

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071516\
 Data File : BF089018.D
 Acq On : 15 Jul 2016 15:55
 Operator : UM/SJ
 Sample : H3972-10
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB10(10-12ft)

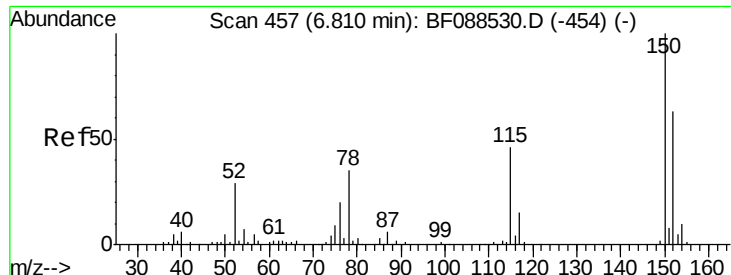
Quant Time: Jul 15 23:26:38 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	61638	20.00	ng	-0.03
21) Naphthalene-d8	7.96	136	248092	20.00	ng	-0.03
38) Acenaphthene-d10	9.71	164	98570	20.00	ng	-0.03
63) Phenanthrene-d10	11.19	188	155789	20.00	ng	-0.03
75) Chrysene-d12	13.81	240	111713	20.00	ng	-0.05
86) Perylene-d12	15.18	264	84441	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.28	112	484990	117.92	ng	-0.01
7) Phenol-d6	6.33	99	550960	103.68	ng	-0.02
23) Nitrobenzene-d5	7.24	82	353853	74.74	ng	-0.03
41) 2,4,6-Tribromophenol	10.50	330	92415	100.96	ng	-0.03
44) 2-Fluorobiphenyl	9.04	172	542383	86.92	ng	-0.03
78) Terphenyl-d14	12.77	244	338632	67.52	ng	-0.03

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
48) Acenaphthylene	9.56	152	37343	3.66	ng	99
49) Dimethylphthalate	9.44	163	152504	21.72	ng	98
54) Dibenzofuran	9.91	168	23571	2.88	ng	# 83
57) Fluorene	10.25	166	16098	2.55	ng	# 97
70) Phenanthrene	11.21	178	235114	27.61	ng	98
71) Anthracene	11.26	178	50511	5.97	ng	99
72) Carbazole	11.42	167	18610	2.34	ng	98
74) Fluoranthene	12.39	202	225193	26.08	ng	99
77) Pyrene	12.62	202	212872	22.47	ng	99
80) Benzo(a)anthracene	13.79	228	99002	13.76	ng	94
82) Chrysene	13.83	228	71622	10.06	ng	96
85) Indeno(1,2,3-cd)pyrene	16.43	276	31530	5.76	ng	# 100
87) Benzo(b)fluoranthene	14.80	252	86531m	16.34	ng	
88) Benzo(k)fluoranthene	14.82	252	29000m	6.29	ng	
89) Benzo(a)pyrene	15.12	252	53795m	11.99	ng	
90) Dibenzo(a,h)anthracene	16.45	278	10867	2.90	ng	# 85
91) Benzo(g,h,i)perylene	16.82	276	27539	7.11	ng	99

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.67 min Scan# 445

Delta R.T. -0.03 min

Lab File: BF089018.D

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LSS-SB-SB10(10-12ft)

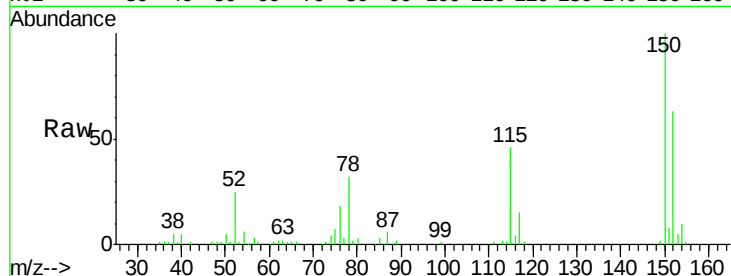
Tot Ion:152 Resp: 61638

Ion Ratio Lower Upper

152 100

150 157.5 123.8 185.6

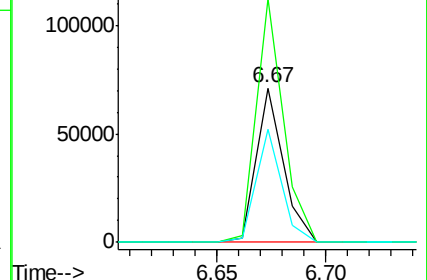
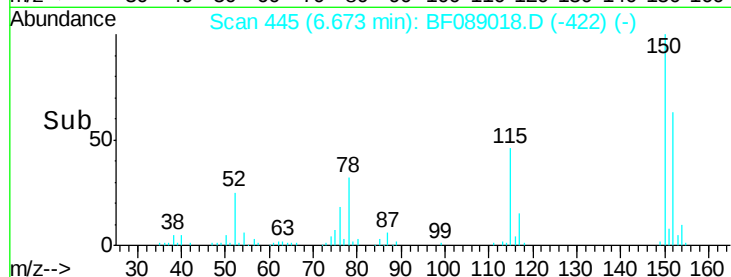
115 73.2 39.6 59.4#



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: 117.92 ng

RT: 5.28 min Scan# 323

Delta R.T. -0.01 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

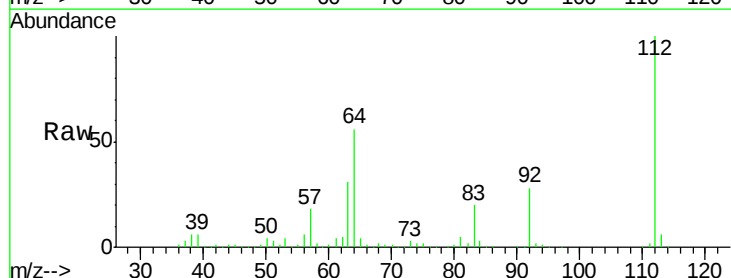
Tgt Ion:112 Resp: 484990

Ion Ratio Lower Upper

112 100

64 56.3 42.2 63.2

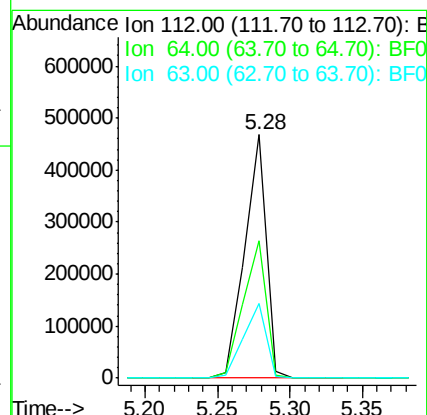
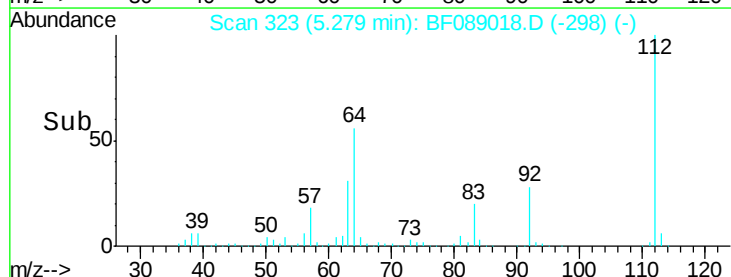
63 30.7 21.8 32.8



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: 103.68 ng

RT: 6.33 min Scan# 415

Delta R.T. -0.02 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB10(10-12ft)

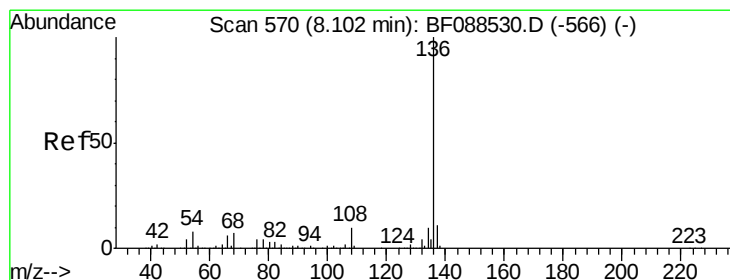
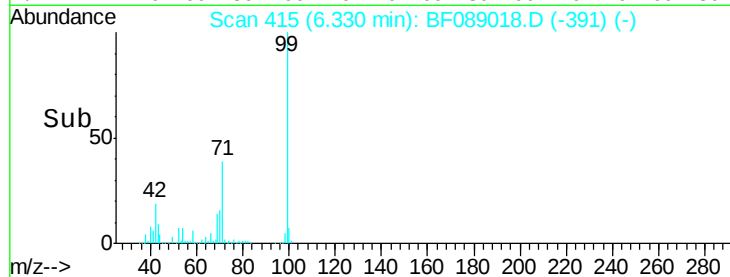
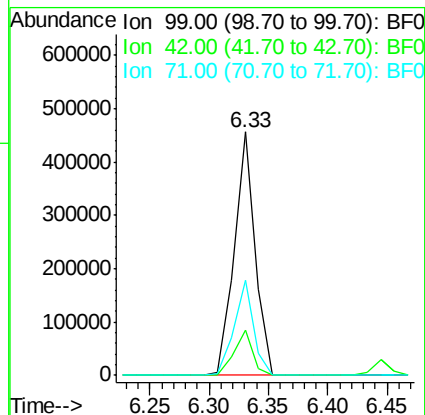
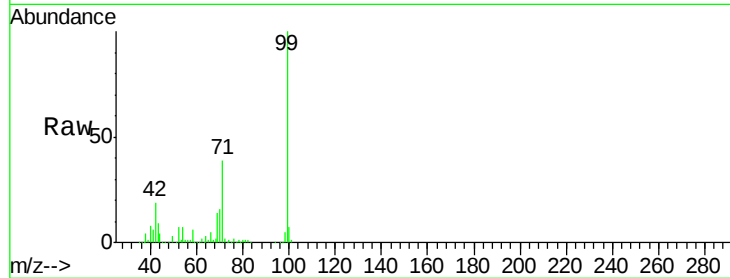
Tot Ion: 99 Resp: 550960

Ion Ratio Lower Upper

99 100

42 18.7 12.2 18.2#

71 39.1 23.4 35.0#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 558

Delta R.T. -0.03 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

Tgt Ion: 136 Resp: 248092

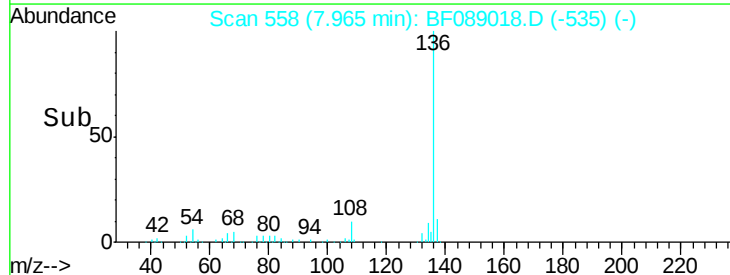
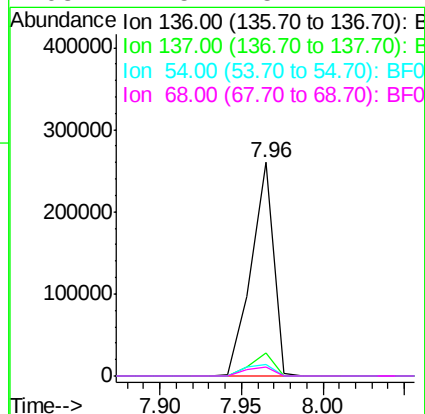
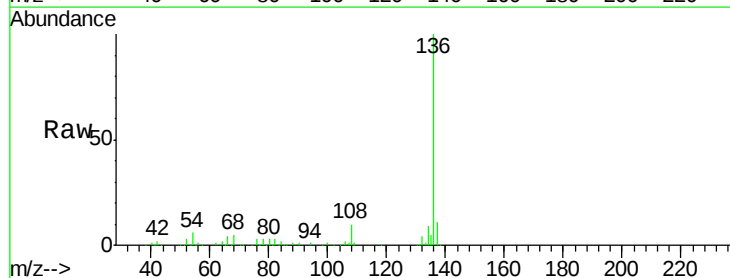
Ion Ratio Lower Upper

136 100

137 10.8 9.1 13.7

54 5.5 6.6 10.0#

68 4.5 5.1 7.7#





#23

Nitrobenzene-d5

Concen: 74.74 ng

RT: 7.24 min Scan# 495

Delta R.T. -0.03 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB10(10-12ft)

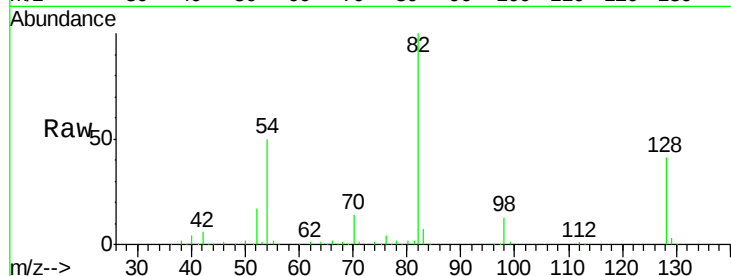
Tot Ion: 82 Resp: 353853

Ion Ratio Lower Upper

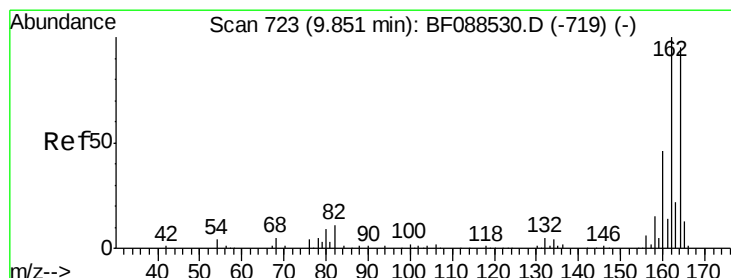
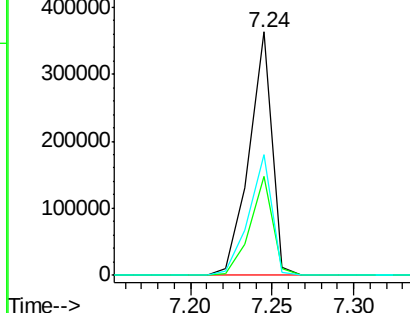
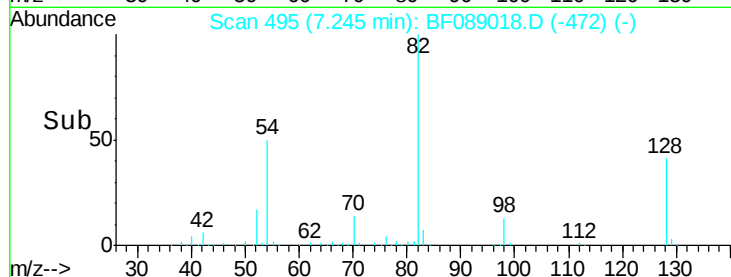
82 100

128 40.5 35.9 53.9

54 49.6 40.9 61.3



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): B
Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.71 min Scan# 711

Delta R.T. -0.03 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

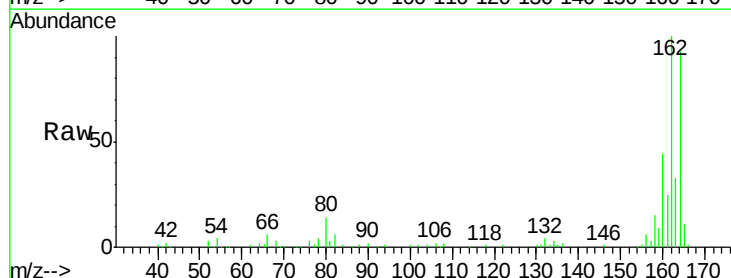
Tgt Ion:164 Resp: 98570

Ion Ratio Lower Upper

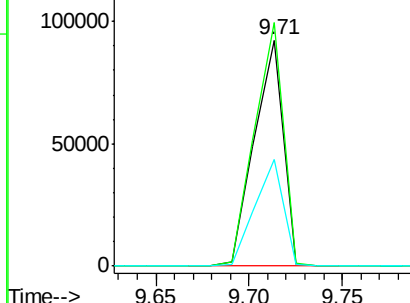
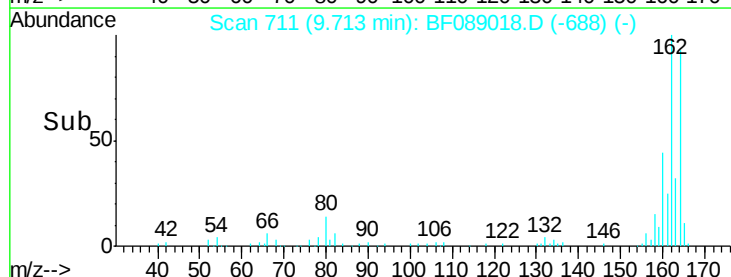
164 100

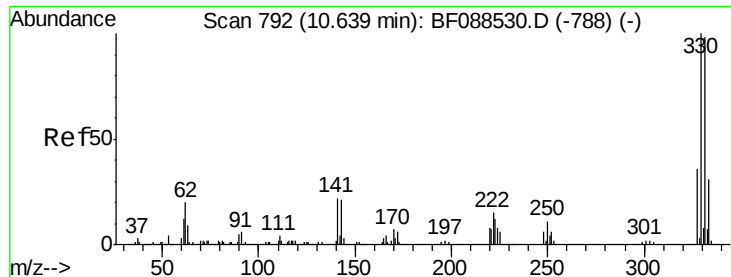
162 107.7 85.4 128.2

160 47.1 39.5 59.3



Abundance Ion 164.00 (163.70 to 164.70): B
Ion 162.00 (161.70 to 162.70): B
Ion 160.00 (159.70 to 160.70): B

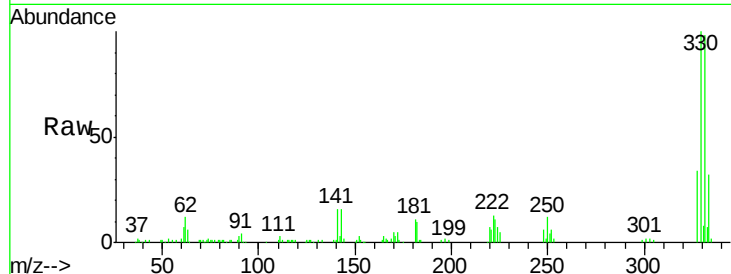




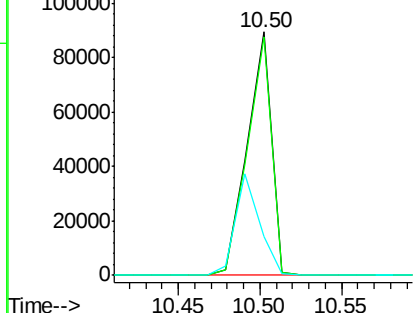
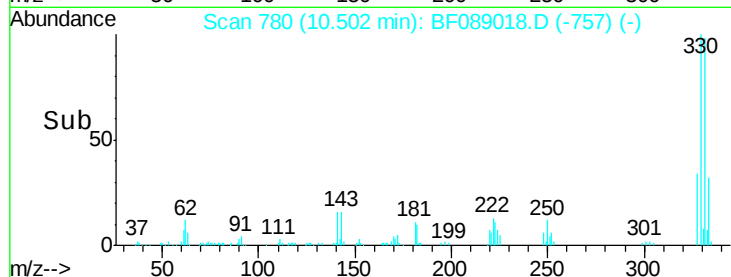
#41
 2,4,6-Tribromophenol
 Concen: 100.96 ng
 RT: 10.50 min Scan# 780
 Delta R.T. -0.03 min
 Lab File: BF089018.D
 Acq: 15 Jul 2016 15:55

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB10(10-12ft)

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.1	0.0	0.0#
141	41.2	0.0	0.0#

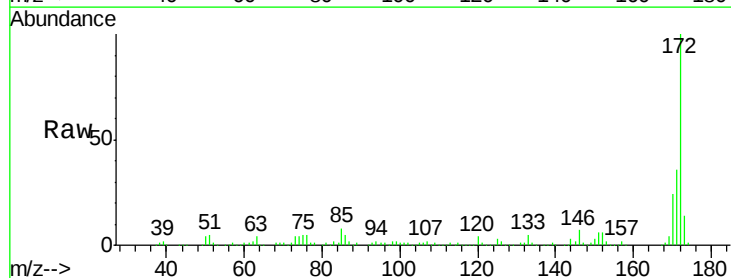


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

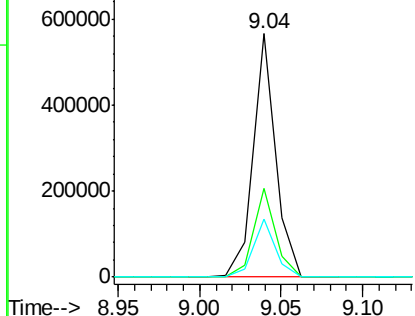
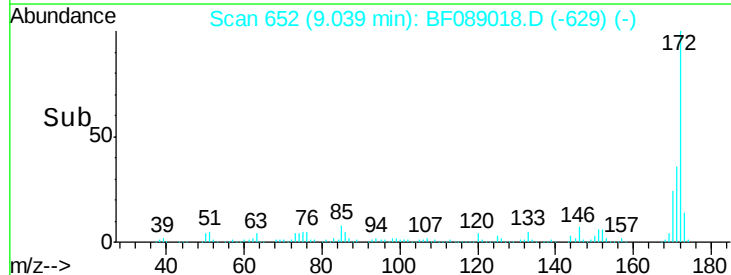


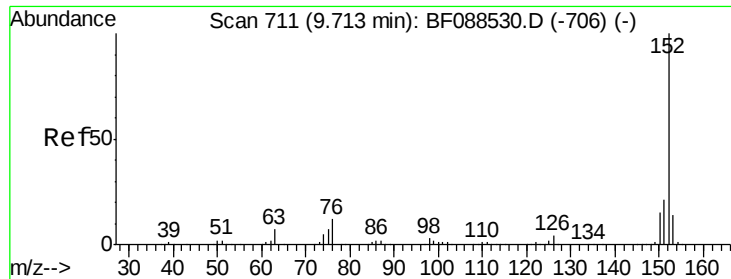
#44
 2-Fluorobiphenyl
 Concen: 86.92 ng
 RT: 9.04 min Scan# 652
 Delta R.T. -0.03 min
 Lab File: BF089018.D
 Acq: 15 Jul 2016 15:55

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.6	43.0
170	23.9	19.2	28.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 3.66 ng

RT: 9.56 min Scan# 698

Delta R.T. -0.05 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB10(10-12ft)

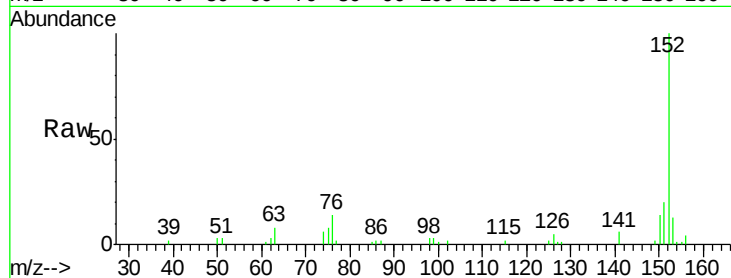
Tot Ion:152 Resp: 37343

Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.4

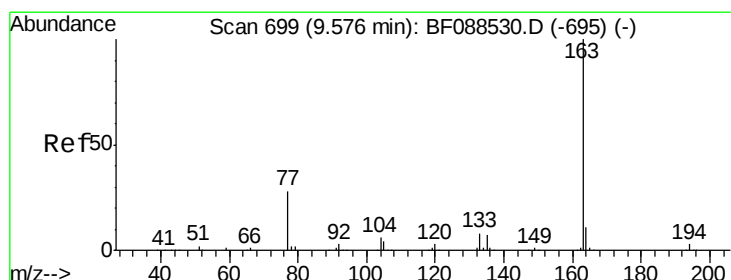
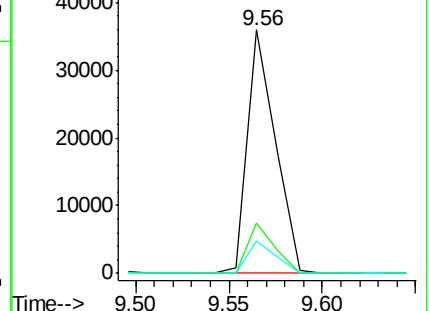
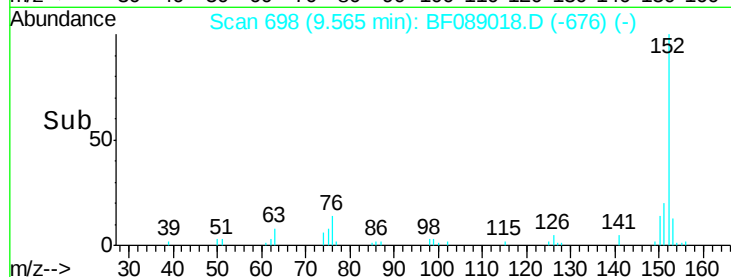
153 13.3 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 21.72 ng

RT: 9.44 min Scan# 687

Delta R.T. -0.05 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

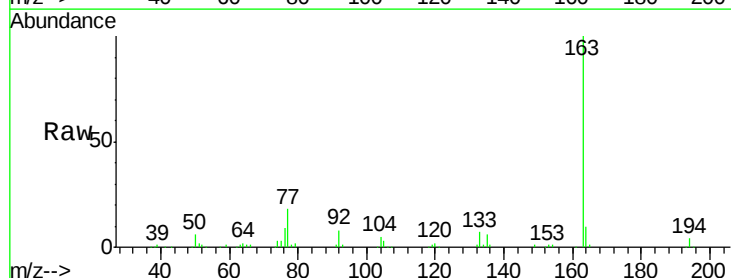
Tgt Ion:163 Resp: 152504

Ion Ratio Lower Upper

163 100

194 3.5 2.8 4.2

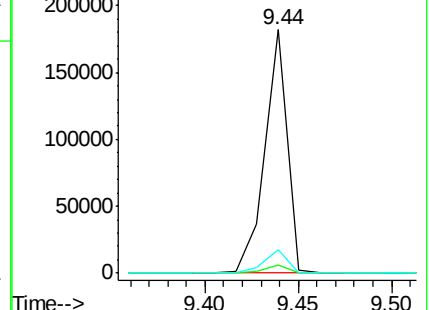
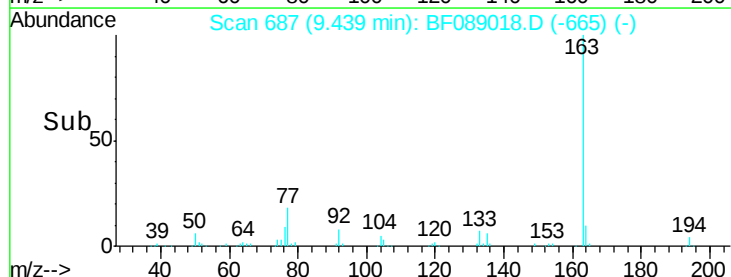
164 9.6 8.3 12.5

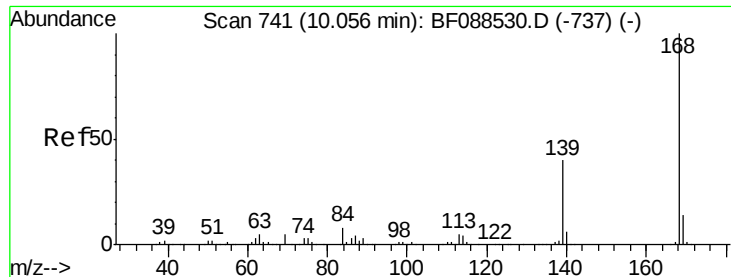


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#54

Dibenzenofuran

Concen: 2.88 ng

RT: 9.91 min Scan# 728

Delta R.T. -0.05 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB10(10-12ft)

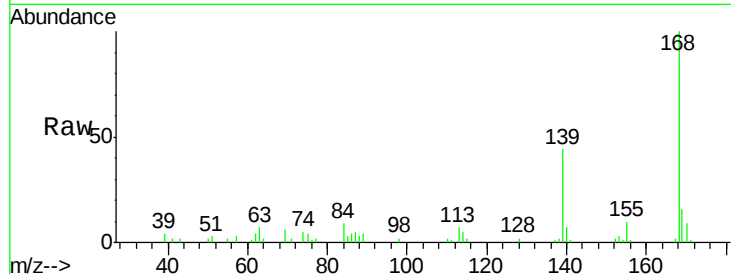
Tot Ion:168 Resp: 23571

Ion Ratio Lower Upper

168 100

139 44.3 26.4 39.6#

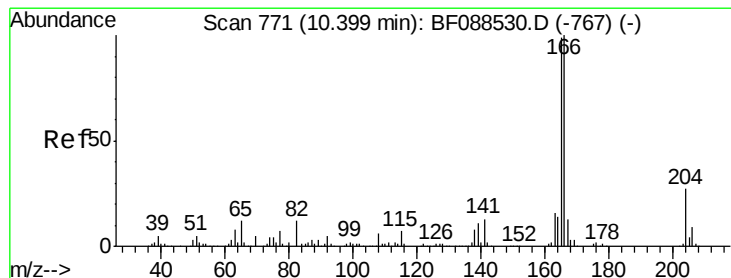
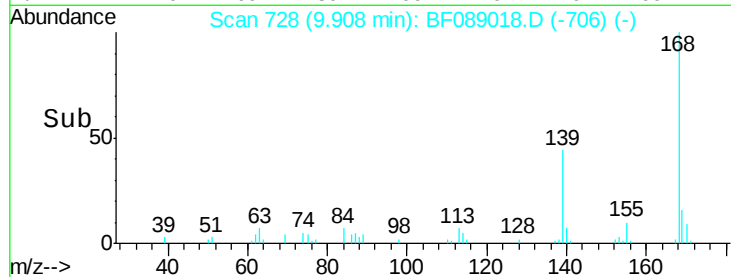
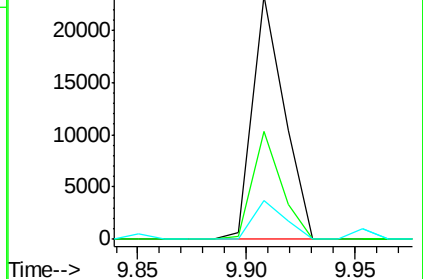
169 16.0 10.4 15.6#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 2.55 ng

RT: 10.25 min Scan# 758

Delta R.T. -0.05 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

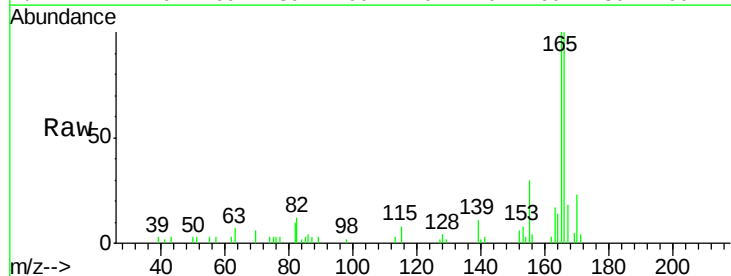
Tgt Ion:166 Resp: 16098

Ion Ratio Lower Upper

166 100

165 99.9 77.8 116.8

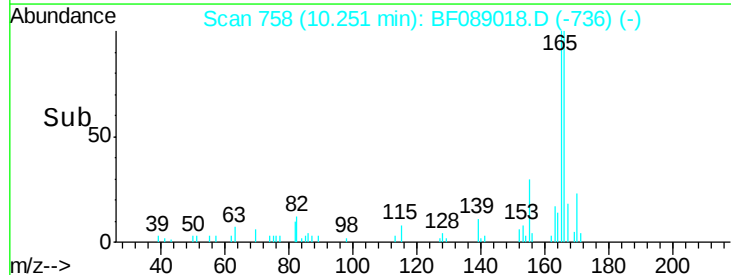
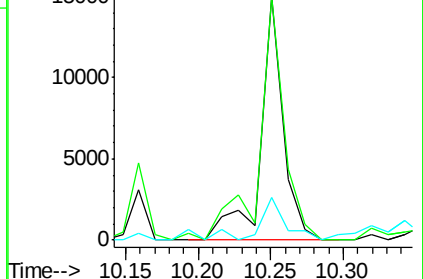
167 17.7 11.2 16.8#

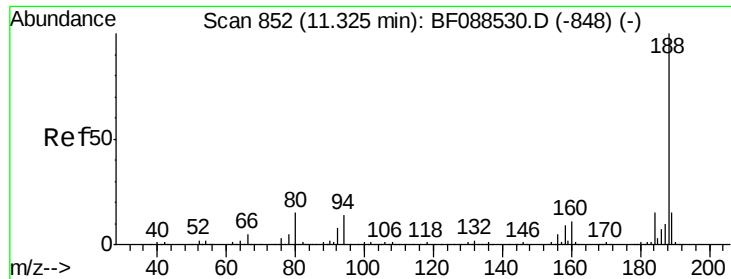


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

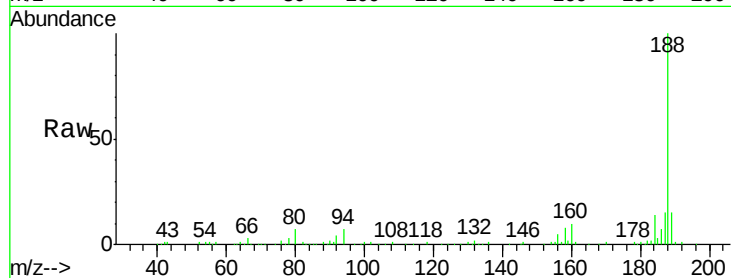




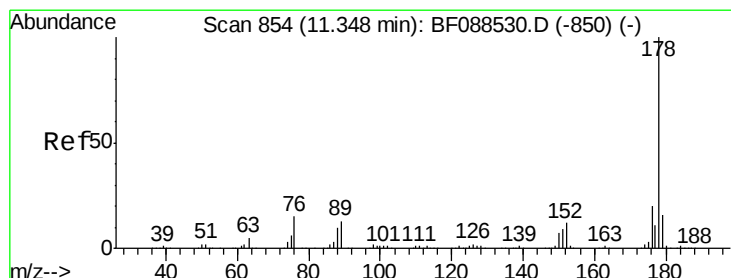
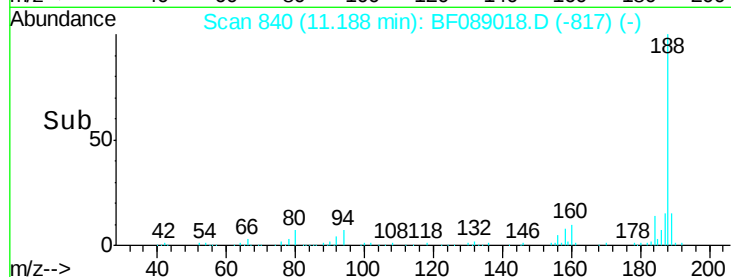
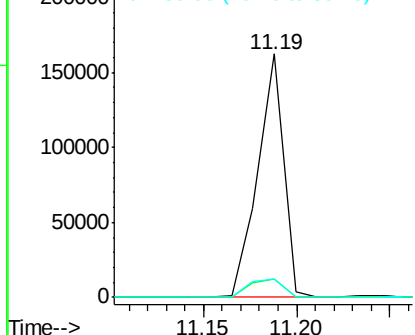
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 840
Delta R.T. -0.03 min
Lab File: BF089018.D
Acq: 15 Jul 2016 15:55

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB10(10-12ft)

Tot Ion:188 Resp: 155789
Ion Ratio Lower Upper
188 100
94 7.3 9.0 13.6#
80 7.4 10.0 15.0#

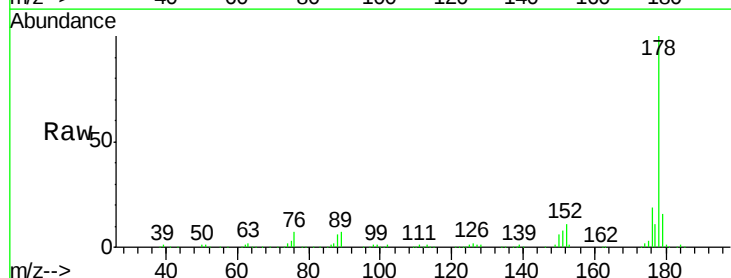


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

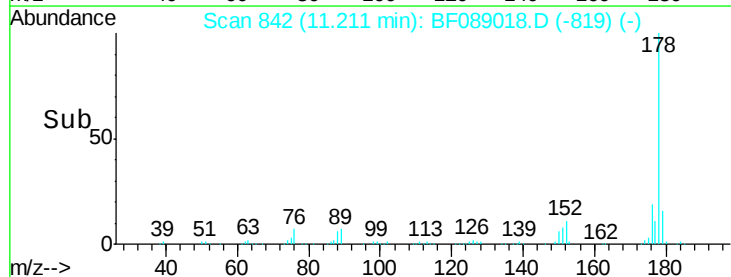
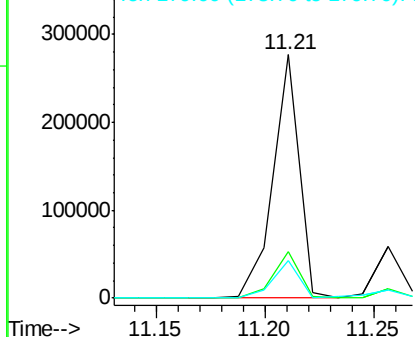


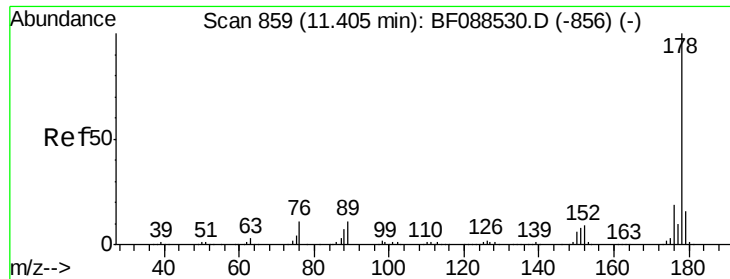
#70
Phenanthrene
Concen: 27.61 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.03 min
Lab File: BF089018.D
Acq: 15 Jul 2016 15:55

Tgt Ion:178 Resp: 235114
Ion Ratio Lower Upper
178 100
176 19.0 15.8 23.6
179 15.6 13.0 19.4



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

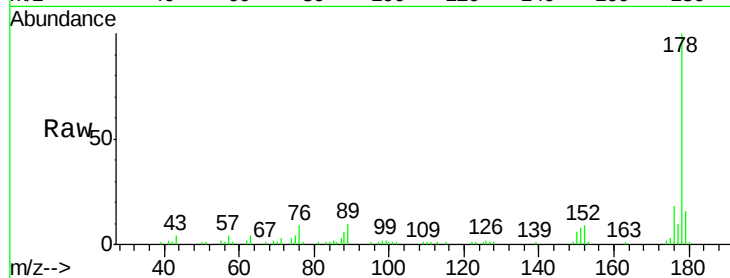




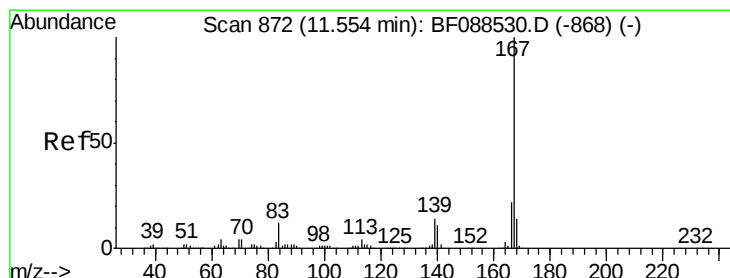
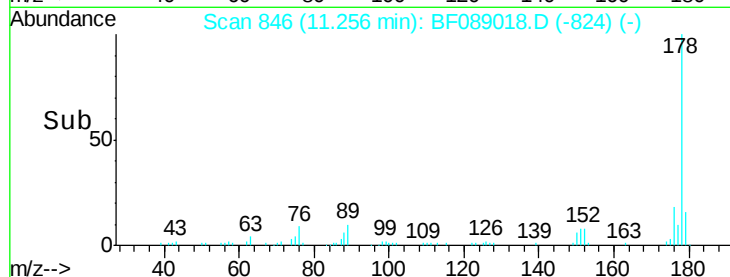
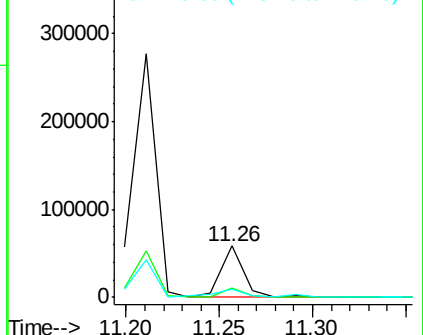
#71
 Anthracene
 Concen: 5.97 ng
 RT: 11.26 min Scan# 846
 Delta R.T. -0.05 min
 Lab File: BF089018.D
 Acq: 15 Jul 2016 15:55

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB10(10-12ft)

Tot Ion:178 Resp: 50511
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.6 23.4
 179 16.1 12.8 19.2

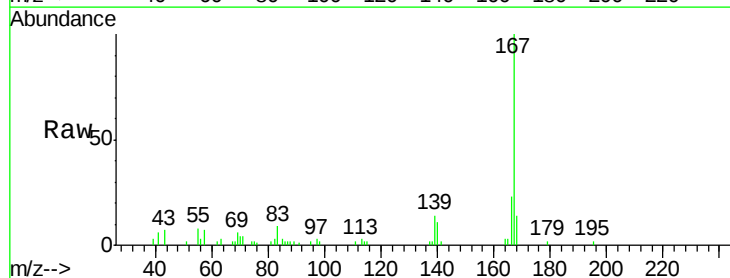


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

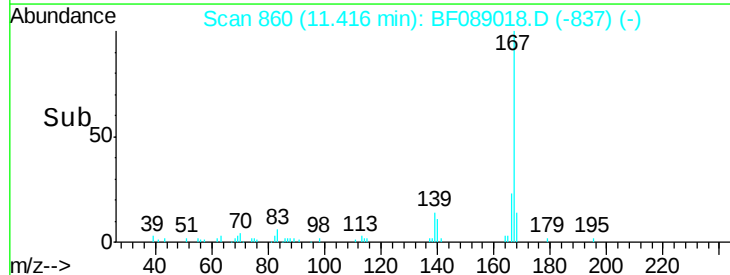
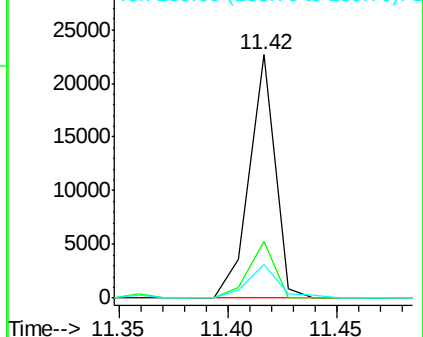


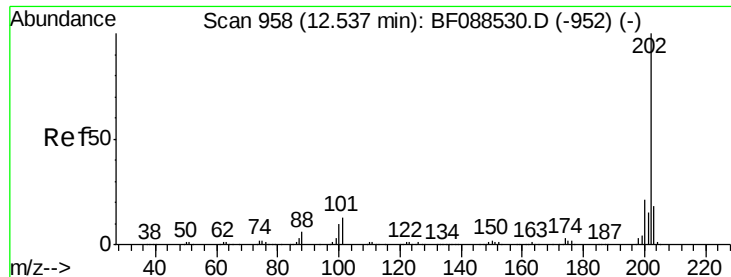
#72
 Carbazole
 Concen: 2.34 ng
 RT: 11.42 min Scan# 860
 Delta R.T. -0.03 min
 Lab File: BF089018.D
 Acq: 15 Jul 2016 15:55

Tgt Ion:167 Resp: 18610
 Ion Ratio Lower Upper
 167 100
 166 23.1 17.8 26.6
 139 13.6 11.2 16.8



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 26.08 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.03 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB10(10-12ft)

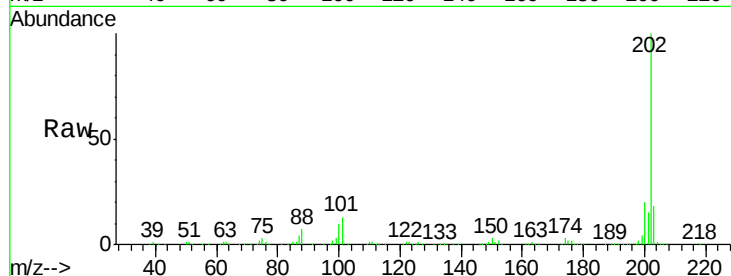
Tot Ion:202 Resp: 225193

Ion Ratio Lower Upper

202 100

101 13.0 0.0 33.1

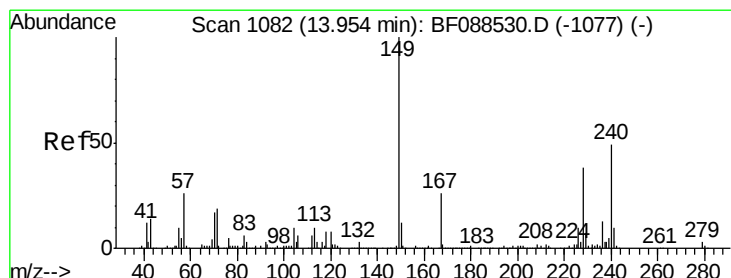
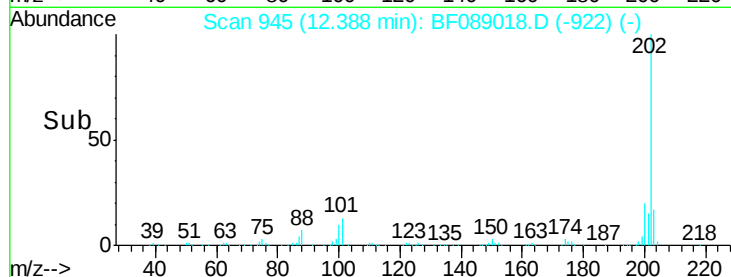
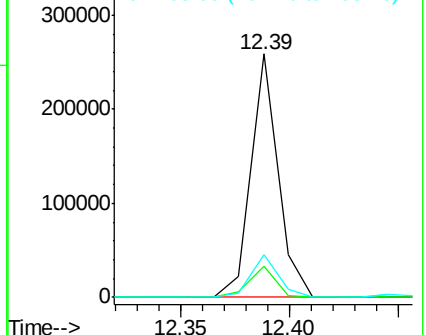
203 17.6 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.05 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

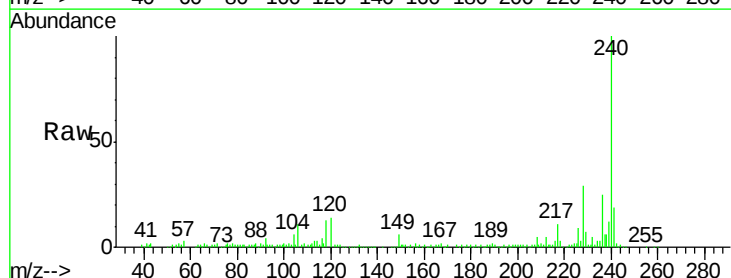
Tgt Ion:240 Resp: 111713

Ion Ratio Lower Upper

240 100

120 14.4 6.8 10.2#

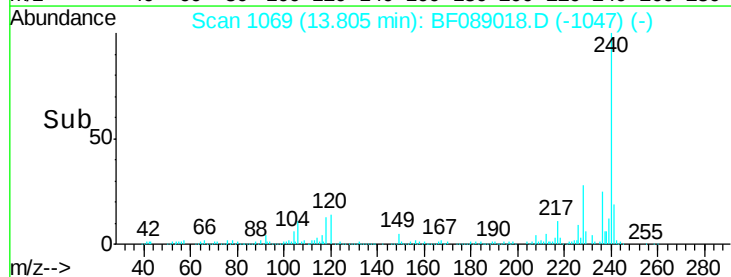
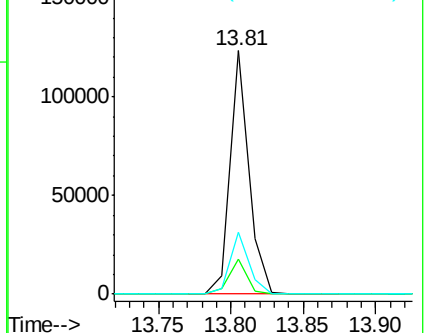
236 25.5 20.2 30.2

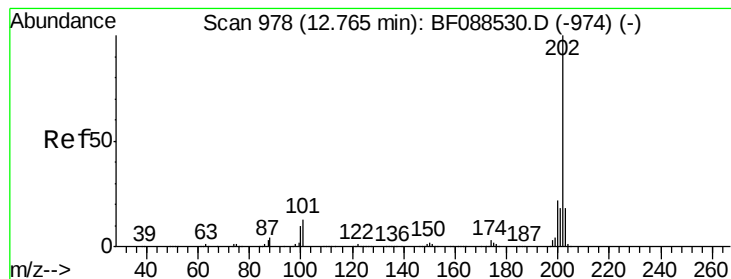


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 22.47 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB10(10-12ft)

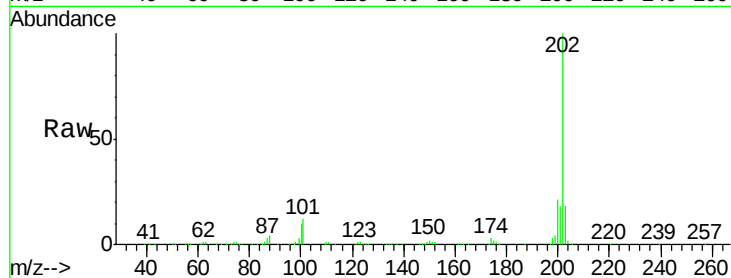
Tot Ion:202 Resp: 212872

Ion Ratio Lower Upper

202 100

200 21.3 17.4 26.2

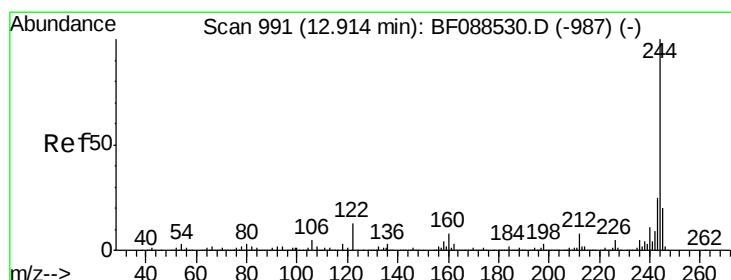
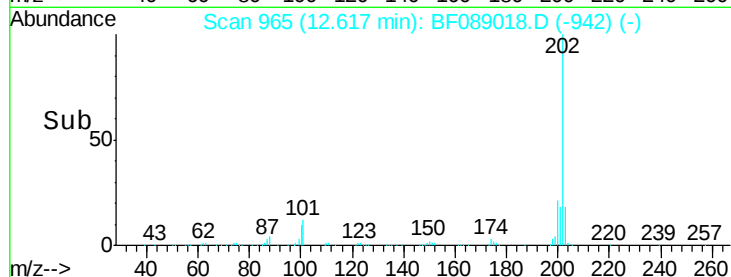
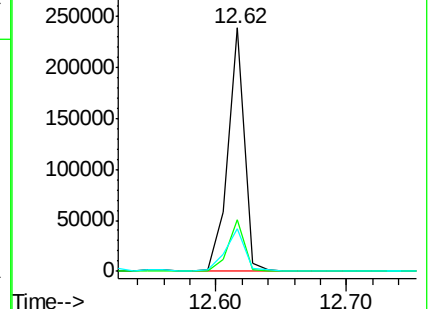
203 17.5 14.5 21.7



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: 67.52 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.03 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

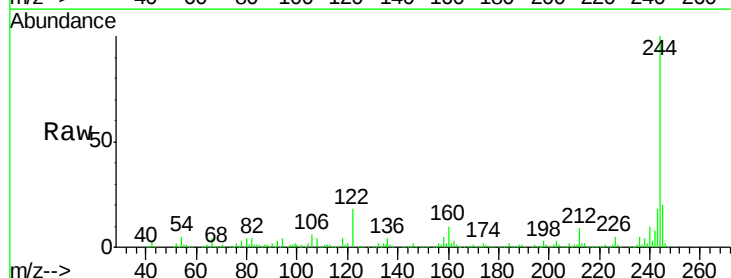
Tgt Ion:244 Resp: 338632

Ion Ratio Lower Upper

244 100

212 8.5 6.0 9.0

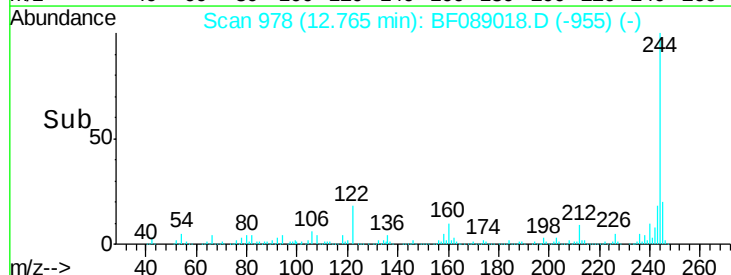
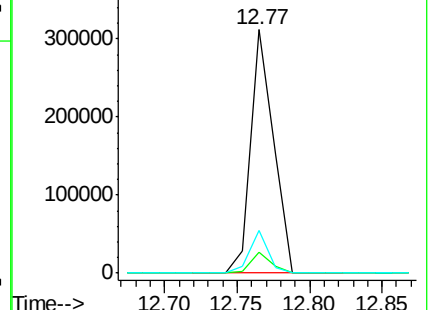
122 17.6 11.2 16.8#

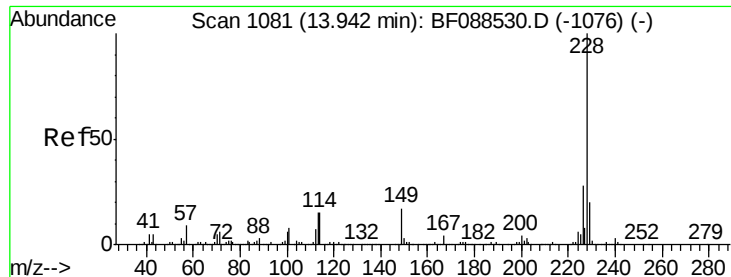


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 13.76 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.05 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB10(10-12ft)

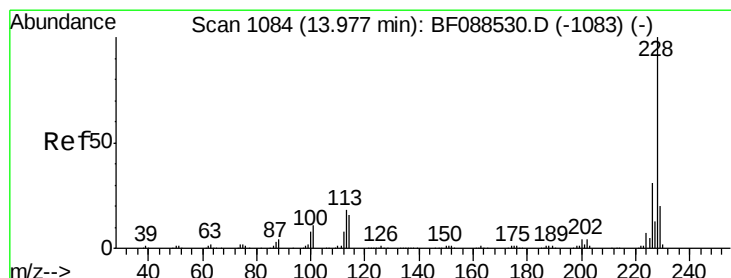
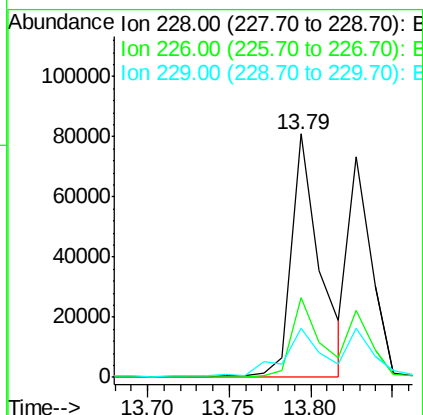
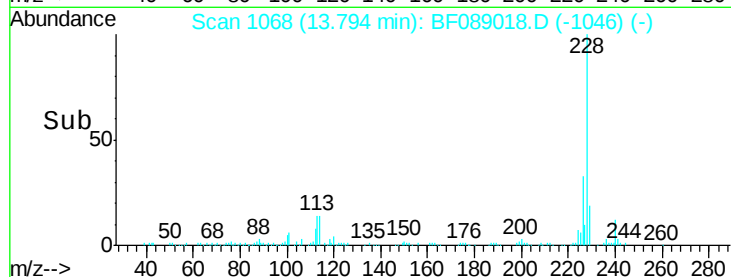
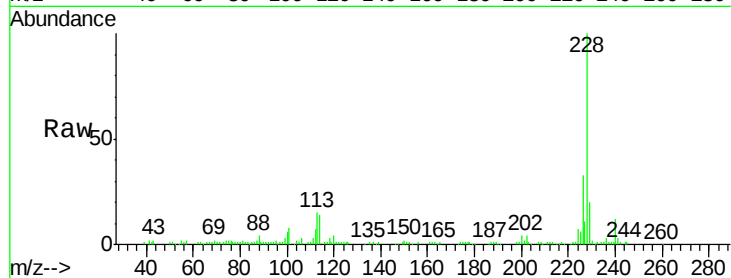
Tot Ion:228 Resp: 99002

Ion Ratio Lower Upper

228 100

226 32.9 22.3 33.5

229 20.1 16.0 24.0



#82

Chrysene

Concen: 10.06 ng

RT: 13.83 min Scan# 1071

Delta R.T. -0.05 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

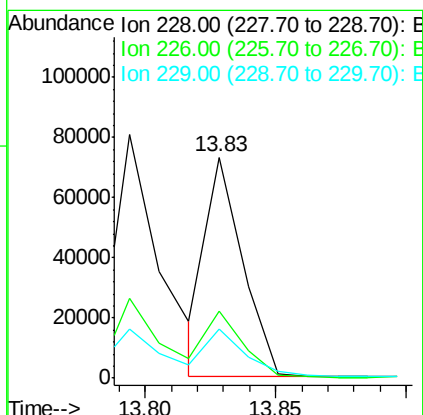
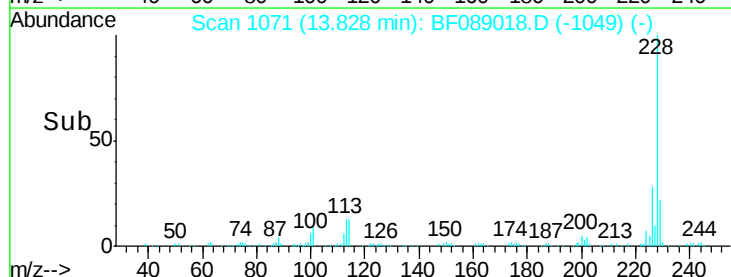
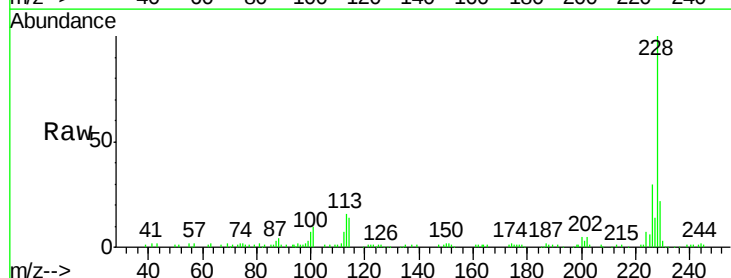
Tgt Ion:228 Resp: 71622

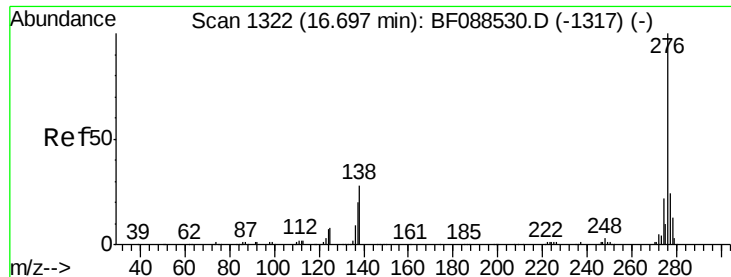
Ion Ratio Lower Upper

228 100

226 30.1 25.4 38.2

229 22.4 16.3 24.5

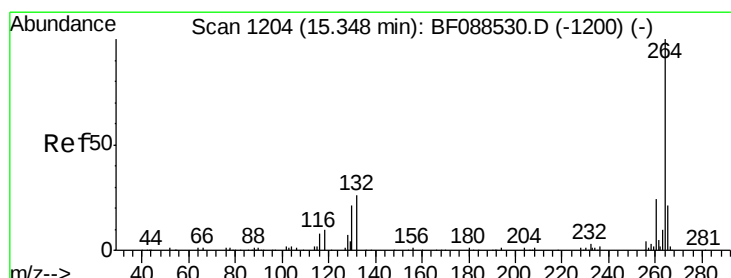
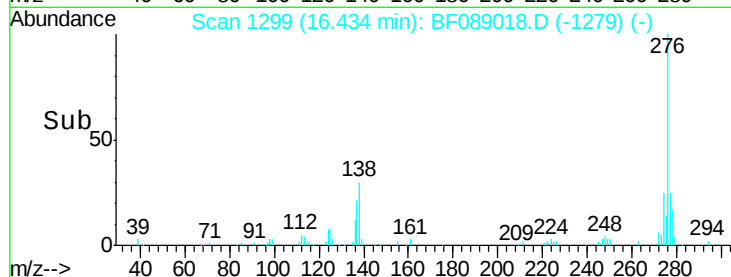
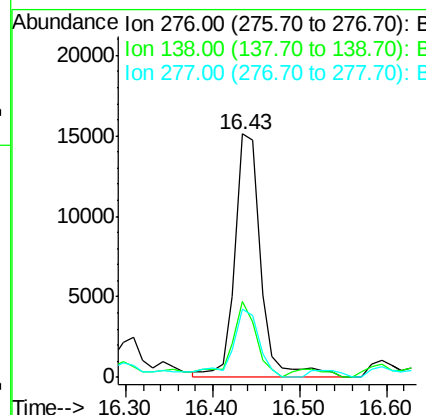
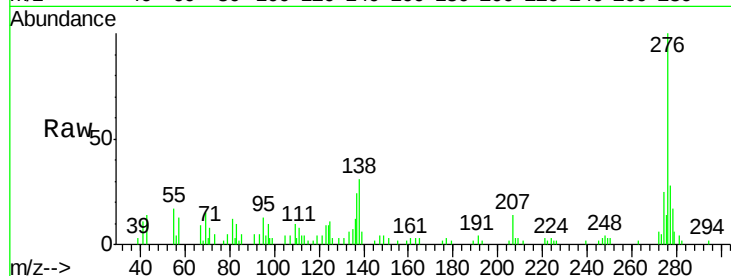




#85
Indeno(1,2,3-cd)pyrene
Concen: 5.76 ng
RT: 16.43 min Scan# 1299
Delta R.T. -0.07 min
Lab File: BF089018.D
Acq: 15 Jul 2016 15:55

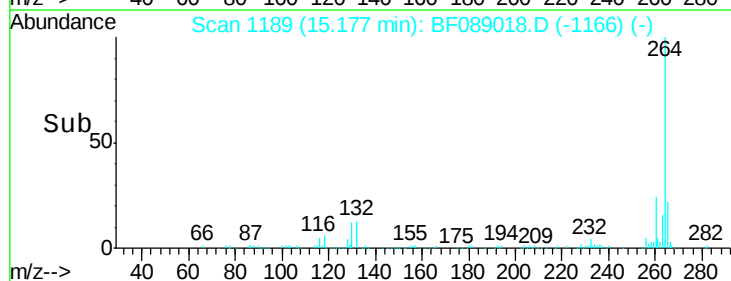
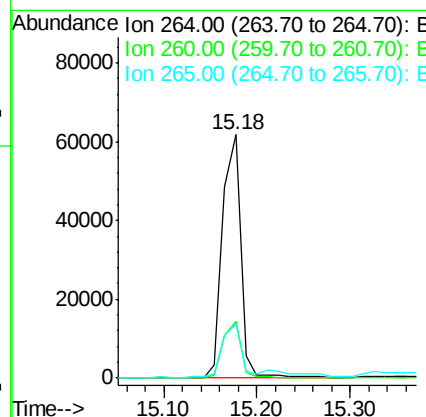
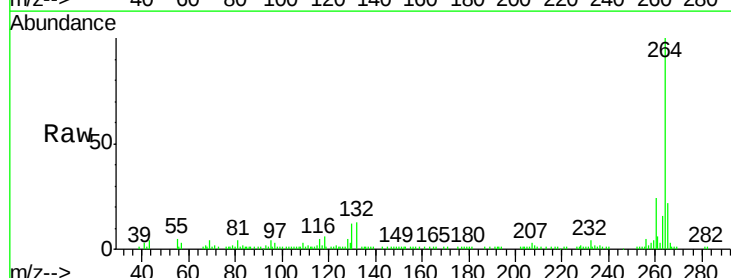
Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB10(10-12ft)

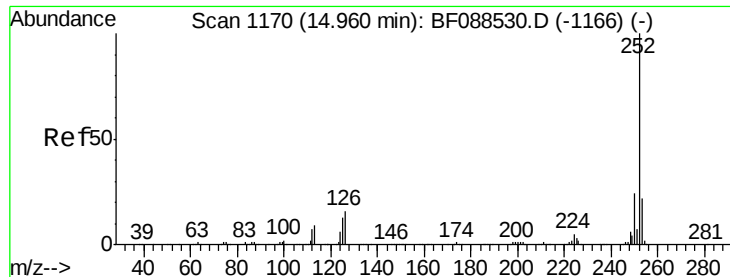
Tot Ion:276 Resp: 31530
Ion Ratio Lower Upper
276 100
138 28.7 0.0 0.0#
277 28.7 0.0 0.0#



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.18 min Scan# 1189
Delta R.T. -0.03 min
Lab File: BF089018.D
Acq: 15 Jul 2016 15:55

Tgt Ion:264 Resp: 84441
Ion Ratio Lower Upper
264 100
260 23.5 19.2 28.8
265 22.1 16.9 25.3





#87

Benzo(b)fluoranthene

Concen: 16.34 ng m

RT: 14.80 min Scan# 1156

Delta R.T. -0.03 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB10(10-12ft)

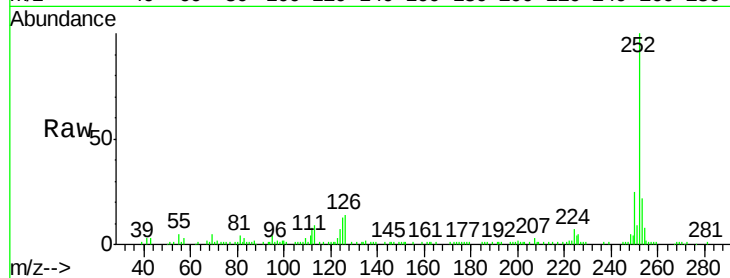
Tot Ion:252 Resp: 86531

Ion Ratio Lower Upper

252 100

253 22.2 17.4 26.2

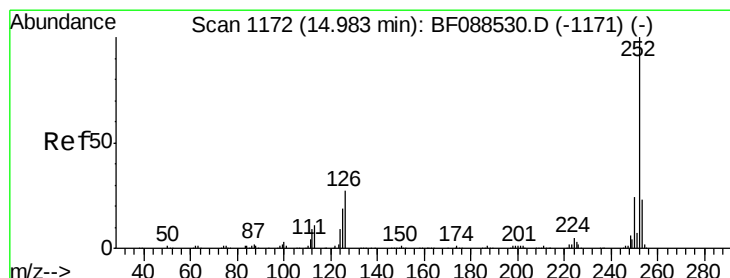
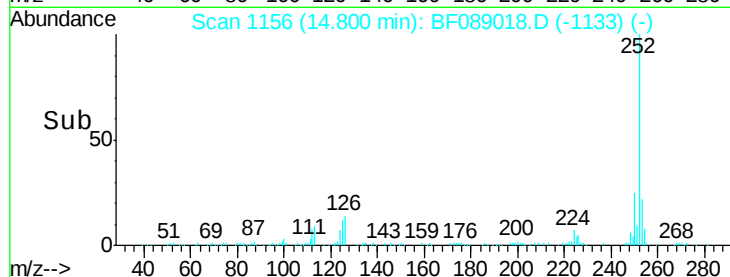
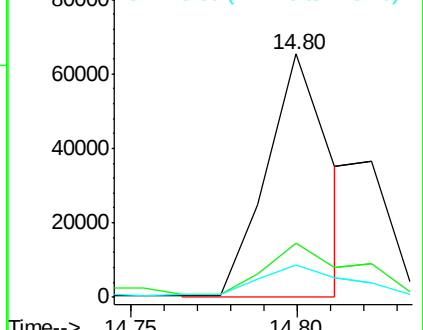
125 13.2 7.1 10.7#



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



#88

Benzo(k)fluoranthene

Concen: 6.29 ng m

RT: 14.82 min Scan# 1158

Delta R.T. -0.05 min

Lab File: BF089018.D

Acq: 15 Jul 2016 15:55

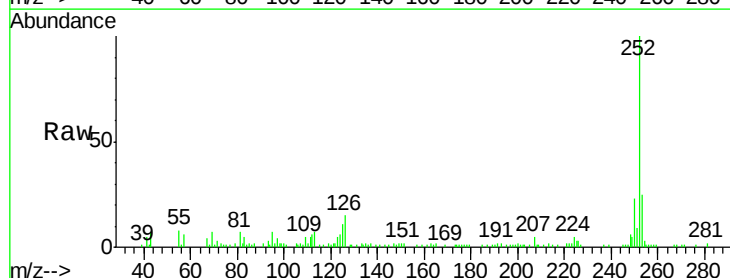
Tgt Ion:252 Resp: 29000

Ion Ratio Lower Upper

252 100

253 24.8 18.0 27.0

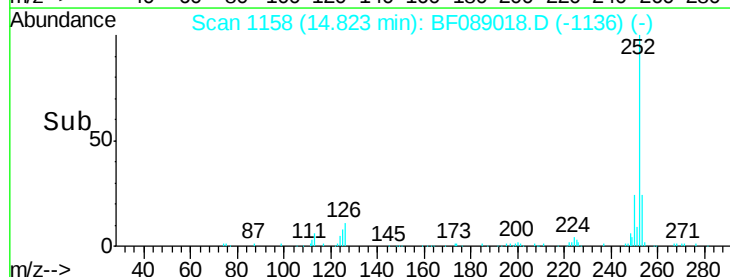
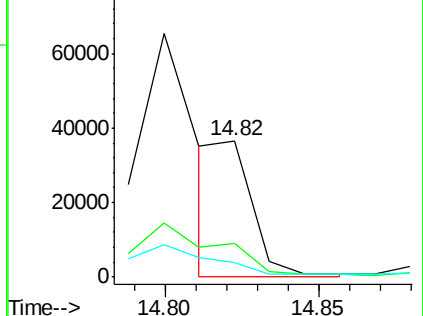
125 10.7 11.2 16.8#

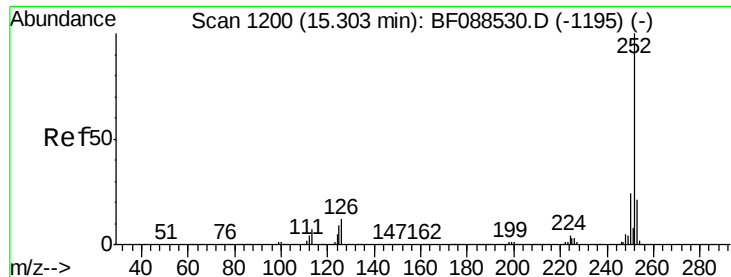


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

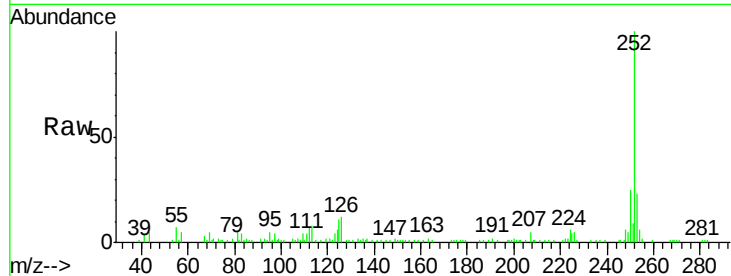




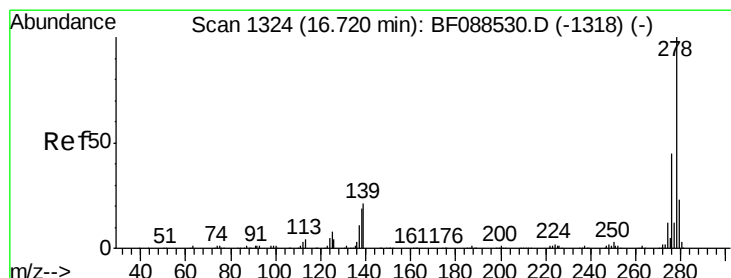
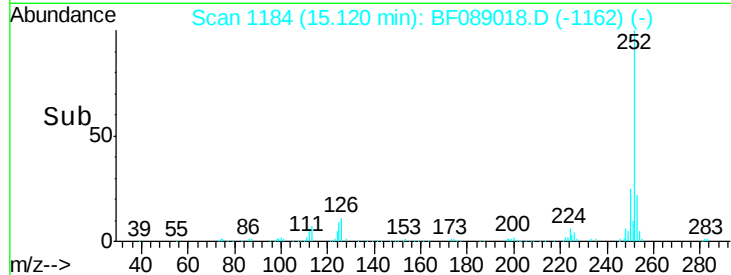
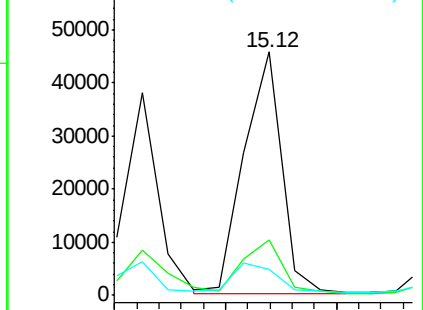
#89
Benzo(a)pyrene
Concen: 11.99 ng m
RT: 15.12 min Scan# 1184
Delta R.T. -0.05 min
Lab File: BF089018.D
Acq: 15 Jul 2016 15:55

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB10(10-12ft)

Tot Ion:252 Resp: 53795
Ion Ratio Lower Upper
252 100
253 23.0 17.9 26.9
125 10.8 12.5 18.7#

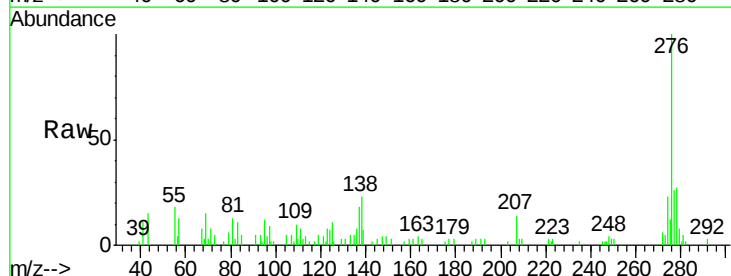


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

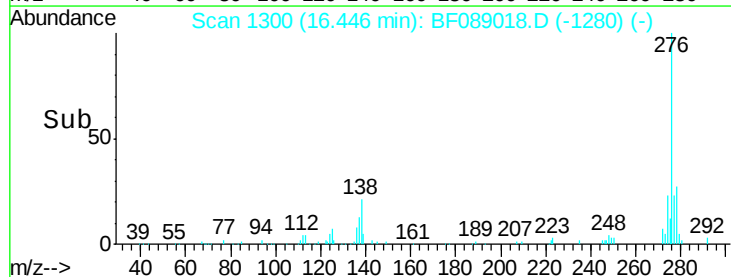
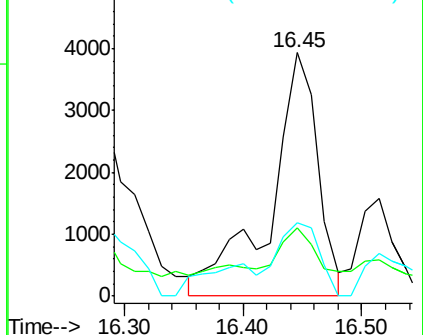


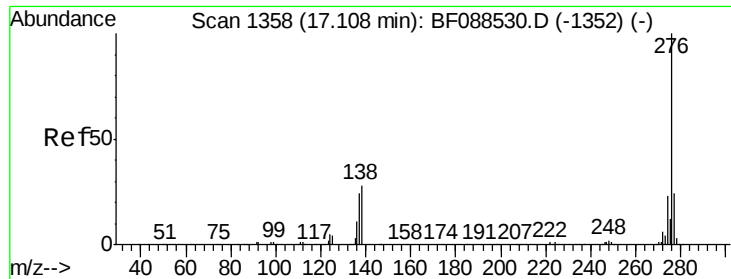
#90
Dibenzo(a,h)anthracene
Concen: 2.90 ng
RT: 16.45 min Scan# 1300
Delta R.T. -0.07 min
Lab File: BF089018.D
Acq: 15 Jul 2016 15:55

Tgt Ion:278 Resp: 10867
Ion Ratio Lower Upper
278 100
139 28.1 15.7 23.5#
279 30.3 19.4 29.2#



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

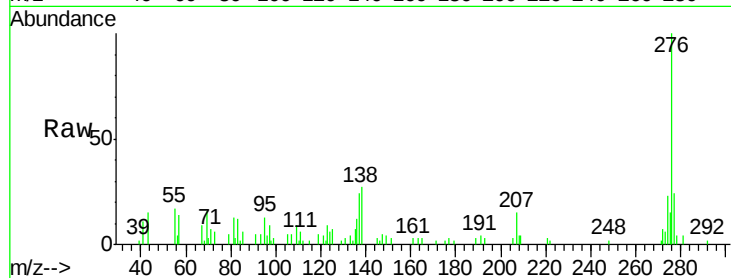




#91
 Benzo(a,h,i)perylene
 Concen: 7.11 ng
 RT: 16.82 min Scan# 1333
 Delta R.T. -0.07 min
 Lab File: BF089018.D
 Acq: 15 Jul 2016 15:55

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB10(10-12ft)

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.9	28.3
138	26.7	21.4	32.2



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

