

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
 Data File : BE097482.D
 Acq On : 18 Mar 2016 1:21
 Operator : UM/SJ
 Sample : MDL-05-W
 Misc : 0.08PPM
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 18 04:56:49 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	37936	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	166470	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	100115	5.00	ng	0.00
16) Phenanthrene-d10	17.18	188	251940	5.00	ng	0.00
22) Chrysene-d12	21.34	240	310725	5.00	ng	0.00
28) Perylene-d12	23.80	264	283431	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.42	112	65704	7.54	ng	0.00
5) Phenol-d6	6.99	99	84350	7.41	ng	0.00
7) Nitrobenzene-d5	8.98	82	30318	3.40	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	19930	5.48	ng	0.00
12) 2-Fluorobiphenyl	13.07	172	100502	3.99	ng	0.00
24) Terphenyl-d14	19.79	244	190966	5.11	ng	0.00

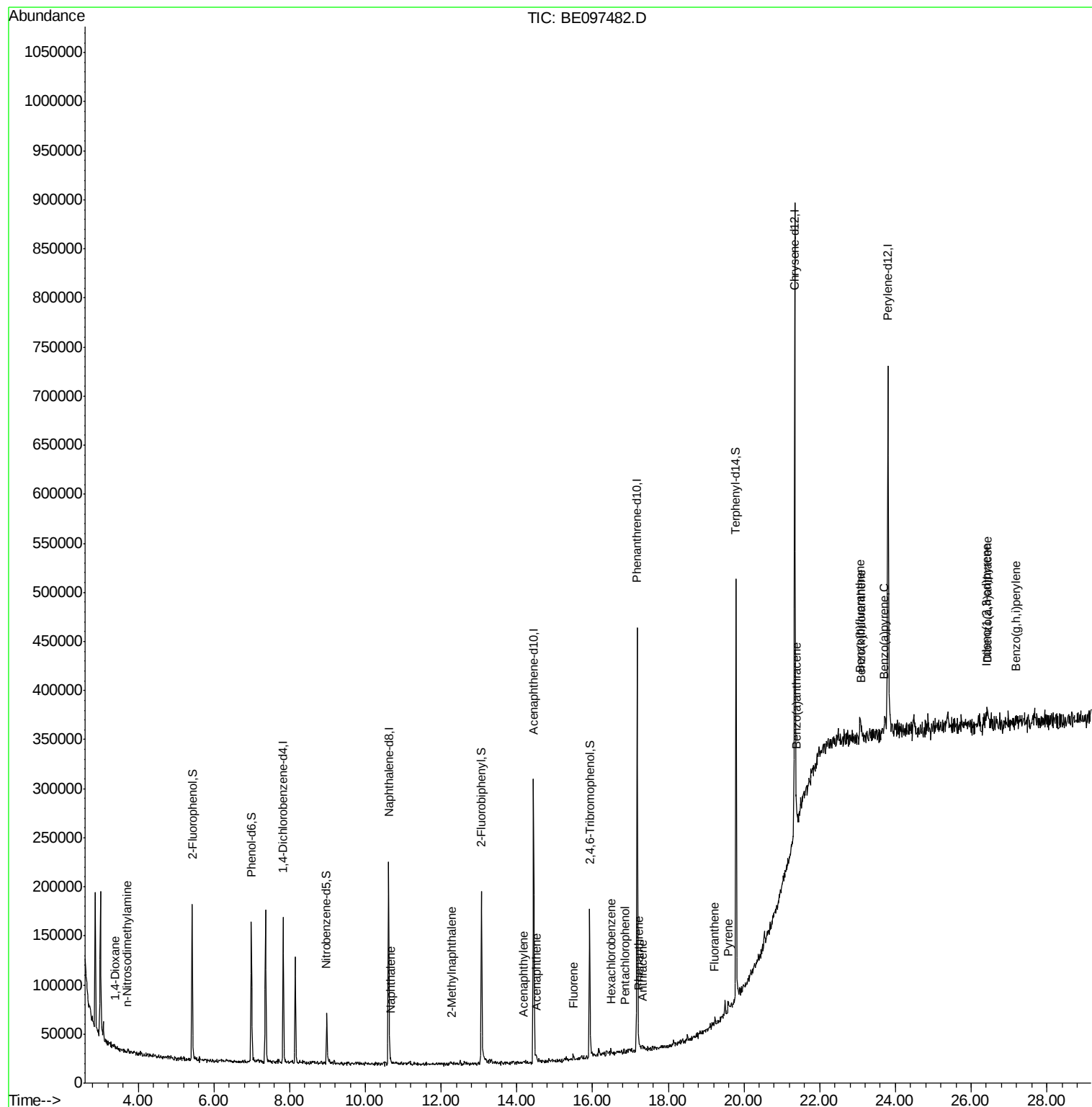
Target Compounds						Qvalue
2) 1,4-Dioxane	3.38	88	507	0.11	ng	95
3) n-Nitrosodimethylamine	3.69	42	275	0.04	ng	# 37
8) Naphthalene	10.66	128	2231	0.05	ng	# 54
9) 2-Methylnaphthalene	12.28	142	1669	0.06	ng	# 71
13) Acenaphthylene	14.16	152	1741	0.17	ng	95
14) Acenaphthene	14.51	154	1729	0.06	ng	93
15) Fluorene	15.49	166	1844	0.05	ng	# 95
17) Hexachlorobenzene	16.49	284	782	0.07	ng	# 56
18) Pentachlorophenol	16.84	266	163	0.33	ng	# 61
19) Phenanthrene	17.22	178	4622	0.06	ng	# 85
20) Anthracene	17.31	178	2969	0.05	ng	# 92
21) Fluoranthene	19.23	202	4191	0.05	ng	# 77
23) Pyrene	19.59	202	4816	0.06	ng	97
25) Benzo(a)anthracene	21.37	228	6266	0.07	ng	94
26) Chrysene	21.37	228	6266	Below Cal	#	82
27) Indeno(1,2,3-cd)pyrene	26.40	276	3922	0.04	ng	# 83
29) Benzo(b)fluoranthene	23.05	252	5474	0.06	ng	# 85
30) Benzo(k)fluoranthene	23.10	252	4438	0.05	ng	# 76
31) Benzo(a)pyrene	23.70	252	4736	0.06	ng	# 69
32) Dibenzo(a,h)anthracene	26.43	278	1843	0.02	ng	# 90
33) Benzo(g,h,i)perylene	27.19	276	1630	0.02	ng	# 75

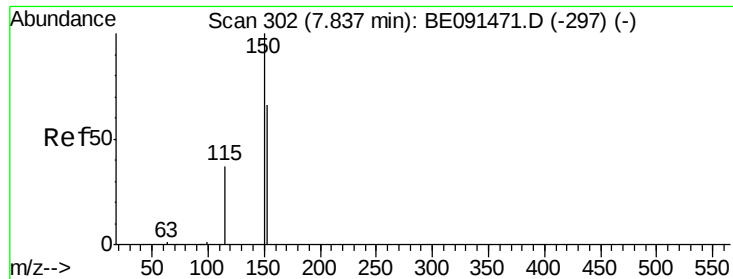
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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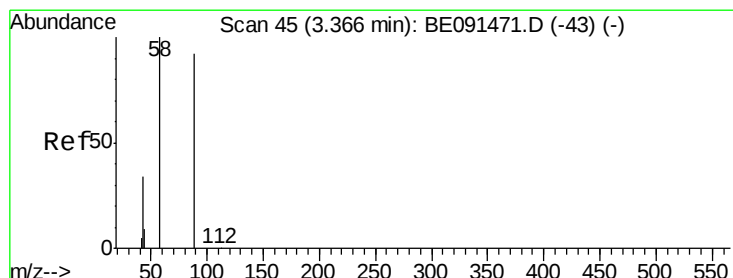
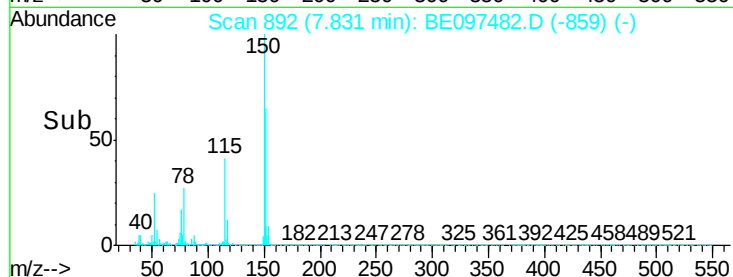
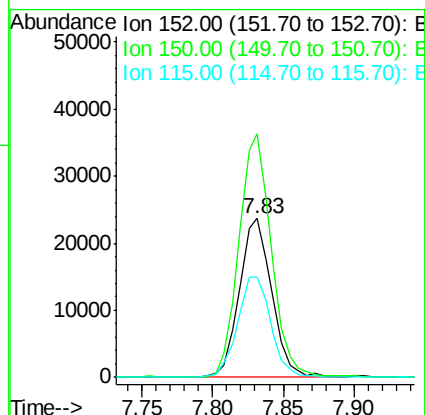
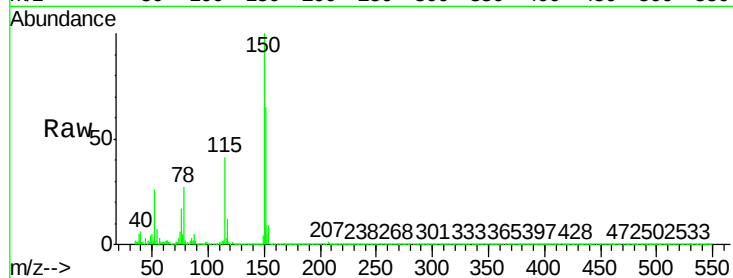


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.83 min Scan# 892
Delta R.T. -0.01 min
Lab File: BE097482.D
Acq: 18 Mar 2016 1:21

Instrument :
BNA_E
ClientSampleId :

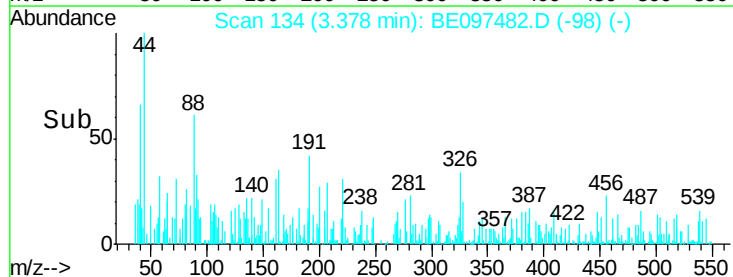
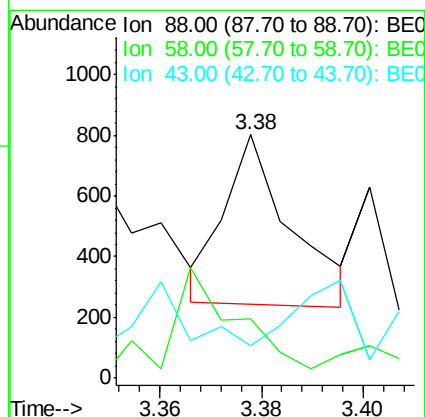
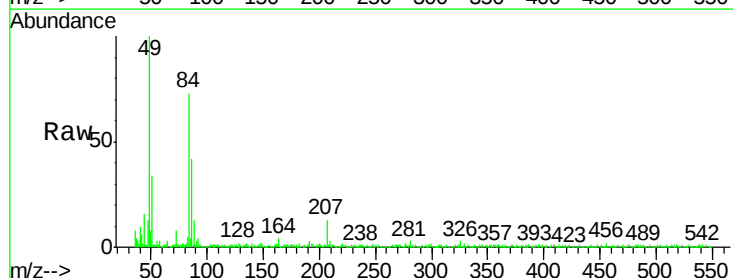
Tgt Ion:152 Resp: 37936
Ion Ratio Lower Upper
152 100
150 153.2 122.2 183.2
115 63.2 45.9 68.9

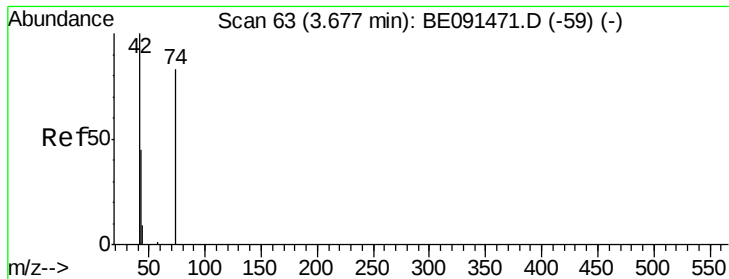


#2

1,4-Dioxane
Concen: 0.11 ng
RT: 3.38 min Scan# 134
Delta R.T. 0.01 min
Lab File: BE097482.D
Acq: 18 Mar 2016 1:21

Tgt Ion: 88 Resp: 507
Ion Ratio Lower Upper
88 100
58 71.0 61.0 91.6
43 33.3 25.4 38.2



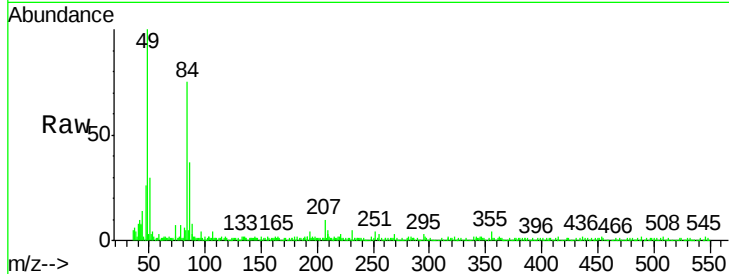


#3

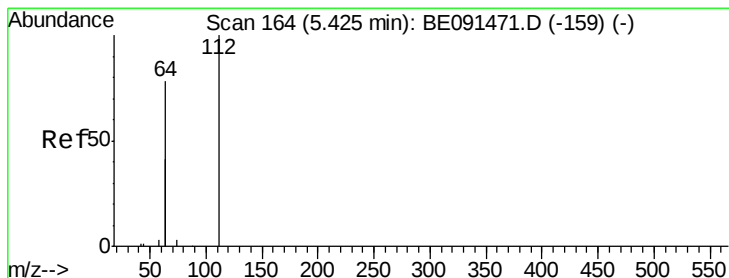
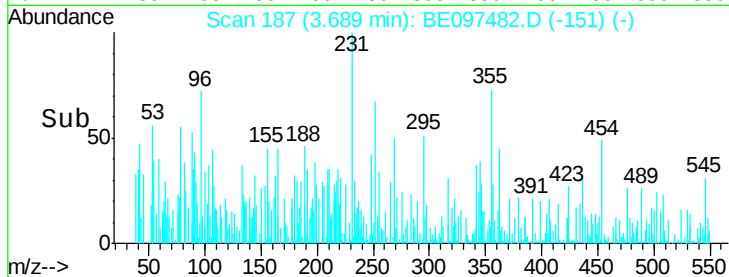
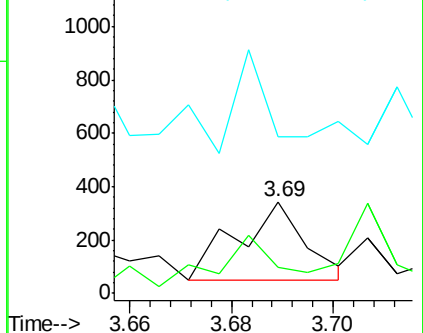
n-Nitrosodimethylamine
 Concen: 0.04 ng
 RT: 3.69 min Scan# 187
 Delta R.T. 0.01 min
 Lab File: BE097482.D
 Acq: 18 Mar 2016 1:21

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 42 Resp: 275
 Ion Ratio Lower Upper
 42 100
 74 57.8 84.3 126.5#
 44 106.5 6.7 10.1#



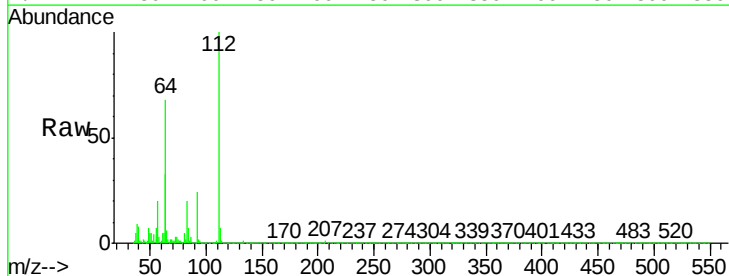
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



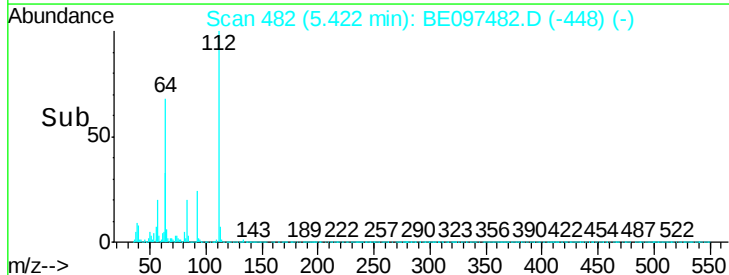
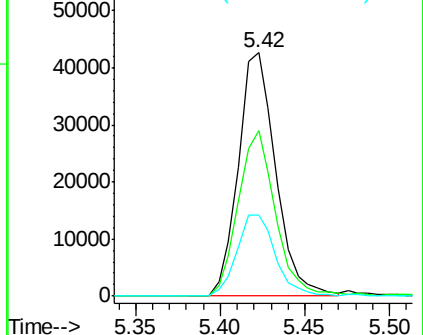
#4

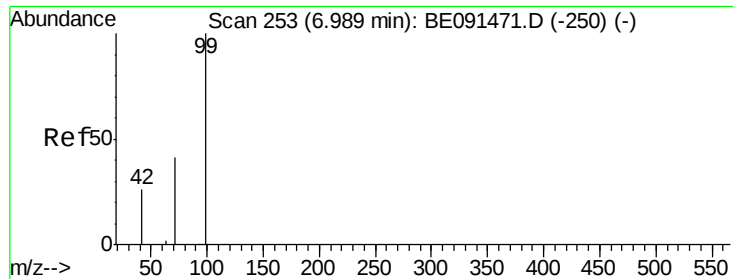
2-Fluorophenol
 Concen: 7.54 ng
 RT: 5.42 min Scan# 482
 Delta R.T. -0.00 min
 Lab File: BE097482.D
 Acq: 18 Mar 2016 1:21

Tgt Ion: 112 Resp: 65704
 Ion Ratio Lower Upper
 112 100
 64 68.1 53.3 79.9
 63 34.2 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: 7.41 ng

RT: 6.99 min Scan# 749

Delta R.T. 0.00 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

Instrument :

BNA_E

ClientSampleId :

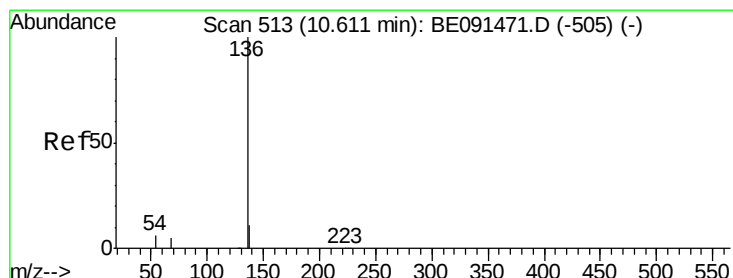
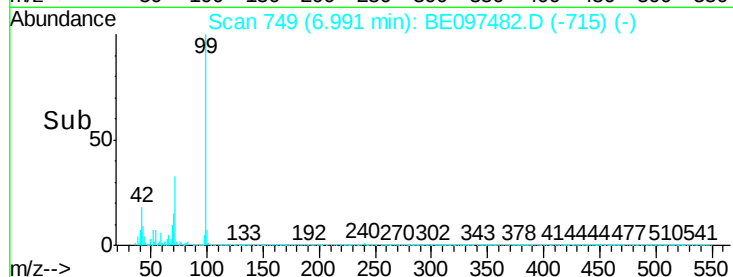
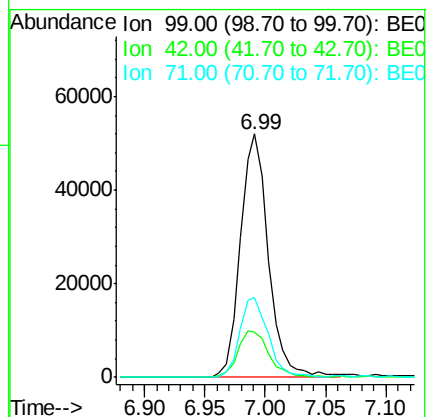
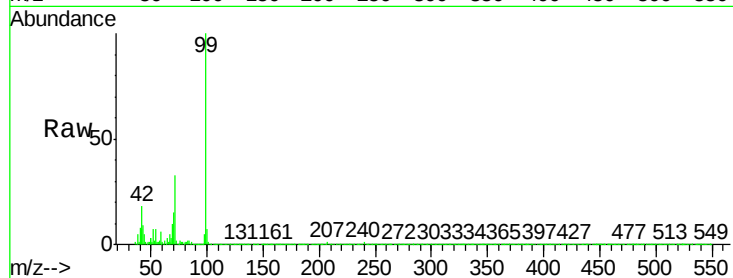
Tgt Ion: 99 Resp: 84350

Ion Ratio Lower Upper

99 100

42 21.2 20.6 30.8

71 33.4 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: BE097482.D

Acq: 18 Mar 2016 1:21

Tgt Ion: 136 Resp: 166470

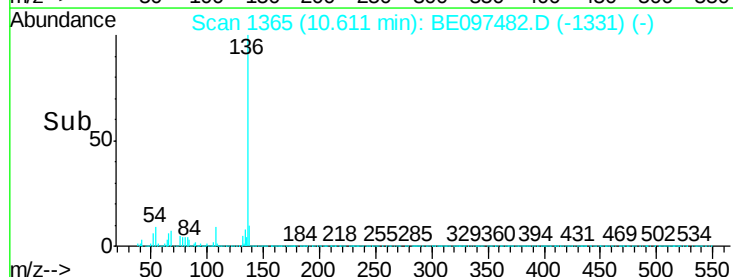
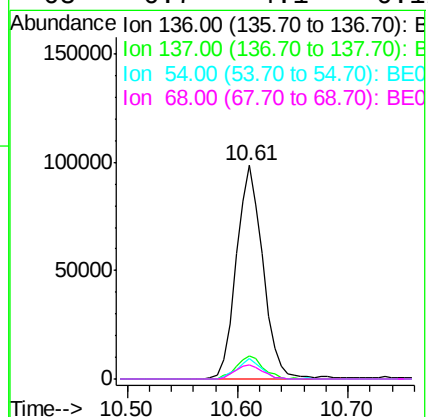
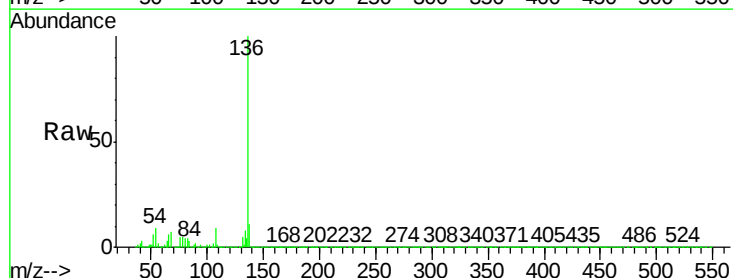
Ion Ratio Lower Upper

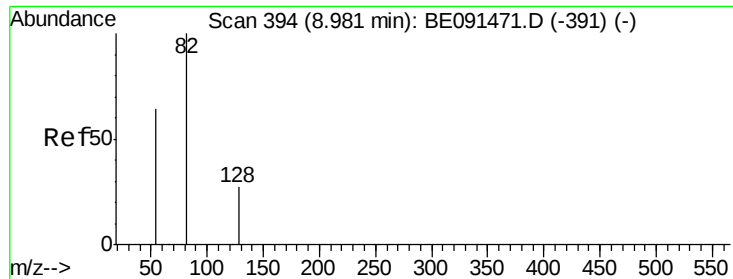
136 100

137 10.5 8.8 13.2

54 9.3 5.2 7.8#

68 6.7 4.1 6.1#





#7

Nitrobenzene-d5

Concen: 3.40 ng

RT: 8.98 min Scan# 1087

Delta R.T. -0.00 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

Instrument :

BNA_E

ClientSampleId :

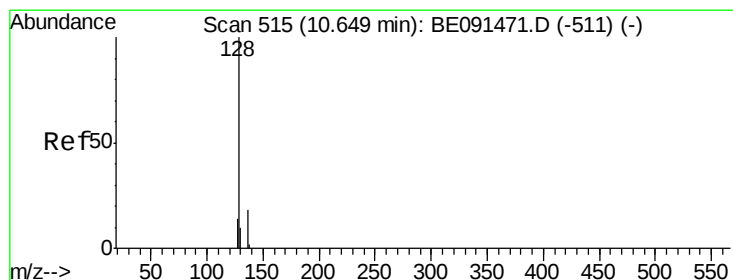
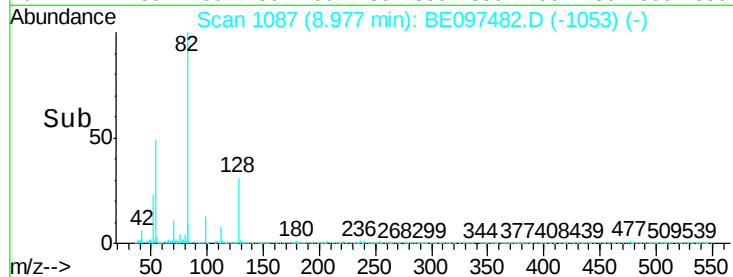
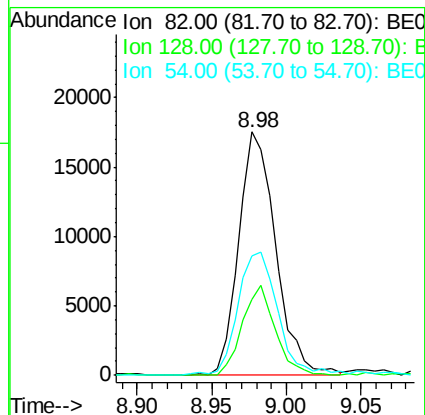
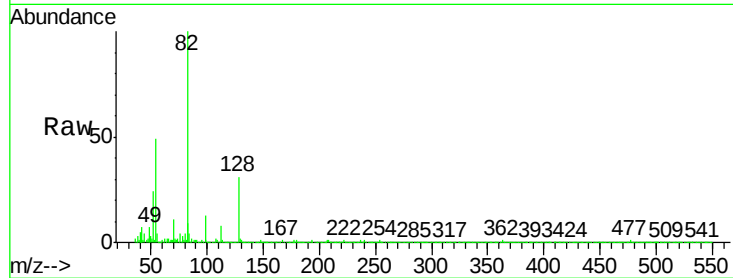
Tgt Ion: 82 Resp: 30318

Ion Ratio Lower Upper

82 100

128 31.1 23.5 35.3

54 49.2 52.4 78.6#



#8

Naphthalene

Concen: 0.05 ng

RT: 10.66 min Scan# 1373

Delta R.T. 0.01 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

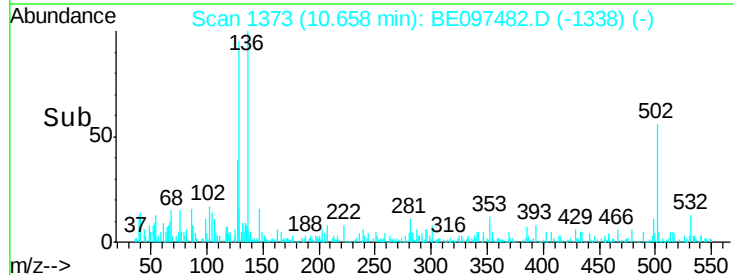
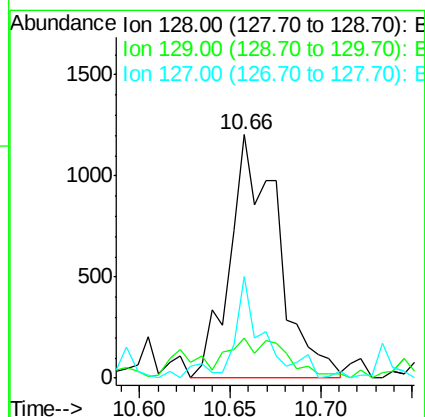
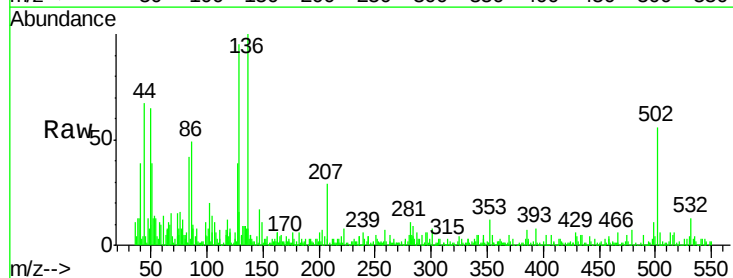
Tgt Ion: 128 Resp: 2231

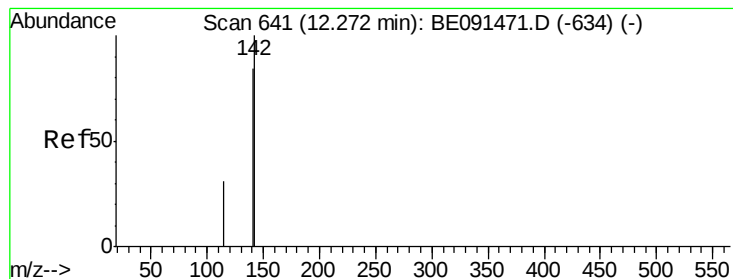
Ion Ratio Lower Upper

128 100

129 16.7 8.2 12.2#

127 41.7 11.8 17.8#





#9

2-Methylnaphthalene

Concen: 0.06 ng

RT: 12.28 min Scan# 1649

Delta R.T. 0.01 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

Instrument :

BNA_E

ClientSampled :

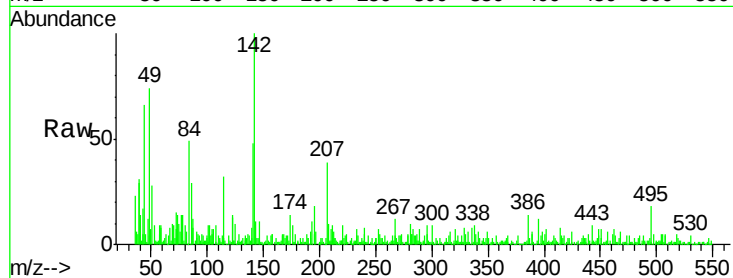
Tgt Ion:142 Resp: 1669

Ion Ratio Lower Upper

142 100

141 48.4 66.9 100.3#

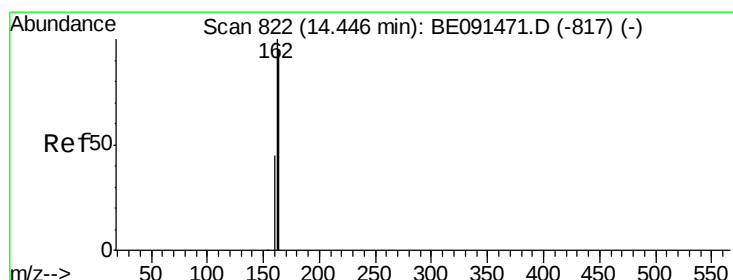
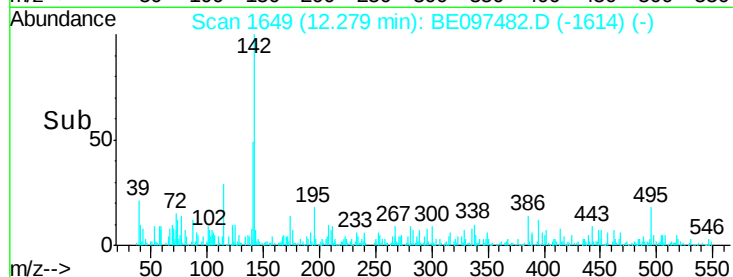
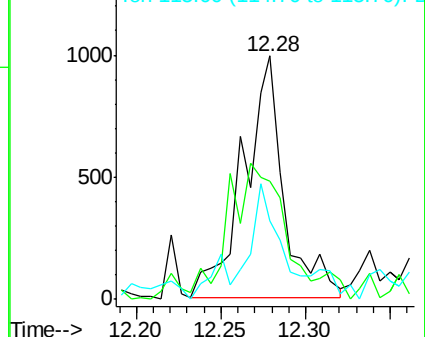
115 32.0 25.1 37.7



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. -0.00 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

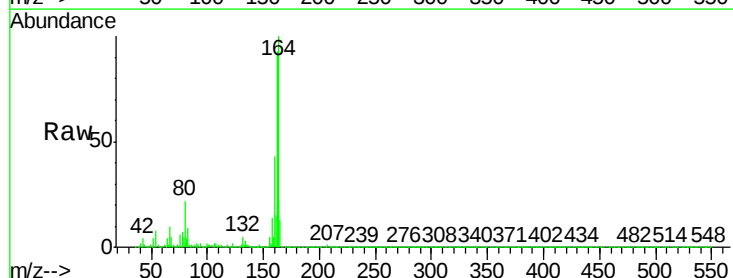
Tgt Ion:164 Resp: 100115

Ion Ratio Lower Upper

164 100

162 92.7 84.4 126.6

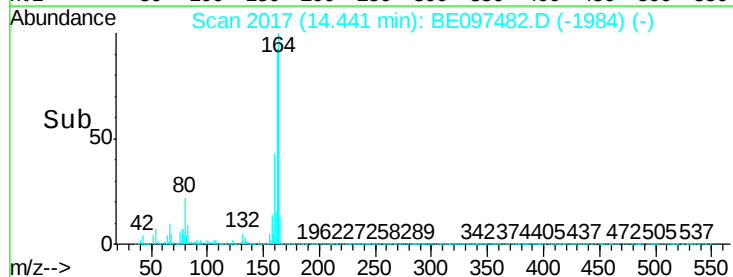
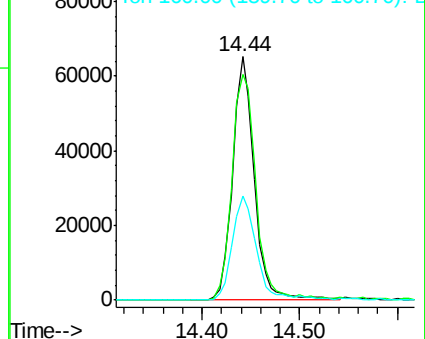
160 42.6 37.7 56.5

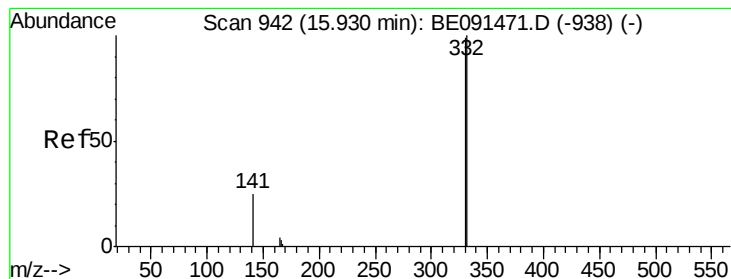


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

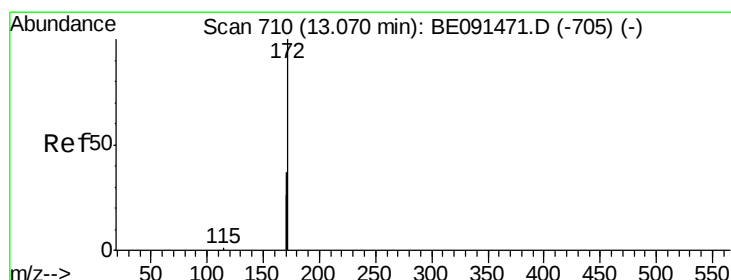
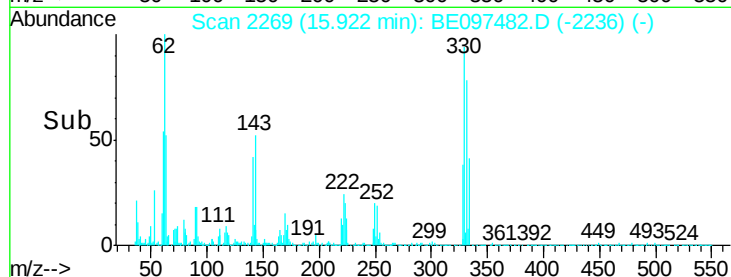
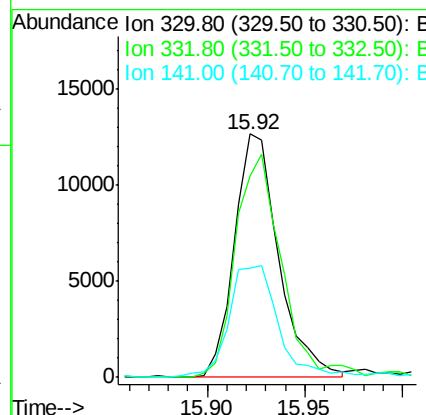
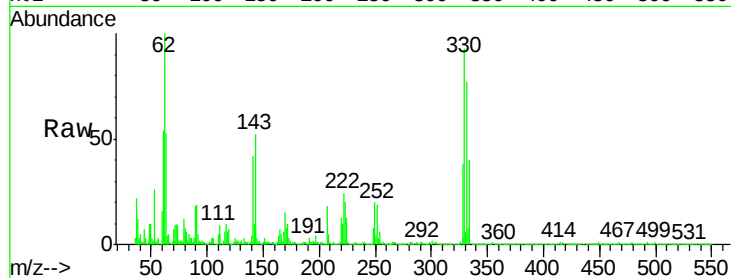




#11
 2,4,6-Tribromophenol
 Concen: 5.48 ng
 RT: 15.92 min Scan# 2269
 Delta R.T. -0.01 min
 Lab File: BE097482.D
 Acq: 18 Mar 2016 1:21

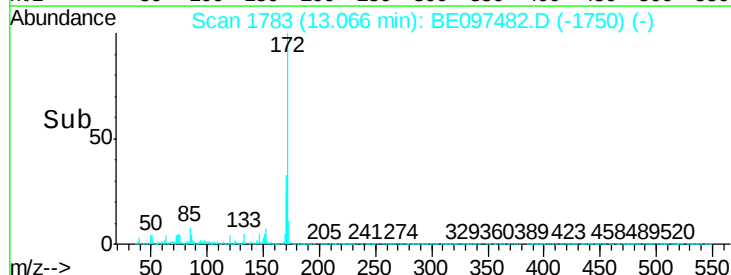
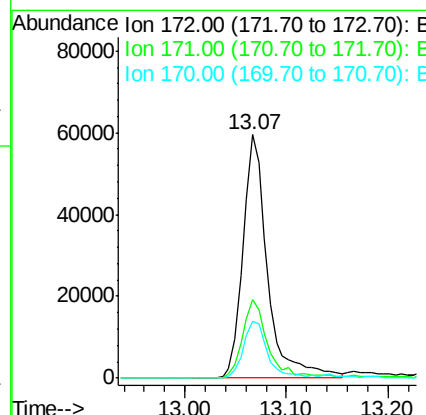
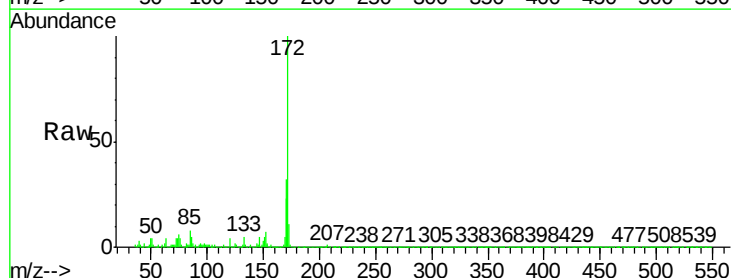
Instrument :
 BNA_E
 ClientSampleId :

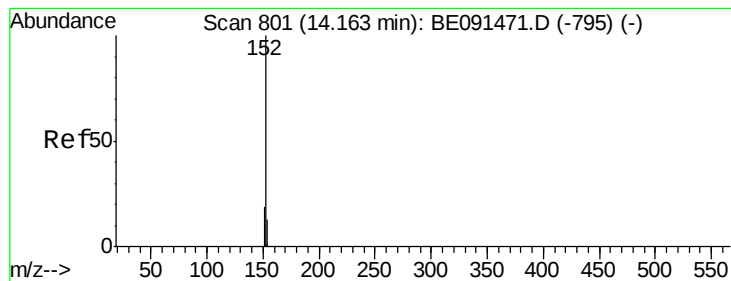
Tgt Ion:330 Resp: 19930
 Ion Ratio Lower Upper
 330 100
 332 94.7 79.2 118.8
 141 50.8 28.1 42.1#



#12
 2-Fluorobiphenyl
 Concen: 3.99 ng
 RT: 13.07 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: BE097482.D
 Acq: 18 Mar 2016 1:21

Tgt Ion:172 Resp: 100502
 Ion Ratio Lower Upper
 172 100
 171 32.3 29.8 44.8
 170 23.5 21.4 32.2





#13

Acenaphthylene

Concen: 0.17 ng

RT: 14.16 min Scan# 1969

Delta R.T. -0.00 min

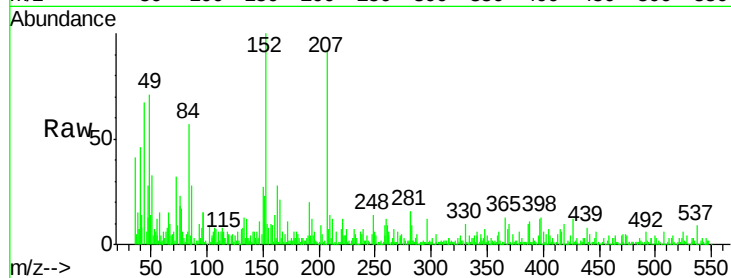
Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

Instrument :

BNA_E

ClientSampleId :



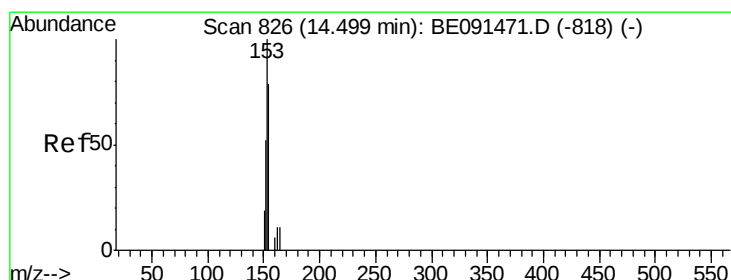
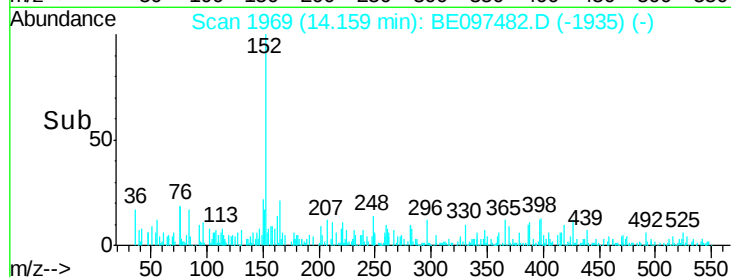
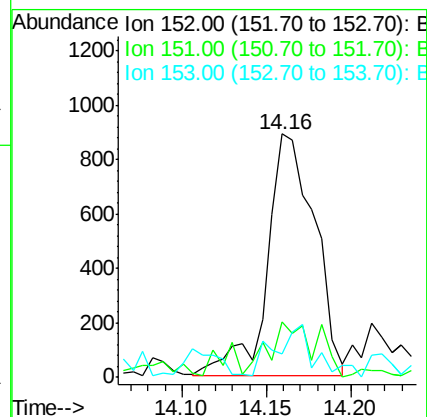
Tgt Ion:152 Resp: 1741

Ion Ratio Lower Upper

152 100

151 22.3 16.3 24.5

153 16.3 11.1 16.7



#14

Acenaphthene

Concen: 0.06 ng

RT: 14.51 min Scan# 2029

Delta R.T. 0.01 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

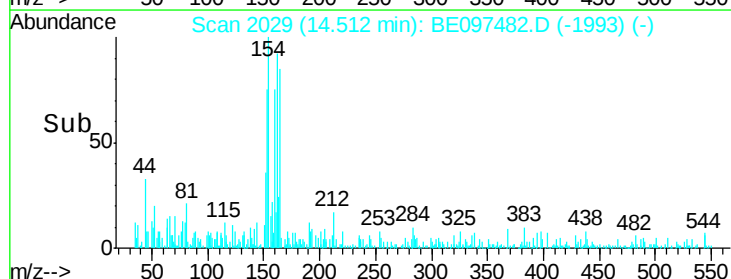
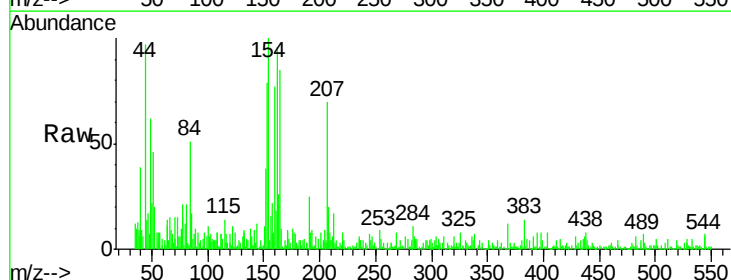
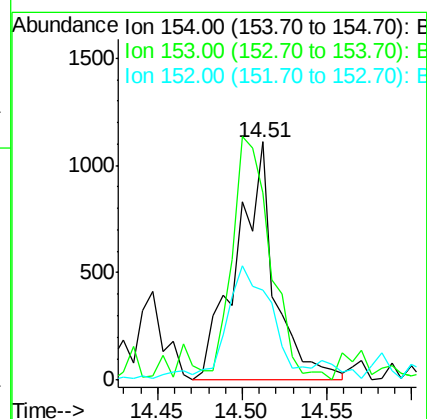
Tgt Ion:154 Resp: 1729

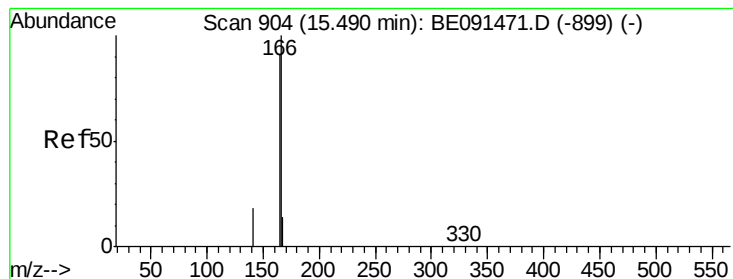
Ion Ratio Lower Upper

154 100

153 101.3 87.3 130.9

152 57.8 42.9 64.3





#15

Fluorene

Concen: 0.05 ng

RT: 15.49 min Scan# 2195

Delta R.T. -0.00 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

Instrument :

BNA_E

ClientSampleId :

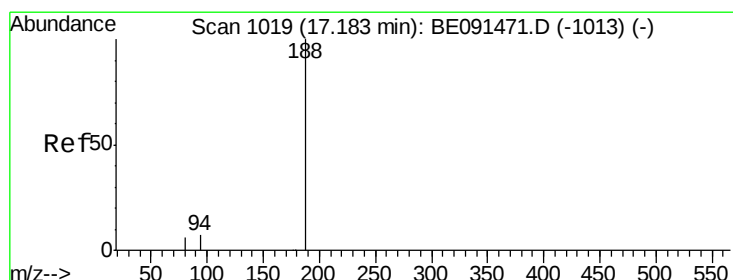
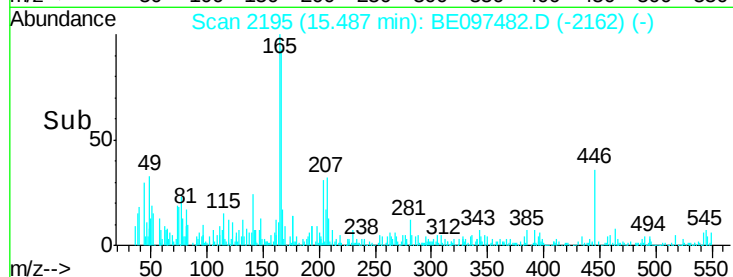
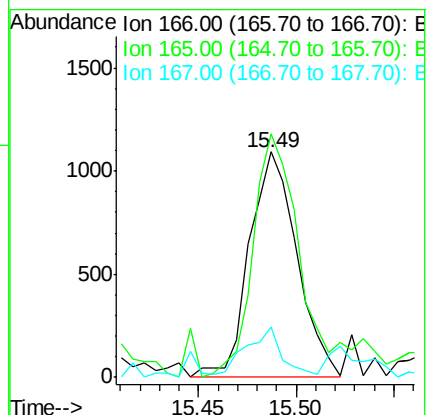
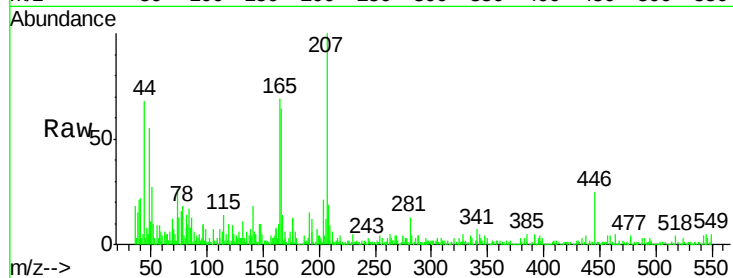
Tgt Ion:166 Resp: 1844

Ion Ratio Lower Upper

166 100

165 103.0 79.2 118.8

167 17.0 10.8 16.2#



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.18 min Scan# 2483

Delta R.T. -0.00 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

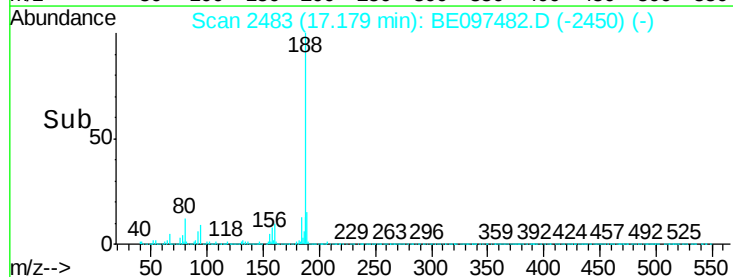
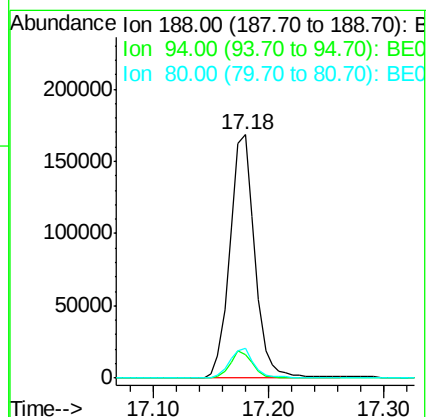
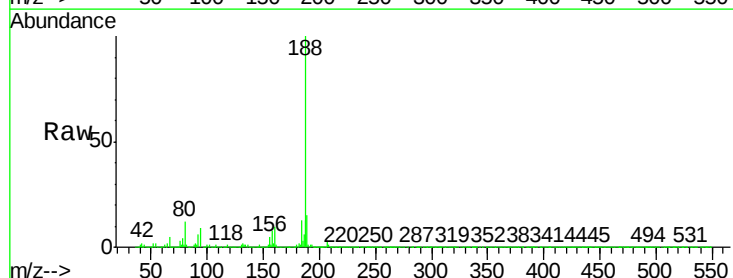
Tgt Ion:188 Resp: 251940

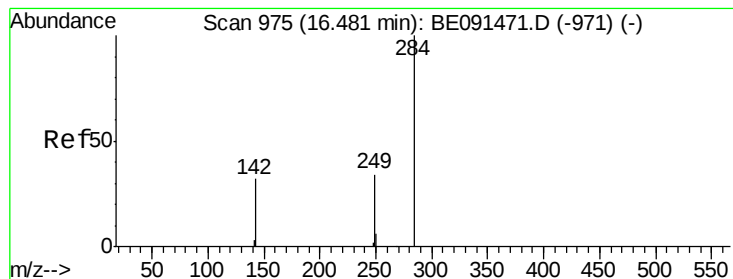
Ion Ratio Lower Upper

188 100

94 9.5 5.4 8.2#

80 12.3 5.0 7.4#





#17

Hexachlorobenzene

Concen: 0.07 ng

RT: 16.49 min Scan# 2365

Delta R.T. 0.00 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

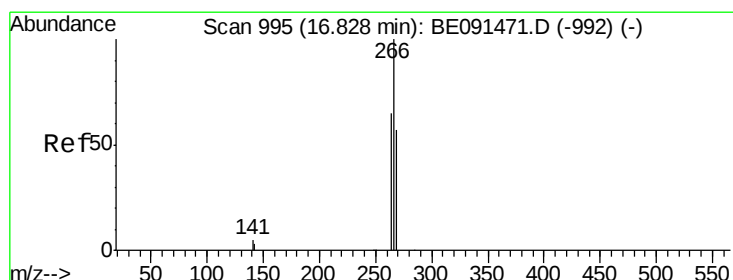
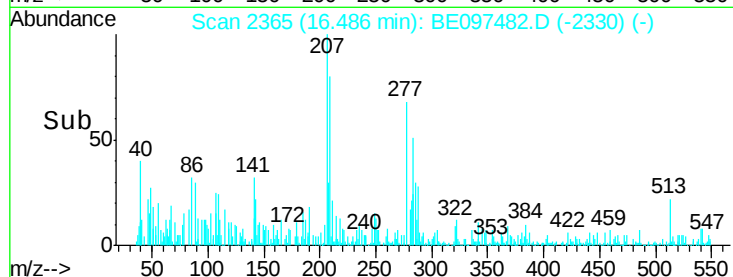
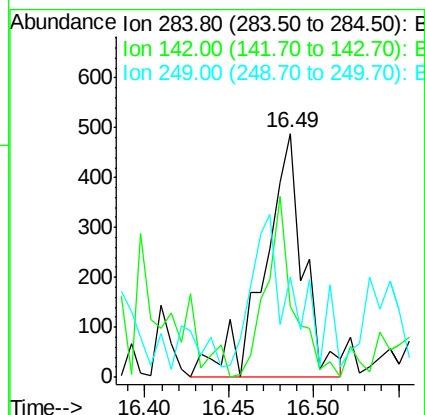
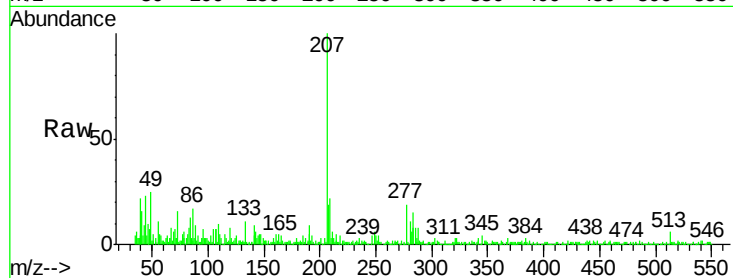
Instrument :

BNA_E

ClientSampleId :

Tgt Ion:284 Resp: 782

Ion	Ratio	Lower	Upper
284	100		
142	51.9	31.0	46.4#
249	71.7	25.8	38.8#



#18

Pentachlorophenol

Concen: 0.33 ng

RT: 16.84 min Scan# 2425

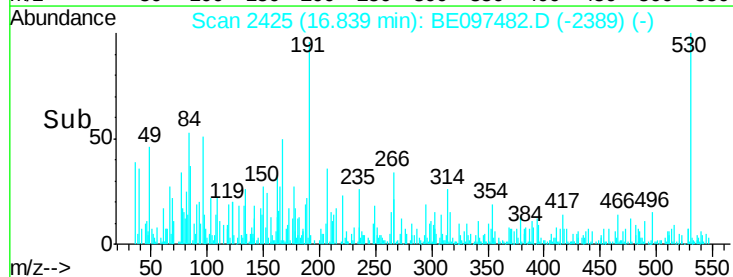
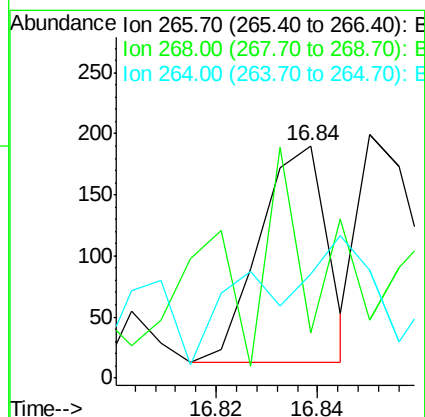
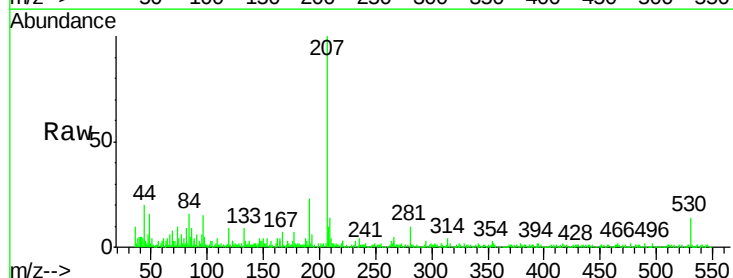
Delta R.T. 0.01 min

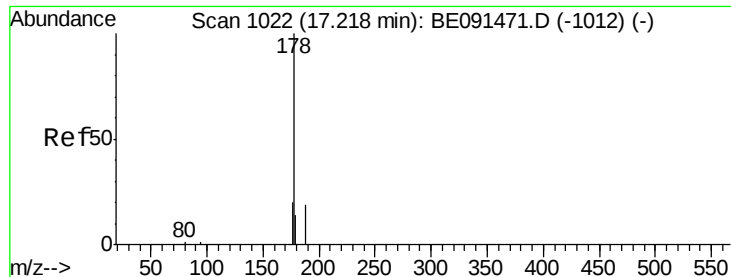
Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

Tgt Ion:266 Resp: 163

Ion	Ratio	Lower	Upper
266	100		
268	19.5	48.2	72.2#
264	44.7	52.1	78.1#





#19

Phenanthrene

Concen: 0.06 ng

RT: 17.22 min Scan# 2490

Delta R.T. 0.00 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

Instrument :

BNA_E

ClientSampleId :

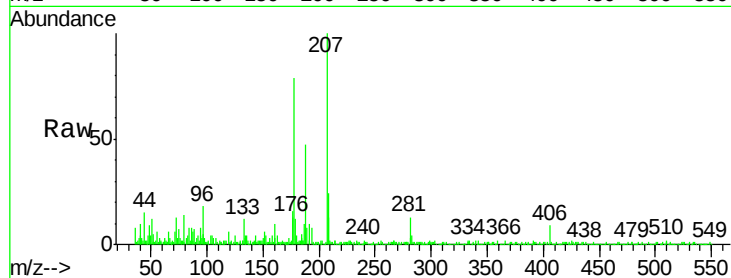
Tgt Ion:178 Resp: 4622

Ion Ratio Lower Upper

178 100

176 27.6 15.5 23.3#

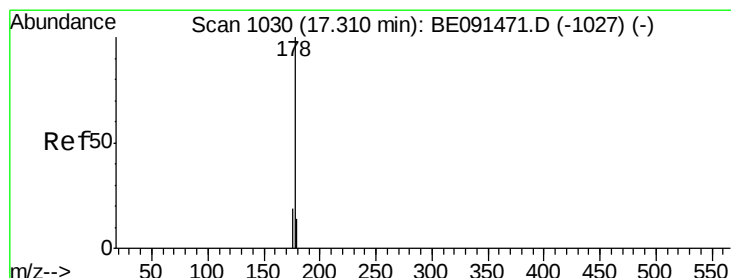
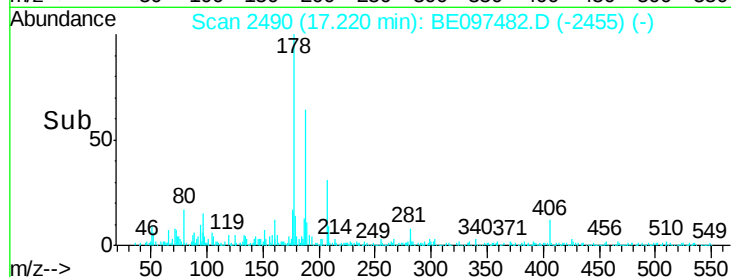
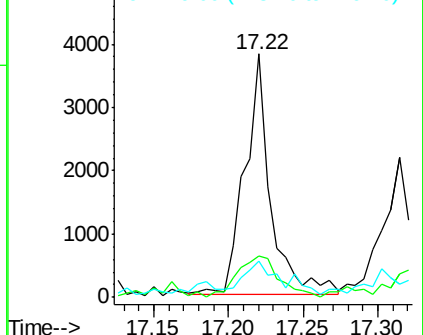
179 11.1 13.1 19.7#



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: 0.05 ng

RT: 17.31 min Scan# 2506

Delta R.T. 0.00 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

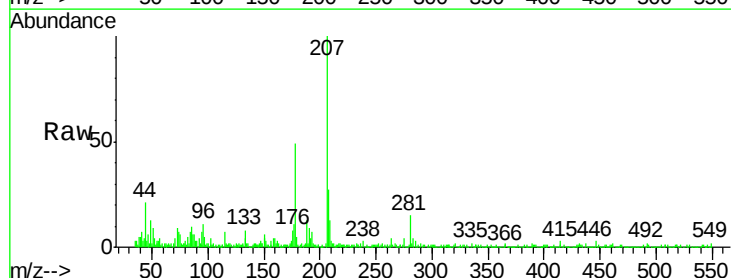
Tgt Ion:178 Resp: 2969

Ion Ratio Lower Upper

178 100

176 19.3 14.9 22.3

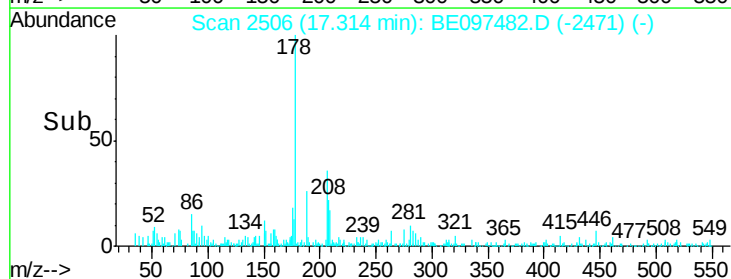
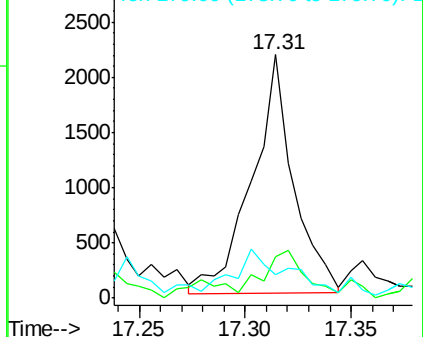
179 21.9 12.2 18.4#

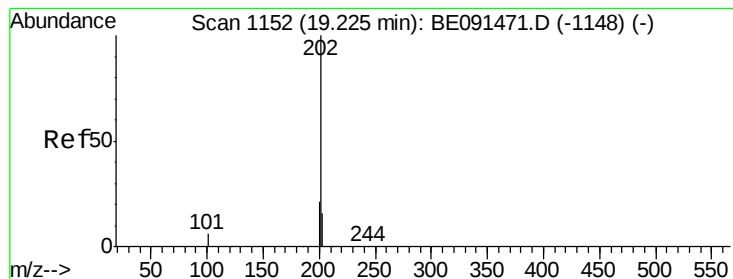


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#21

Fluoranthene

Concen: 0.05 ng

RT: 19.23 min Scan# 2832

Delta R.T. 0.00 min

Lab File: BE097482.D

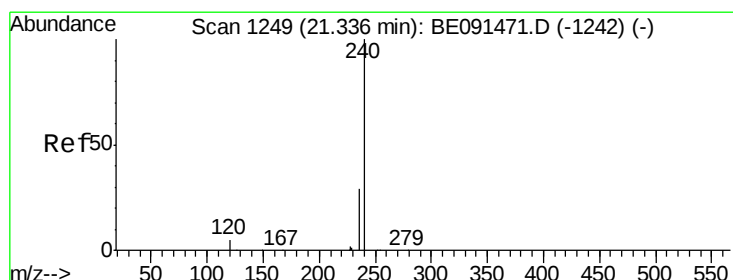
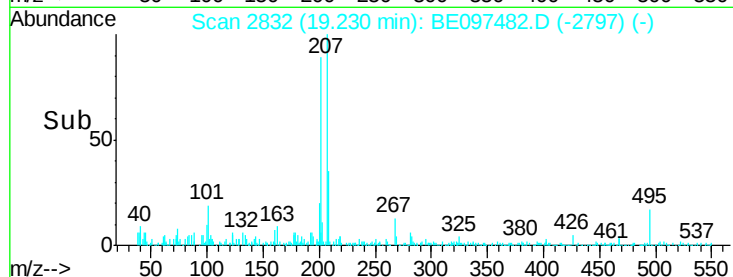
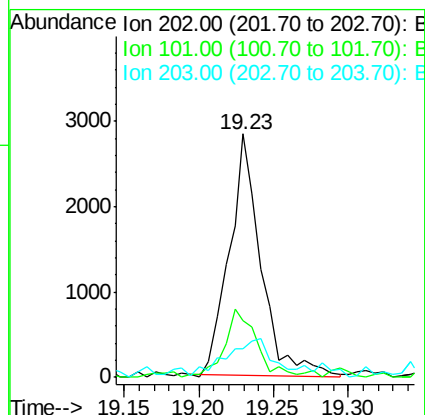
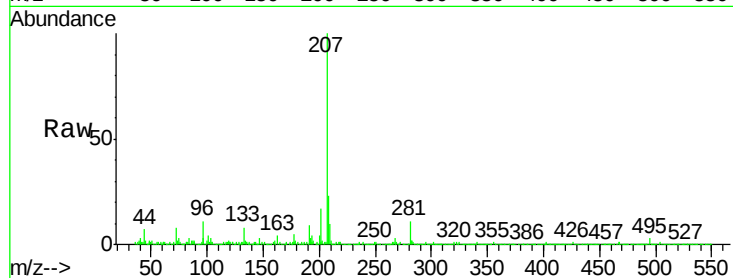
Acq: 18 Mar 2016 1:21

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	202	Resp:	4191
Ion Ratio	Lower	Upper	
202	100		
101	28.4	8.3	12.5#
203	20.7	13.9	20.9



#22

Chrysene-d12

Concen: 5.00 ng

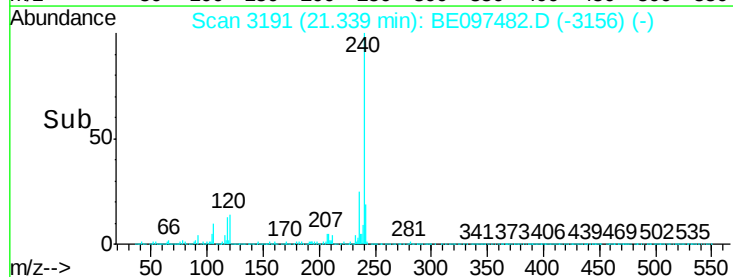
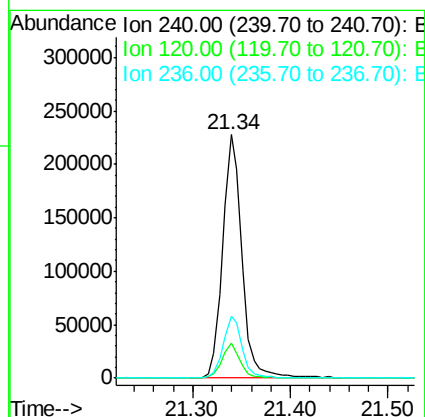
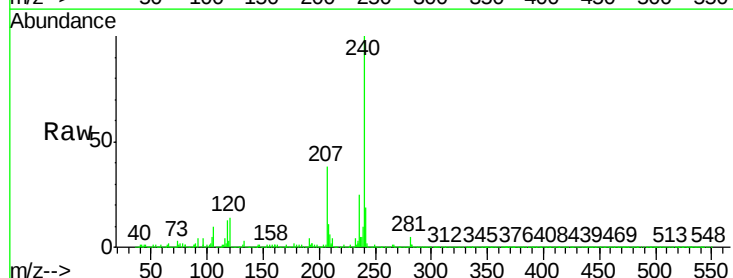
RT: 21.34 min Scan# 3191

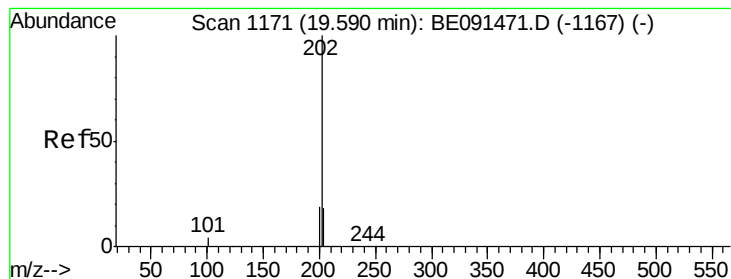
Delta R.T. 0.00 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

Tgt Ion:	240	Resp:	310725
Ion Ratio	Lower	Upper	
240	100		
120	14.4	4.0	6.0#
236	25.3	23.0	34.4





#23

Pyrene

Concen: 0.06 ng

RT: 19.59 min Scan# 2893

Delta R.T. -0.00 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

Instrument :

BNA_E

ClientSampleId :

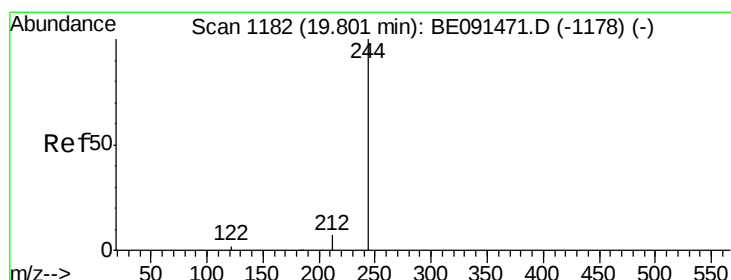
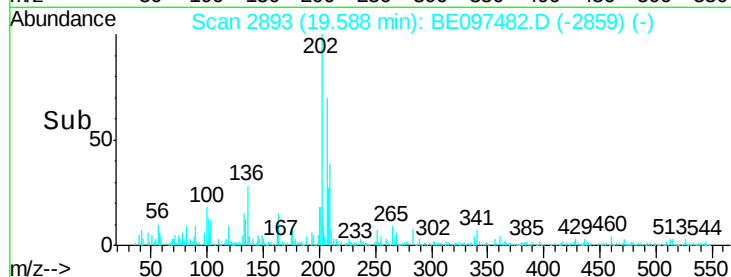
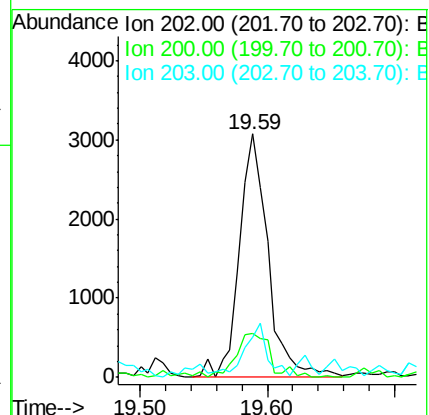
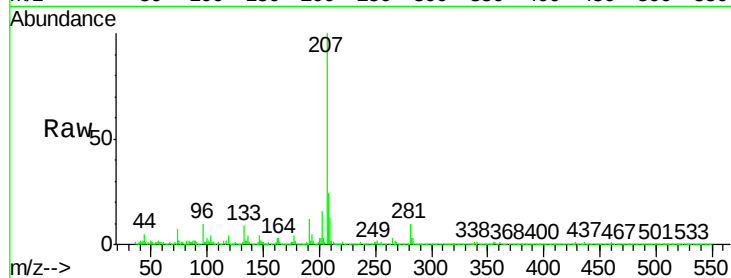
Tgt Ion:202 Resp: 4816

Ion Ratio Lower Upper

202 100

200 19.5 16.4 24.6

203 16.2 14.6 21.8



#24

Terphenyl-d14

Concen: 5.11 ng

RT: 19.79 min Scan# 2928

Delta R.T. -0.01 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

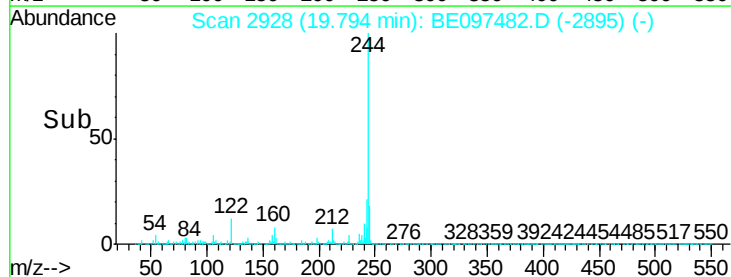
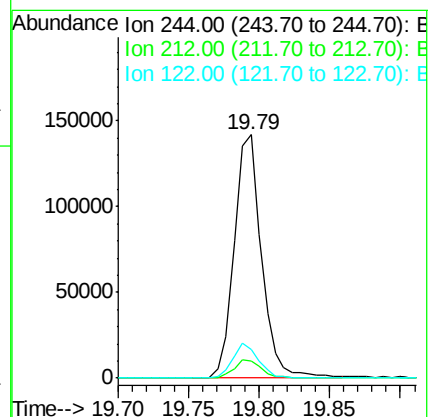
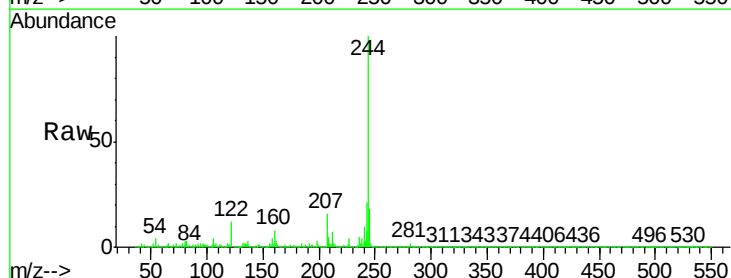
Tgt Ion:244 Resp: 190966

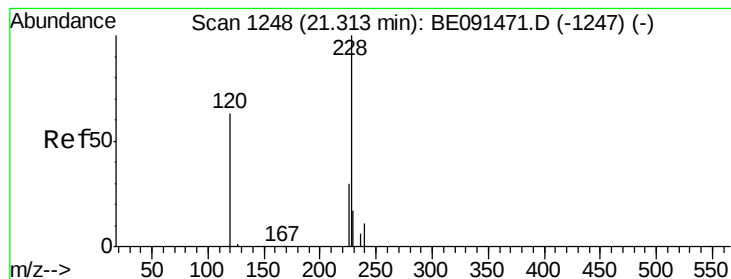
Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.8

122 11.9 1.8 2.8#





#25

Benzo(a)anthracene

Concen: 0.07 ng

RT: 21.37 min Scan# 3197

Delta R.T. 0.06 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

Instrument :

BNA_E

ClientSampleId :

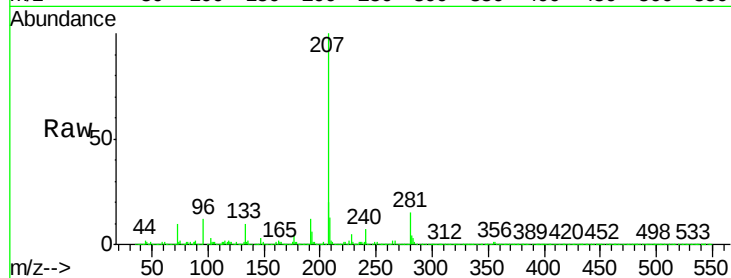
Tgt Ion:228 Resp: 6266

Ion Ratio Lower Upper

228 100

226 35.2 24.0 36.0

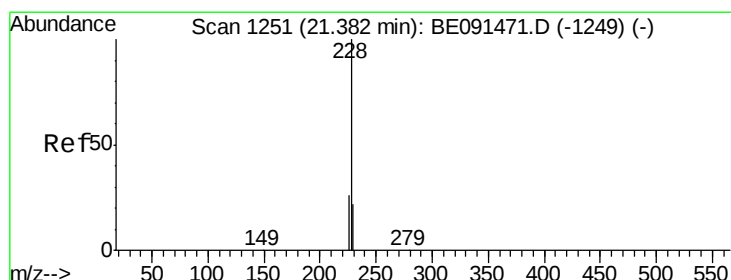
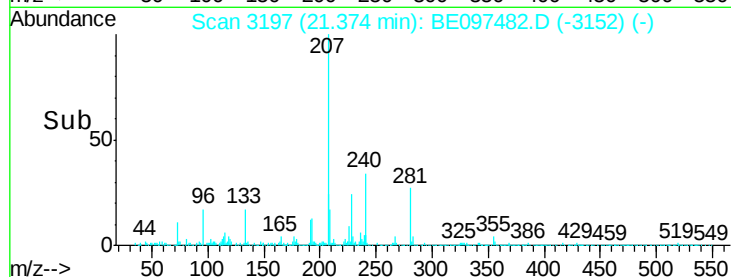
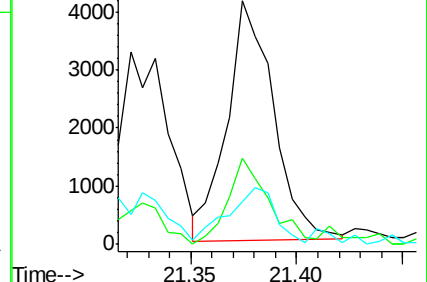
229 17.6 13.8 20.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#26

Chrysene

Concen: Below Cal

RT: 21.37 min Scan# 3197

Delta R.T. -0.01 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

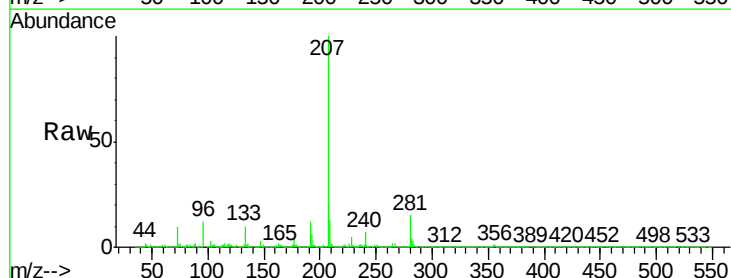
Tgt Ion:228 Resp: 6266

Ion Ratio Lower Upper

228 100

226 35.2 18.9 28.3#

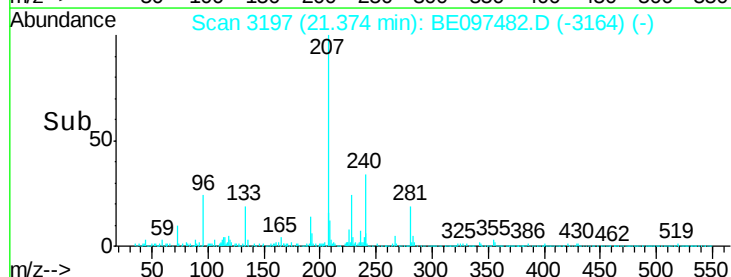
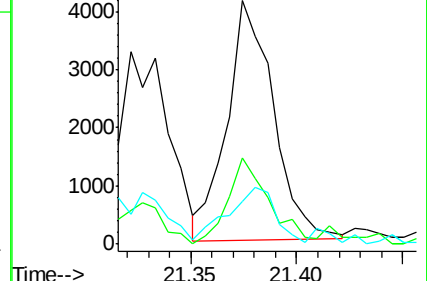
229 17.6 19.1 28.7#

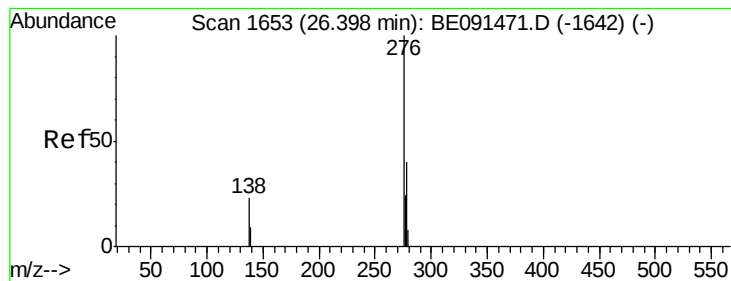


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.04 ng

RT: 26.40 min Scan# 4053

Delta R.T. 0.01 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

Instrument :

BNA_E

ClientSampleId :

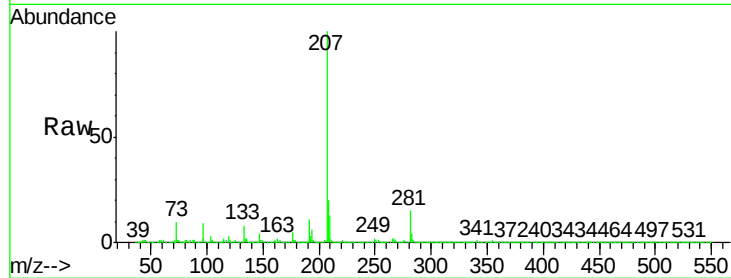
Tgt Ion: 276 Resp: 3922

Ion Ratio Lower Upper

276 100

138 12.0 20.2 30.4#

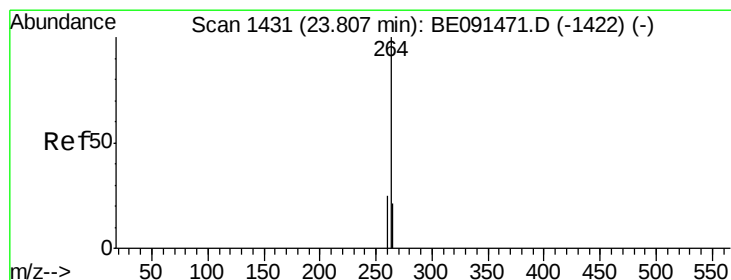
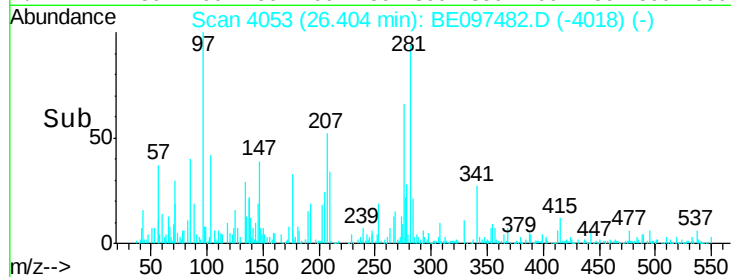
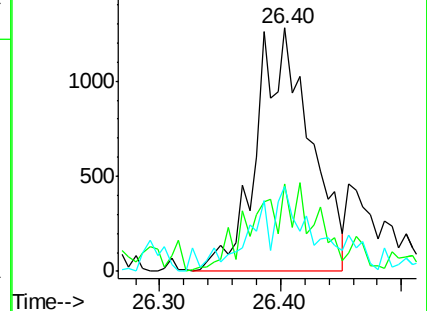
277 20.8 19.8 29.8



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# 3610

Delta R.T. -0.01 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

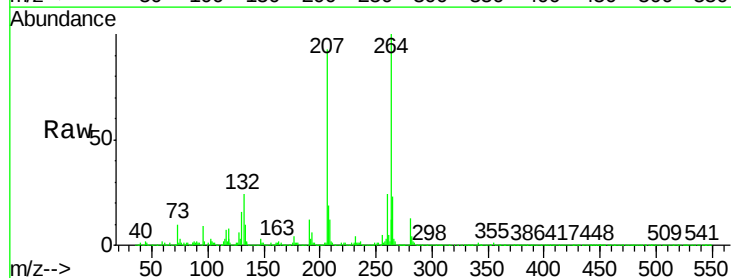
Tgt Ion: 264 Resp: 283431

Ion Ratio Lower Upper

264 100

260 23.8 20.1 30.1

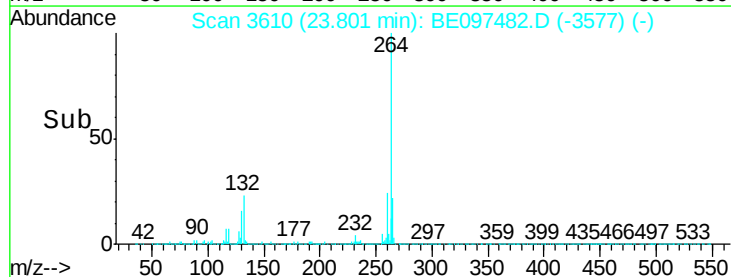
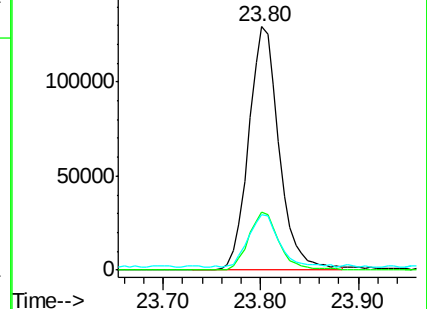
265 23.0 18.3 27.5

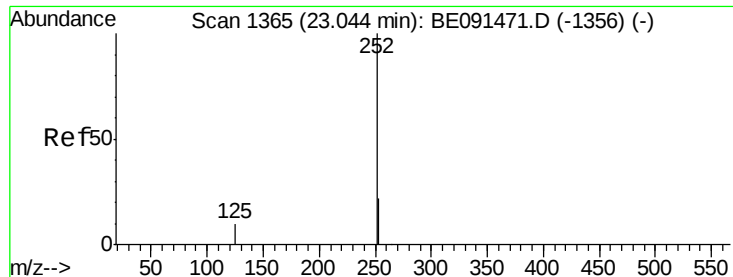


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#29

Benzo(b)fluoranthene

Concen: 0.06 ng

RT: 23.05 min Scan# 3483

Delta R.T. 0.01 min

Lab File: BE097482.D

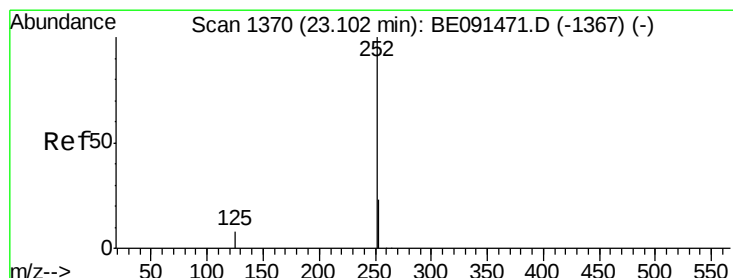
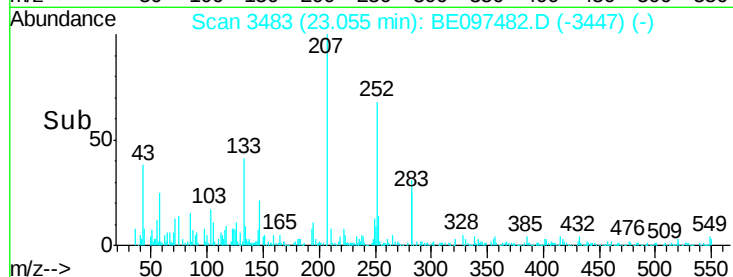
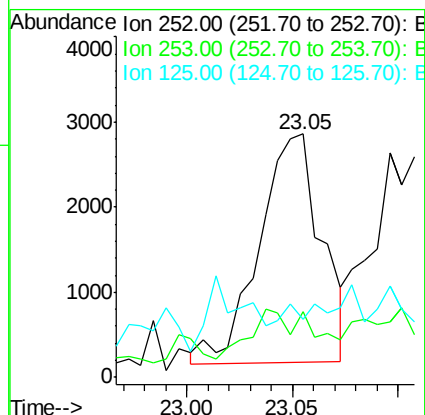
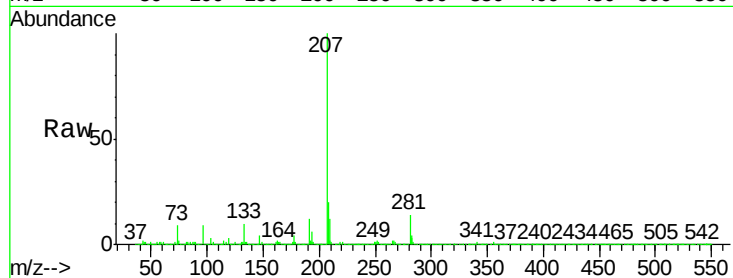
Acq: 18 Mar 2016 1:21

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	5474
Ion Ratio	Lower	Upper	
252	100		
253	27.1	18.7	28.1
125	23.7	9.8	14.6#



#30

Benzo(k)fluoranthene

Concen: 0.05 ng

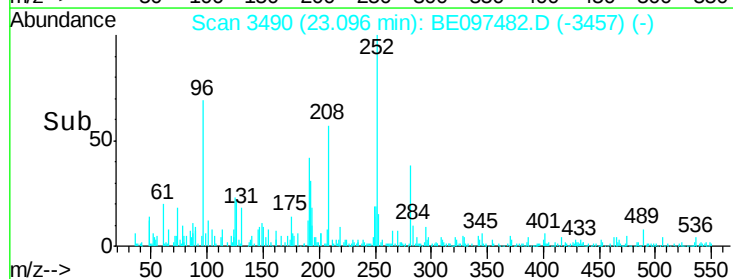
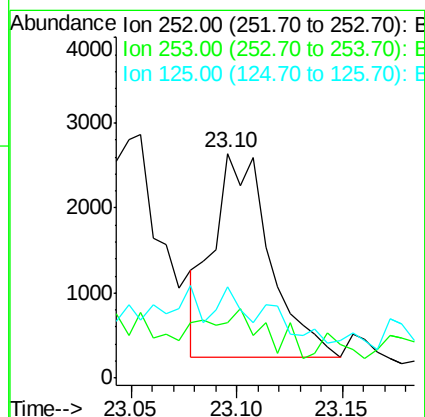
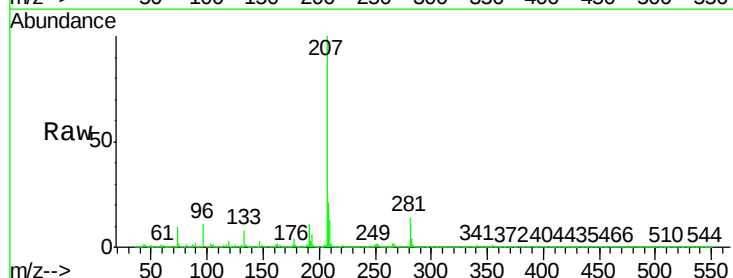
RT: 23.10 min Scan# 3490

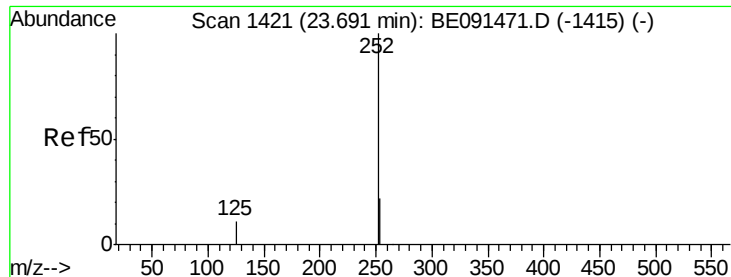
Delta R.T. -0.01 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

Tgt Ion:	252	Resp:	4438
Ion Ratio	Lower	Upper	
252	100		
253	24.7	20.2	30.4
125	40.6	9.4	14.2#





#31

Benzo(a)pyrene

Concen: 0.06 ng

RT: 23.70 min Scan# 3592

Delta R.T. 0.00 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

Instrument :

BNA_E

ClientSampled :

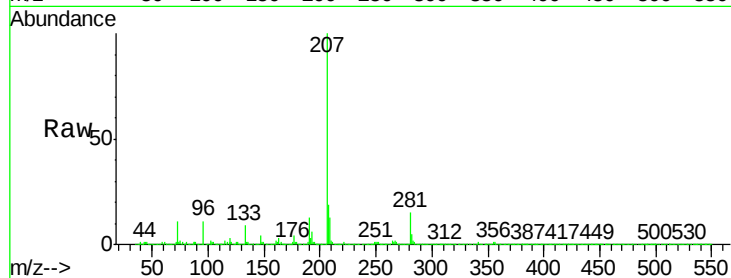
Tgt Ion:252 Resp: 4736

Ion Ratio Lower Upper

252 100

253 28.7 19.4 29.0

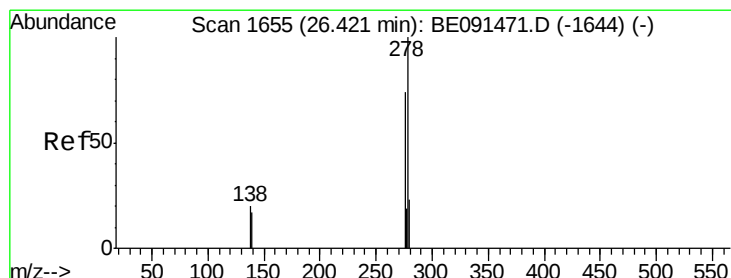
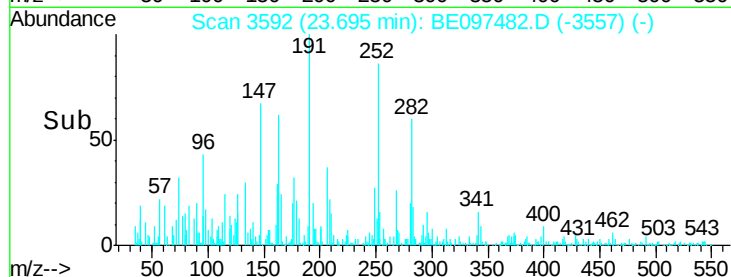
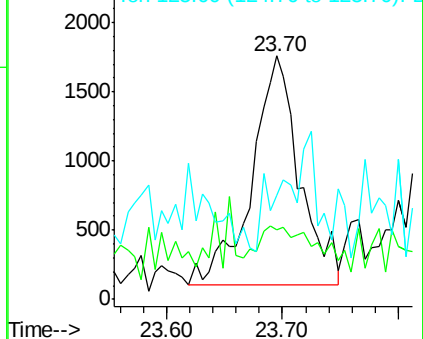
125 42.5 11.4 17.2#



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: 0.02 ng

RT: 26.43 min Scan# 4057

Delta R.T. 0.01 min

Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

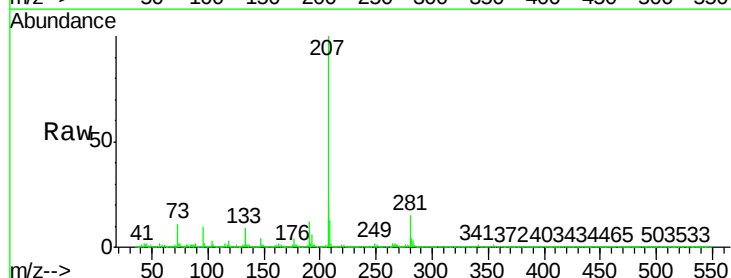
Tgt Ion:278 Resp: 1843

Ion Ratio Lower Upper

278 100

139 24.0 14.2 21.4#

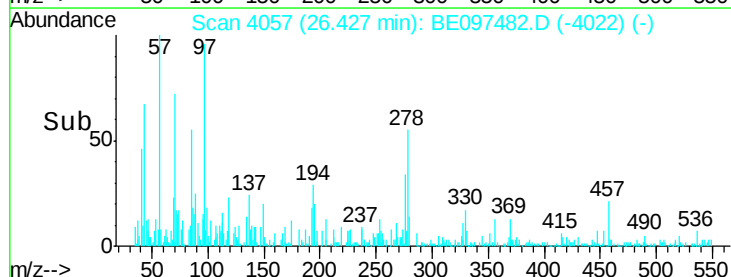
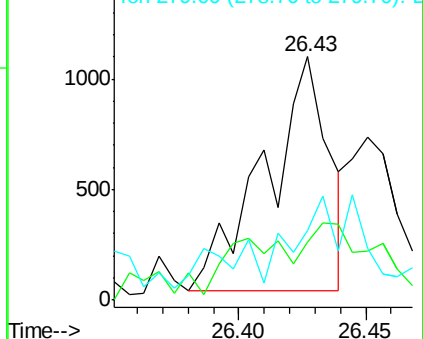
279 28.4 19.6 29.4

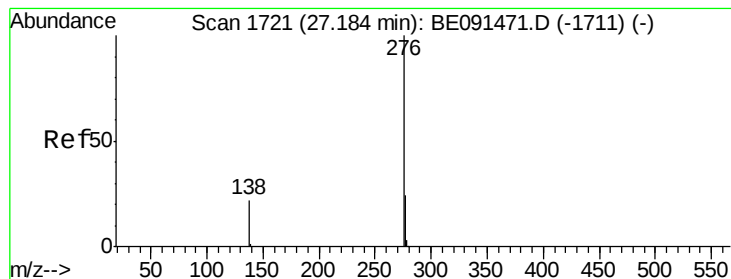


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.02 ng

RT: 27.19 min Scan# 4186

Delta R.T. 0.00 min

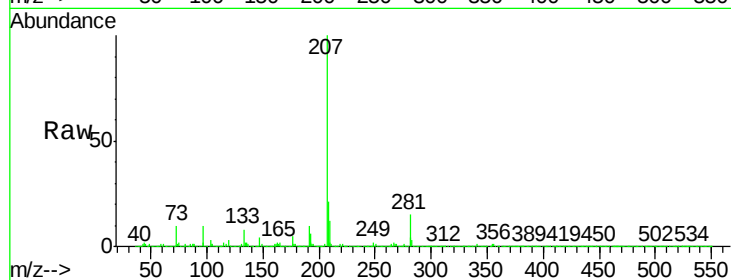
Lab File: BE097482.D

Acq: 18 Mar 2016 1:21

Instrument :

BNA_E

ClientSampleId :



Tgt Ion: 276 Resp: 1630

Ion Ratio Lower Upper

276 100

277 21.9 19.4 29.2

138 0.0 18.2 27.4#

