

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080317\
 Data File : BF097339.D
 Acq On : 4 Aug 2017 1:44
 Operator : SJ/JU
 Sample : I4562-01 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 JC-02-080117-A

Quant Time: Aug 04 02:21:38 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

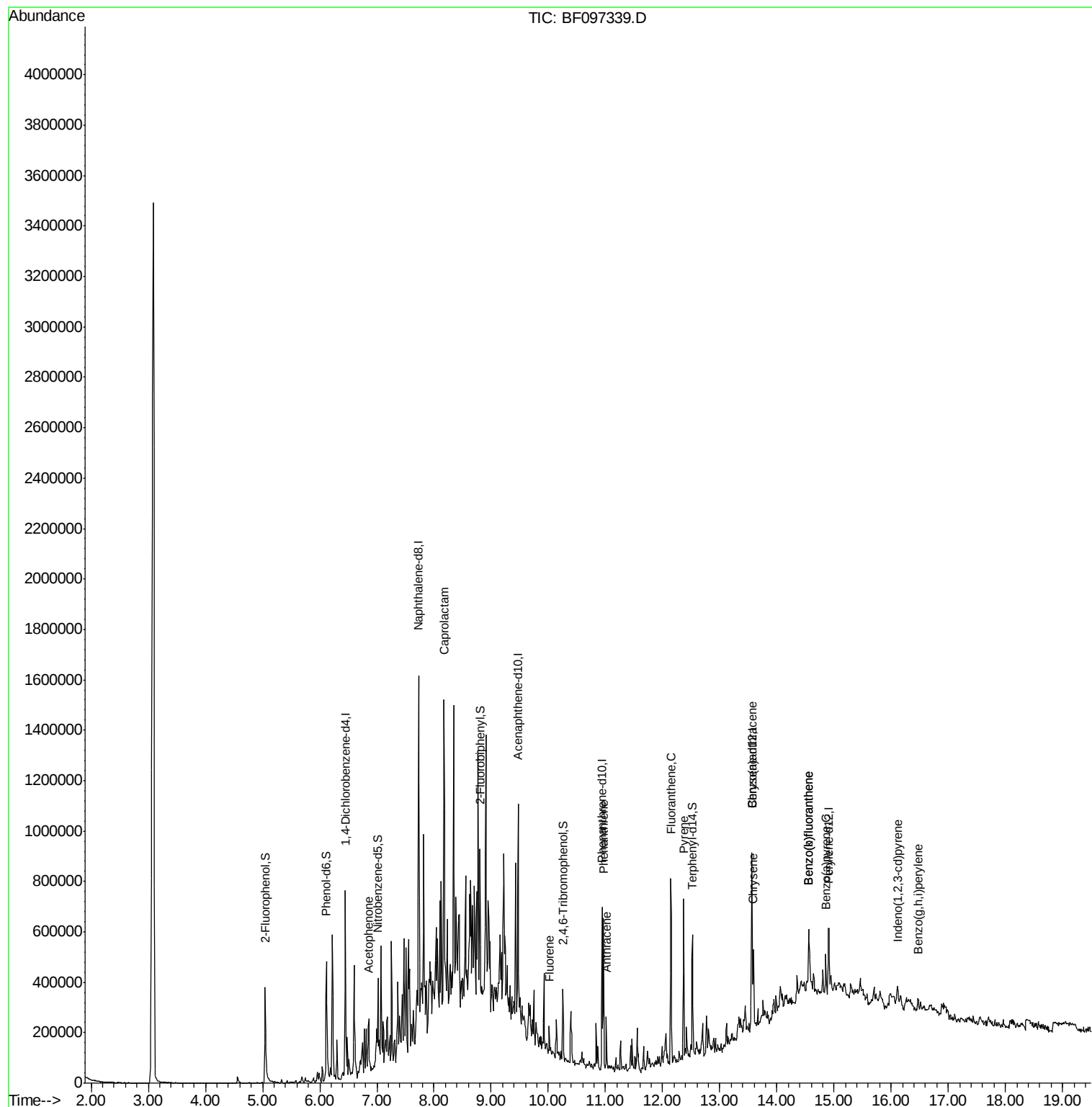
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.45	152	103490	20.00	ng	-0.05
21) Naphthalene-d8	7.73	136	367917	20.00	ng	-0.06
38) Acenaphthene-d10	9.47	164	142793	20.00	ng	-0.06
63) Phenanthrene-d10	10.94	188	219704	20.00	ng	-0.06
75) Chrysene-d12	13.56	240	178125	20.00	ng	-0.06
86) Perylene-d12	14.91	264	107763	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.04	112	159000	23.16	ng	-0.06
7) Phenol-d6	6.12	99	201192	25.67	ng	-0.05
23) Nitrobenzene-d5	7.02	82	91304	14.56	ng	-0.06
41) 2,4,6-Tribromophenol	10.26	330	23871	21.16	ng	-0.06
44) 2-Fluorobiphenyl	8.80	172	172140	20.46	ng	-0.06
78) Terphenyl-d14	12.52	244	131056	15.00	ng	-0.06
Target Compounds						
22) Acetophenone	6.85	105	30979	3.506	ng	Qvalue # 47
35) Caprolactam	8.17	113	17084	10.609	ng	# 1
57) Fluorene	10.02	166	31607	3.891	ng	93
70) Phenanthrene	10.96	178	219881	18.679	ng	98
71) Anthracene	11.02	178	71298	5.913	ng	98
74) Fluoranthene	12.14	202	287252	24.908	ng	97
77) Pyrene	12.37	202	260624	17.872	ng	99
80) Benzo(a)anthracene	13.56	228	119932	10.406	ng	98
82) Chrysene	13.59	228	116610	10.361	ng	95
85) Indeno(1,2,3-cd)pyrene	16.12	276	34930	3.620	ng	96
87) Benzo(b)fluoranthene	14.56	252	126261	19.491	ng	# 93
88) Benzo(k)fluoranthene	14.56	252	126261	20.454	ng	97
89) Benzo(a)pyrene	14.86	252	62726	10.580	ng	# 90
91) Benzo(a,h,i)perylene	16.47	276	33036	6.480	ng	# 95

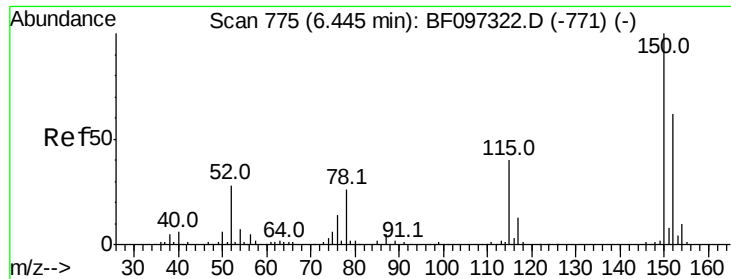
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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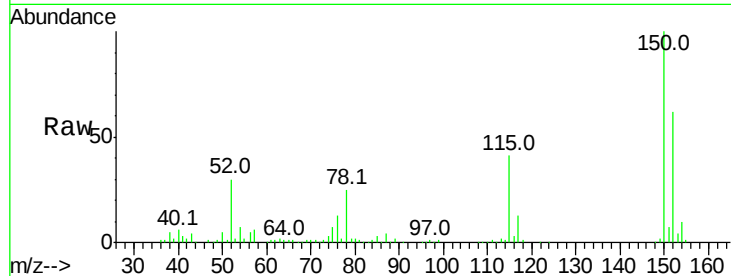


#1

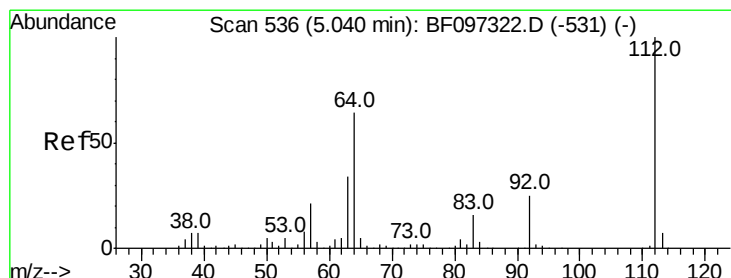
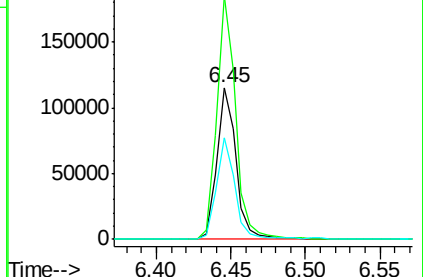
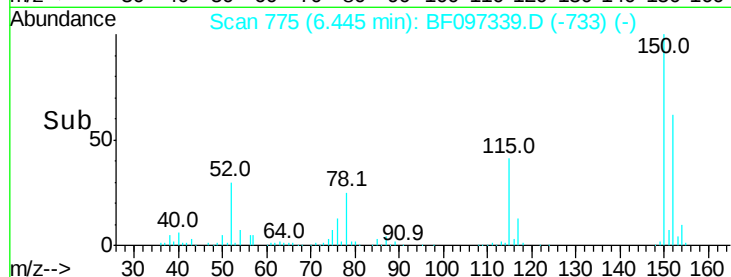
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.45 min Scan# 775
 Delta R.T. -0.05 min
 Lab File: BF097339.D
 Acq: 4 Aug 2017 1:44

Instrument :
 BNA_F
 ClientSampleId :
 JC-02-080117-A

Tot Ion:152 Resp: 103490
 Ion Ratio Lower Upper
 152 100
 150 160.4 126.2 189.2
 115 66.5 52.2 78.2



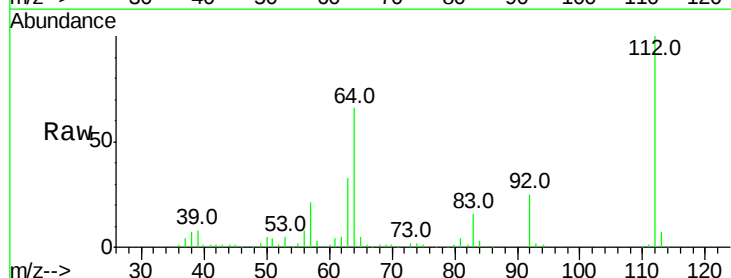
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



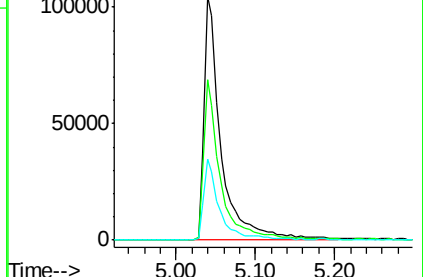
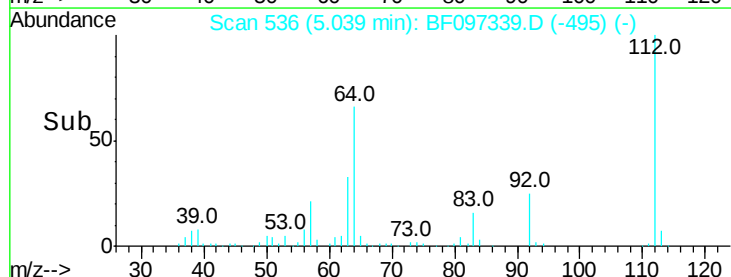
#5

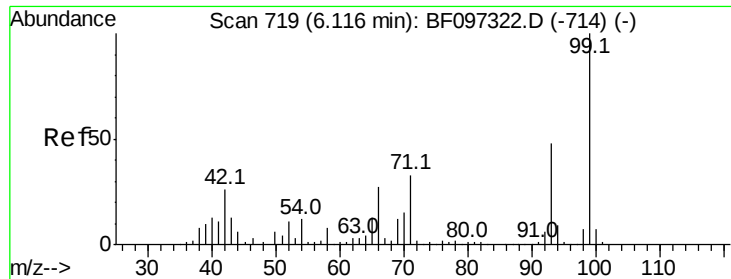
2-Fluorophenol
 Concen: 23.161 ng
 RT: 5.04 min Scan# 536
 Delta R.T. -0.06 min
 Lab File: BF097339.D
 Acq: 4 Aug 2017 1:44

Tgt Ion:112 Resp: 159000
 Ion Ratio Lower Upper
 112 100
 64 66.1 46.0 69.0
 63 33.1 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 25.671 ng

RT: 6.12 min Scan# 719

Delta R.T. -0.05 min

Lab File: BF097339.D

Acq: 4 Aug 2017 1:44

Instrument :

BNA_F

ClientSampleId :

JC-02-080117-A

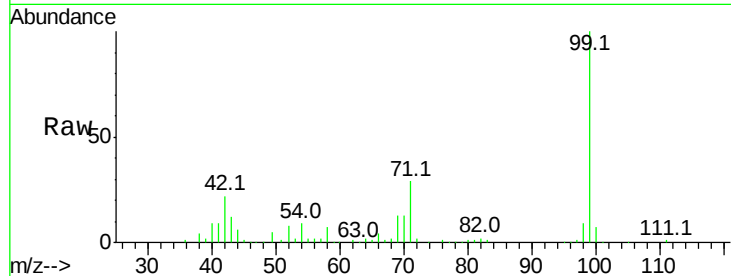
Tot Ion: 99 Resp: 201192

Ion Ratio Lower Upper

99 100

42 21.9 13.5 20.3#

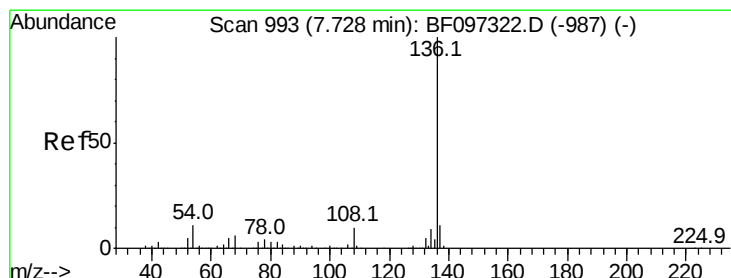
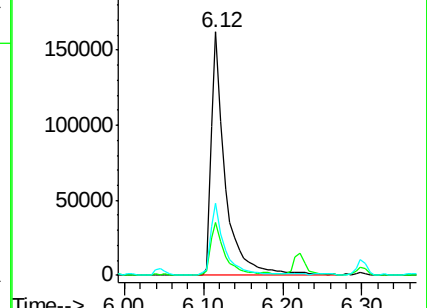
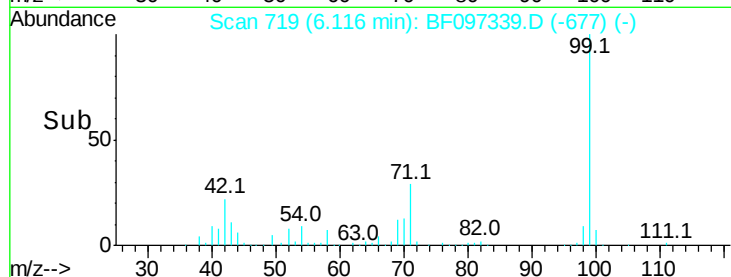
71 29.5 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.73 min Scan# 993

Delta R.T. -0.06 min

Lab File: BF097339.D

Acq: 4 Aug 2017 1:44

Tgt Ion: 136 Resp: 367917

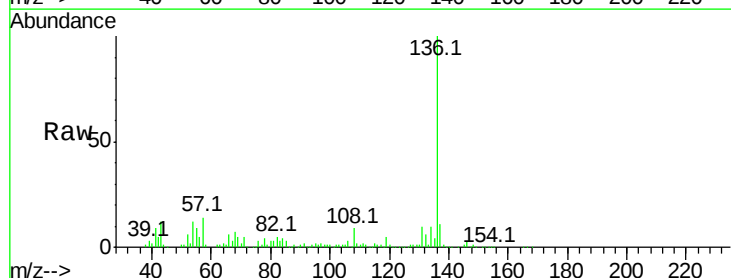
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 11.8 4.9 7.3#

68 6.6 4.1 6.1#

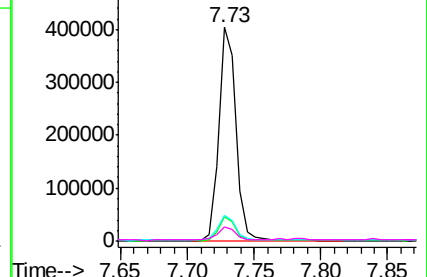
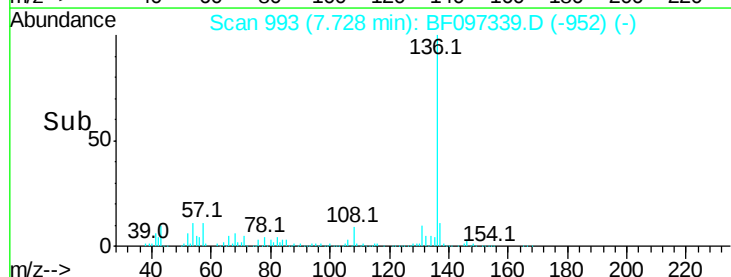


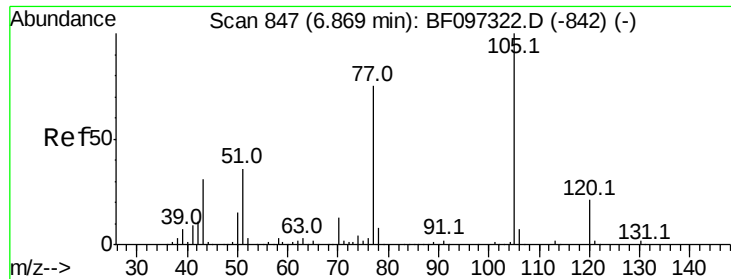
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#22

Acetophenone

Concen: 3.506 ng

RT: 6.85 min Scan# 844

Delta R.T. -0.07 min

Lab File: BF097339.D

Acq: 4 Aug 2017 1:44

Instrument :

BNA_F

ClientSampleId :

JC-02-080117-A

Tot Ion:105 Resp: 30979

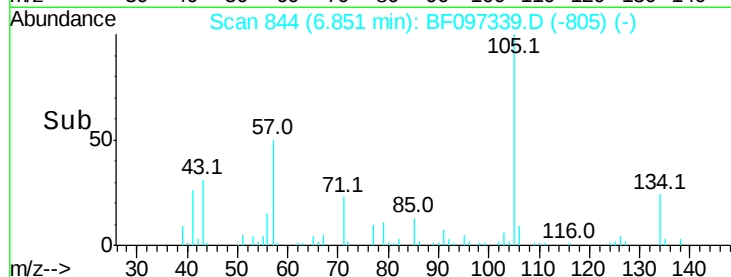
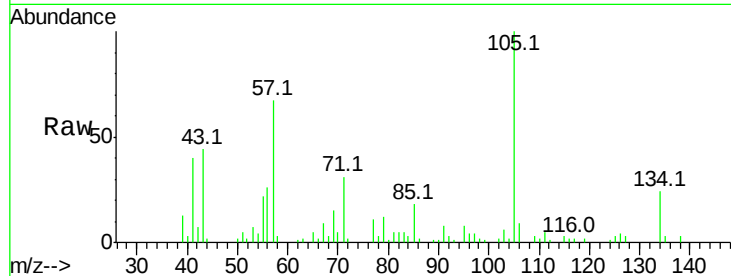
Ion Ratio Lower Upper

105 100

71 30.5 2.8 4.2#

51 5.1 30.7 46.1#

120 0.0 17.4 26.0#

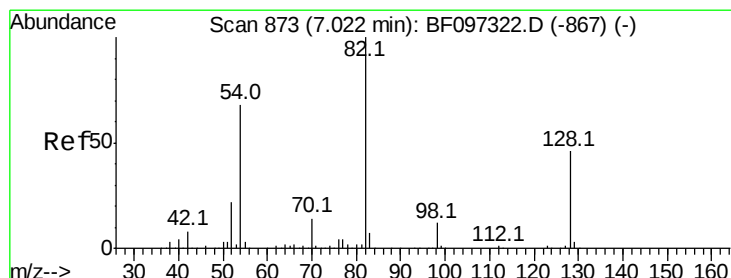
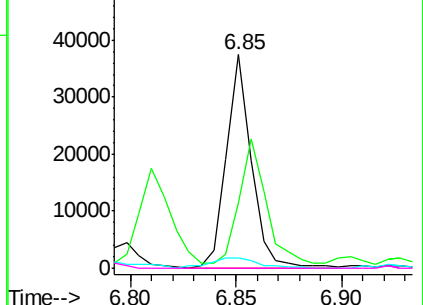


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E



#23

Nitrobenzene-d5

Concen: 14.558 ng

RT: 7.02 min Scan# 872

Delta R.T. -0.06 min

Lab File: BF097339.D

Acq: 4 Aug 2017 1:44

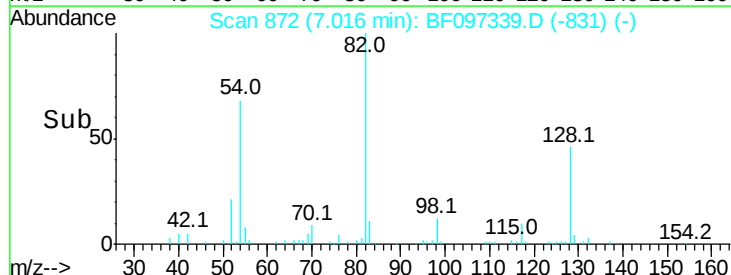
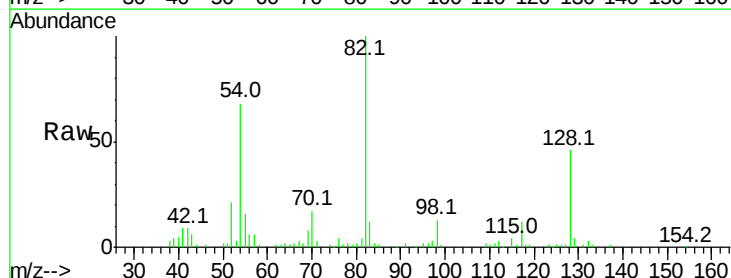
Tgt Ion: 82 Resp: 91304

Ion Ratio Lower Upper

82 100

128 46.0 34.0 51.0

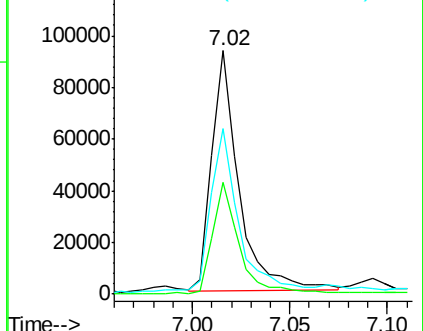
54 68.2 42.2 63.2#

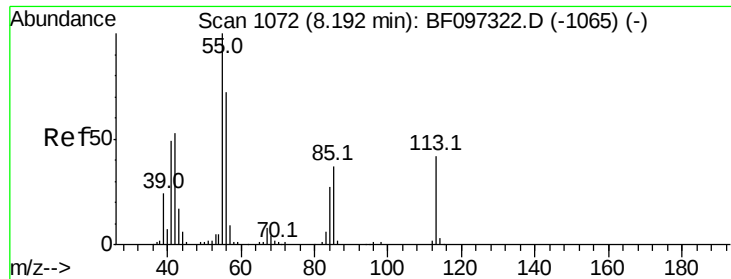


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#35

Caprolactam

Concen: 10.609 ng

RT: 8.17 min Scan# 1069

Delta R.T. -0.08 min

Lab File: BF097339.D

Acq: 4 Aug 2017 1:44

Instrument :

BNA_F

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JC-02-080117-A

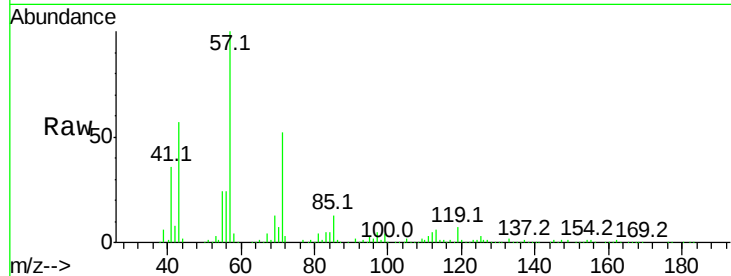
Tot Ion:113 Resp: 17084

Ion Ratio Lower Upper

113 100

55 410.7 150.2 190.2#

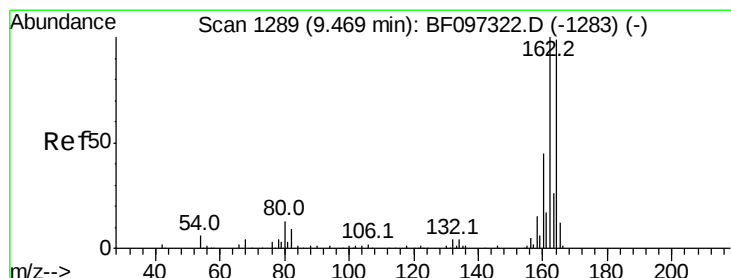
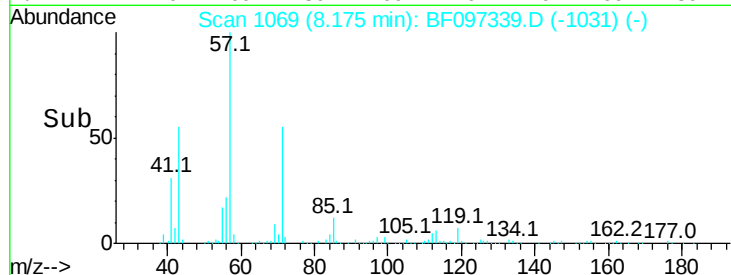
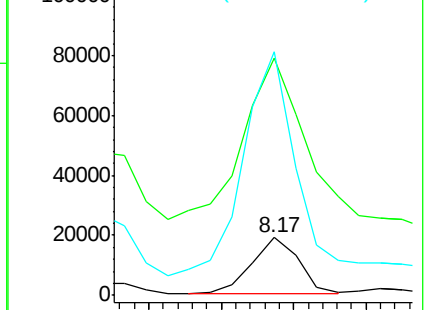
56 421.1 107.8 147.8#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.47 min Scan# 1289

Delta R.T. -0.06 min

Lab File: BF097339.D

Acq: 4 Aug 2017 1:44

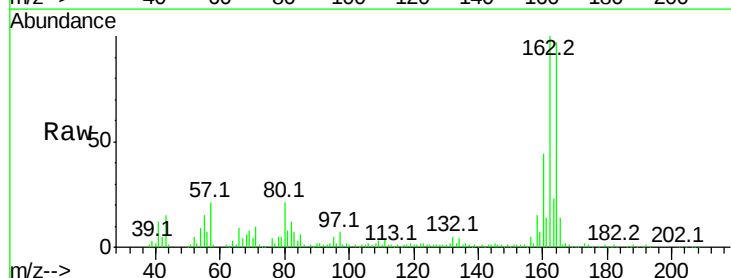
Tgt Ion:164 Resp: 142793

Ion Ratio Lower Upper

164 100

162 103.4 82.6 123.8

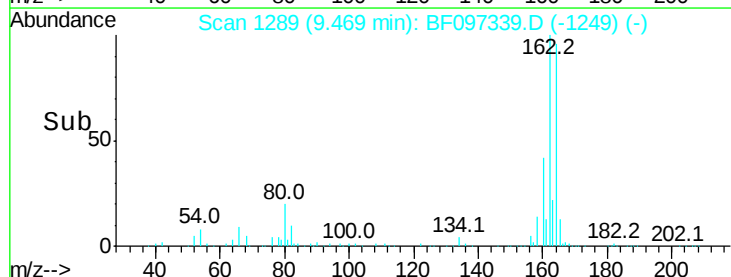
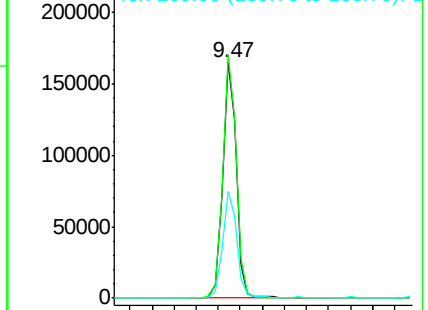
160 45.1 36.2 54.2

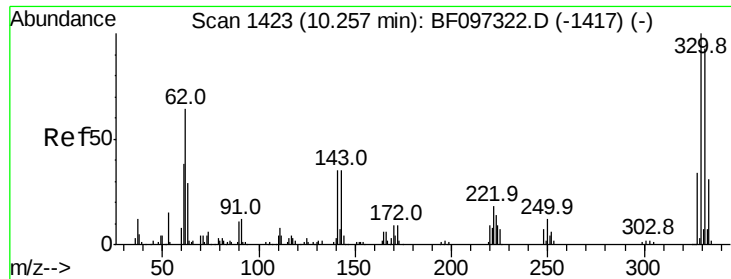


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

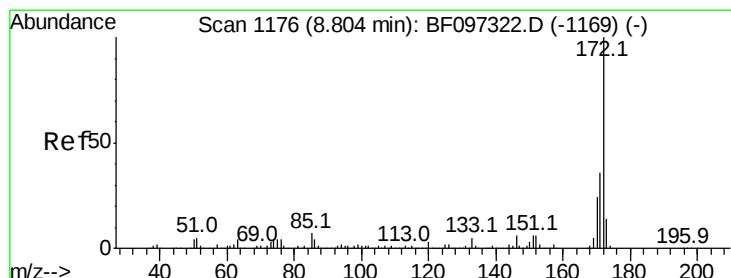
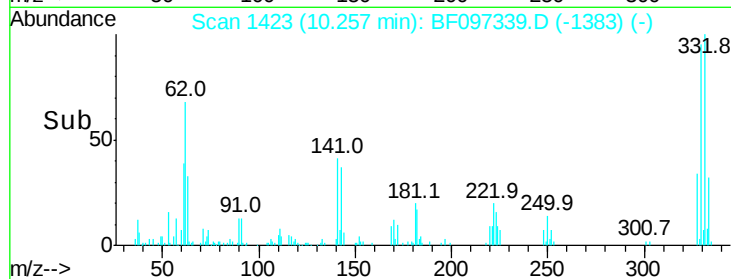
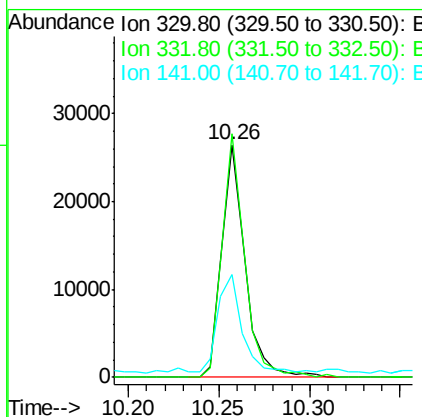
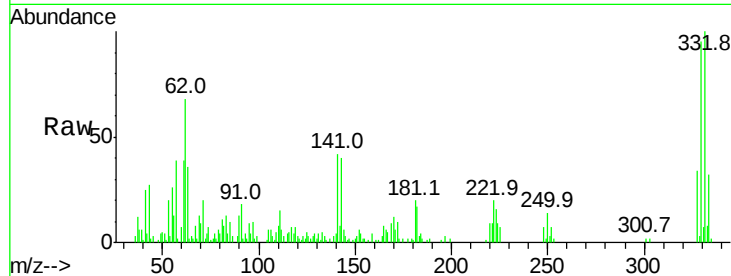




#41
 2,4,6-Tribromophenol
 Concen: 21.158 ng
 RT: 10.26 min Scan# 1423
 Delta R.T. -0.06 min
 Lab File: BF097339.D
 Acq: 4 Aug 2017 1:44

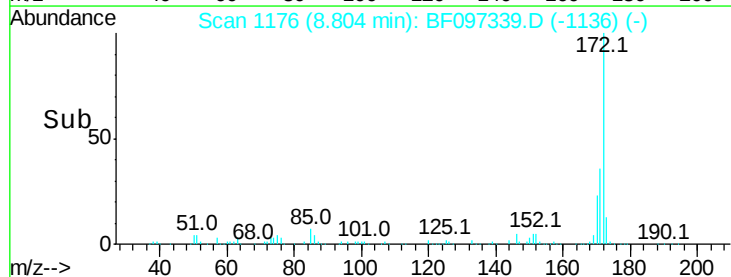
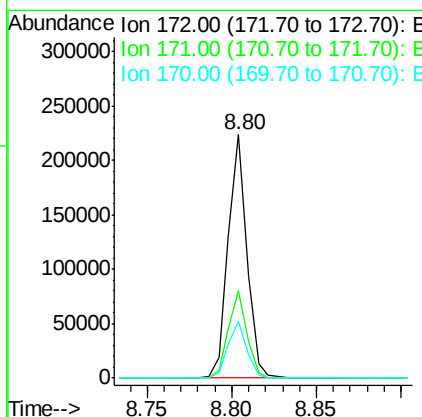
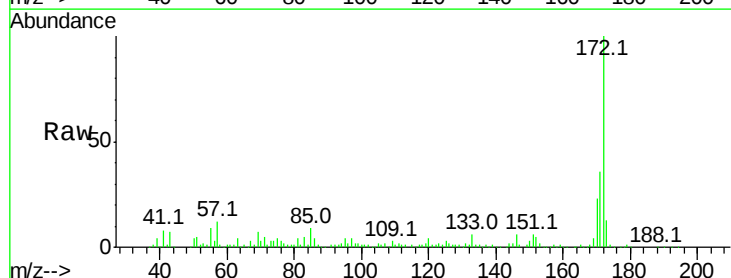
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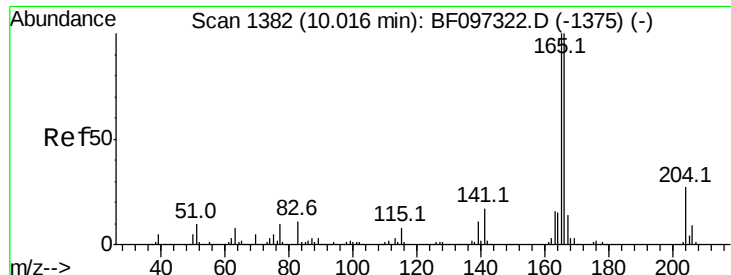
Tot Ion:330 Resp: 23871
 Ion Ratio Lower Upper
 330 100
 332 100.5 76.6 115.0
 141 43.9 31.4 47.2



#44
 2-Fluorobiphenyl
 Concen: 20.459 ng
 RT: 8.80 min Scan# 1176
 Delta R.T. -0.06 min
 Lab File: BF097339.D
 Acq: 4 Aug 2017 1:44

Tgt Ion:172 Resp: 172140
 Ion Ratio Lower Upper
 172 100
 171 35.8 29.6 44.4
 170 23.3 19.8 29.8

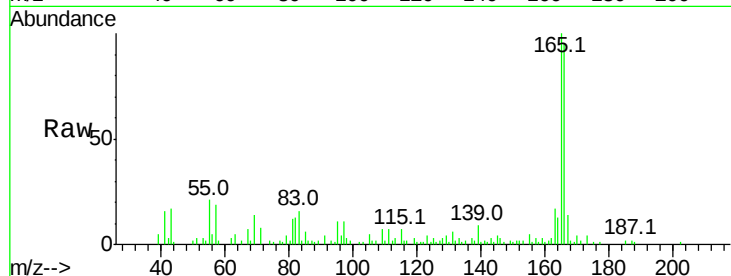




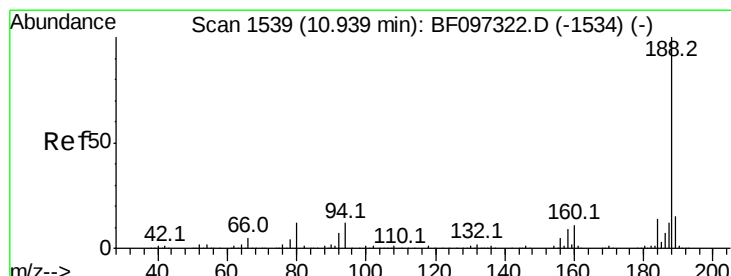
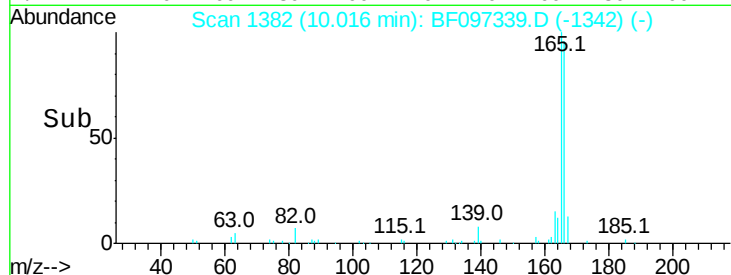
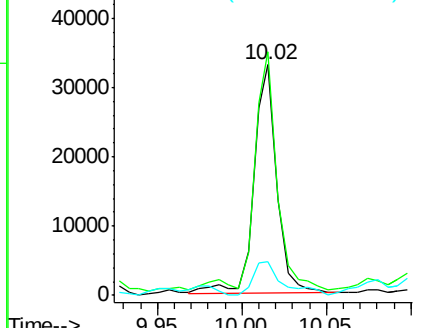
#57
Fluorene
 Concen: 3.891 ng
 RT: 10.02 min Scan# 1382
 Delta R.T. -0.06 min
 Lab File: BF097339.D
 Acq: 4 Aug 2017 1:44

Instrument :
 BNA_F
 ClientSampleId :
 JC-02-080117-A

Tot Ion:166 Resp: 31607
 Ion Ratio Lower Upper
 166 100
 165 105.7 78.8 118.2
 167 14.7 10.6 16.0

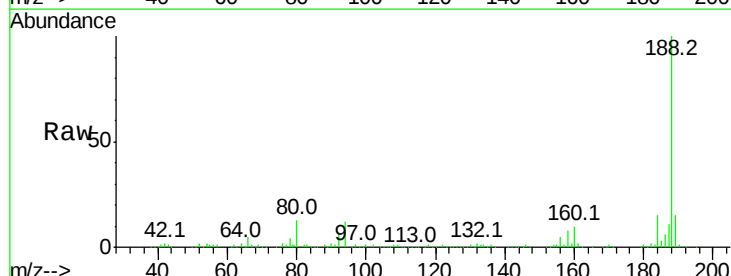


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

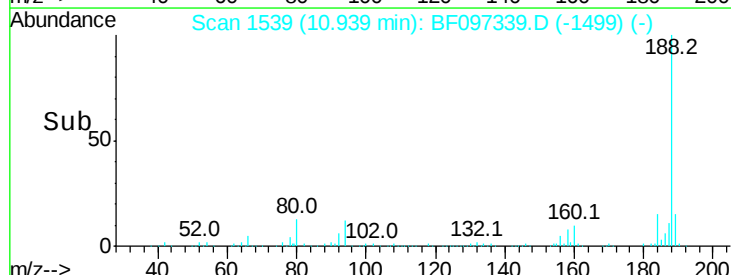
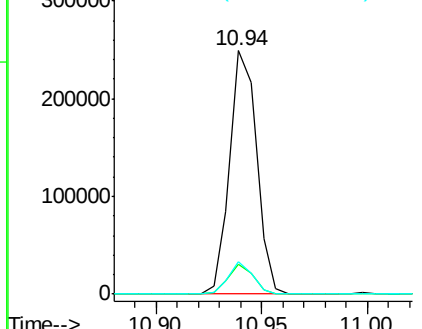


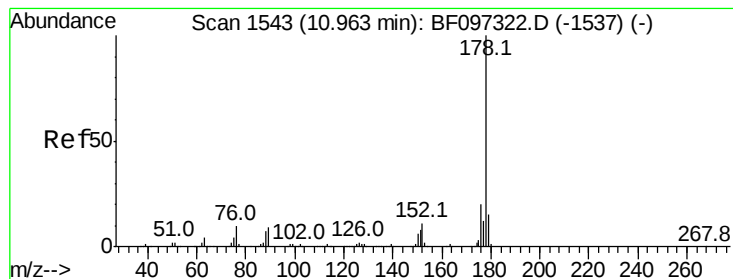
#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 10.94 min Scan# 1539
 Delta R.T. -0.06 min
 Lab File: BF097339.D
 Acq: 4 Aug 2017 1:44

Tgt Ion:188 Resp: 219704
 Ion Ratio Lower Upper
 188 100
 94 12.4 9.4 14.2
 80 13.1 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 18.679 ng

RT: 10.96 min Scan# 1543

Delta R.T. -0.06 min

Lab File: BF097339.D

Acq: 4 Aug 2017 1:44

Instrument :

BNA_F

ClientSampleId :

JC-02-080117-A

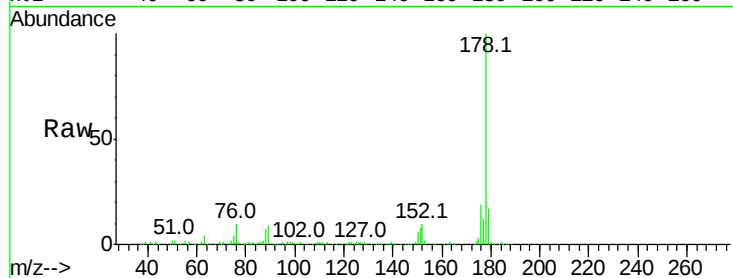
Tot Ion:178 Resp: 219881

Ion Ratio Lower Upper

178 100

176 19.0 16.2 24.4

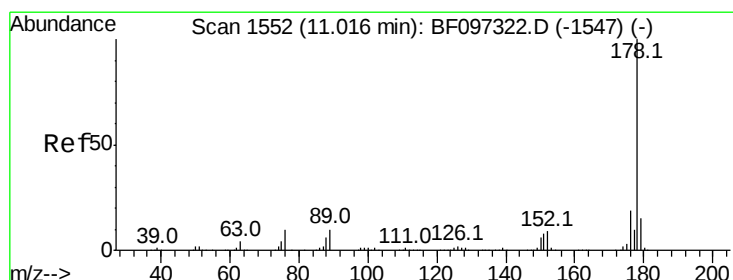
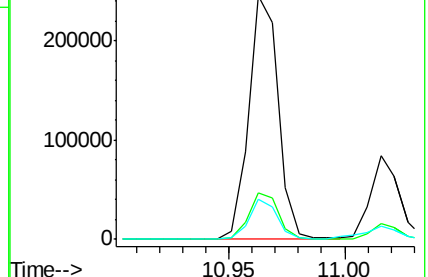
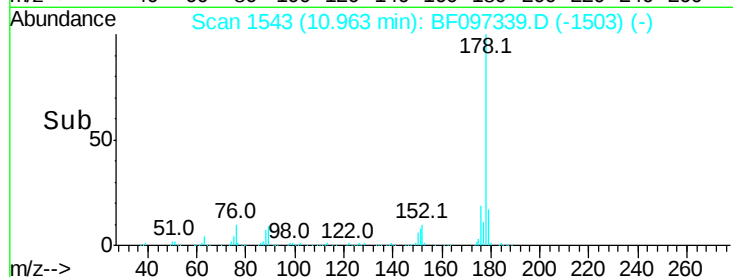
179 16.6 12.6 19.0



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



#71

Anthracene

Concen: 5.913 ng

RT: 11.02 min Scan# 1552

Delta R.T. -0.06 min

Lab File: BF097339.D

Acq: 4 Aug 2017 1:44

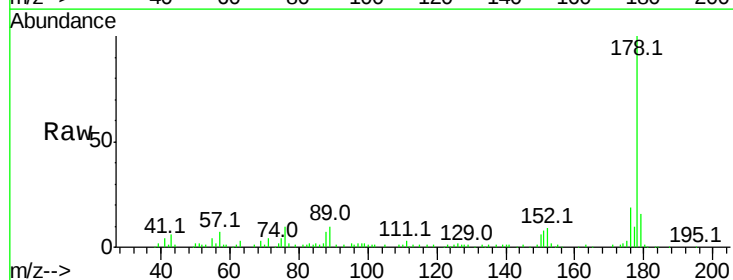
Tgt Ion:178 Resp: 71298

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.8

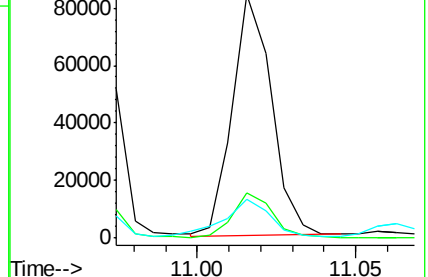
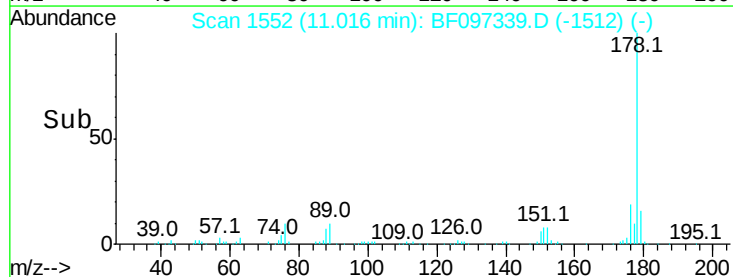
179 16.1 12.7 19.1

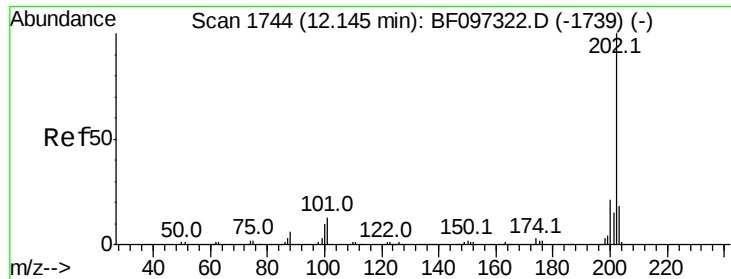


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

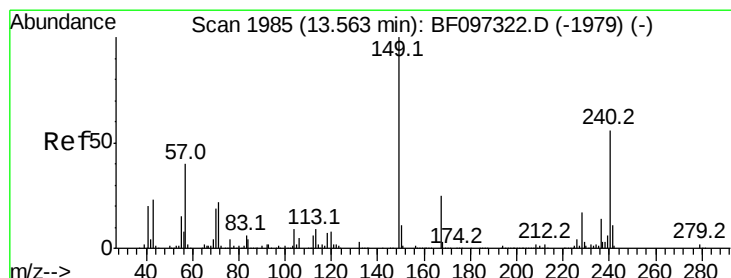
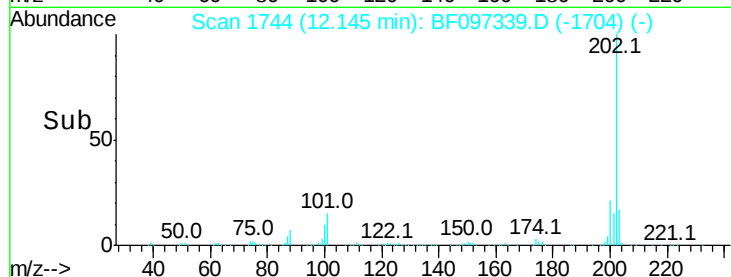
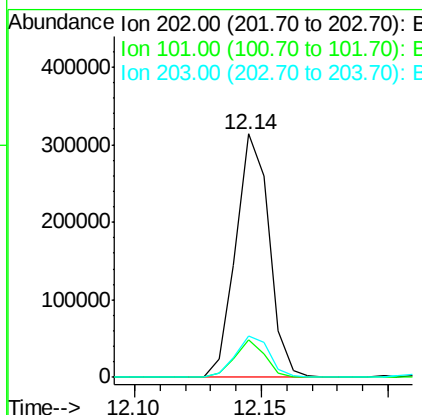
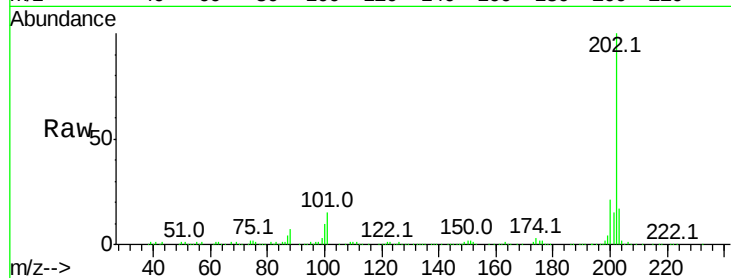




#74
 Fluoranthene
 Concen: 24.908 ng
 RT: 12.14 min Scan# 1744
 Delta R.T. -0.06 min
 Lab File: BF097339.D
 Acq: 4 Aug 2017 1:44

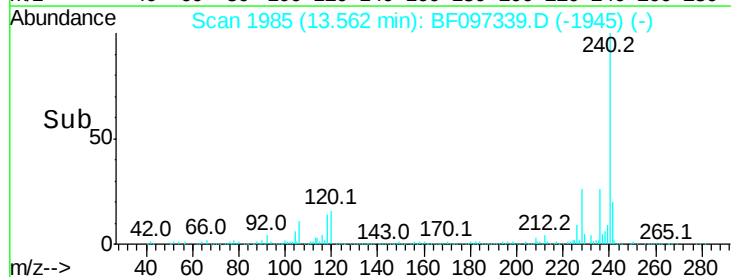
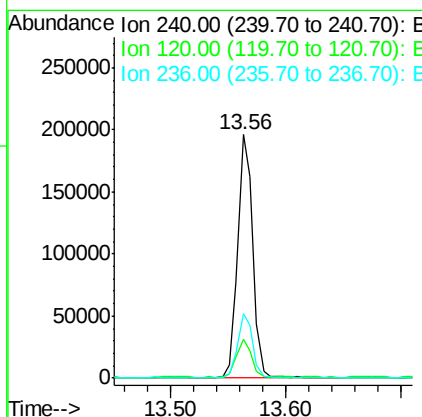
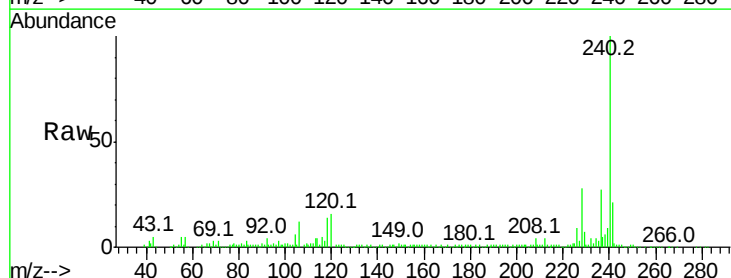
Instrument :
 BNA_F
 ClientSampleId :
 JC-02-080117-A

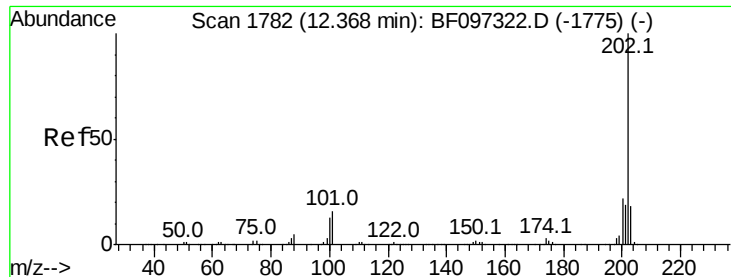
Tot Ion	Ratio	Lower	Upper
202	100		
101	15.2	0.0	33.2
203	17.3	0.0	38.1



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.56 min Scan# 1985
 Delta R.T. -0.06 min
 Lab File: BF097339.D
 Acq: 4 Aug 2017 1:44

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.1	5.8	8.8#
236	26.6	20.5	30.7





#77

Pvrene

Concen: 17.872 ng

RT: 12.37 min Scan# 1782

Delta R.T. -0.06 min

Lab File: BF097339.D

Acq: 4 Aug 2017 1:44

Instrument :

BNA_F

ClientSampleId :

JC-02-080117-A

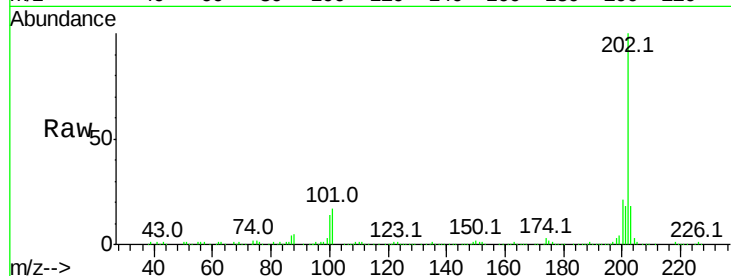
Tot Ion:202 Resp: 260624

Ion Ratio Lower Upper

202 100

200 21.3 17.6 26.4

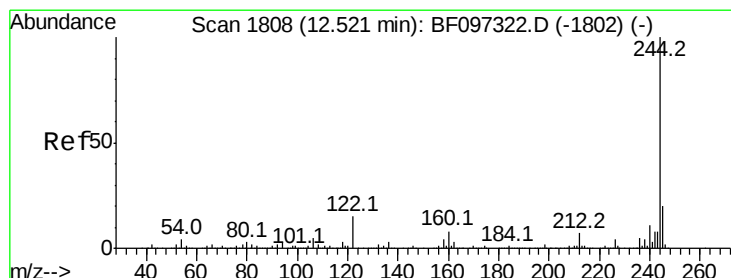
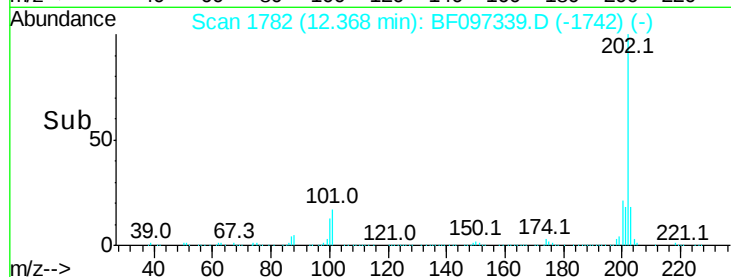
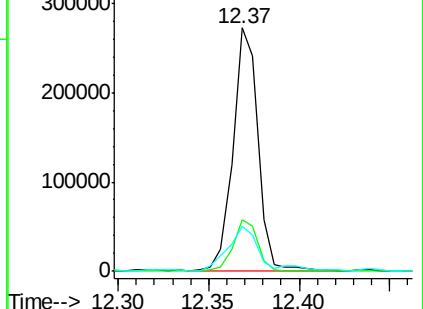
203 18.4 14.4 21.6



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



#78

Terphenyl-d14

Concen: 15.001 ng

RT: 12.52 min Scan# 1808

Delta R.T. -0.06 min

Lab File: BF097339.D

Acq: 4 Aug 2017 1:44

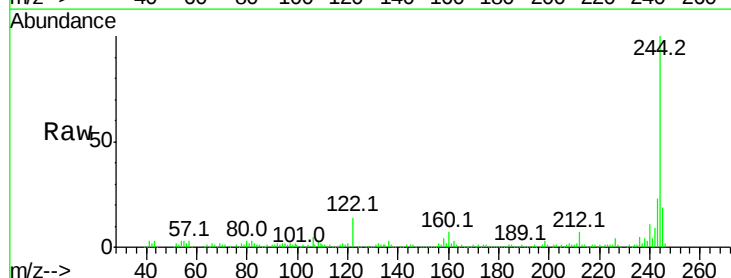
Tgt Ion:244 Resp: 131056

Ion Ratio Lower Upper

244 100

212 6.5 6.0 9.0

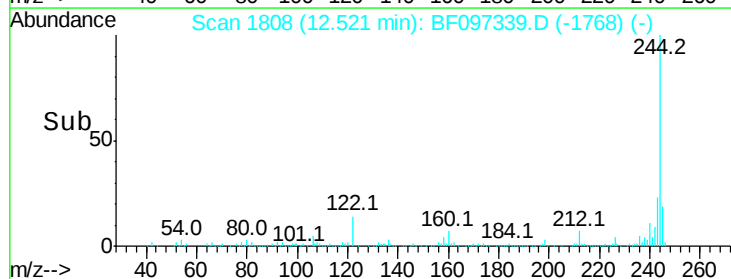
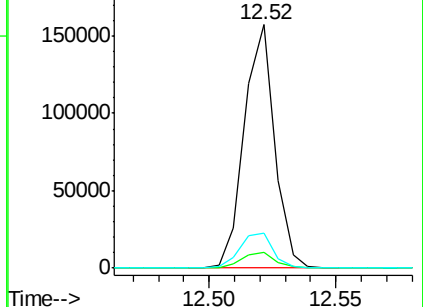
122 14.2 10.3 15.5

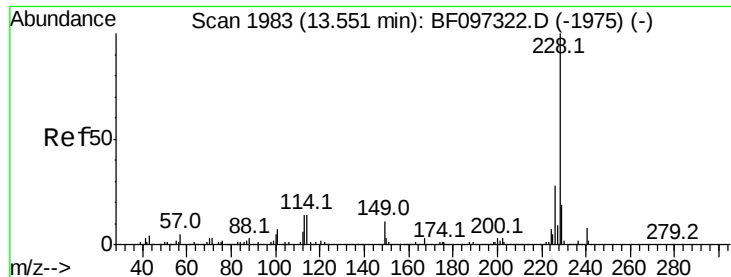


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 10.406 ng

RT: 13.56 min Scan# 1984

Delta R.T. -0.06 min

Lab File: BF097339.D

Acq: 4 Aug 2017 1:44

Instrument :

BNA_F

ClientSampleId :

JC-02-080117-A

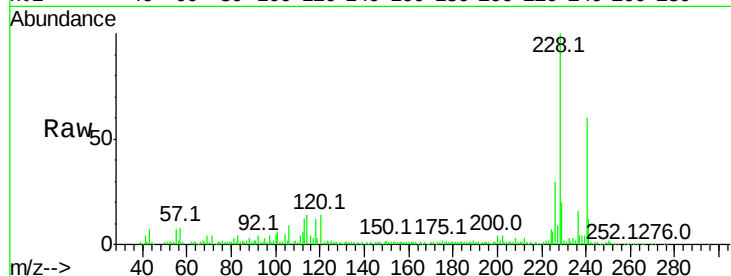
Tot Ion:228 Resp: 119932

Ion Ratio Lower Upper

228 100

226 29.7 22.6 33.8

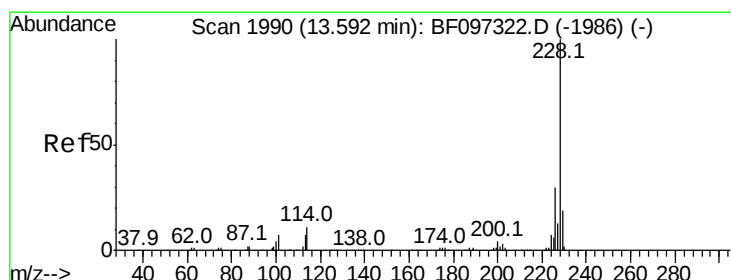
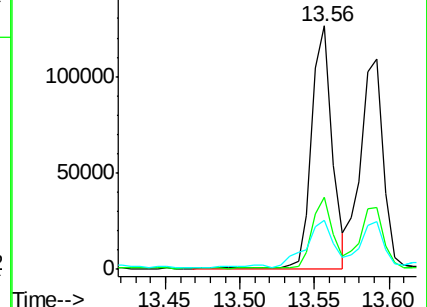
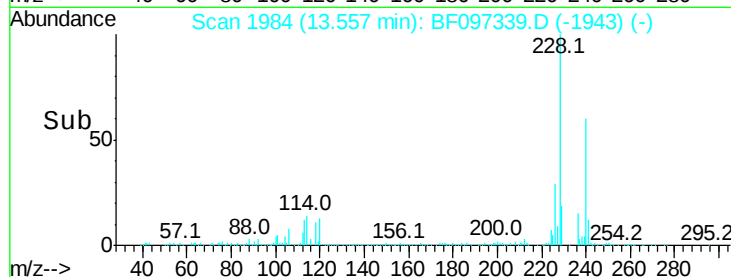
229 20.2 16.3 24.5



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



#82

Chrysene

Concen: 10.361 ng

RT: 13.59 min Scan# 1990

Delta R.T. -0.06 min

Lab File: BF097339.D

Acq: 4 Aug 2017 1:44

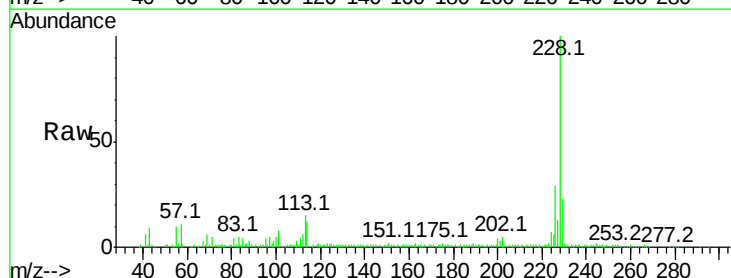
Tgt Ion:228 Resp: 116610

Ion Ratio Lower Upper

228 100

226 29.5 24.9 37.3

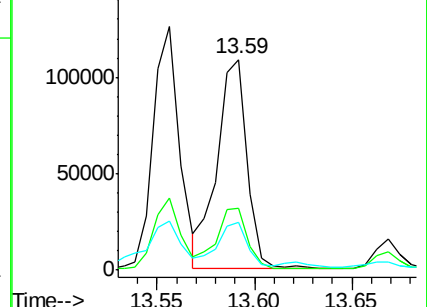
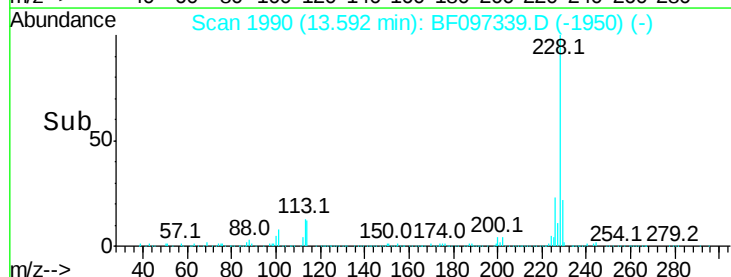
229 22.9 15.8 23.6

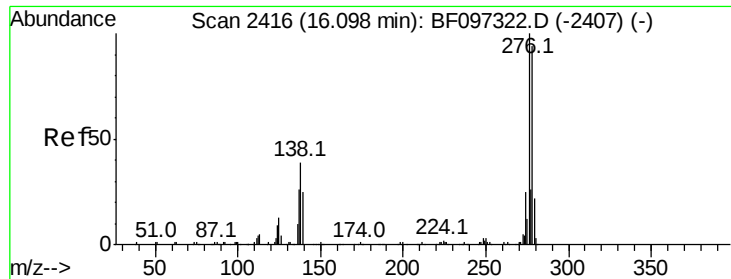


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

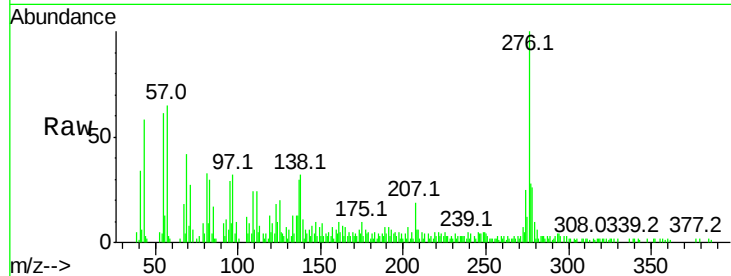




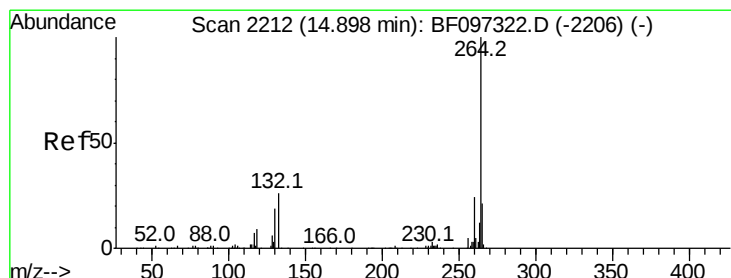
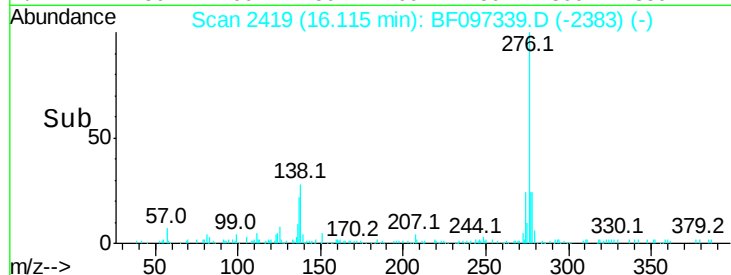
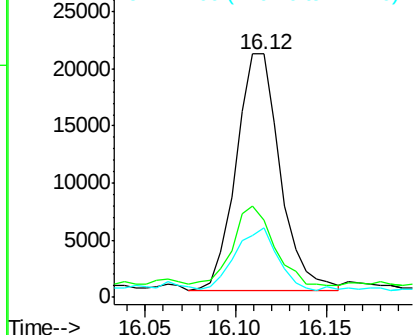
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.620 ng
 RT: 16.12 min Scan# 2419
 Delta R.T. -0.09 min
 Lab File: BF097339.D
 Acq: 4 Aug 2017 1:44

Instrument :
 BNA_F
 ClientSampleId :
 JC-02-080117-A

Tot Ion:276 Resp: 34930
 Ion Ratio Lower Upper
 276 100
 138 31.7 27.8 41.6
 277 26.1 20.2 30.4

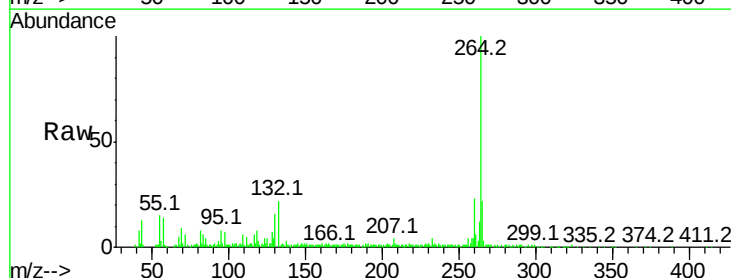


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

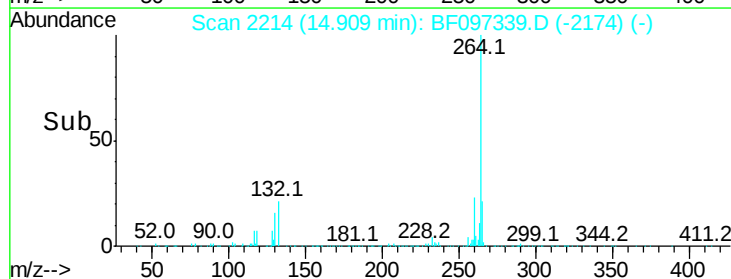
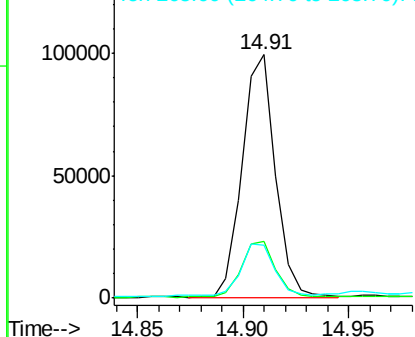


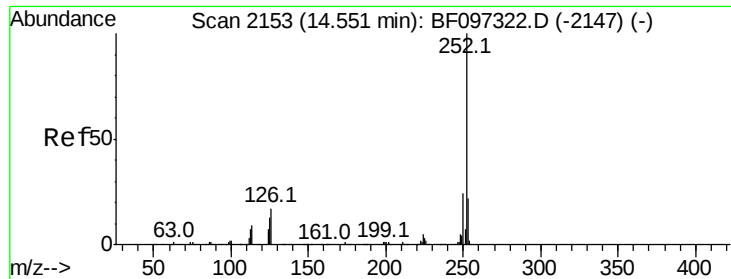
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 14.91 min Scan# 2214
 Delta R.T. -0.06 min
 Lab File: BF097339.D
 Acq: 4 Aug 2017 1:44

Tgt Ion:264 Resp: 107763
 Ion Ratio Lower Upper
 264 100
 260 23.2 19.5 29.3
 265 21.8 17.2 25.8



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

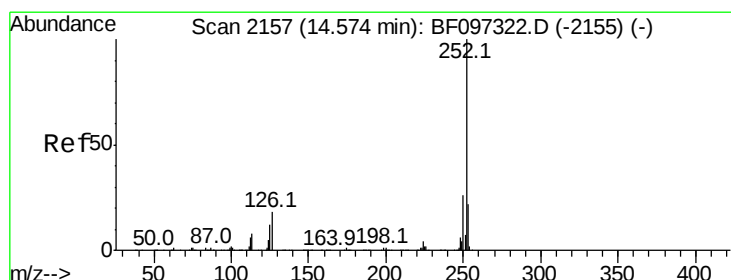
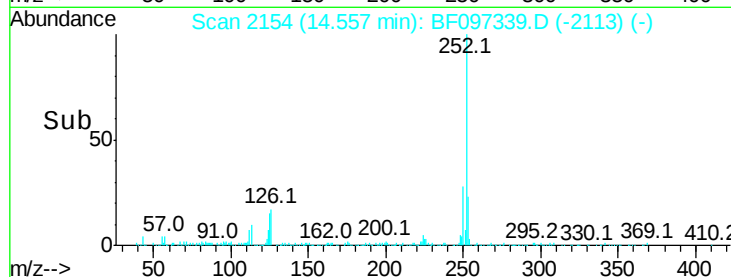
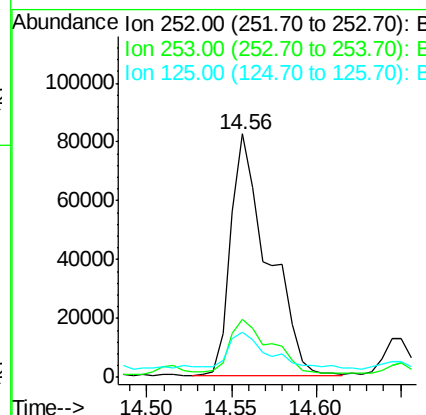
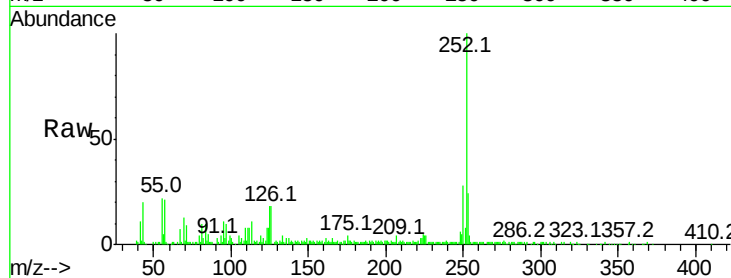




#87
Benzo(b)fluoranthene
Concen: 19.491 ng
RT: 14.56 min Scan# 2154
Delta R.T. -0.06 min
Lab File: BF097339.D
Acq: 4 Aug 2017 1:44

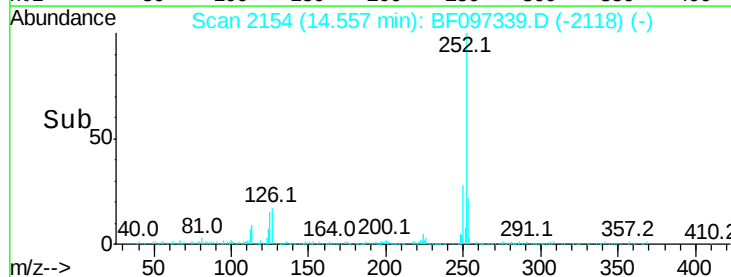
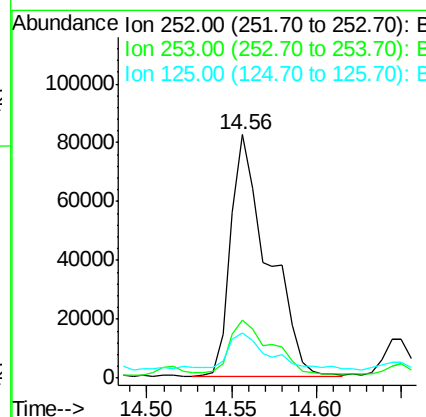
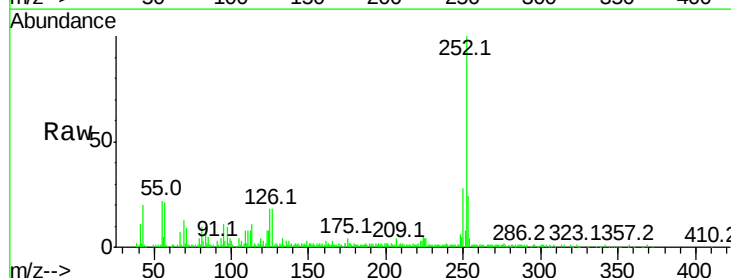
Instrument :
BNA_F
ClientSampleId :
JC-02-080117-A

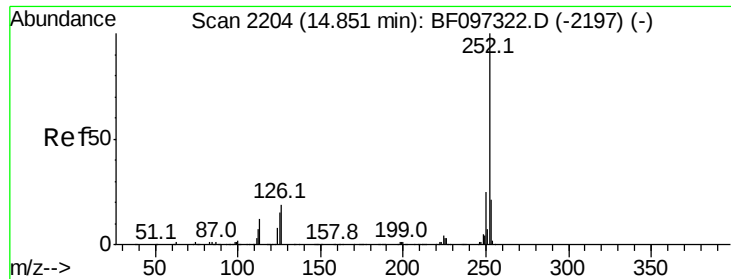
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.1	27.1
125	18.5	9.8	14.8



#88
Benzo(k)fluoranthene
Concen: 20.454 ng
RT: 14.56 min Scan# 2154
Delta R.T. -0.09 min
Lab File: BF097339.D
Acq: 4 Aug 2017 1:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.4	27.6
125	18.5	13.1	19.7





#89

Benzo(a)pyrene

Concen: 10.580 ng

RT: 14.86 min Scan# 2205

Delta R.T. -0.06 min

Lab File: BF097339.D

Acq: 4 Aug 2017 1:44

Instrument :

BNA_F

ClientSampleId :

JC-02-080117-A

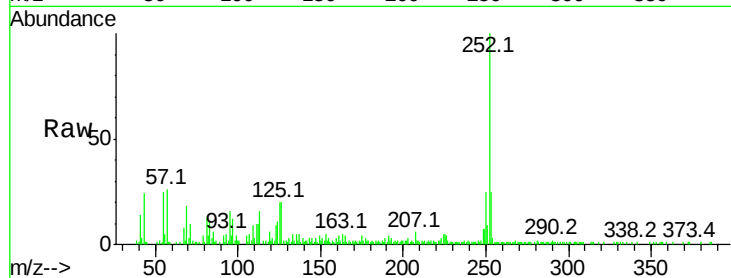
Tot Ion:252 Resp: 62726

Ion Ratio Lower Upper

252 100

253 25.0 17.5 26.3

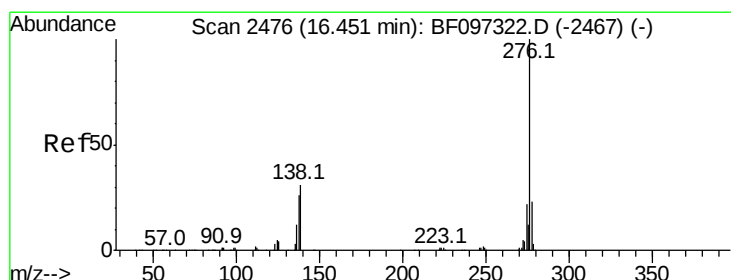
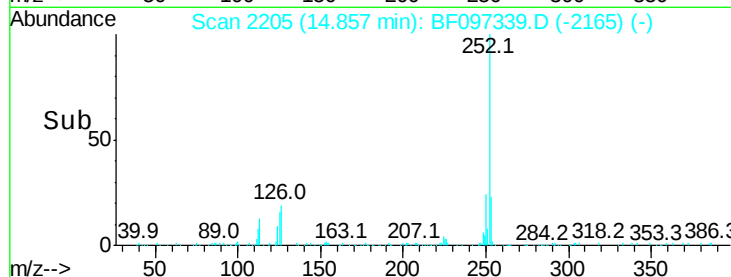
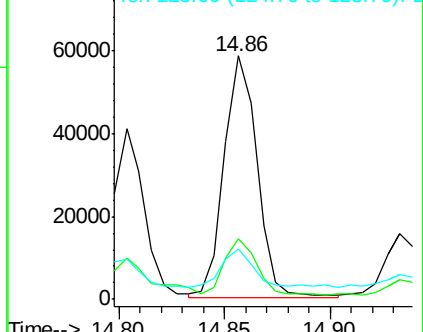
125 20.5 11.0 16.4#



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



#91

Benzo(g,h,i)perylene

Concen: 6.480 ng

RT: 16.47 min Scan# 2479

Delta R.T. -0.10 min

Lab File: BF097339.D

Acq: 4 Aug 2017 1:44

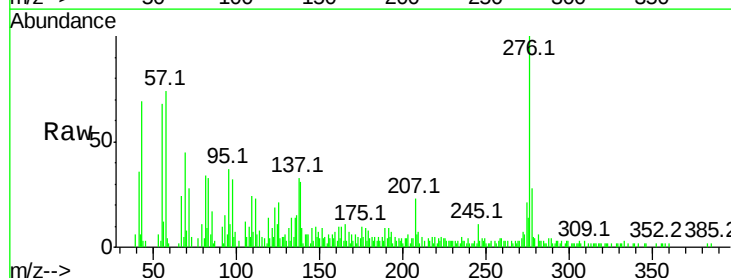
Tgt Ion:276 Resp: 33036

Ion Ratio Lower Upper

276 100

277 28.2 18.6 28.0#

138 31.3 25.4 38.0



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

