

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071516\
 Data File : BF089022.D
 Acq On : 15 Jul 2016 17:56
 Operator : UM/SJ
 Sample : H3972-06 4X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB09(0-2ft)

Quant Time: Jul 16 00:39:27 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 16 00:31:51 2016
 Response via : Initial Calibration

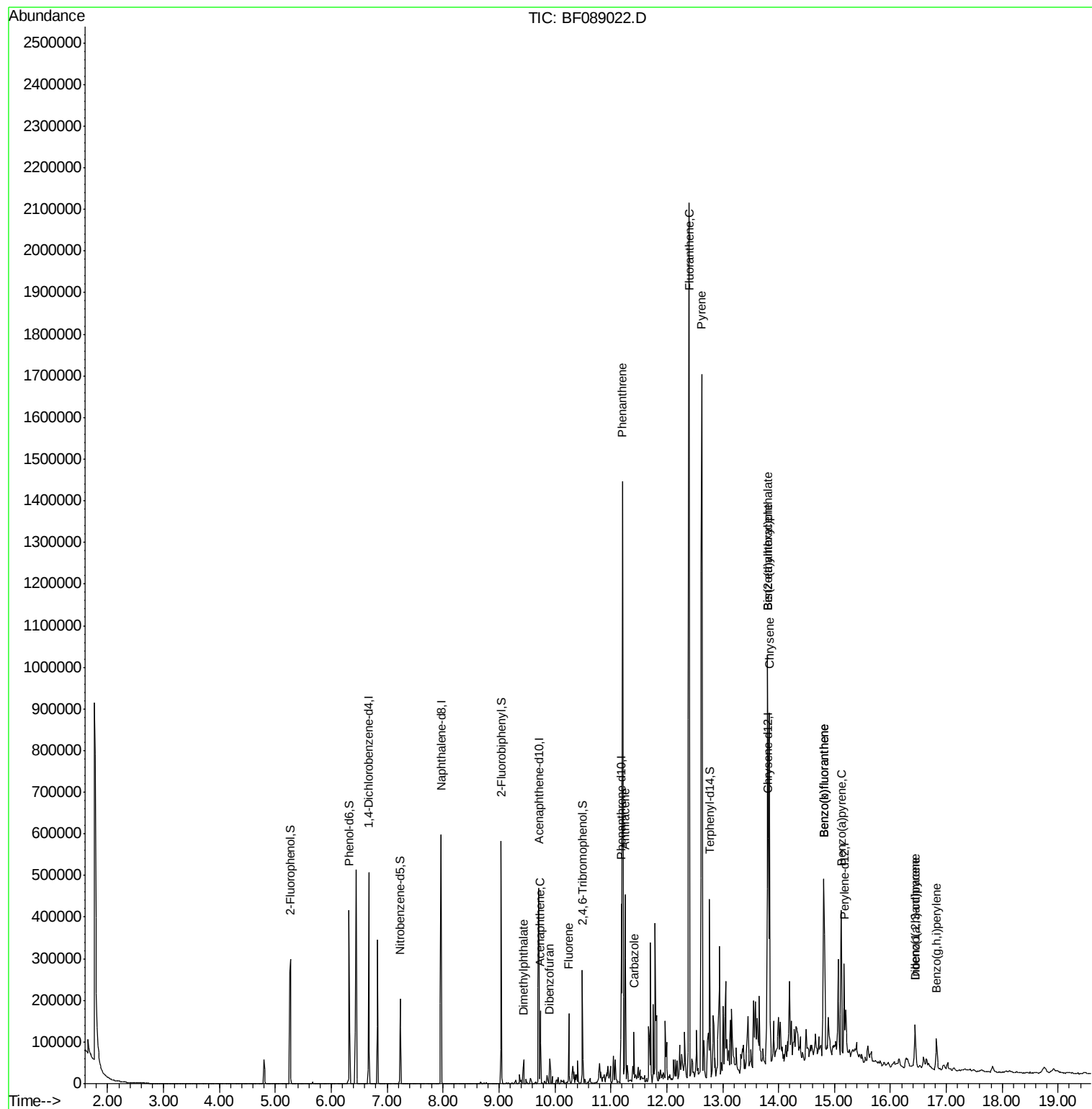
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	68176	20.00	ng	0.00
21) Naphthalene-d8	7.96	136	273656	20.00	ng	0.00
38) Acenaphthene-d10	9.71	164	102433	20.00	ng	0.00
63) Phenanthrene-d10	11.19	188	155452	20.00	ng	0.00
75) Chrysene-d12	13.82	240	120535	20.00	ng	0.00
86) Perylene-d12	15.18	264	88574	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	116666	25.65	ng	0.00
7) Phenol-d6	6.32	99	135159	22.99	ng	-0.01
23) Nitrobenzene-d5	7.23	82	85296	16.33	ng	-0.01
41) 2,4,6-Tribromophenol	10.49	330	16814	17.68	ng	-0.01
44) 2-Fluorobiphenyl	9.04	172	161018	24.83	ng	0.00
78) Terphenyl-d14	12.76	244	88782	16.41	ng	-0.01
Target Compounds						Qvalue
49) Dimethylphthalate	9.44	163	29889	4.10	ng	98
51) Acenaphthene	9.74	154	45313	6.98	ng	96
54) Dibenzofuran	9.91	168	21627	2.54	ng	# 82
57) Fluorene	10.25	166	41583	6.35	ng	98
70) Phenanthrene	11.21	178	501064	58.96	ng	99
71) Anthracene	11.26	178	231045	27.34	ng	99
72) Carbazole	11.42	167	38596	4.85	ng	99
74) Fluoranthene	12.40	202	844252	98.00	ng	99
77) Pyrene	12.63	202	843397	82.52	ng	100
80) Benzo(a)anthracene	13.80	228	333423	42.96	ng	100
82) Chrysene	13.84	228	283499m	36.92	ng	
83) Bis(2-ethylhexyl)phthalate	13.80	149	10736	2.06	ng	# 89
85) Indeno(1,2,3-cd)pyrene	16.45	276	57366	9.71	ng	# 100
87) Benzo(b)fluoranthene	14.81	252	218137m	39.26	ng	
88) Benzo(k)fluoranthene	14.81	252	104355m	21.57	ng	
89) Benzo(a)pyrene	15.12	252	144327	30.68	ng	98
90) Dibenzo(a,h)anthracene	16.45	278	20735m	5.28	ng	
91) Benzo(g,h,i)perylene	16.82	276	51466	12.66	ng	98

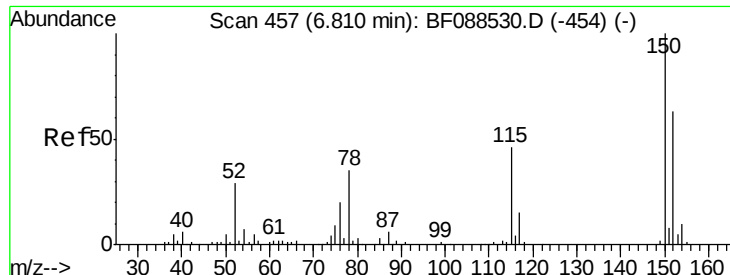
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.67 min Scan# 445

Delta R.T. -0.00 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)

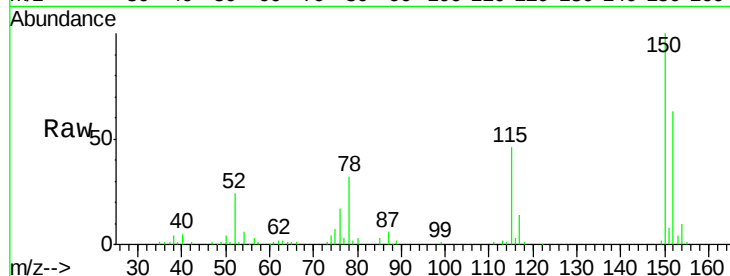
Tot Ion:152 Resp: 68176

Ion Ratio Lower Upper

152 100

150 157.8 123.8 185.6

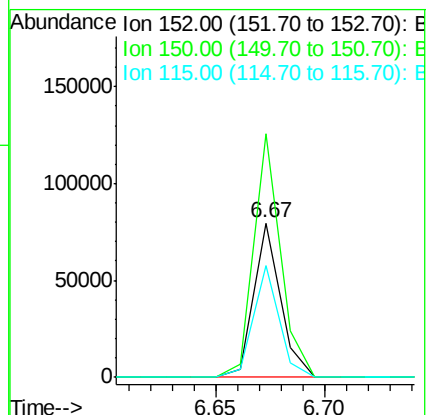
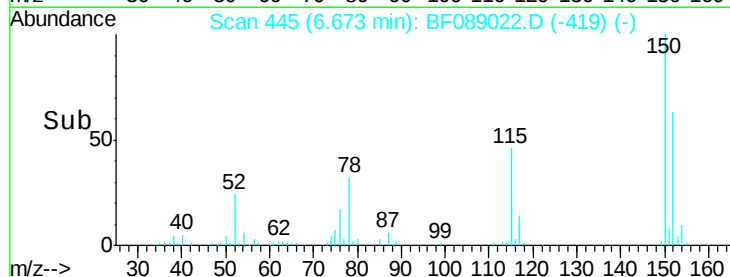
115 72.3 39.6 59.4#



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: 25.65 ng

RT: 5.27 min Scan# 322

Delta R.T. -0.00 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

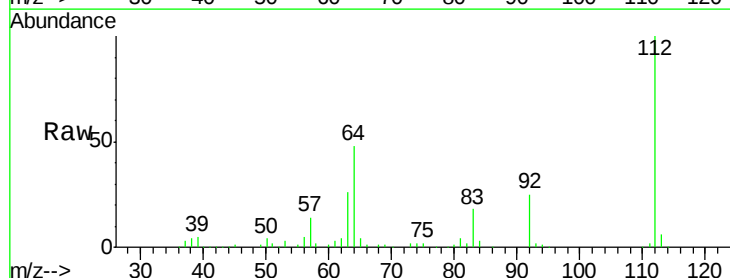
Tgt Ion:112 Resp: 116666

Ion Ratio Lower Upper

112 100

64 48.2 42.2 63.2

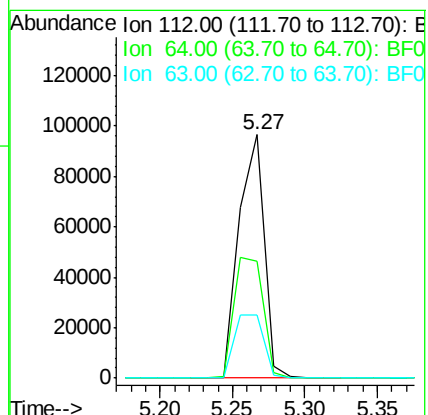
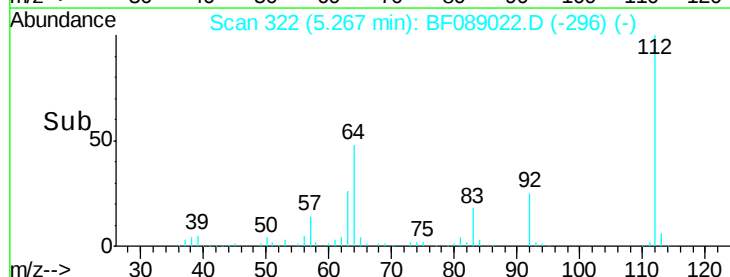
63 25.7 21.8 32.8



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: 22.99 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.01 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)

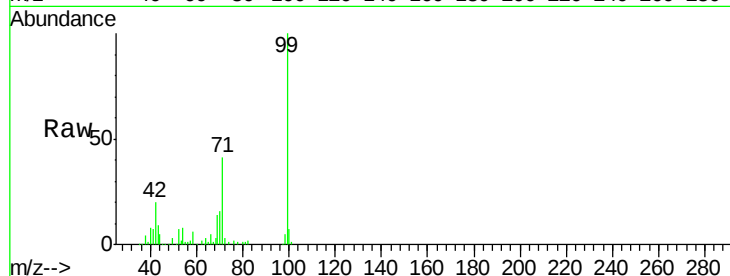
Tot Ion: 99 Resp: 135159

Ion Ratio Lower Upper

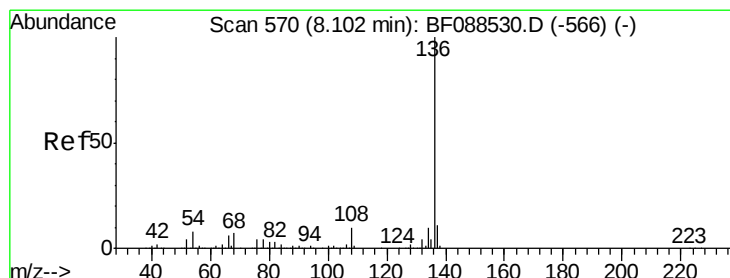
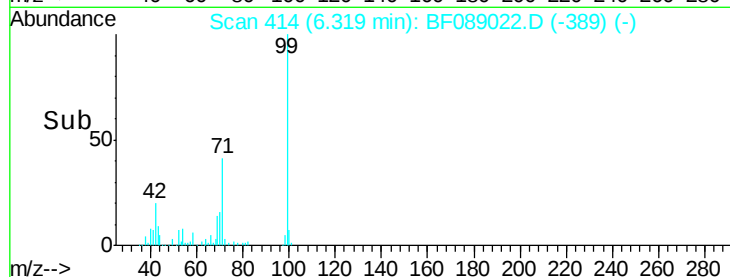
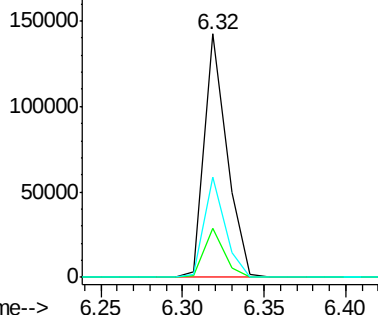
99 100

42 20.1 12.2 18.2#

71 40.9 23.4 35.0#



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: 20.00 ng

RT: 7.96 min Scan# 558

Delta R.T. -0.00 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

Tgt Ion: 136 Resp: 273656

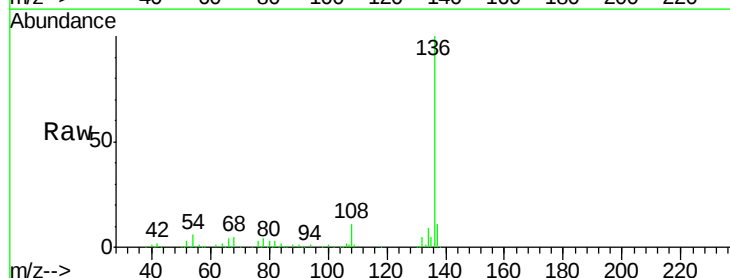
Ion Ratio Lower Upper

136 100

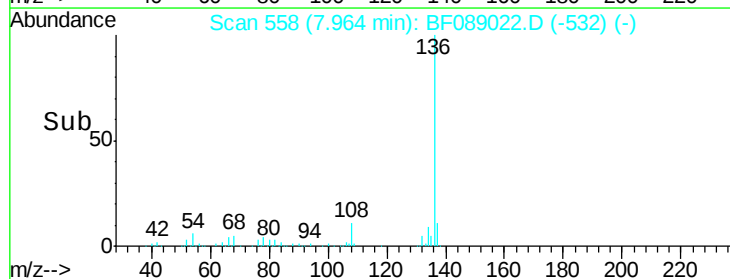
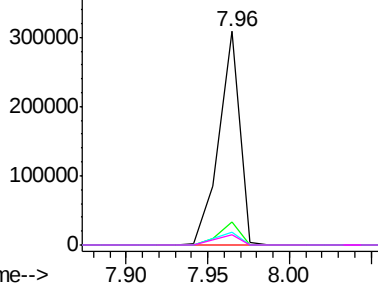
137 10.5 9.1 13.7

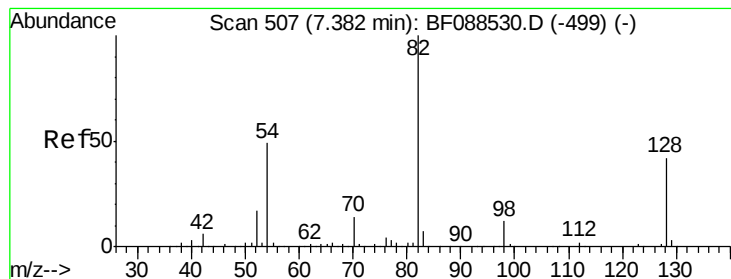
54 5.7 6.6 10.0#

68 4.7 5.1 7.7#



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





#23

Nitrobenzene-d5

Concen: 16.33 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.01 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)

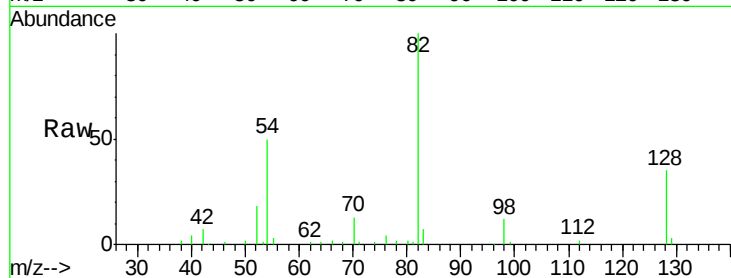
Tot Ion: 82 Resp: 85296

Ion Ratio Lower Upper

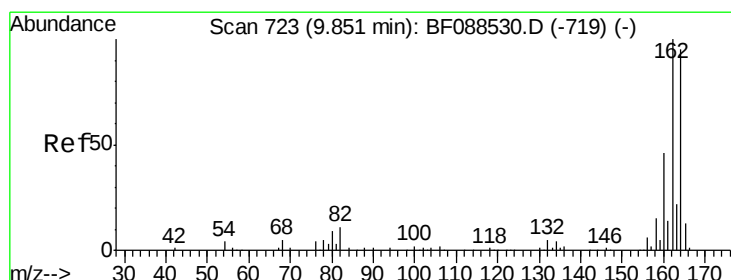
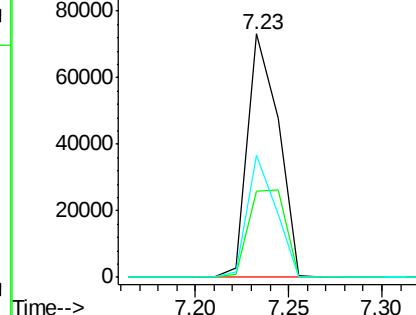
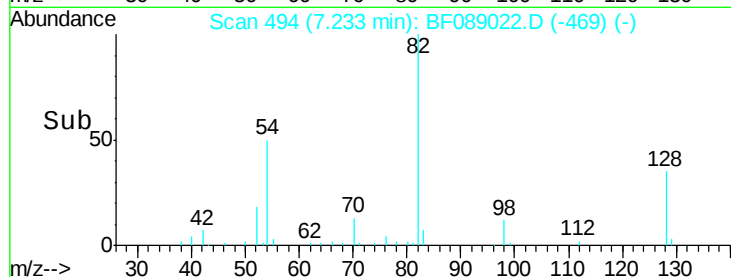
82 100

128 35.1 35.9 53.9#

54 50.4 40.9 61.3



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.71 min Scan# 711

Delta R.T. -0.00 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

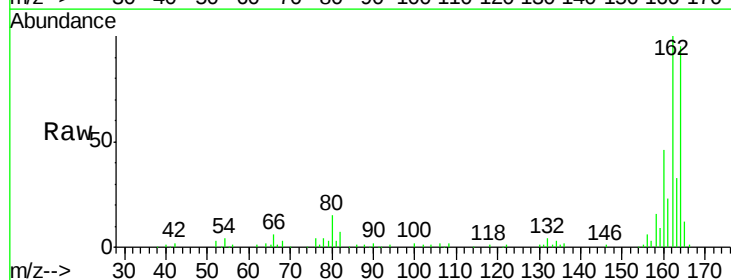
Tgt Ion:164 Resp: 102433

Ion Ratio Lower Upper

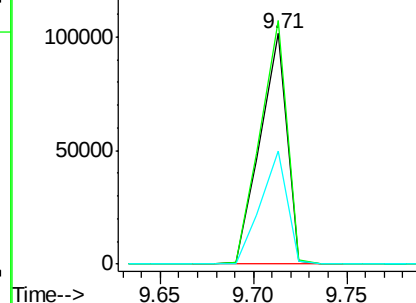
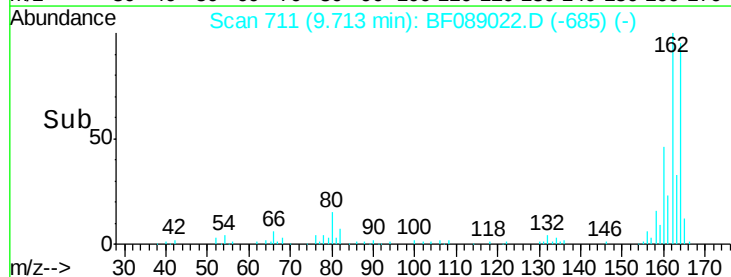
164 100

162 105.7 85.4 128.2

160 48.8 39.5 59.3



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

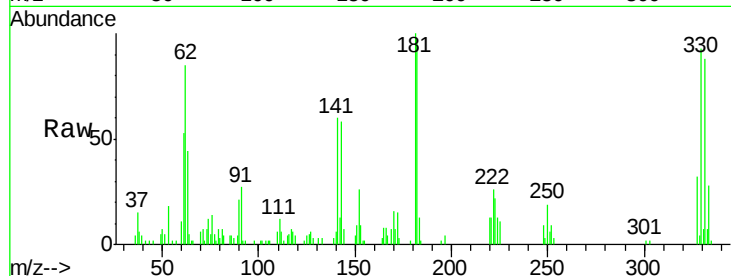




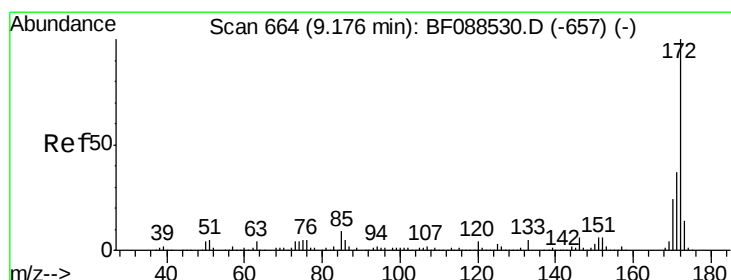
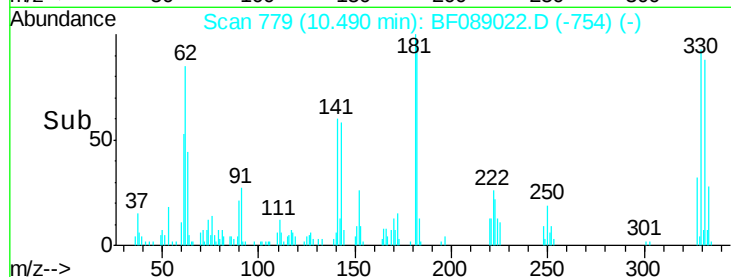
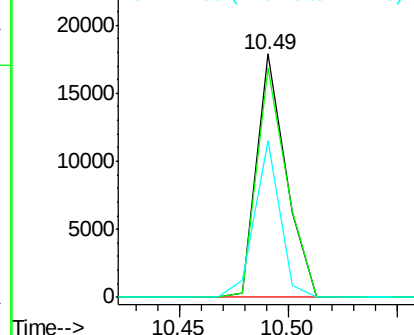
#41
 2,4,6-Tribromophenol
 Concen: 17.68 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.01 min
 Lab File: BF089022.D
 Acq: 15 Jul 2016 17:56

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB09(0-2ft)

Tot Ion:330 Resp: 16814
 Ion Ratio Lower Upper
 330 100
 332 96.1 0.0 0.0#
 141 55.7 0.0 0.0#

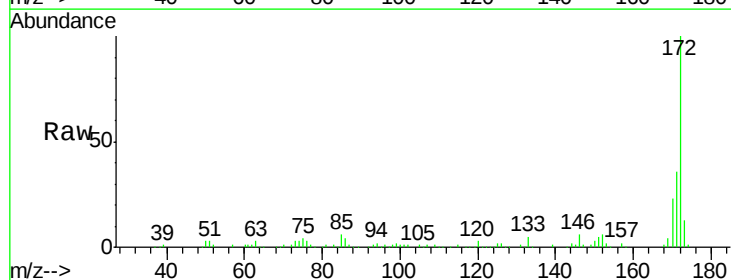


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

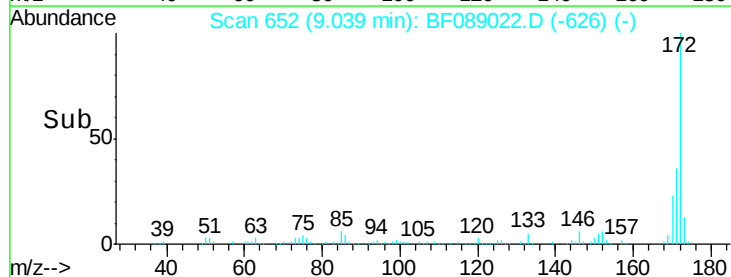
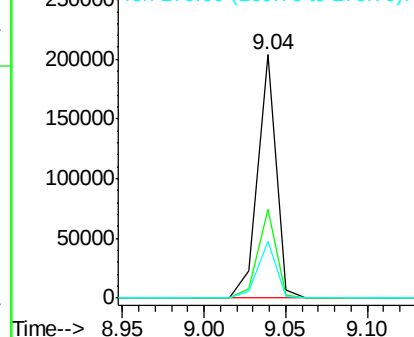


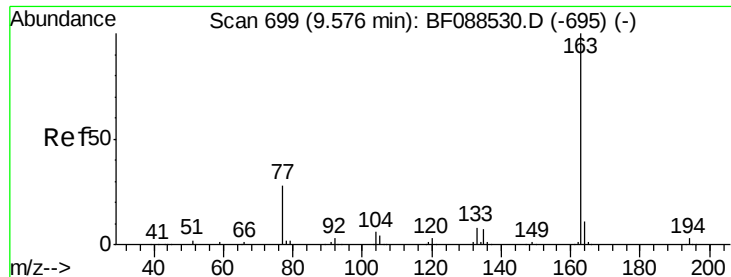
#44
 2-Fluorobiphenyl
 Concen: 24.83 ng
 RT: 9.04 min Scan# 652
 Delta R.T. -0.00 min
 Lab File: BF089022.D
 Acq: 15 Jul 2016 17:56

Tgt Ion:172 Resp: 161018
 Ion Ratio Lower Upper
 172 100
 171 36.4 28.6 43.0
 170 23.2 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





#49

Dimethylphthalate

Concen: 4.10 ng

RT: 9.44 min Scan# 687

Delta R.T. -0.01 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)

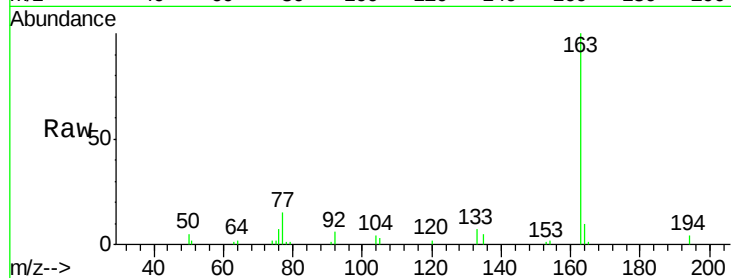
Tot Ion:163 Resp: 29889

Ion Ratio Lower Upper

163 100

194 3.9 2.8 4.2

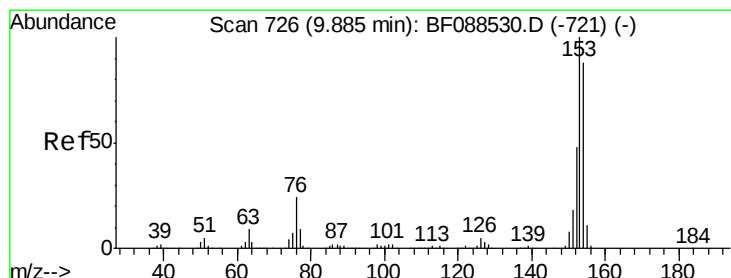
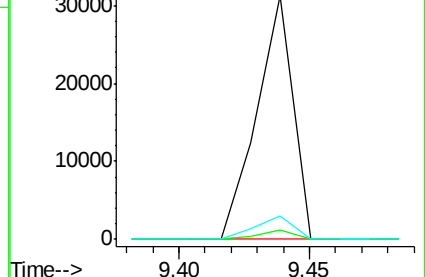
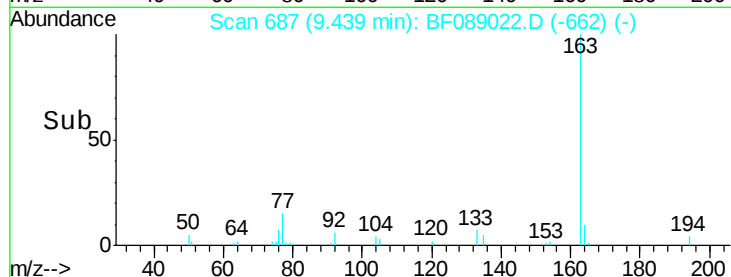
164 9.7 8.3 12.5



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



#51

Acenaphthene

Concen: 6.98 ng

RT: 9.74 min Scan# 713

Delta R.T. -0.01 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

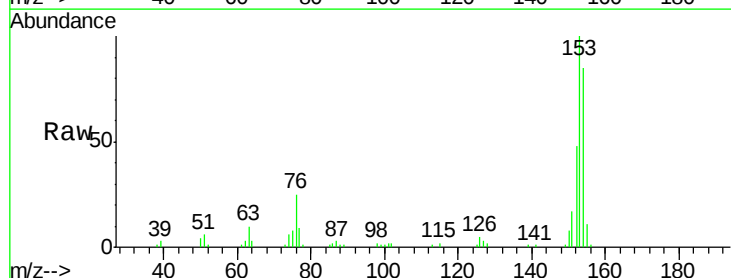
Tgt Ion:154 Resp: 45313

Ion Ratio Lower Upper

154 100

153 117.1 89.5 134.3

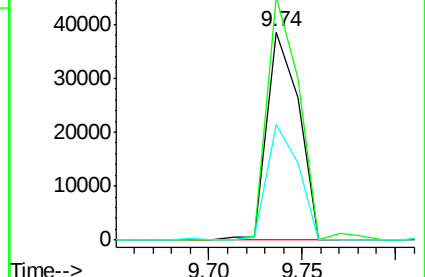
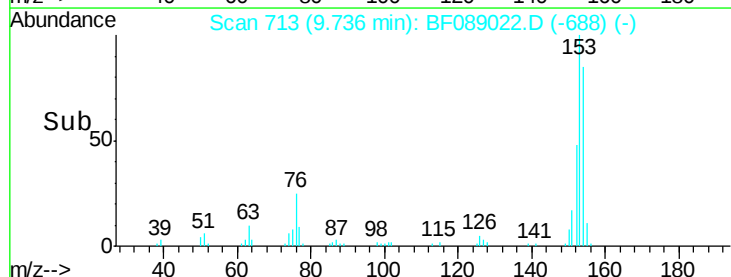
152 55.7 42.7 64.1

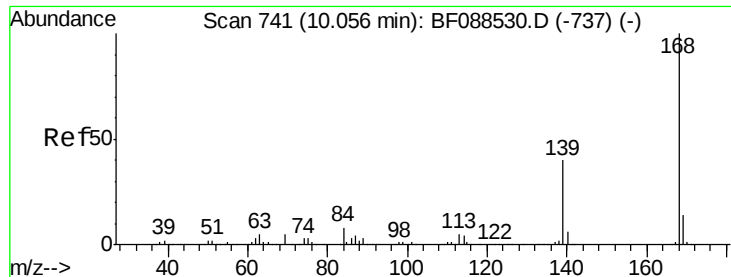


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

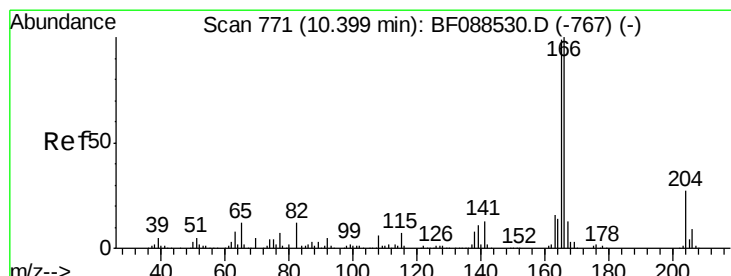
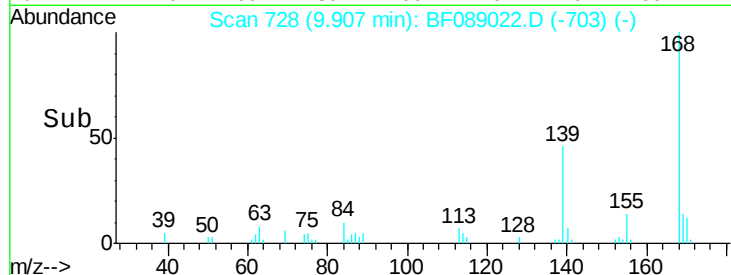
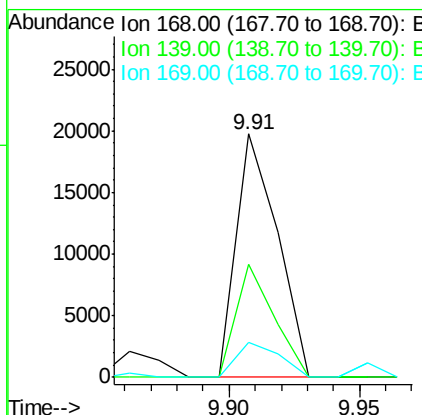
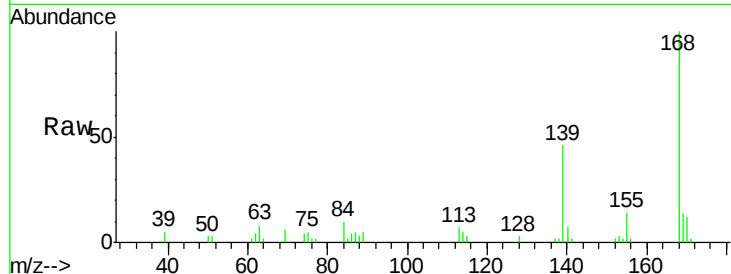




#54
Dibenzenofuran
Concen: 2.54 ng
RT: 9.91 min Scan# 728
Delta R.T. -0.01 min
Lab File: BF089022.D
Acq: 15 Jul 2016 17:56

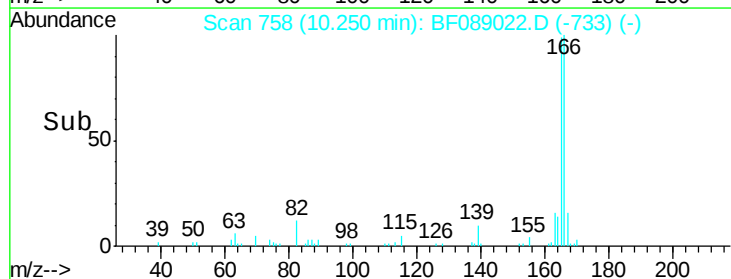
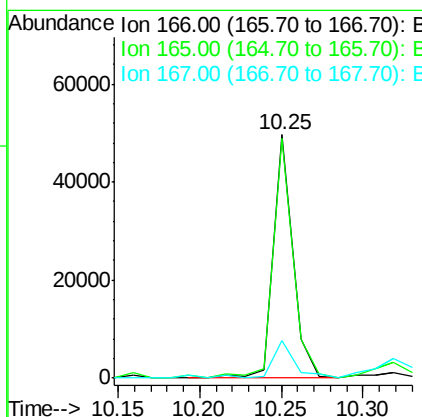
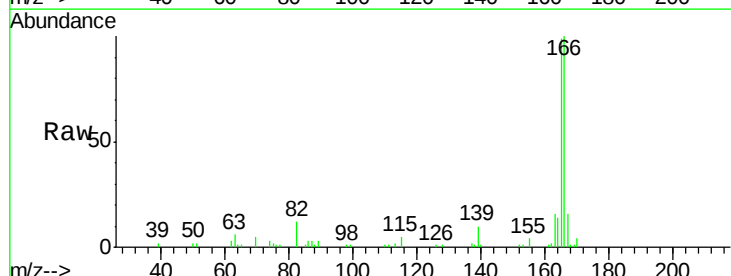
Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB09(0-2ft)

Tot Ion:168 Resp: 21627
Ion Ratio Lower Upper
168 100
139 46.4 26.4 39.6#
169 14.4 10.4 15.6



#57
Fluorene
Concen: 6.35 ng
RT: 10.25 min Scan# 758
Delta R.T. -0.01 min
Lab File: BF089022.D
Acq: 15 Jul 2016 17:56

Tgt Ion:166 Resp: 41583
Ion Ratio Lower Upper
166 100
165 98.5 77.8 116.8
167 15.6 11.2 16.8

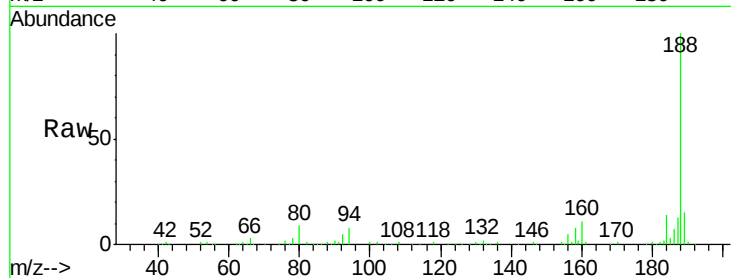




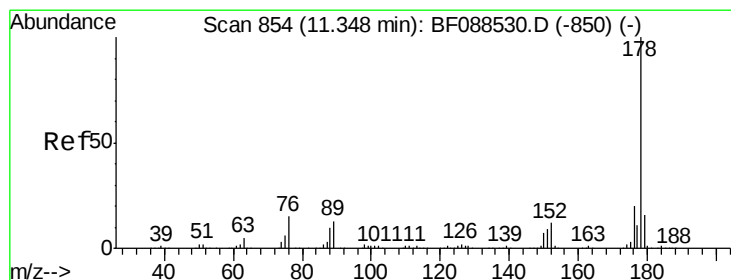
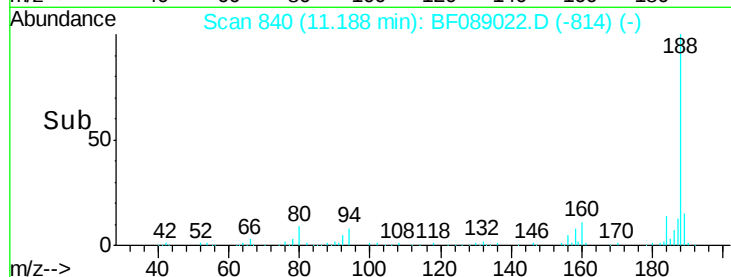
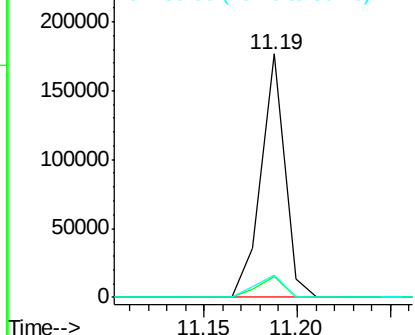
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 840
Delta R.T. -0.00 min
Lab File: BF089022.D
Acq: 15 Jul 2016 17:56

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB09(0-2ft)

Tot Ion:188 Resp: 155452
Ion Ratio Lower Upper
188 100
94 8.4 9.0 13.6#
80 9.3 10.0 15.0#

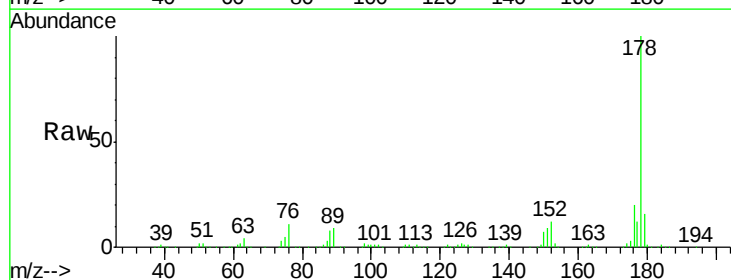


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

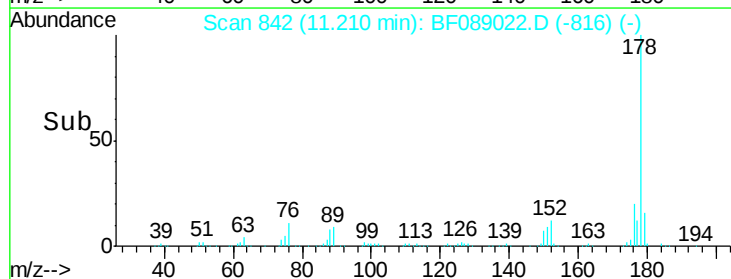
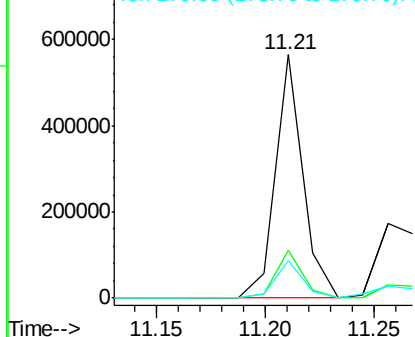


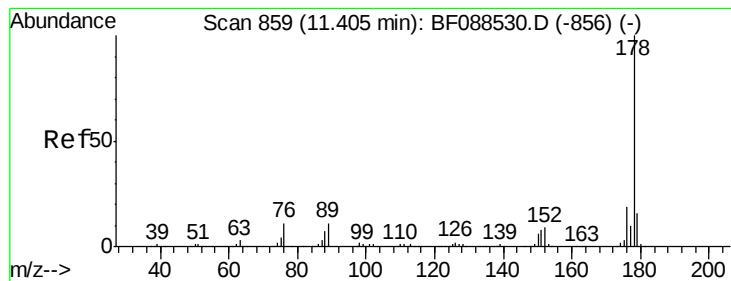
#70
Phenanthrene
Concen: 58.96 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.00 min
Lab File: BF089022.D
Acq: 15 Jul 2016 17:56

Tgt Ion:178 Resp: 501064
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.6
179 15.7 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

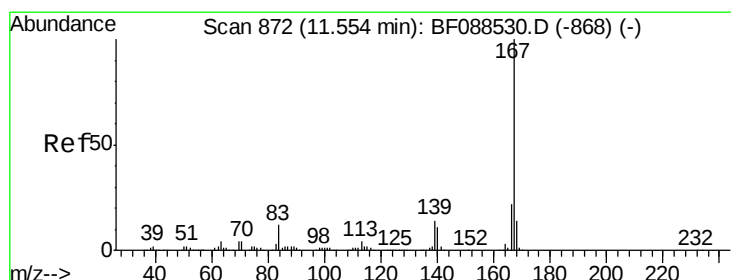
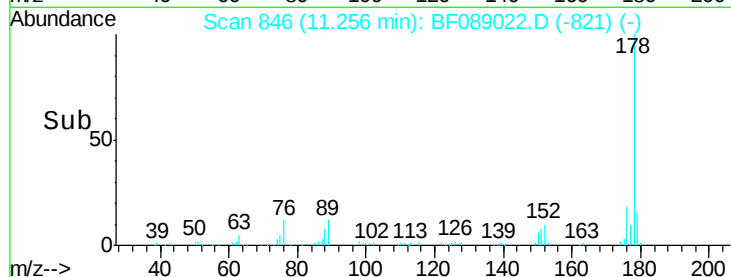
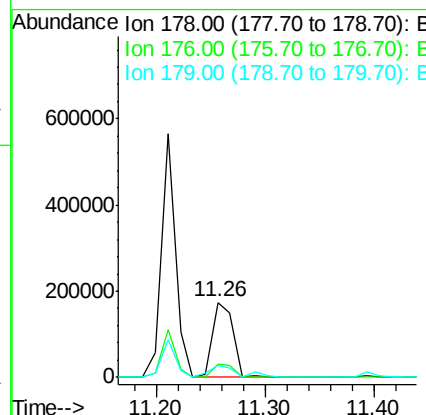
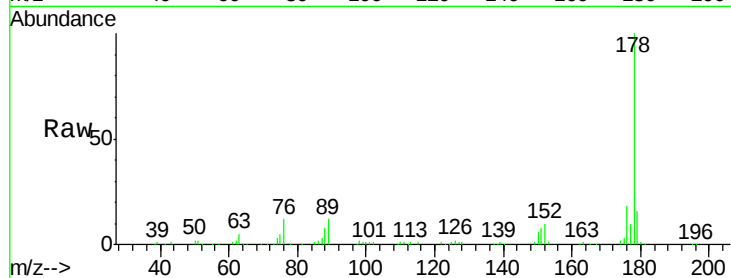




#71
 Anthracene
 Concen: 27.34 ng
 RT: 11.26 min Scan# 846
 Delta R.T. -0.01 min
 Lab File: BF089022.D
 Acq: 15 Jul 2016 17:56

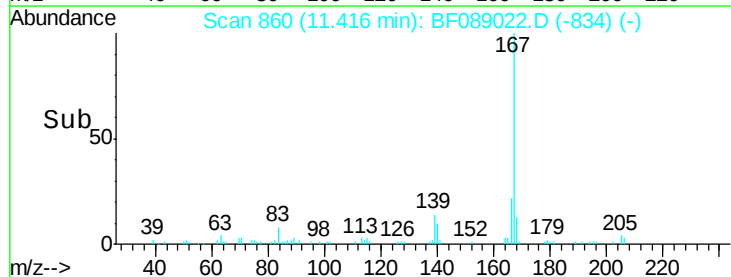
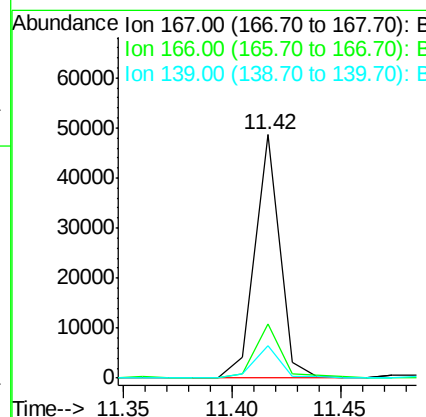
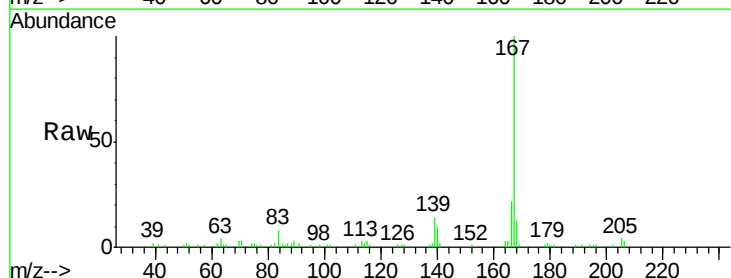
Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB09(0-2ft)

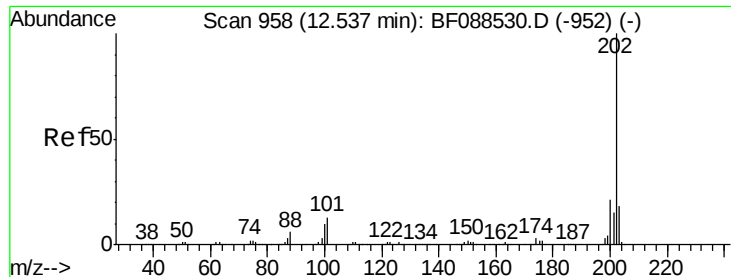
Tot Ion:178 Resp: 231045
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.6 23.4
 179 16.0 12.8 19.2



#72
 Carbazole
 Concen: 4.85 ng
 RT: 11.42 min Scan# 860
 Delta R.T. -0.00 min
 Lab File: BF089022.D
 Acq: 15 Jul 2016 17:56

Tgt Ion:167 Resp: 38596
 Ion Ratio Lower Upper
 167 100
 166 22.5 17.8 26.6
 139 13.6 11.2 16.8





#74

Fluoranthene

Concen: 98.00 ng

RT: 12.40 min Scan# 946

Delta R.T. 0.01 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)

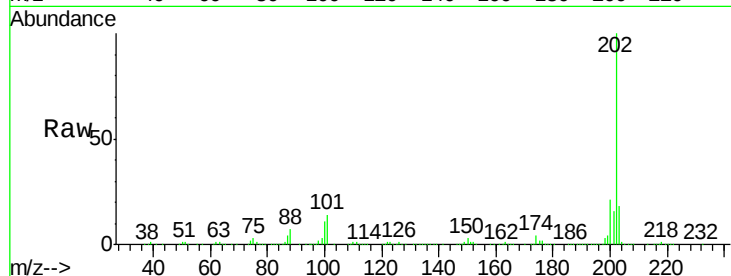
Tot Ion:202 Resp: 844252

Ion Ratio Lower Upper

202 100

101 14.0 0.0 33.1

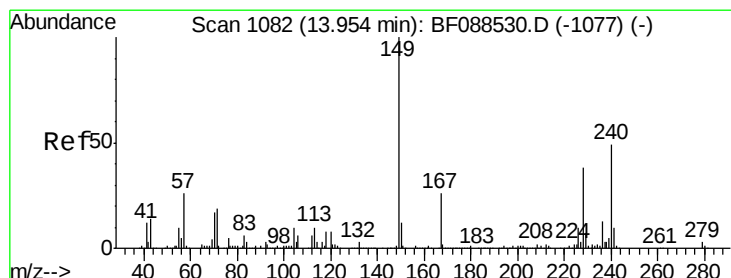
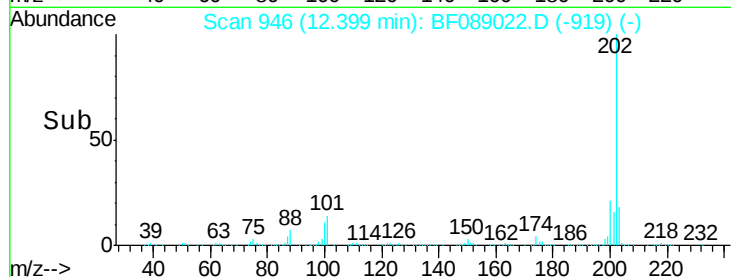
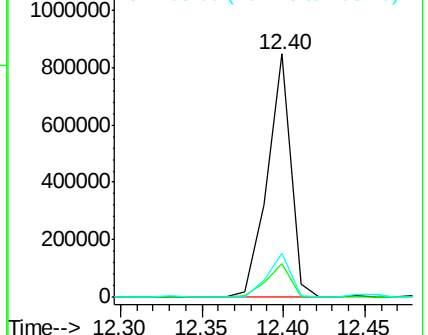
203 17.9 0.0 38.1



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: 13.82 min Scan# 1070

Delta R.T. -0.00 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

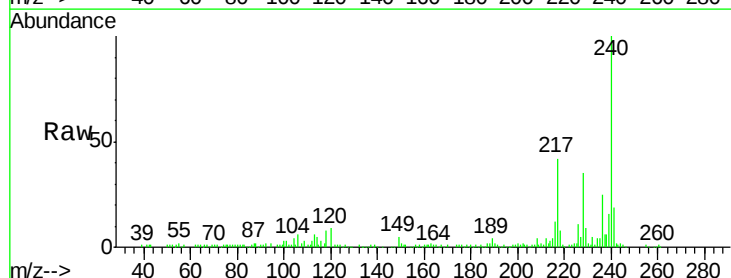
Tgt Ion:240 Resp: 120535

Ion Ratio Lower Upper

240 100

120 8.5 6.8 10.2

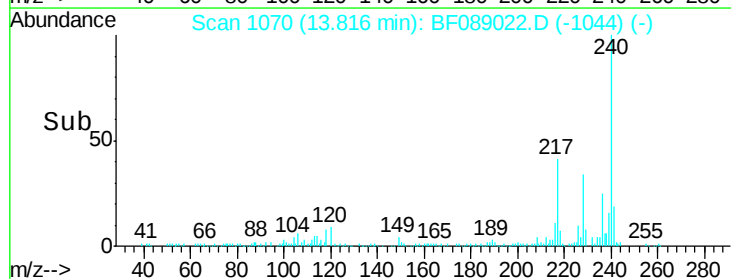
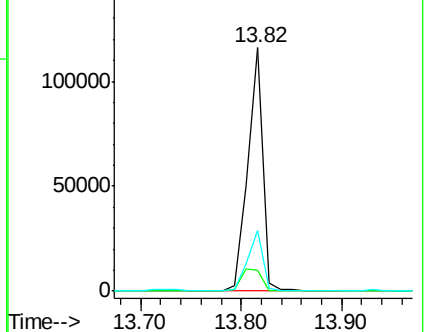
236 25.0 20.2 30.2

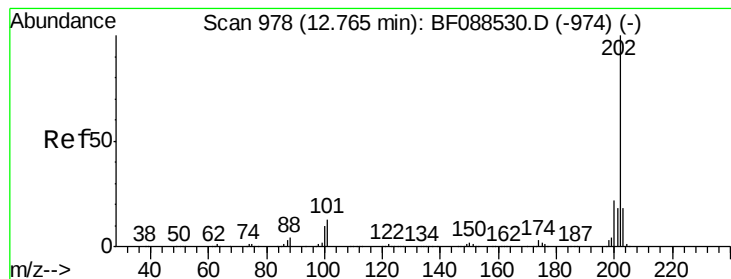


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 82.52 ng

RT: 12.63 min Scan# 966

Delta R.T. 0.01 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

Instrument :

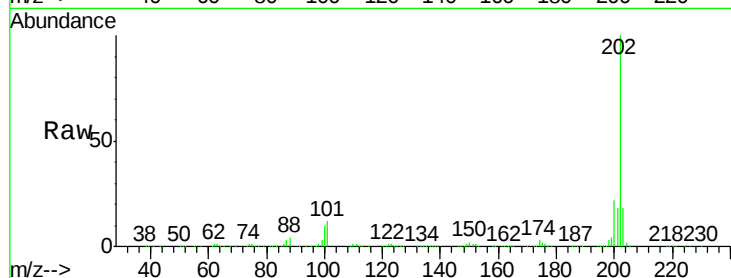
BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)

Tot Ion:202 Resp: 843397

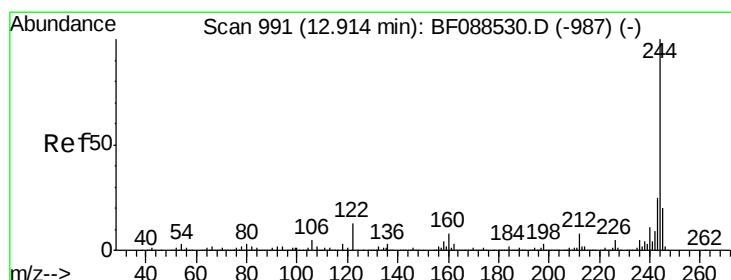
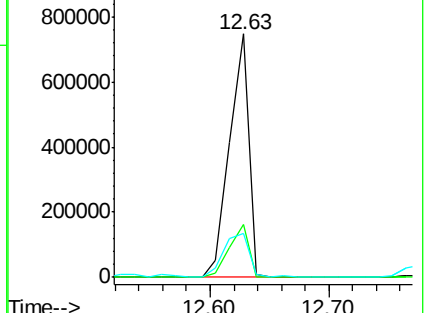
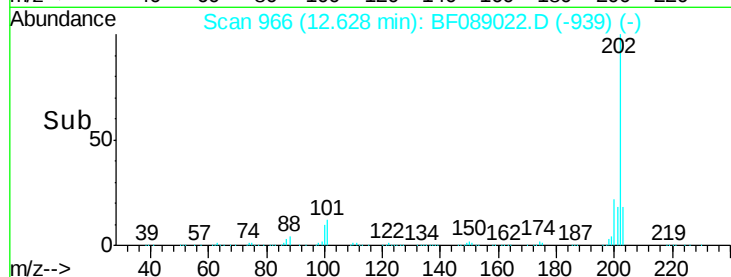
Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.4	26.2
203	18.0	14.5	21.7



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: 16.41 ng

RT: 12.76 min Scan# 978

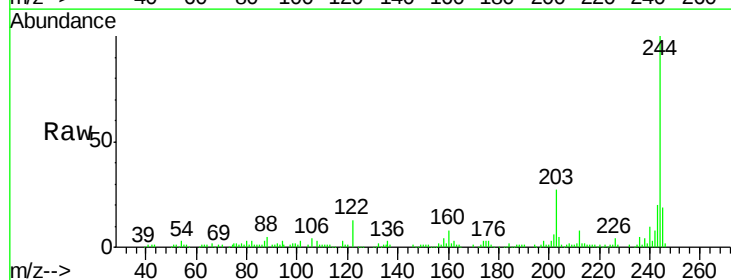
Delta R.T. -0.01 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

Tgt Ion:244 Resp: 88782

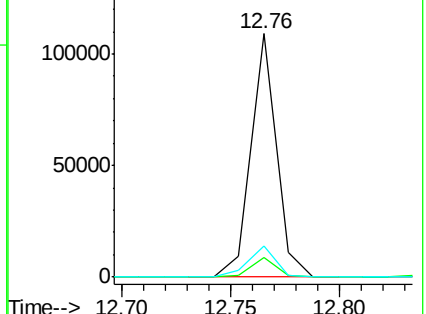
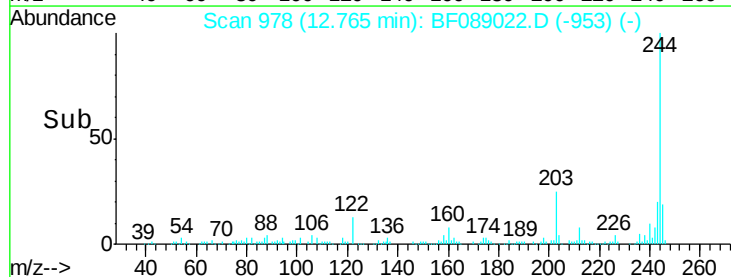
Ion	Ratio	Lower	Upper
244	100		
212	7.9	6.0	9.0
122	12.7	11.2	16.8

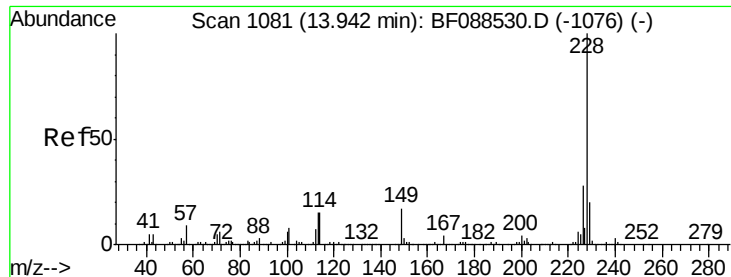


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 42.96 ng

RT: 13.80 min Scan# 1069

Delta R.T. -0.00 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)

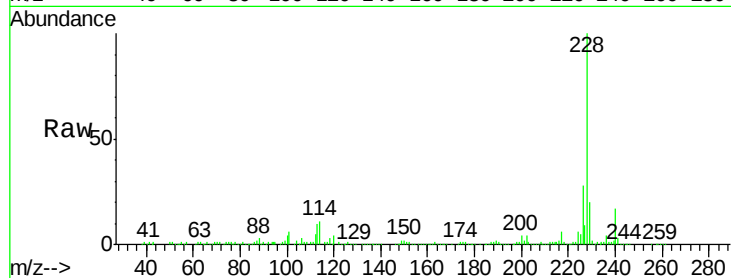
Tot Ion:228 Resp: 333423

Ion Ratio Lower Upper

228 100

226 28.0 22.3 33.5

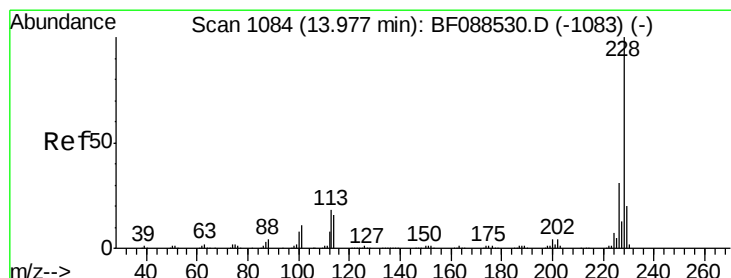
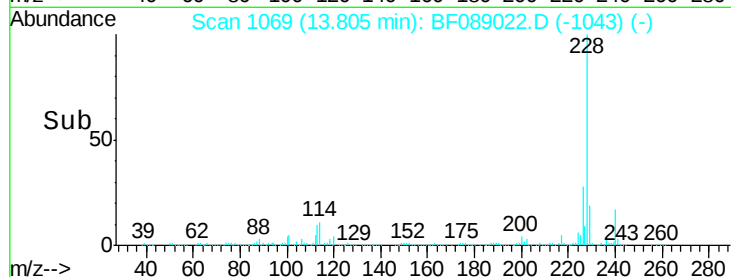
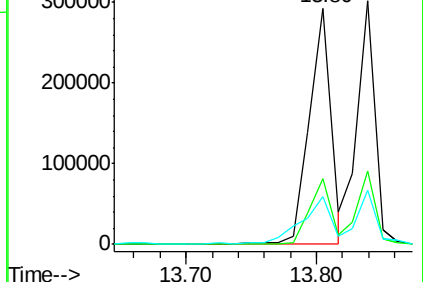
229 20.0 16.0 24.0



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: 36.92 ng m

RT: 13.84 min Scan# 1072

Delta R.T. -0.00 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

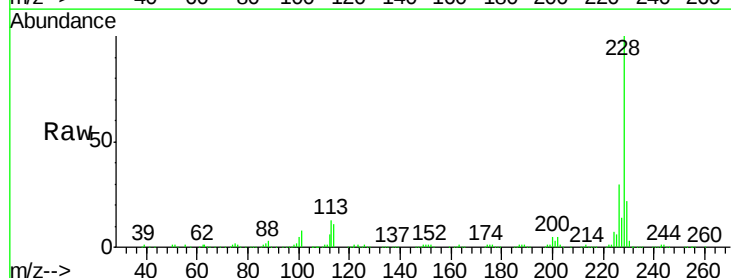
Tgt Ion:228 Resp: 283499

Ion Ratio Lower Upper

228 100

226 30.1 25.4 38.2

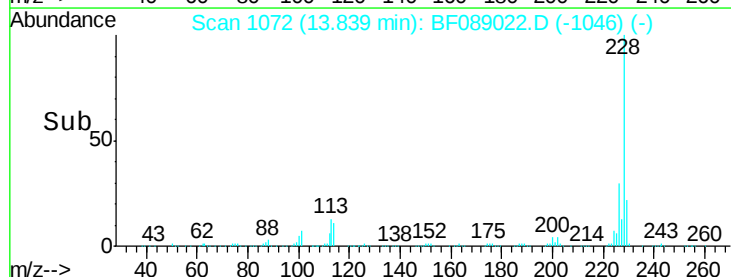
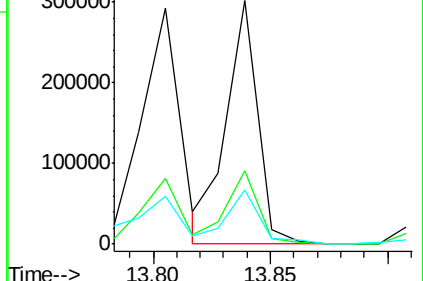
229 22.4 16.3 24.5

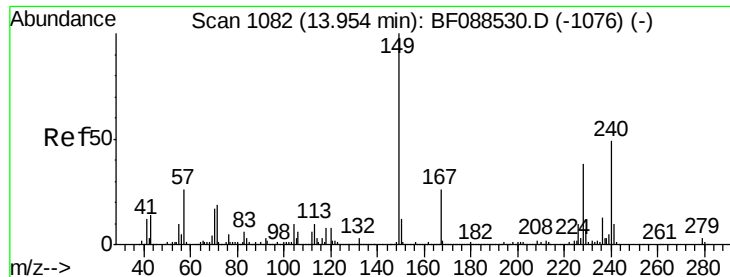


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

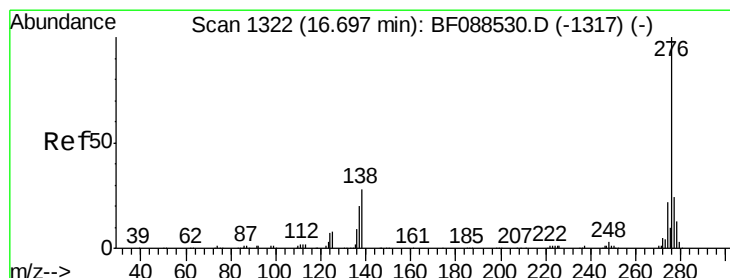
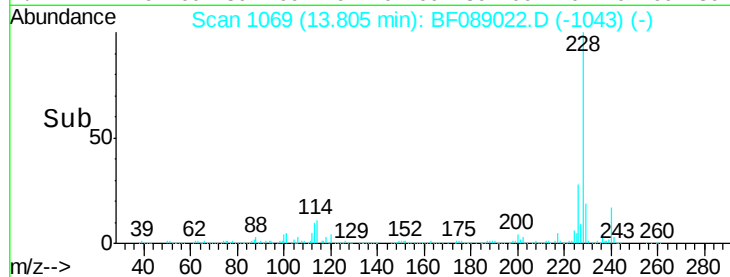
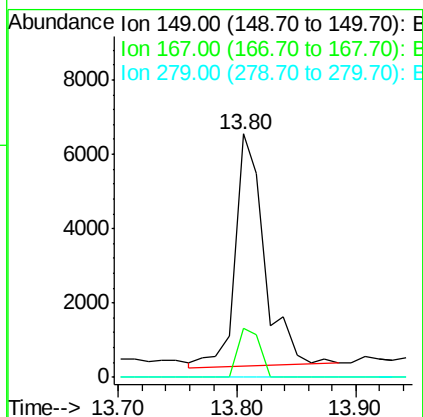
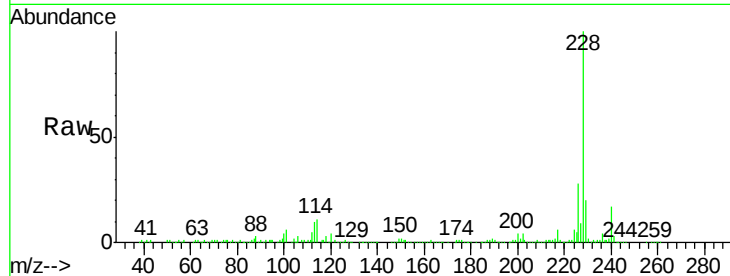




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.06 ng
 RT: 13.80 min Scan# 1069
 Delta R.T. -0.00 min
 Lab File: BF089022.D
 Acq: 15 Jul 2016 17:56

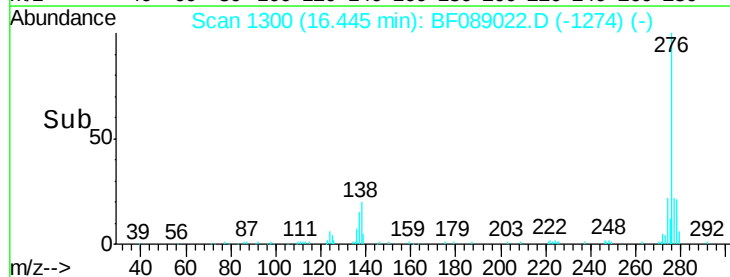
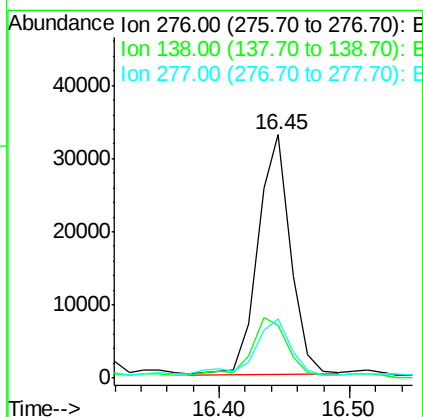
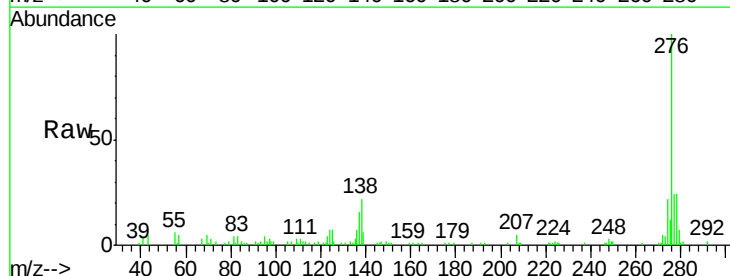
Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB09(0-2ft)

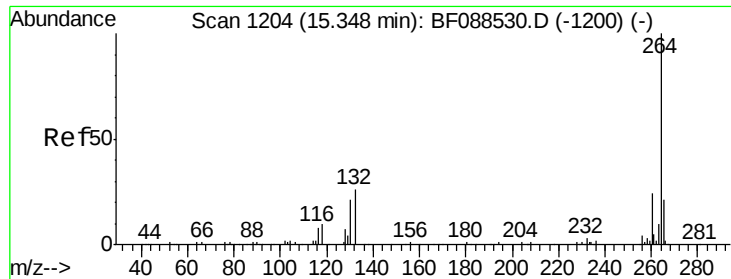
Tot Ion:149 Resp: 10736
 Ion Ratio Lower Upper
 149 100
 167 20.0 20.5 30.7#
 279 0.0 2.0 3.0#



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.71 ng
 RT: 16.45 min Scan# 1300
 Delta R.T. -0.00 min
 Lab File: BF089022.D
 Acq: 15 Jul 2016 17:56

Tgt Ion:276 Resp: 57366
 Ion Ratio Lower Upper
 276 100
 138 31.0 0.0 0.0#
 277 30.5 0.0 0.0#

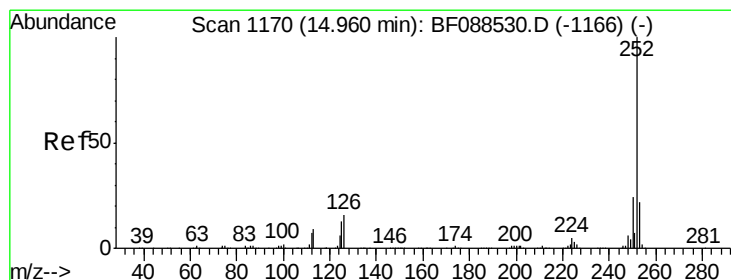
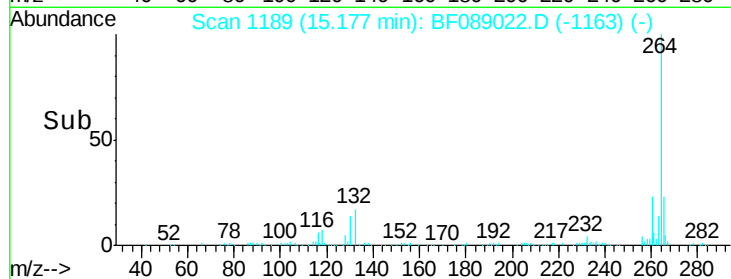
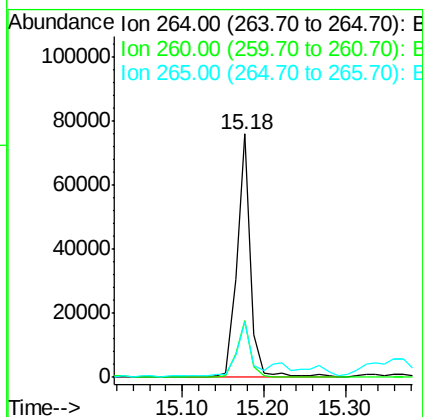
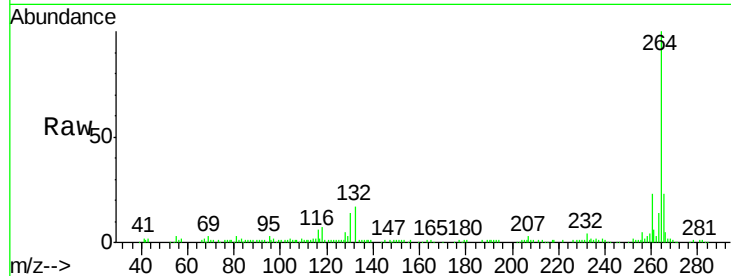




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.18 min Scan# 1189
Delta R.T. -0.00 min
Lab File: BF089022.D
Acq: 15 Jul 2016 17:56

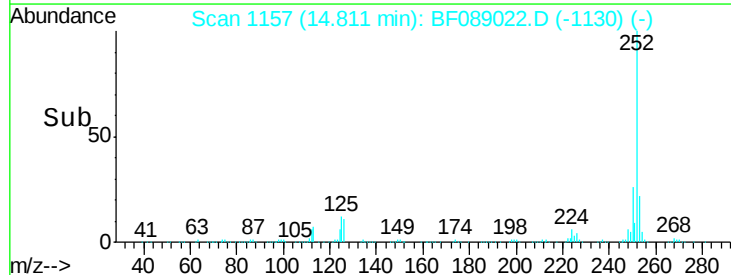
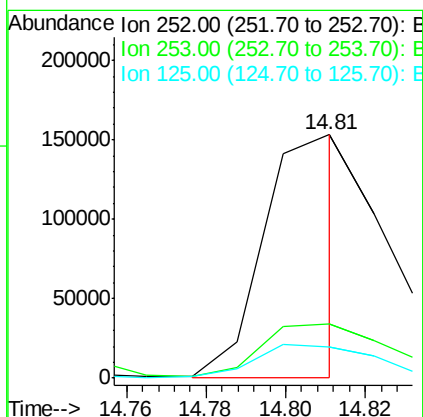
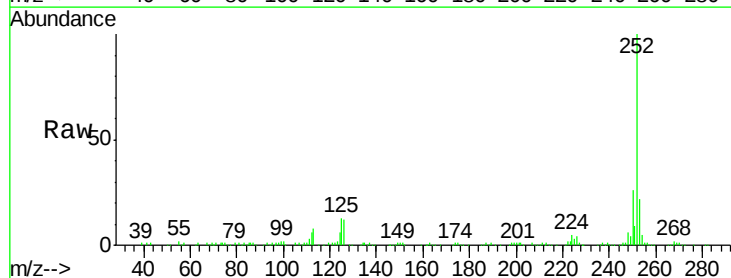
Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB09(0-2ft)

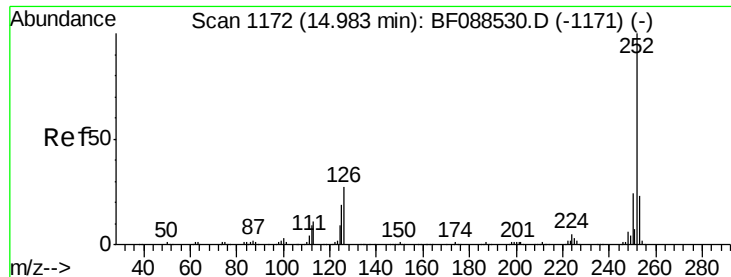
Tot Ion:264 Resp: 88574
Ion Ratio Lower Upper
264 100
260 23.5 19.2 28.8
265 22.9 16.9 25.3



#87
Benzo(b)fluoranthene
Concen: 39.26 ng m
RT: 14.81 min Scan# 1157
Delta R.T. 0.01 min
Lab File: BF089022.D
Acq: 15 Jul 2016 17:56

Tgt Ion:252 Resp: 218137
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.2
125 12.5 7.1 10.7#





#88

Benzo(k)fluoranthene

Concen: 21.57 ng

RT: 14.81 min Scan# 1157

Delta R.T. -0.02 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)

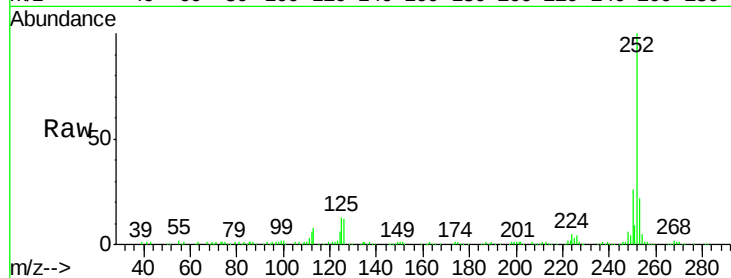
Tot Ion:252 Resp: 104355

Ion Ratio Lower Upper

252 100

253 22.4 18.0 27.0

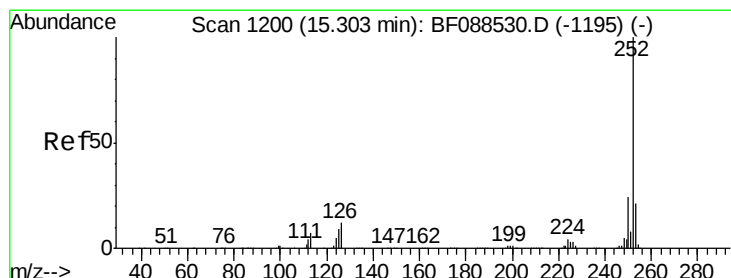
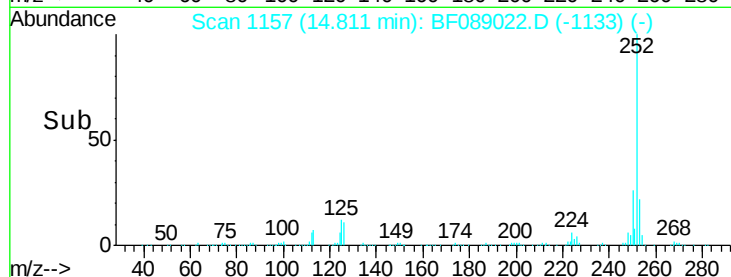
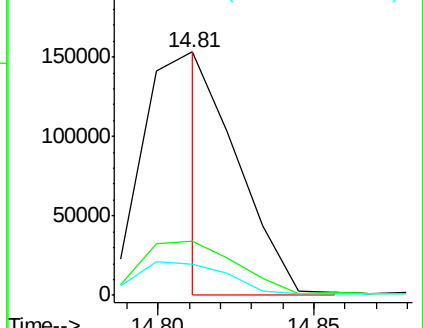
125 12.5 11.2 16.8



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: 30.68 ng

RT: 15.12 min Scan# 1184

Delta R.T. -0.00 min

Lab File: BF089022.D

Acq: 15 Jul 2016 17:56

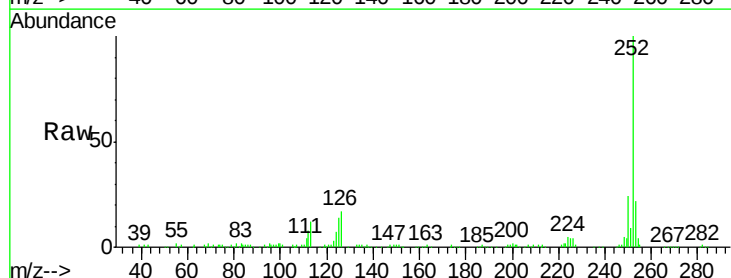
Tgt Ion:252 Resp: 144327

Ion Ratio Lower Upper

252 100

253 22.2 17.9 26.9

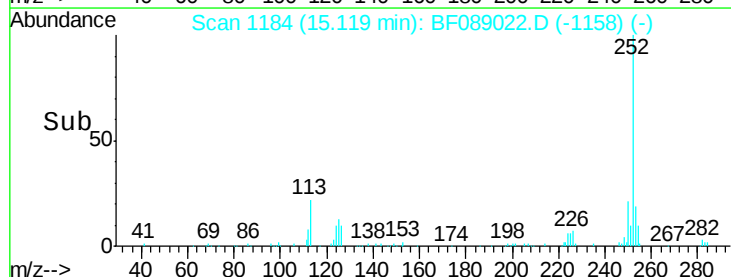
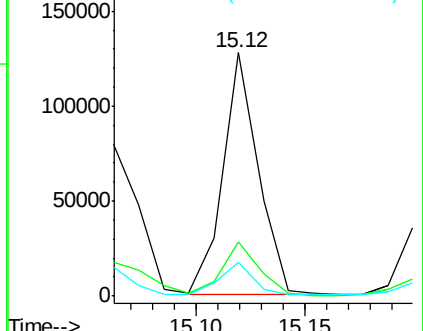
125 13.7 12.5 18.7

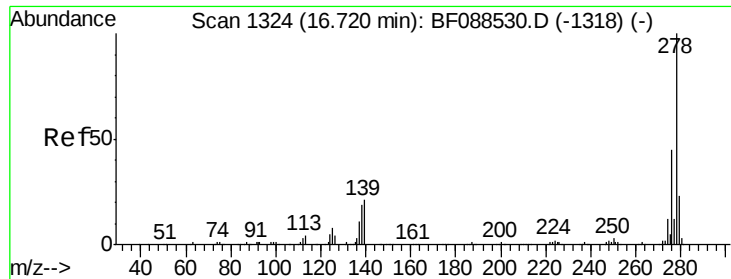


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



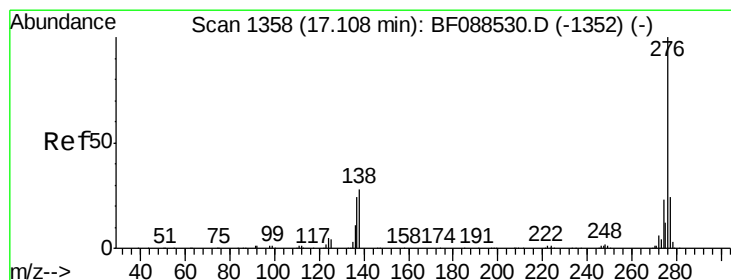
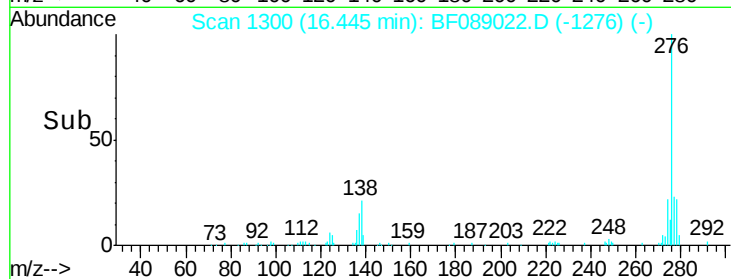
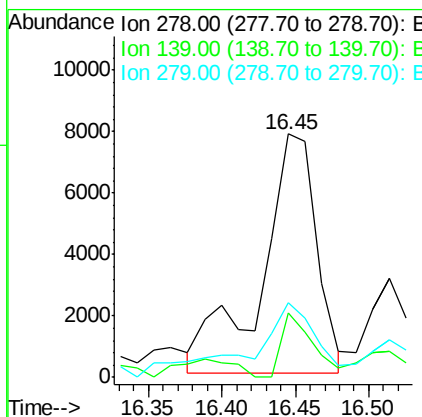
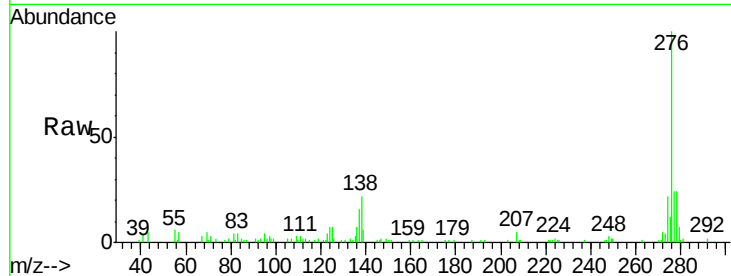


#90
Dibenzo(a,h)anthracene
Concen: 5.28 ng/mL
RT: 16.45 min Scan# 1300
Delta R.T. -0.02 min
Lab File: BF089022.D
Acq: 15 Jul 2016 17:56

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB09(0-2ft)

Tot Ion:278 Resp: 20735

Ion	Ratio	Lower	Upper
278	100		
139	26.7	15.7	23.5#
279	30.6	19.4	29.2#



#91
Benzo(g,h,i)perylene
Concen: 12.66 ng/mL
RT: 16.82 min Scan# 1333
Delta R.T. -0.01 min
Lab File: BF089022.D
Acq: 15 Jul 2016 17:56

Tgt Ion:276 Resp: 51466

Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.9	28.3
138	26.4	21.4	32.2

