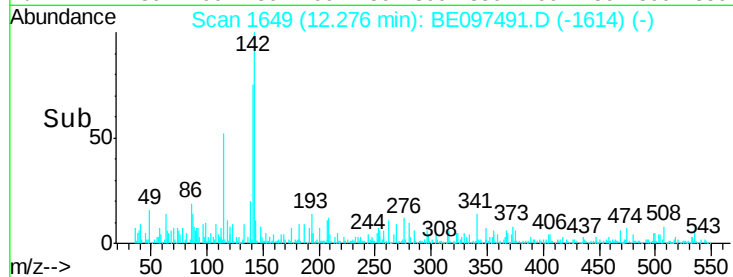
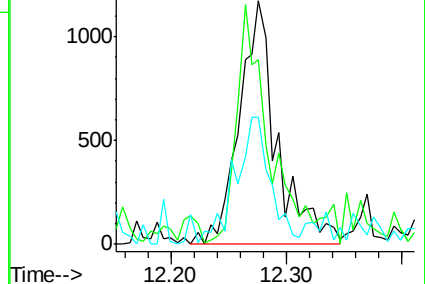
115 52.3 25.1 37.7#



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: 14.44 min Scan# 2017

Delta R.T. -0.01 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

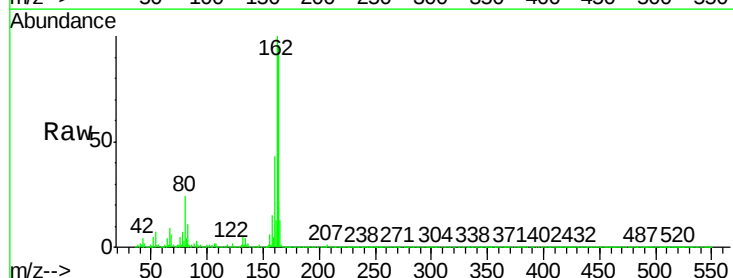
Tgt Ion:164 Resp: 100553

Ion Ratio Lower Upper

164 100

162 104.0 84.4 126.6

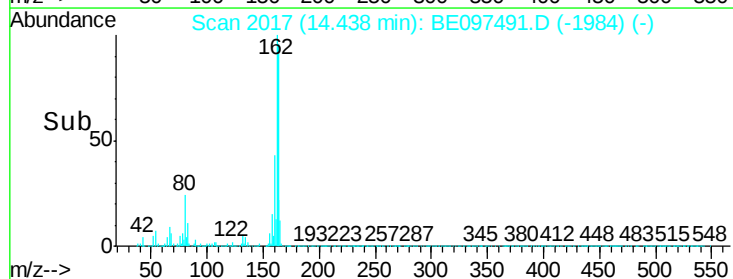
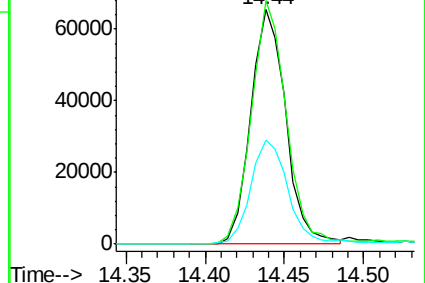
160 44.2 37.7 56.5

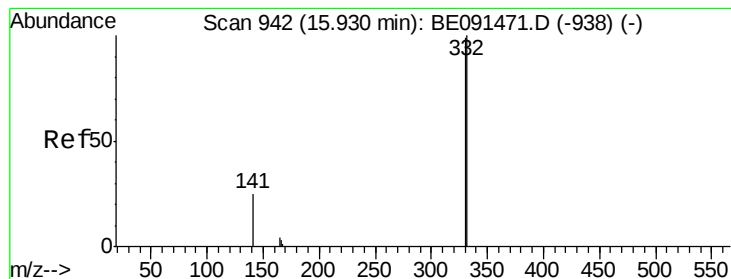


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

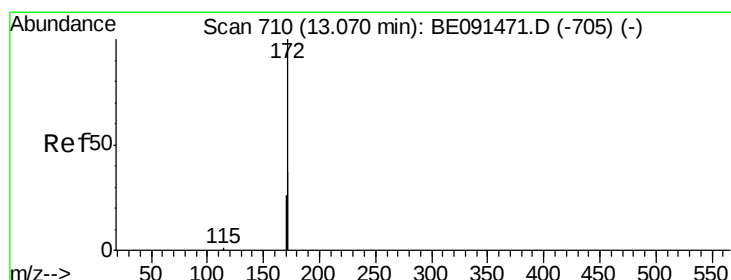
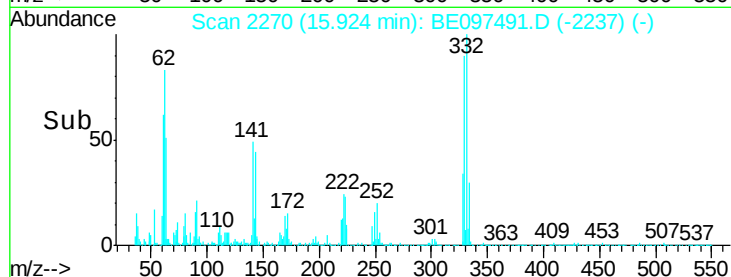
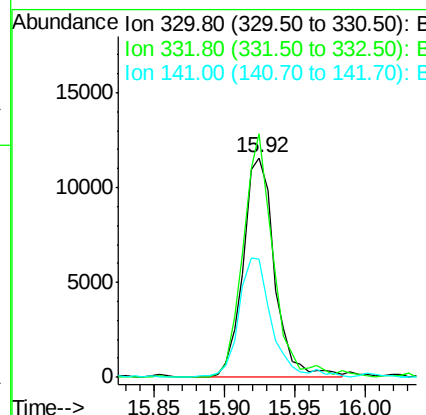
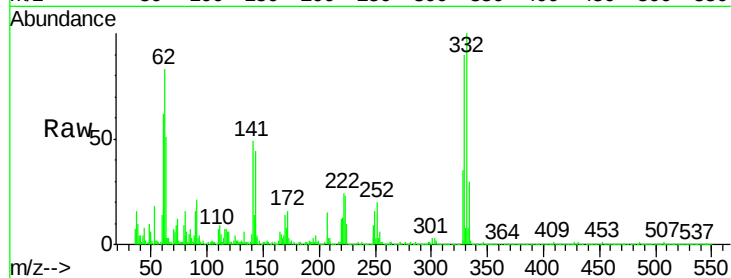




#11
 2,4,6-Tribromophenol
 Concen: 4.97 ng
 RT: 15.92 min Scan# 2270
 Delta R.T. -0.01 min
 Lab File: BE097491.D
 Acq: 18 Mar 2016 7:28

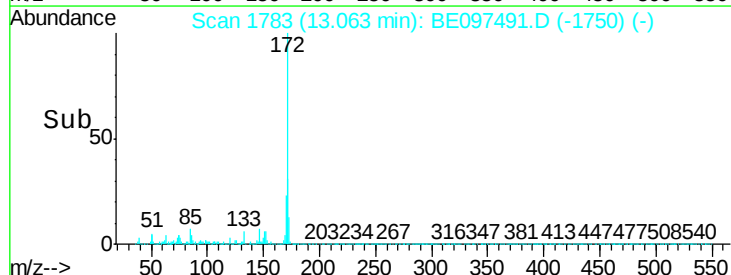
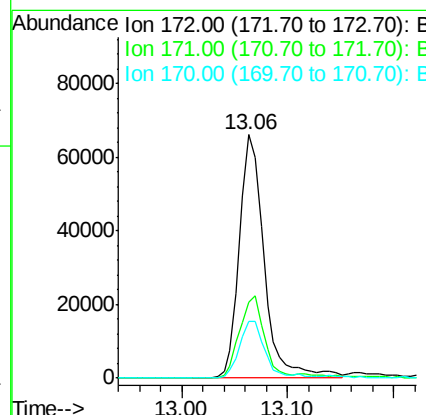
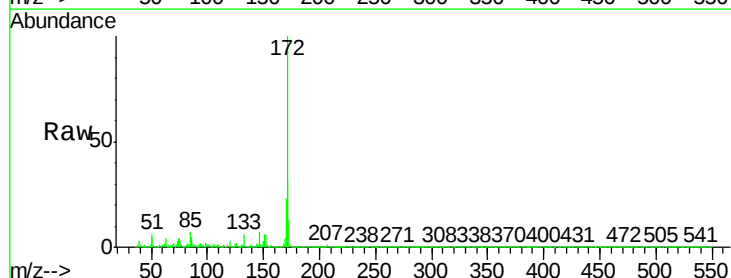
Instrument :
 BNA_E
 ClientSampleId :
 PB88982BSD

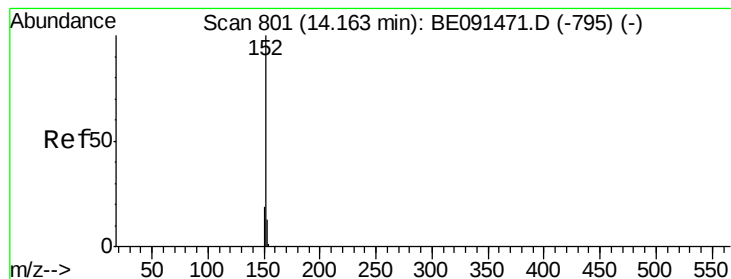
Tgt Ion:330 Resp: 18092
 Ion Ratio Lower Upper
 330 100
 332 105.2 79.2 118.8
 141 55.4 28.1 42.1#



#12
 2-Fluorobiphenyl
 Concen: 4.26 ng
 RT: 13.06 min Scan# 1783
 Delta R.T. -0.01 min
 Lab File: BE097491.D
 Acq: 18 Mar 2016 7:28

Tgt Ion:172 Resp: 107858
 Ion Ratio Lower Upper
 172 100
 171 31.0 29.8 44.8
 170 23.3 21.4 32.2





#13

Acenaphthylene

Concen: 0.19 ng

RT: 14.16 min Scan# 1970

Delta R.T. -0.00 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

Instrument :

BNA_E

ClientSampleId :

PB88982BSD

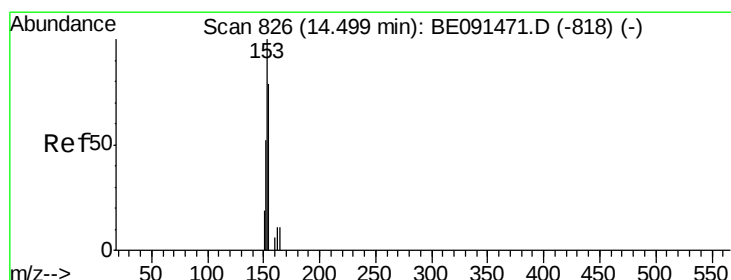
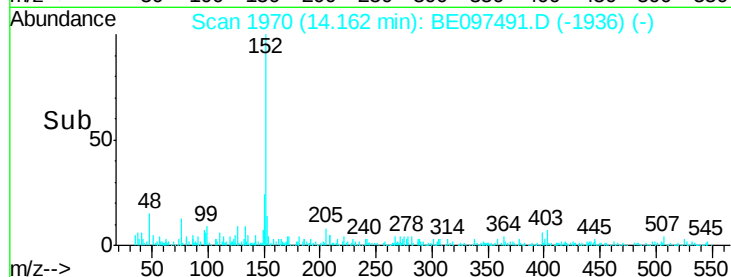
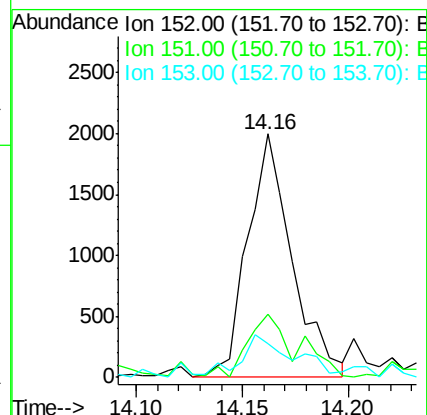
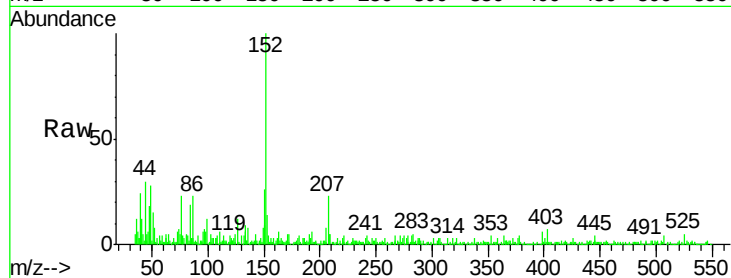
Tgt Ion:152 Resp: 2888

Ion Ratio Lower Upper

152 100

151 29.7 16.3 24.5#

153 20.9 11.1 16.7#



#14

Acenaphthene

Concen: 0.10 ng

RT: 14.50 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

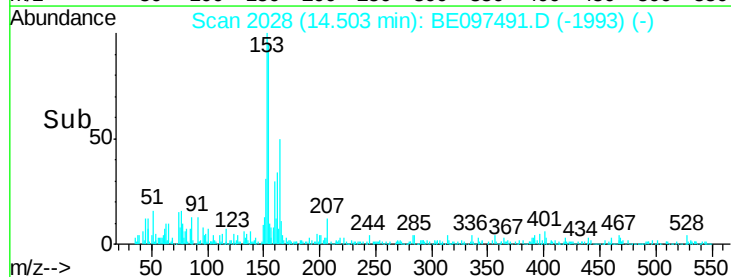
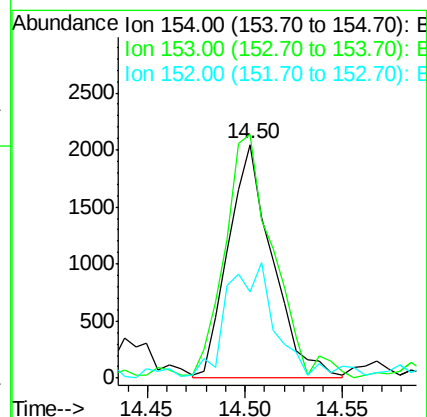
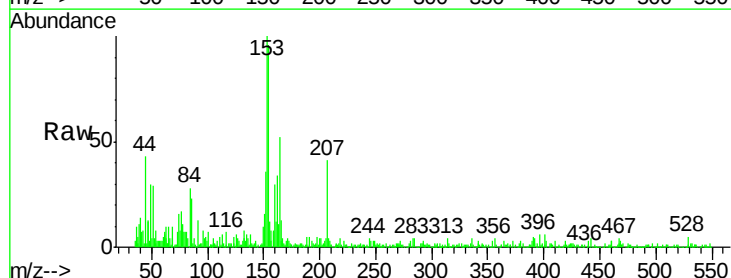
Tgt Ion:154 Resp: 3203

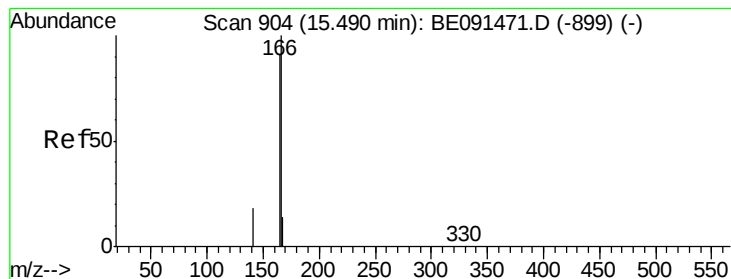
Ion Ratio Lower Upper

154 100

153 114.3 87.3 130.9

152 53.0 42.9 64.3





#15

Fluorene

Concen: 0.10 ng

RT: 15.48 min Scan# 2195

Delta R.T. -0.01 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

Instrument :

BNA_E

ClientSampleId :

PB88982BSD

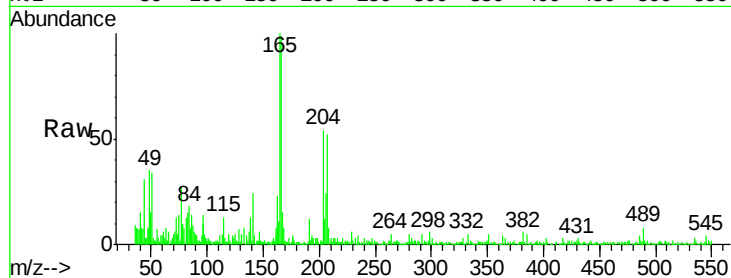
Tgt Ion:166 Resp: 3922

Ion Ratio Lower Upper

166 100

165 96.1 79.2 118.8

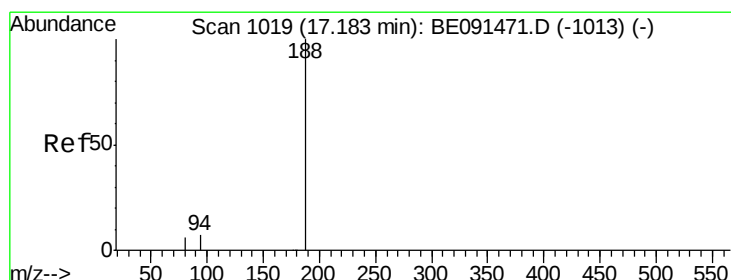
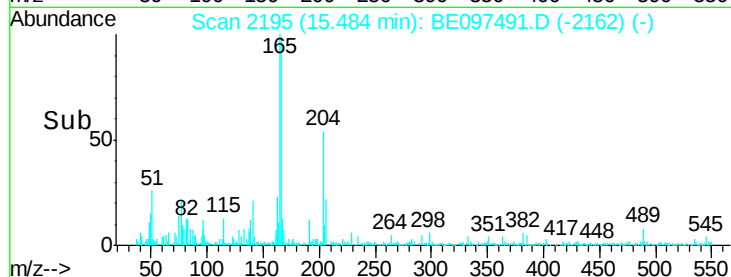
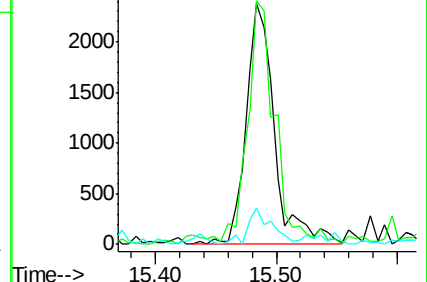
167 12.3 10.8 16.2



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: 17.18 min Scan# 2483

Delta R.T. -0.01 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

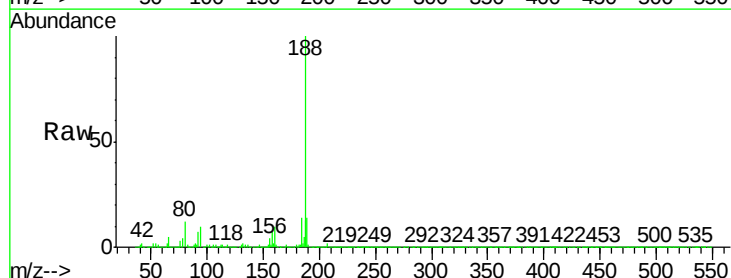
Tgt Ion:188 Resp: 257635

Ion Ratio Lower Upper

188 100

94 10.4 5.4 8.2#

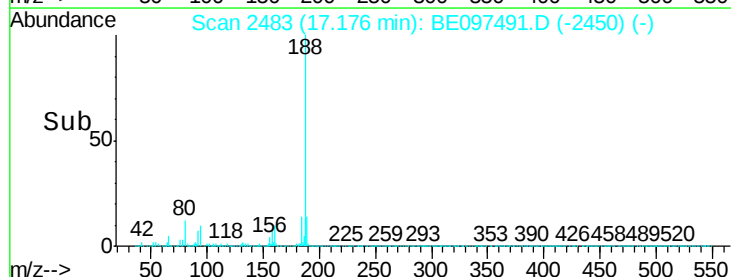
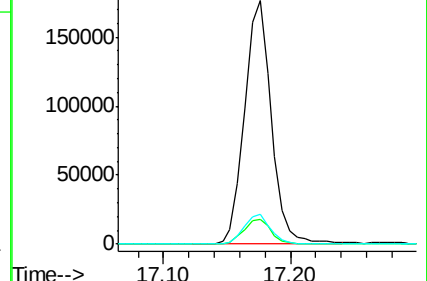
80 12.3 5.0 7.4#

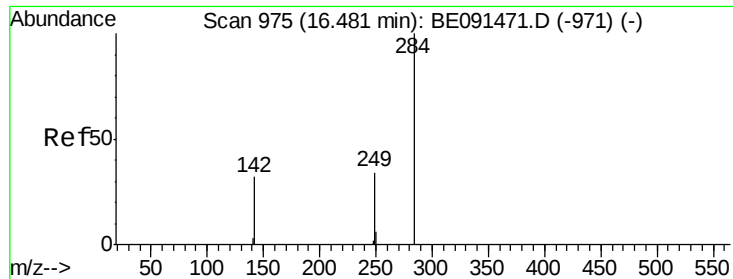


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

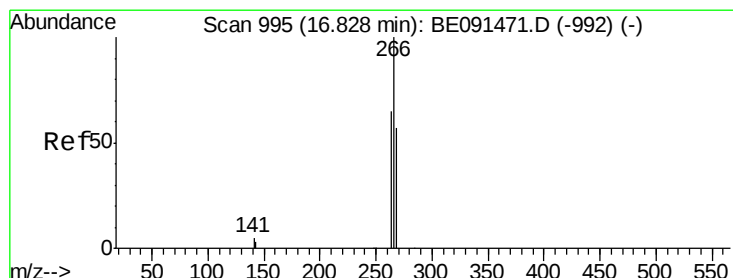
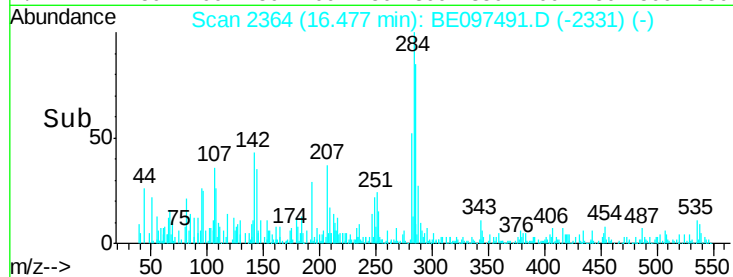
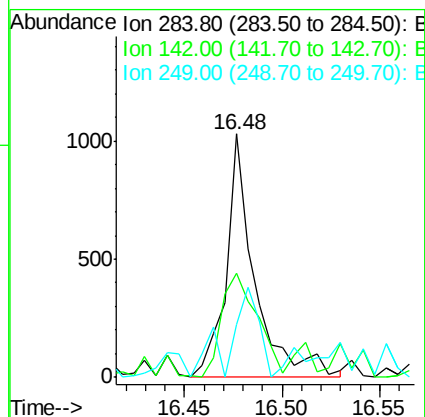
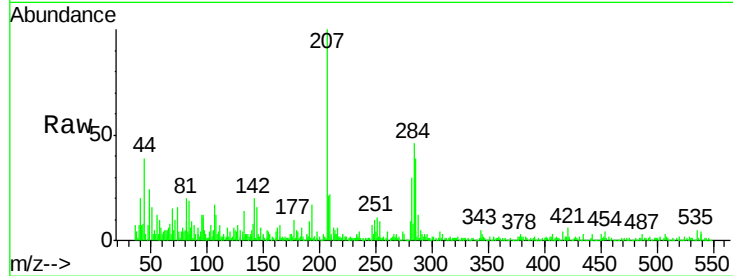




#17
Hexachlorobenzene
Concen: 0.09 ng
RT: 16.48 min Scan# 2364
Delta R.T. -0.00 min
Lab File: BE097491.D
Acq: 18 Mar 2016 7:28

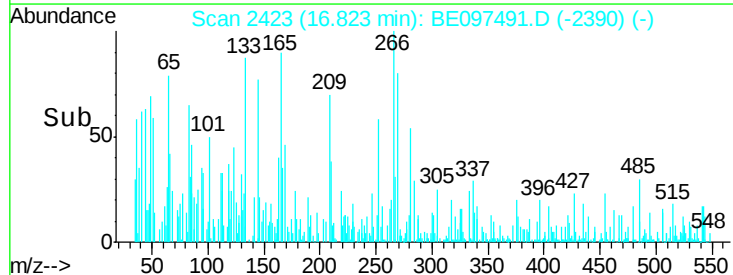
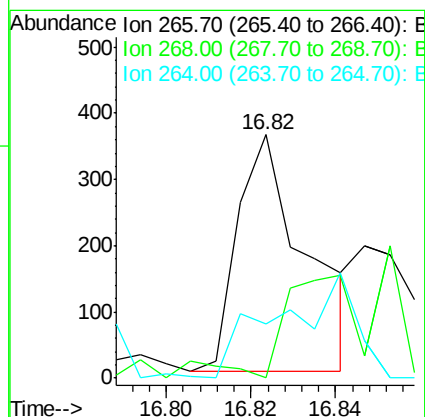
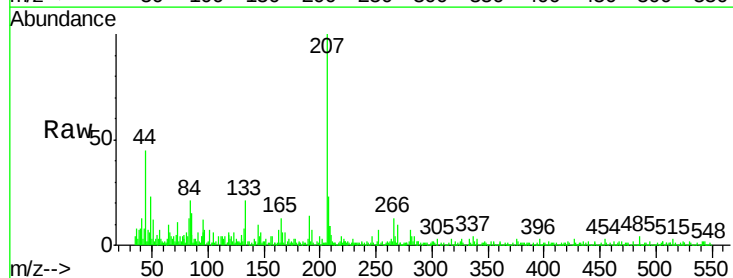
Instrument :
BNA_E
ClientSampleId :
PB88982BSD

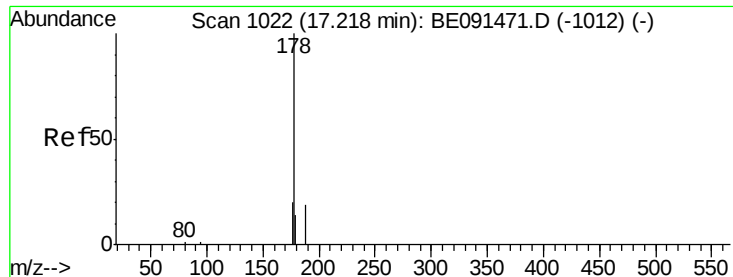
Tgt Ion:284 Resp: 1029
Ion Ratio Lower Upper
284 100
142 54.6 31.0 46.4#
249 40.9 25.8 38.8#



#18
Pentachlorophenol
Concen: 0.37 ng
RT: 16.82 min Scan# 2423
Delta R.T. -0.00 min
Lab File: BE097491.D
Acq: 18 Mar 2016 7:28

Tgt Ion:266 Resp: 399
Ion Ratio Lower Upper
266 100
268 4.3 48.2 72.2#
264 22.0 52.1 78.1#





#19

Phenanthrene

Concen: 0.11 ng

RT: 17.21 min Scan# 2489

Delta R.T. -0.01 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

Instrument :

BNA_E

ClientSampleId :

PB88982BSD

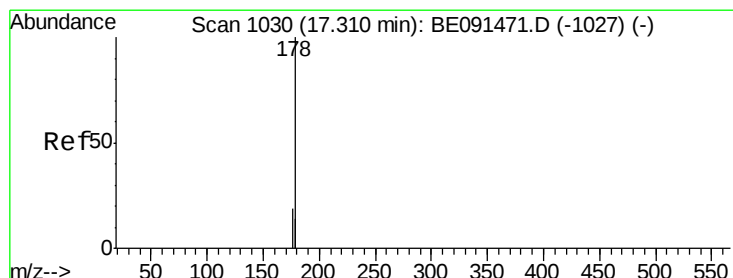
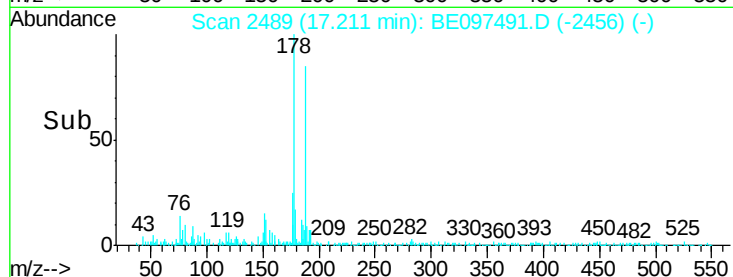
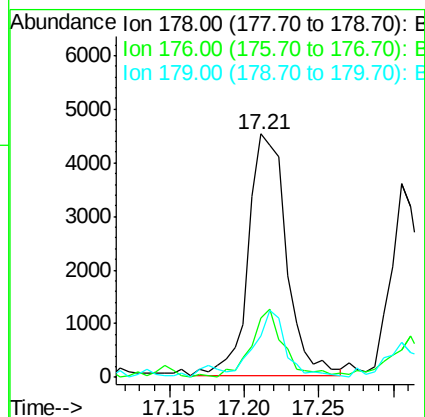
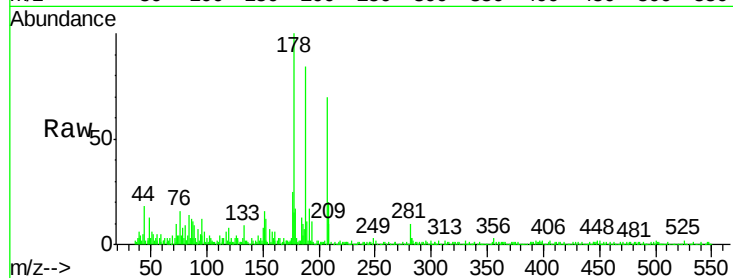
Tgt Ion:178 Resp: 7822

Ion Ratio Lower Upper

178 100

176 24.9 15.5 23.3#

179 22.8 13.1 19.7#



#20

Anthracene

Concen: 0.09 ng

RT: 17.31 min Scan# 2505

Delta R.T. -0.01 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

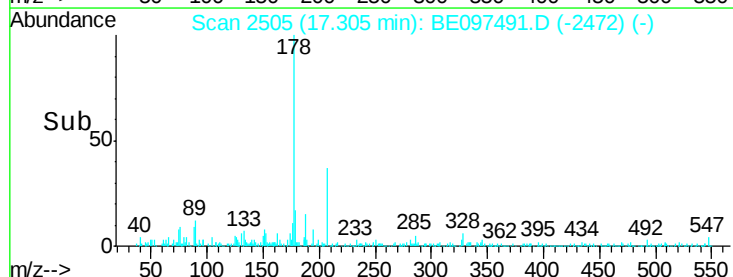
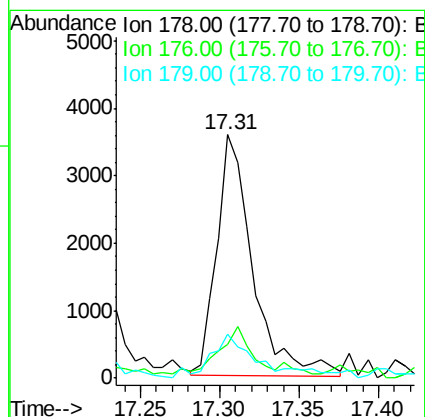
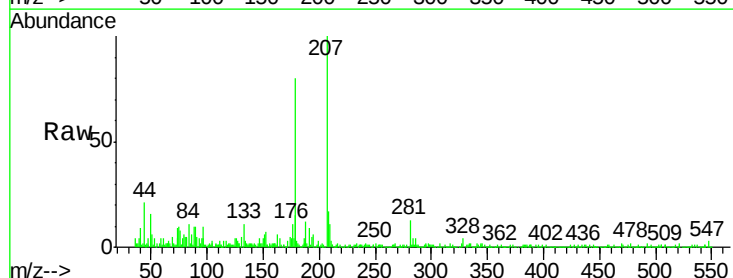
Tgt Ion:178 Resp: 5663

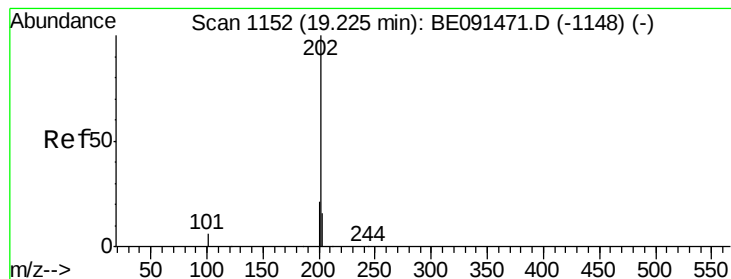
Ion Ratio Lower Upper

178 100

176 17.0 14.9 22.3

179 21.8 12.2 18.4#





#21

Fluoranthene

Concen: 0.09 ng

RT: 19.23 min Scan# 2832

Delta R.T. 0.00 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

Instrument :

BNA_E

ClientSampleId :

PB88982BSD

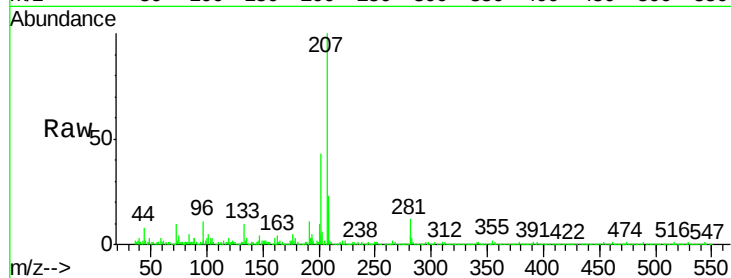
Tgt Ion:202 Resp: 7694

Ion Ratio Lower Upper

202 100

101 16.2 8.3 12.5#

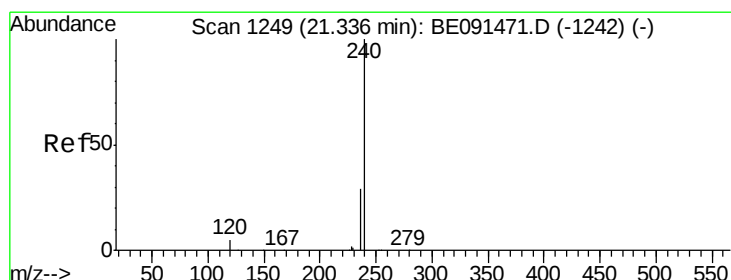
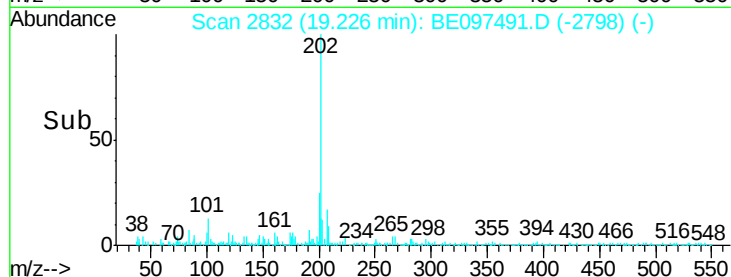
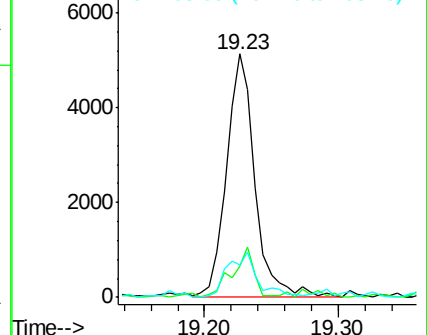
203 19.3 13.9 20.9



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# 3191

Delta R.T. 0.00 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

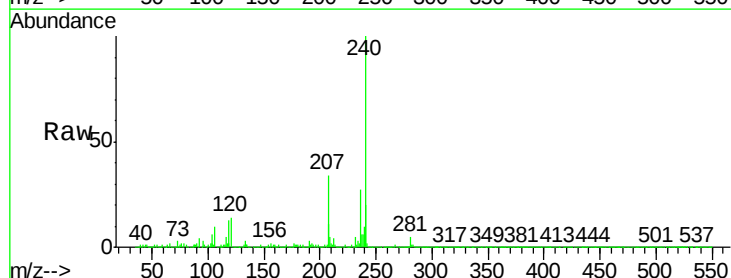
Tgt Ion:240 Resp: 319134

Ion Ratio Lower Upper

240 100

120 13.6 4.0 6.0#

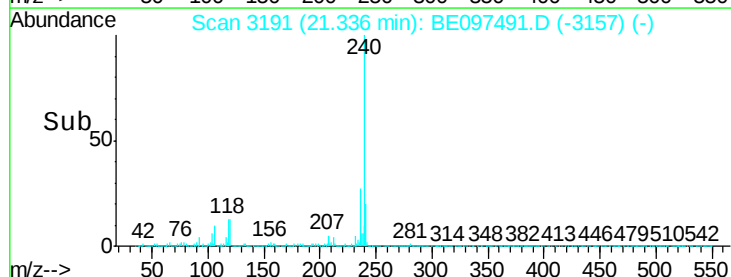
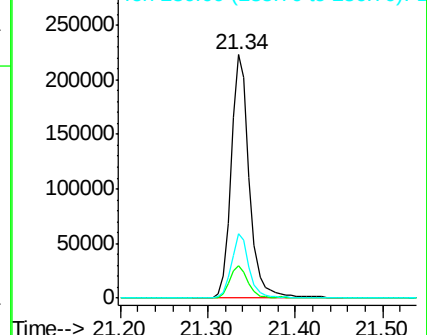
236 26.5 23.0 34.4

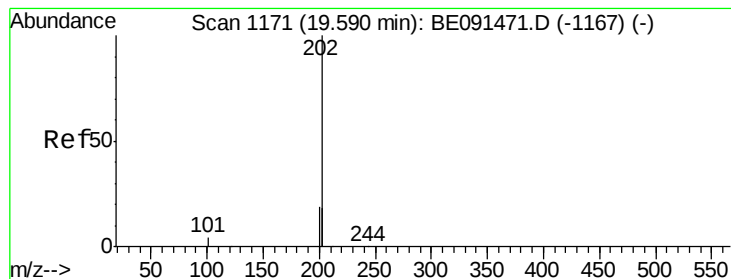


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#23

Pyrene

Concen: 0.11 ng

RT: 19.59 min Scan# 2894

Delta R.T. 0.00 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

Instrument :

BNA_E

ClientSampleId :

PB88982BSD

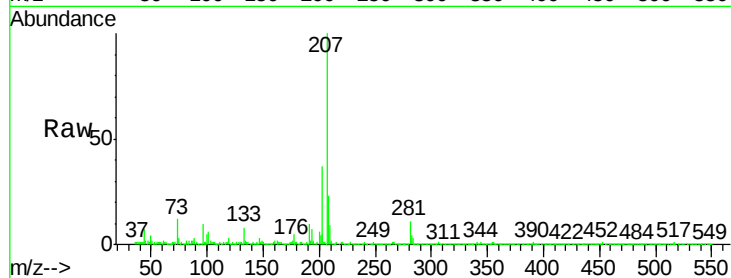
Tgt Ion:202 Resp: 8477

Ion Ratio Lower Upper

202 100

200 17.7 16.4 24.6

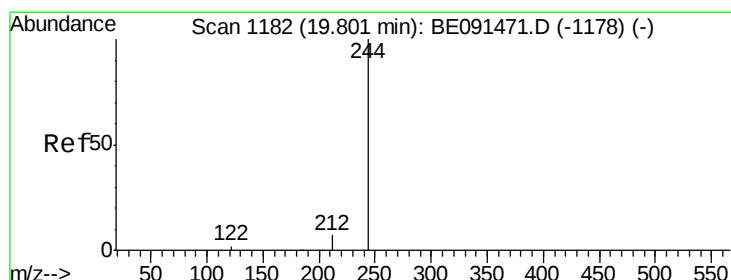
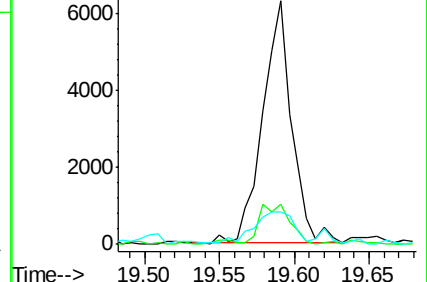
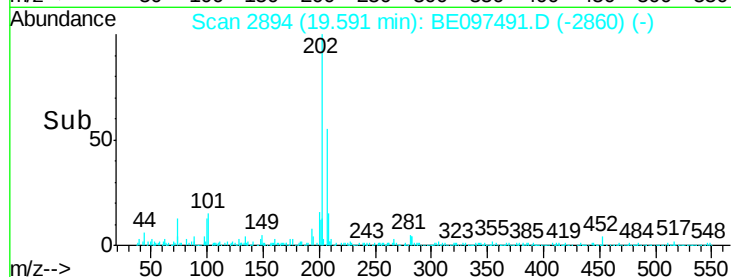
203 18.5 14.6 21.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#24

Terphenyl-d14

Concen: 4.99 ng

RT: 19.79 min Scan# 2928

Delta R.T. -0.01 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

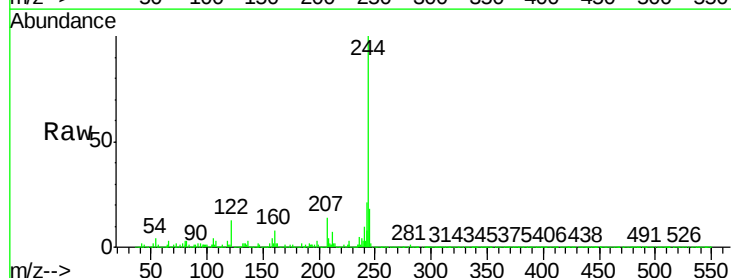
Tgt Ion:244 Resp: 191464

Ion Ratio Lower Upper

244 100

212 7.5 5.8 8.8

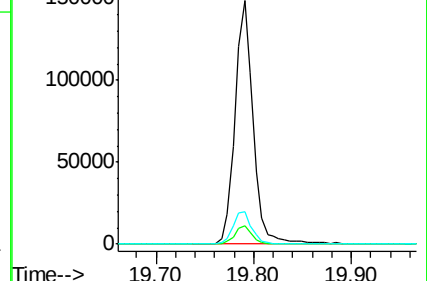
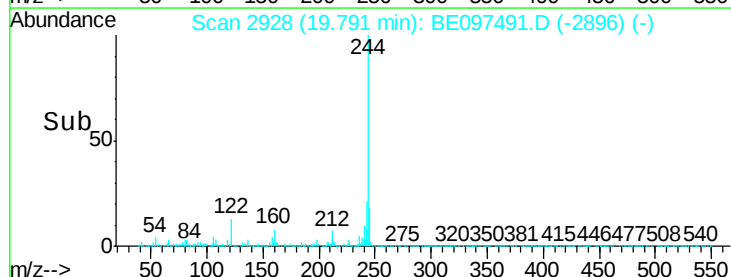
122 13.1 1.8 2.8#

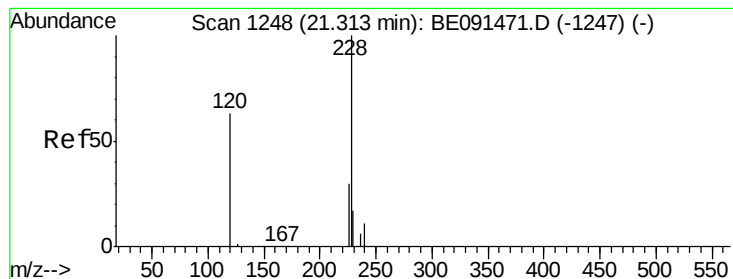


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#25

Benzo(a)anthracene

Concen: 0.12 ng

RT: 21.38 min Scan# 3198

Delta R.T. 0.06 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

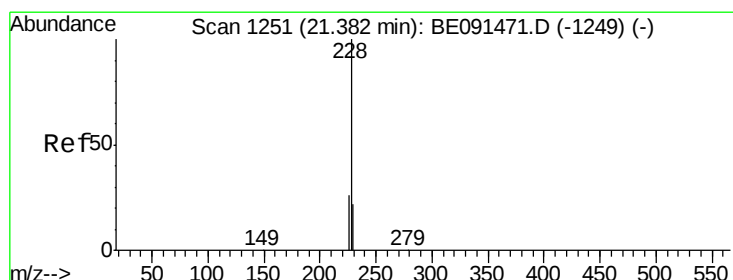
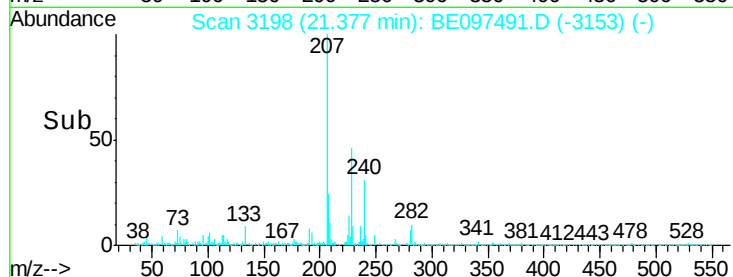
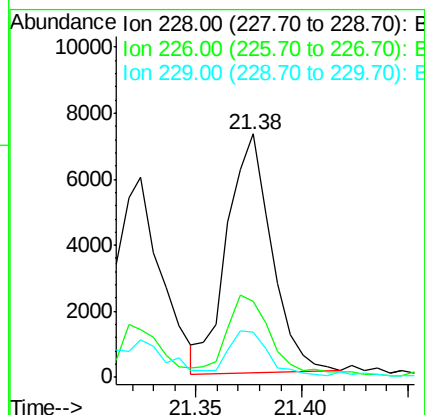
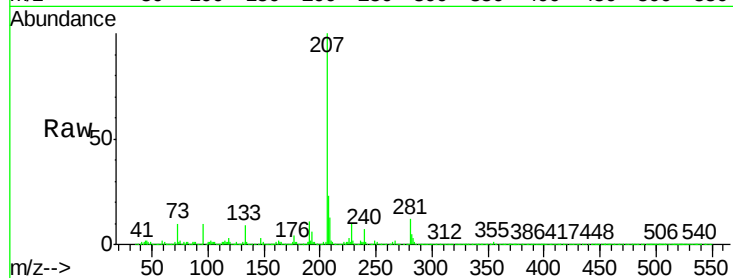
Instrument :

BNA_E

ClientSampleId :

PB88982BSD

Tgt Ion:	228	Resp:	10531
Ion Ratio		Lower	Upper
228	100		
226	31.3	24.0	36.0
229	18.8	13.8	20.6



#26

Chrysene

Concen: 0.01 ng

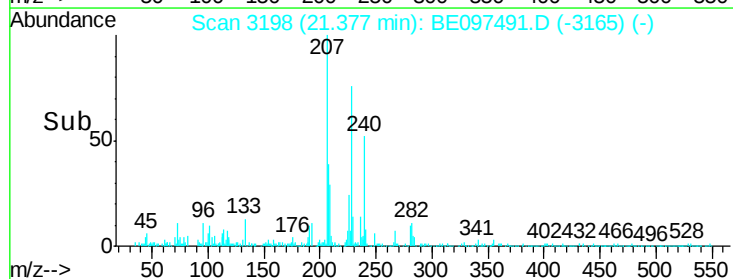
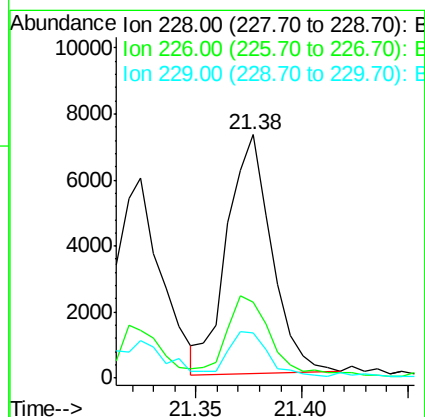
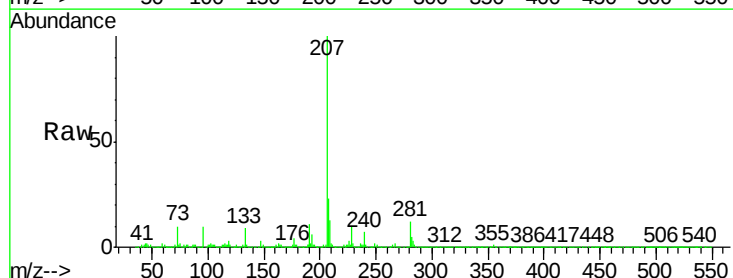
RT: 21.38 min Scan# 3198

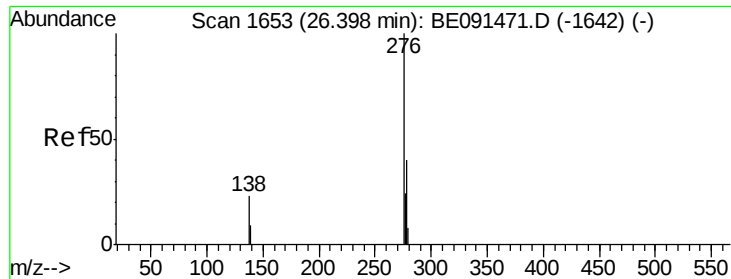
Delta R.T. -0.00 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

Tgt Ion:	228	Resp:	10531
Ion Ratio		Lower	Upper
228	100		
226	31.3	18.9	28.3#
229	18.8	19.1	28.7#

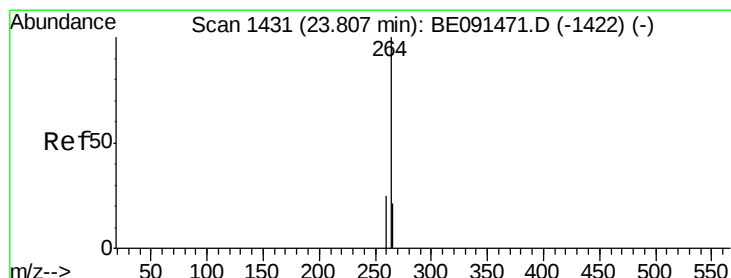
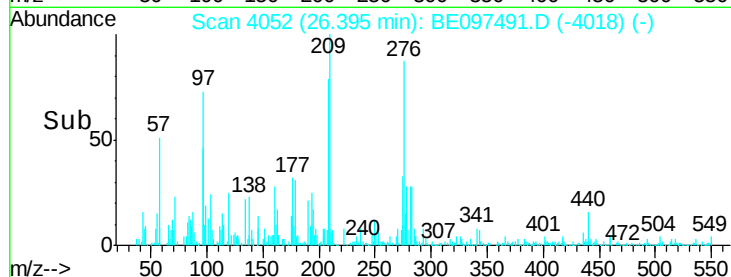
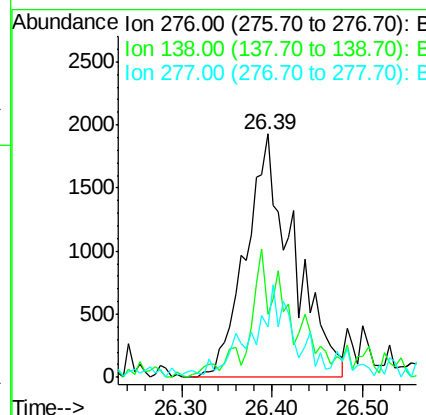
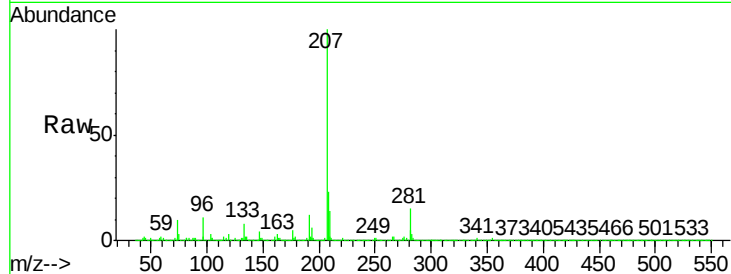




#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.08 ng
 RT: 26.39 min Scan# 4052
 Delta R.T. -0.00 min
 Lab File: BE097491.D
 Acq: 18 Mar 2016 7:28

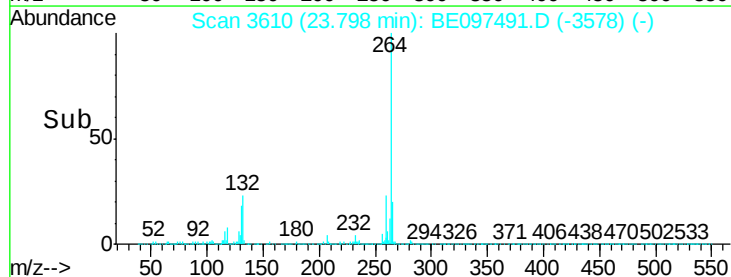
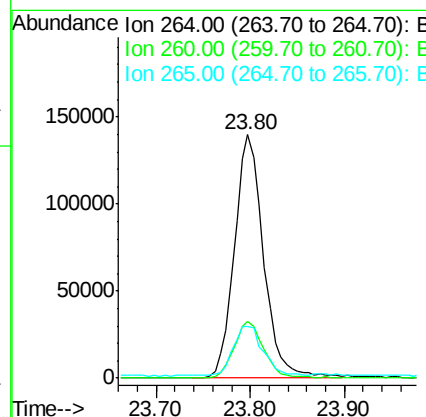
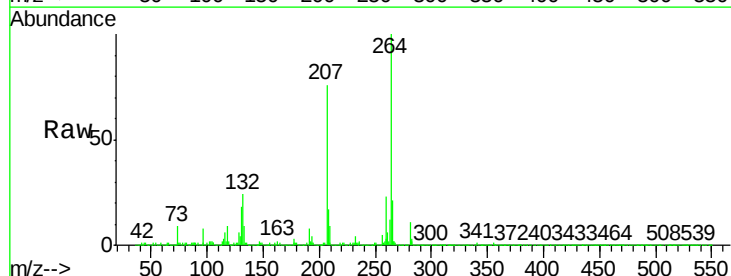
Instrument :
 BNA_E
 ClientSampleId :
 PB88982BSD

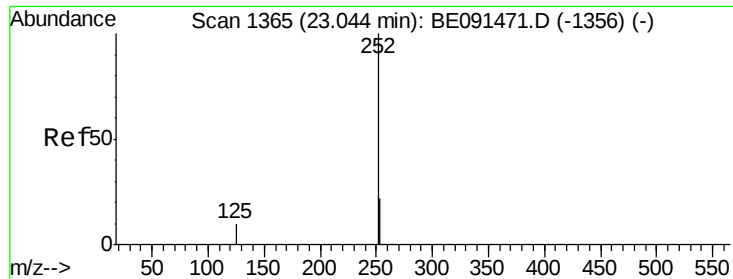
Tgt Ion	Ratio	Lower	Upper
276	100		
138	14.6	20.2	30.4#
277	14.3	19.8	29.8#



#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.80 min Scan# 3610
 Delta R.T. -0.01 min
 Lab File: BE097491.D
 Acq: 18 Mar 2016 7:28

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	20.1	30.1
265	21.4	18.3	27.5





#29

Benzo(b)fluoranthene

Concen: 0.10 ng

RT: 23.04 min Scan# 3481

Delta R.T. -0.00 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

Instrument :

BNA_E

ClientSampleId :

PB88982BSD

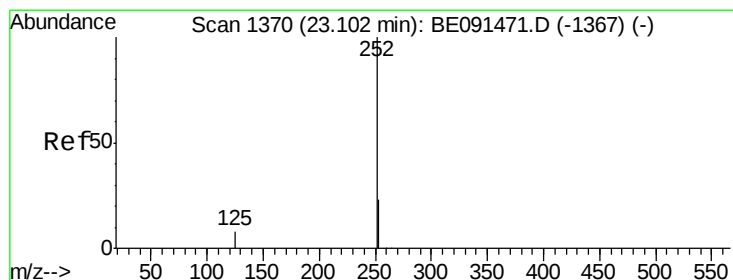
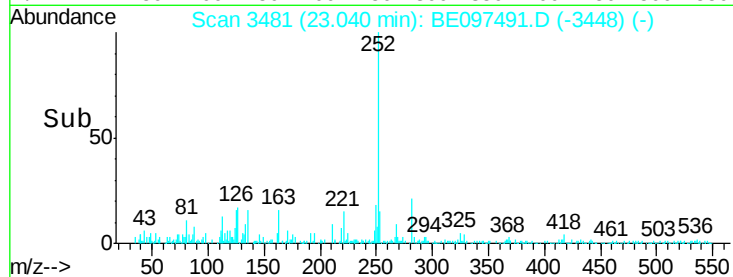
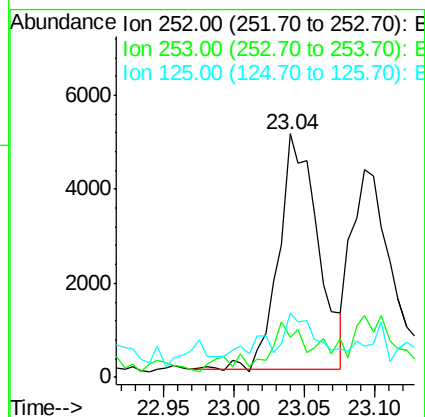
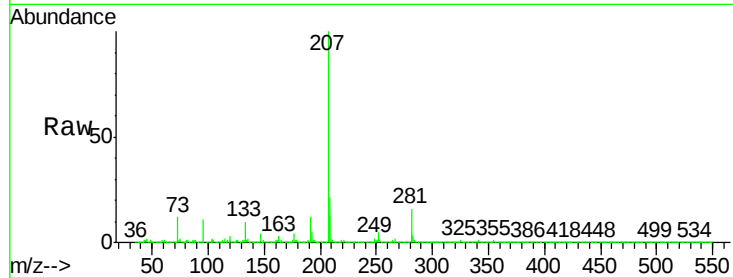
Tgt Ion:252 Resp: 9593

Ion Ratio Lower Upper

252 100

253 16.6 18.7 28.1#

125 26.4 9.8 14.6#



#30

Benzo(k)fluoranthene

Concen: 0.09 ng

RT: 23.09 min Scan# 3490

Delta R.T. -0.01 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

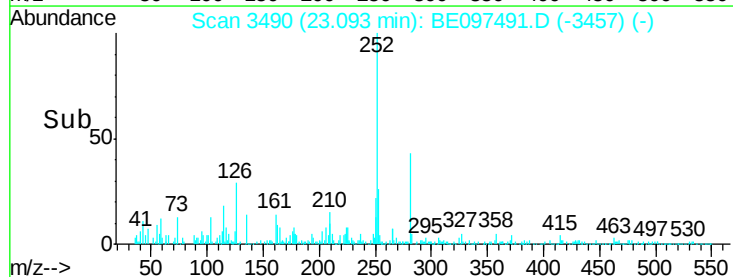
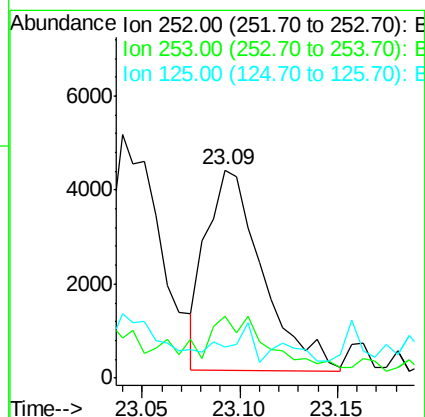
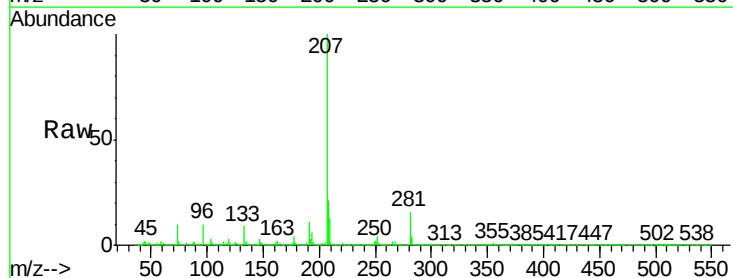
Tgt Ion:252 Resp: 8529

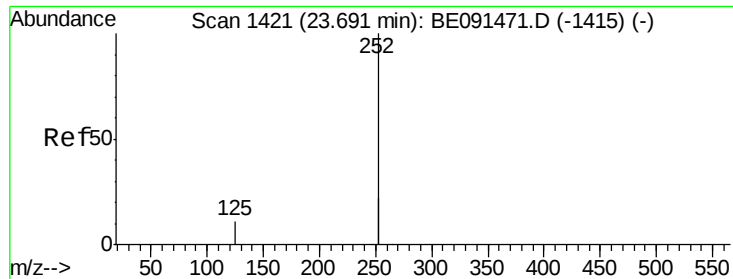
Ion Ratio Lower Upper

252 100

253 29.7 20.2 30.4

125 15.1 9.4 14.2#





#31

Benzo(a)pyrene

Concen: 0.09 ng

RT: 23.69 min Scan# 3592

Delta R.T. 0.00 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

Instrument :

BNA_E

ClientSampleId :

PB88982BSD

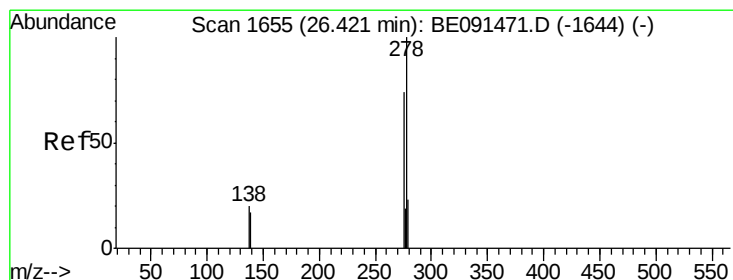
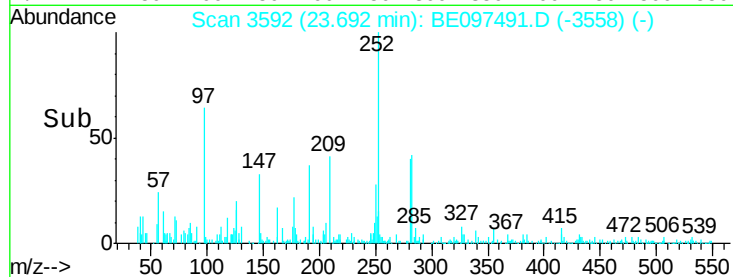
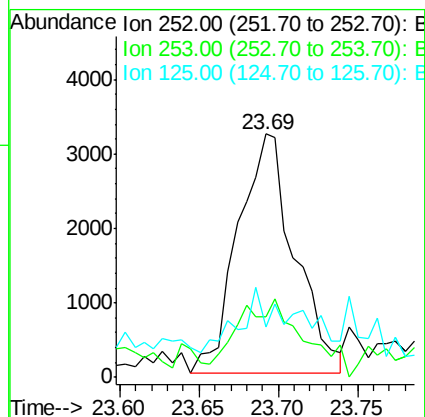
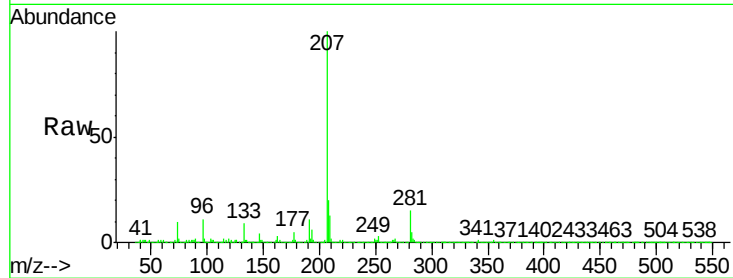
Tgt Ion:252 Resp: 7939

Ion Ratio Lower Upper

252 100

253 29.6 19.4 29.0#

125 20.7 11.4 17.2#



#32

Dibenzo(a,h)anthracene

Concen: 0.08 ng

RT: 26.43 min Scan# 4058

Delta R.T. 0.01 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

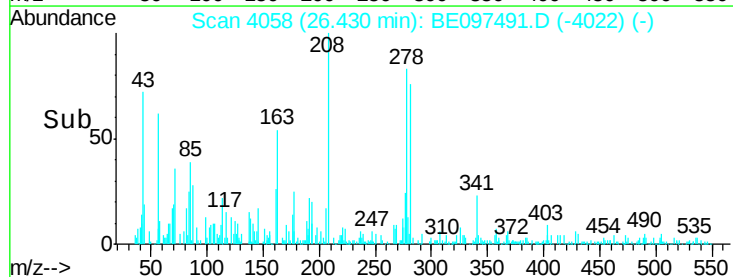
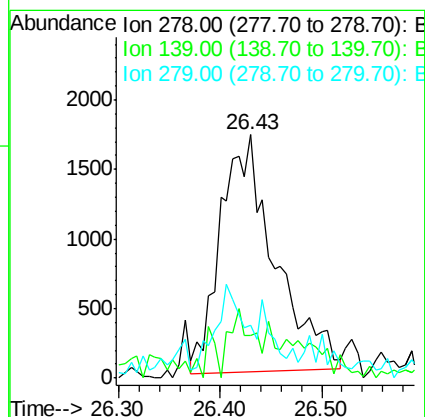
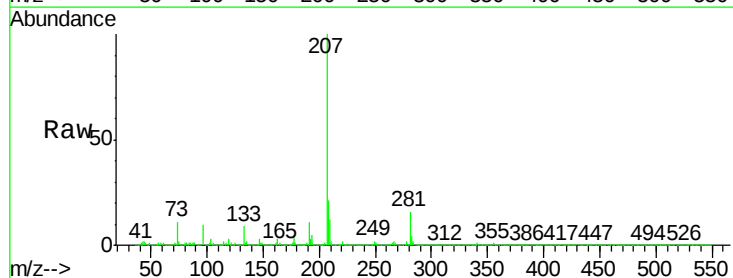
Tgt Ion:278 Resp: 6352

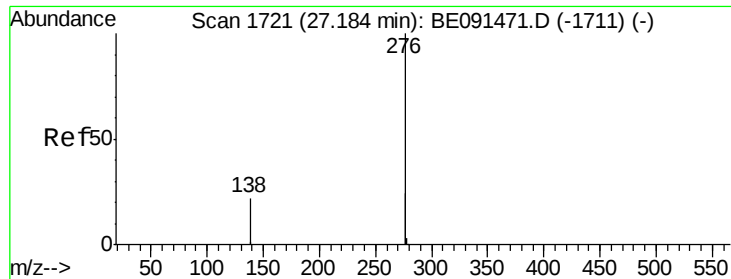
Ion Ratio Lower Upper

278 100

139 17.7 14.2 21.4

279 21.8 19.6 29.4





#33

Benzo(g,h,i)perylene

Concen: 0.08 ng

RT: 27.19 min Scan# 4187

Delta R.T. 0.00 min

Lab File: BE097491.D

Acq: 18 Mar 2016 7:28

Instrument :

BNA_E

ClientSampleId :

PB88982BSD

Tgt Ion: 276 Resp: 6986

Ion Ratio Lower Upper

276 100

277 33.4 19.4 29.2#

138 21.6 18.2 27.4

