

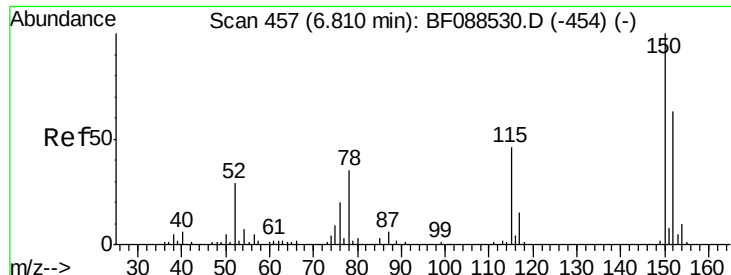
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071516\
 Data File : BF089020.D
 Acq On : 15 Jul 2016 16:56
 Operator : UM/SJ
 Sample : H3972-03 2X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB08(0-2ft)

Quant Time: Jul 15 23:40:10 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 15 23:12:46 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	64861	20.00	ng	0.00
21) Naphthalene-d8	7.96	136	262328	20.00	ng	0.00
38) Acenaphthene-d10	9.71	164	100520	20.00	ng	0.00
63) Phenanthrene-d10	11.19	188	150855	20.00	ng	0.00
75) Chrysene-d12	13.81	240	121141	20.00	ng	-0.01
86) Perylene-d12	15.18	264	93755	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	268169	61.96	ng	0.00
7) Phenol-d6	6.33	99	392119	70.12	ng	0.00
23) Nitrobenzene-d5	7.24	82	237784	47.50	ng	0.00
41) 2,4,6-Tribromophenol	10.49	330	41186	44.12	ng	-0.01
44) 2-Fluorobiphenyl	9.04	172	310908	48.86	ng	0.00
78) Terphenyl-d14	12.77	244	160005	29.42	ng	-0.01
Target Compounds						Qvalue
48) Acenaphthylene	9.56	152	24579	2.36	ng	99
49) Dimethylphthalate	9.44	163	68403	9.55	ng	99
70) Phenanthrene	11.21	178	35012	4.25	ng	98
71) Anthracene	11.26	178	18096	2.21	ng	96
74) Fluoranthene	12.39	202	62830	7.52	ng	96
77) Pyrene	12.62	202	68487	6.67	ng	98
80) Benzo(a)anthracene	13.79	228	35206m	4.51	ng	
82) Chrysene	13.83	228	36931m	4.79	ng	
83) Bis(2-ethylhexyl)phthalate	13.81	149	35088	6.71	ng	97
85) Indeno(1,2,3-cd)pyrene	16.43	276	23100	3.89	ng	# 100
87) Benzo(b)fluoranthene	14.80	252	47933m	8.15	ng	
88) Benzo(k)fluoranthene	14.81	252	12744m	2.49	ng	
89) Benzo(a)pyrene	15.12	252	36345m	7.30	ng	
90) Dibenzo(a,h)anthracene	16.45	278	8852	2.13	ng	# 84
91) Benzo(a,h,i)perylene	16.82	276	23799	5.53	ng	98

(#) = 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. 0.00 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB08(0-2ft)

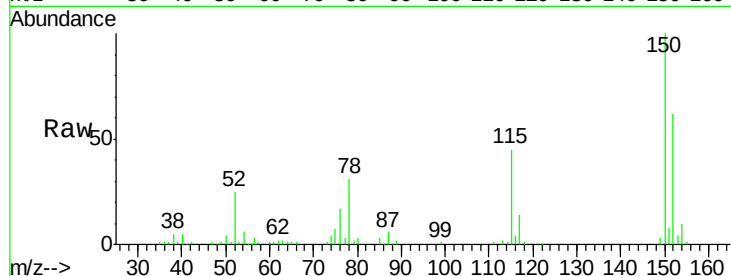
Tot Ion:152 Resp: 64861

Ion Ratio Lower Upper

152 100

150 160.6 123.8 185.6

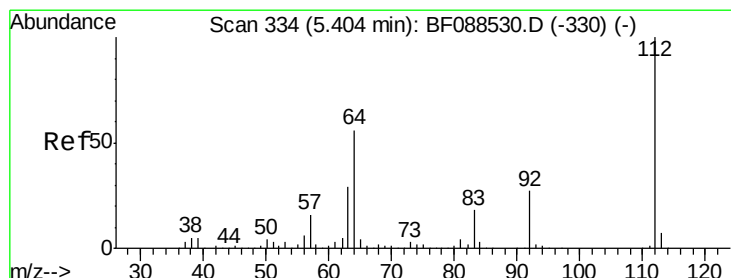
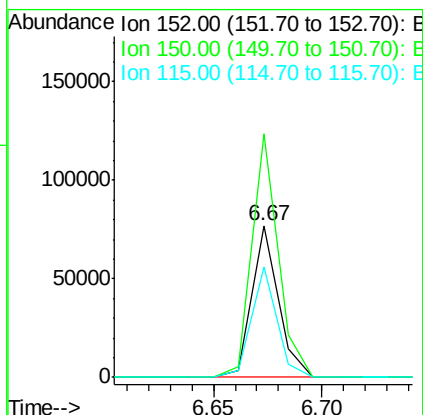
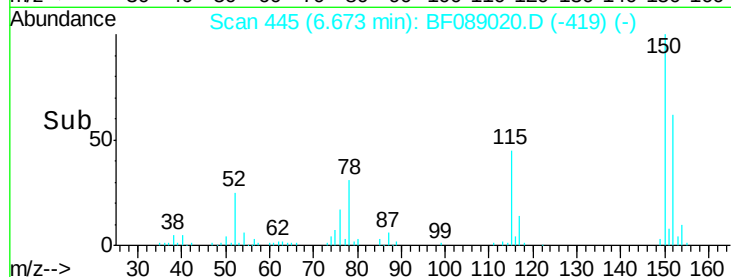
115 72.8 39.6 59.4#



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: 61.96 ng

RT: 5.27 min Scan# 322

Delta R.T. 0.00 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

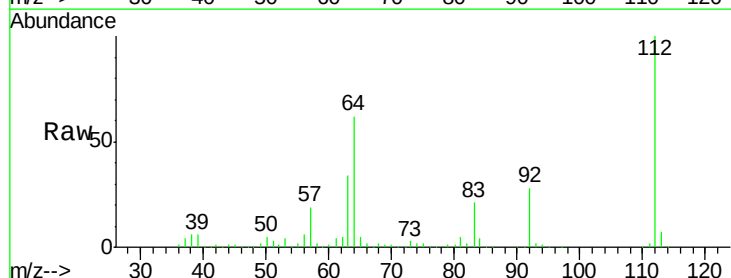
Tgt Ion:112 Resp: 268169

Ion Ratio Lower Upper

112 100

64 62.5 42.2 63.2

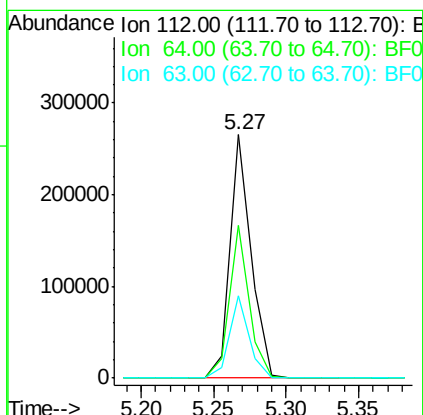
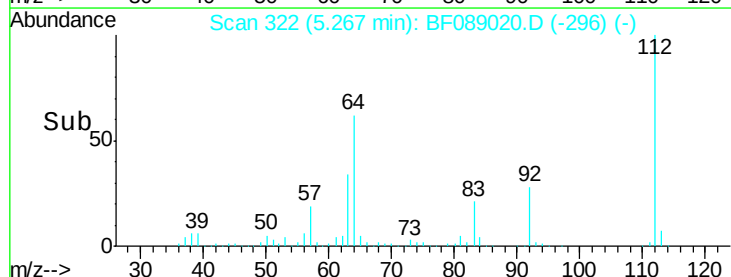
63 33.8 21.8 32.8#

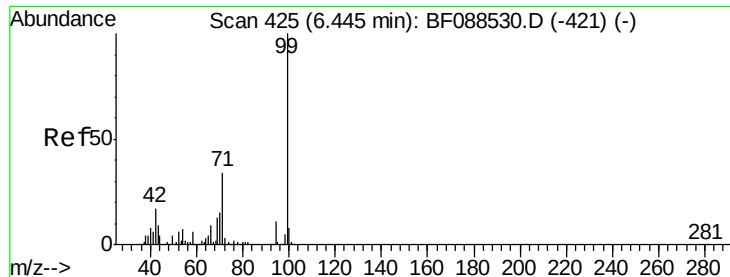


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 70.12 ng

RT: 6.33 min Scan# 415

Delta R.T. 0.00 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB08(0-2ft)

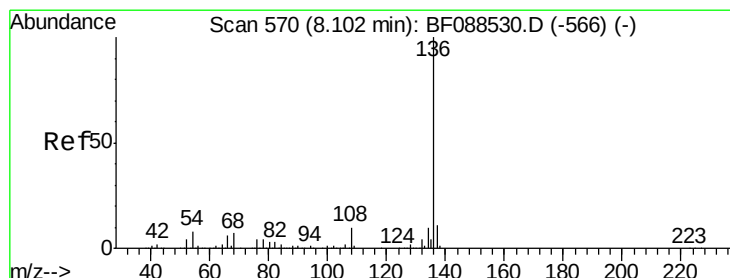
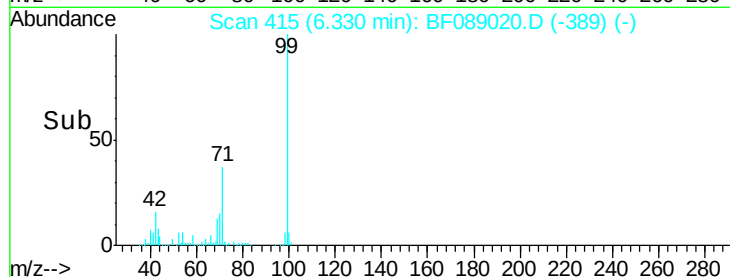
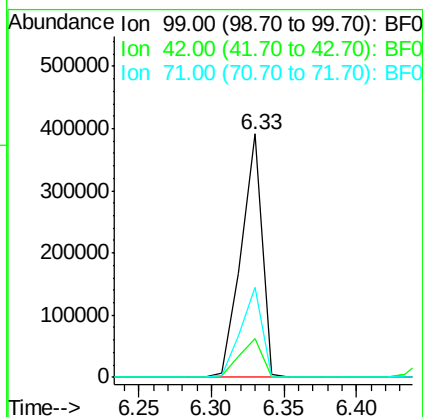
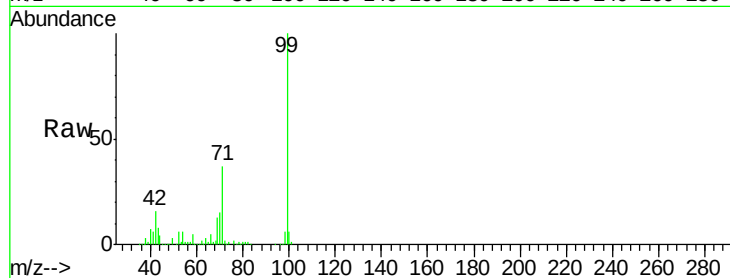
Tot Ion: 99 Resp: 392119

Ion Ratio Lower Upper

99 100

42 16.2 12.2 18.2

71 36.7 23.4 35.0#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 558

Delta R.T. 0.00 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

Tgt Ion: 136 Resp: 262328

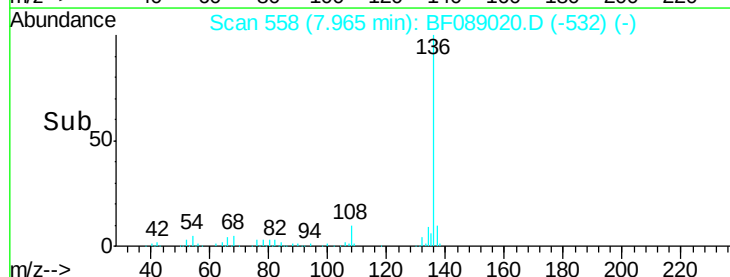
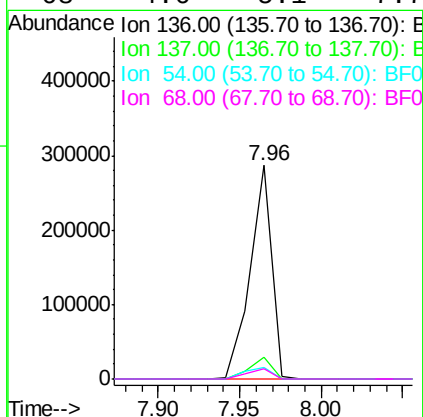
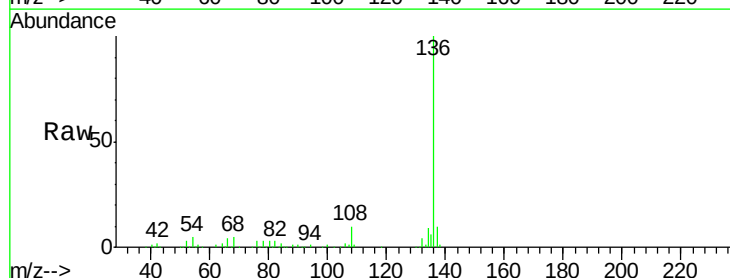
Ion Ratio Lower Upper

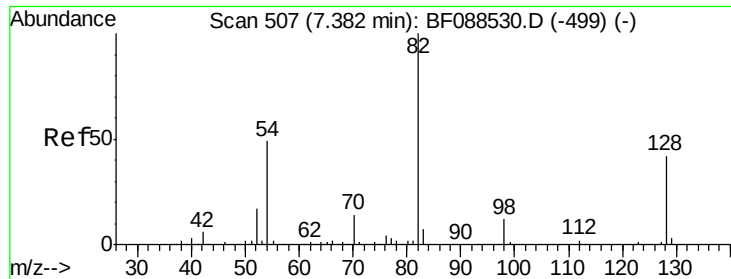
136 100

137 10.3 9.1 13.7

54 5.3 6.6 10.0#

68 4.6 5.1 7.7#





#23

Nitrobenzene-d5

Concen: 47.50 ng

RT: 7.24 min Scan# 495

Delta R.T. 0.00 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB08(0-2ft)

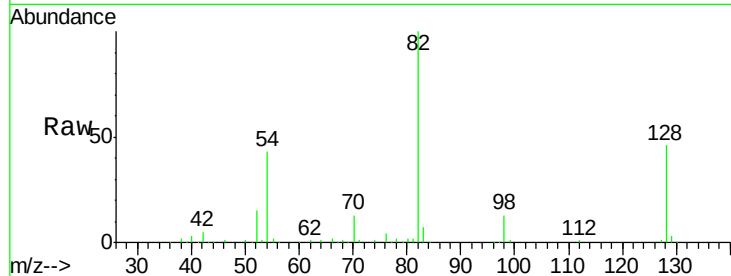
Tot Ion: 82 Resp: 237784

Ion Ratio Lower Upper

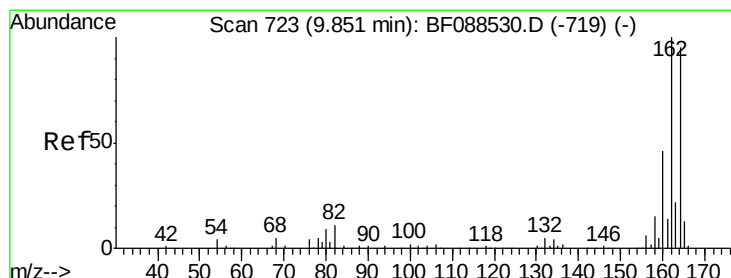
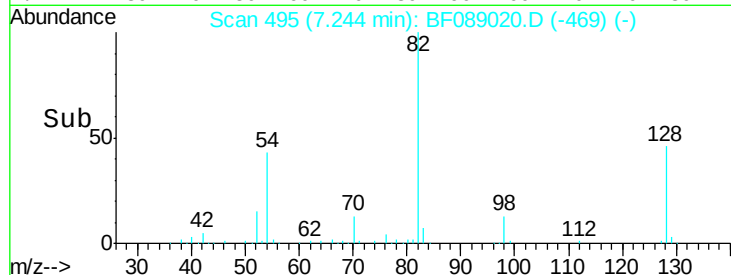
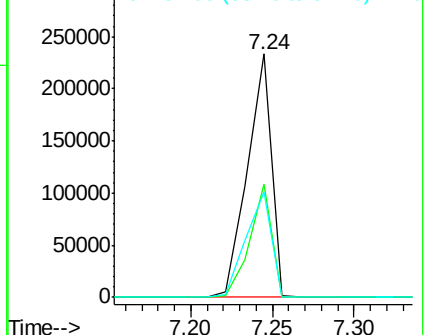
82 100

128 46.2 35.9 53.9

54 43.5 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. 0.00 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

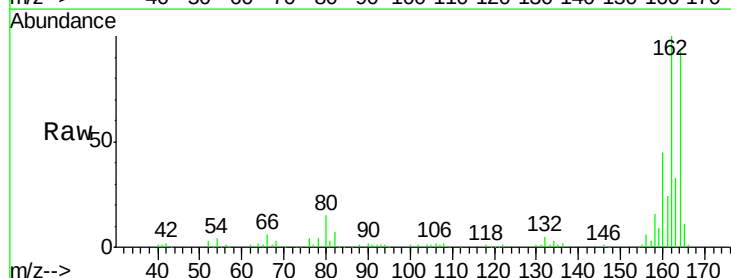
Tgt Ion:164 Resp: 100520

Ion Ratio Lower Upper

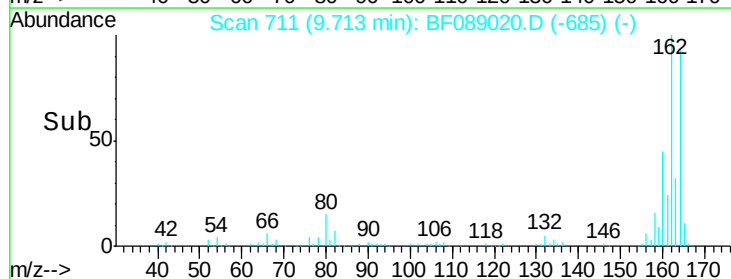
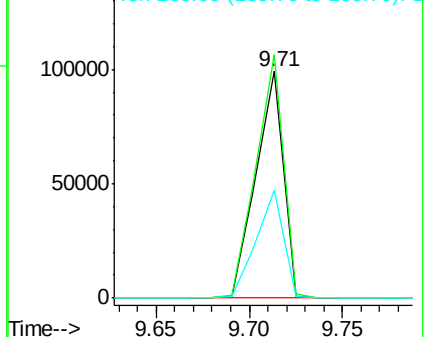
164 100

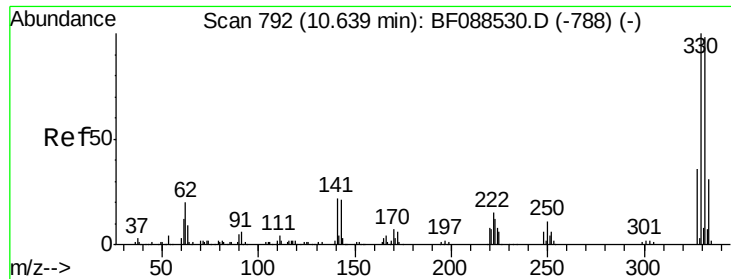
162 107.5 85.4 128.2

160 47.9 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: 44.12 ng

RT: 10.49 min Scan# 779

Delta R.T. -0.01 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB08(0-2ft)

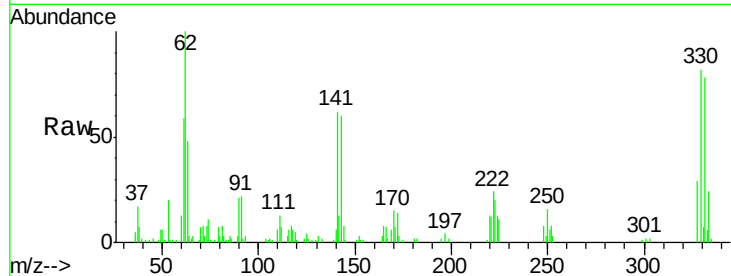
Tot Ion:330 Resp: 41186

Ion Ratio Lower Upper

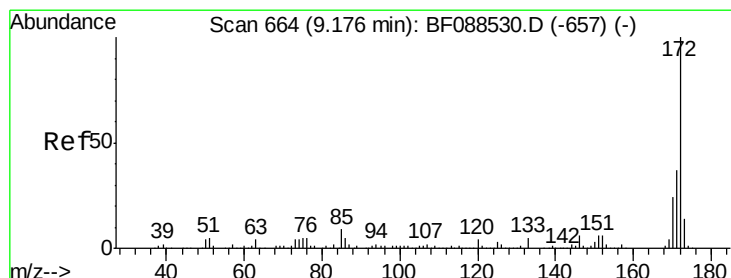
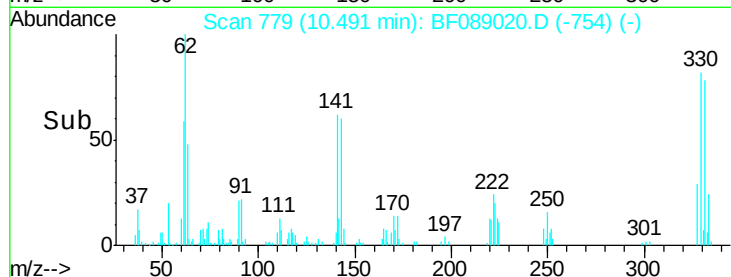
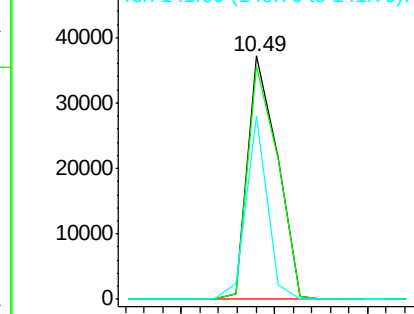
330 100

332 97.0 0.0 0.0#

141 54.2 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: 48.86 ng

RT: 9.04 min Scan# 652

Delta R.T. 0.00 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

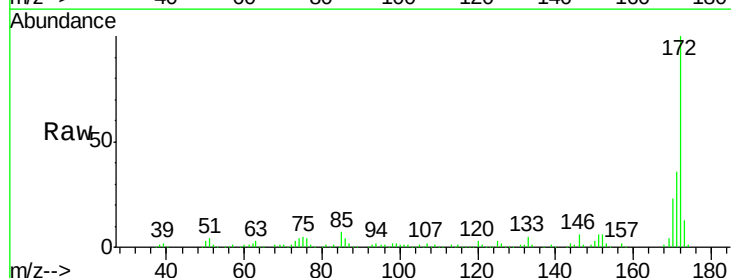
Tgt Ion:172 Resp: 310908

Ion Ratio Lower Upper

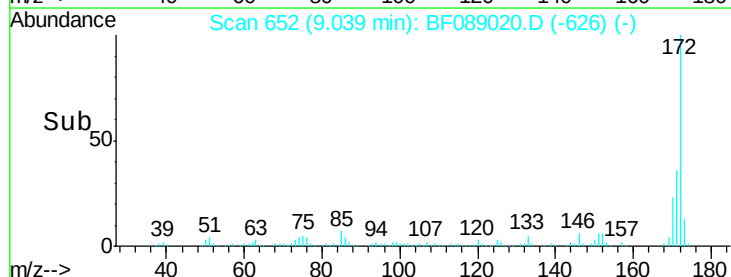
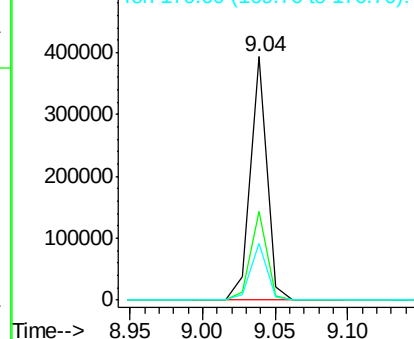
172 100

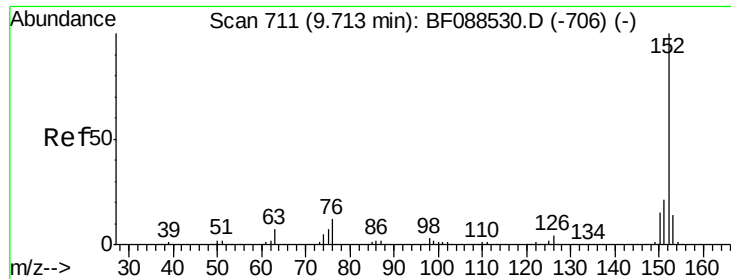
171 36.2 28.6 43.0

170 23.3 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: 2.36 ng

RT: 9.56 min Scan# 698

Delta R.T. -0.01 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB08(0-2ft)

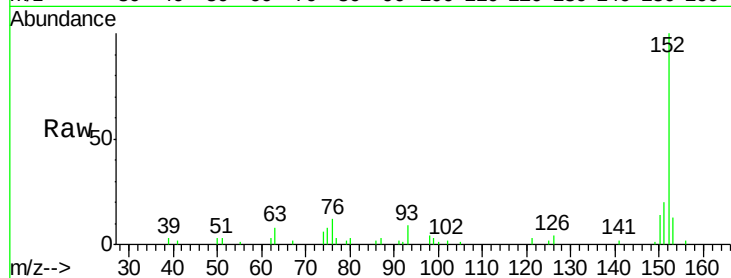
Tot Ion:152 Resp: 24579

Ion Ratio Lower Upper

152 100

151 20.1 16.2 24.4

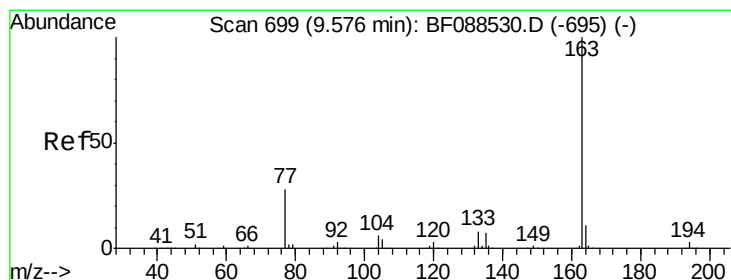
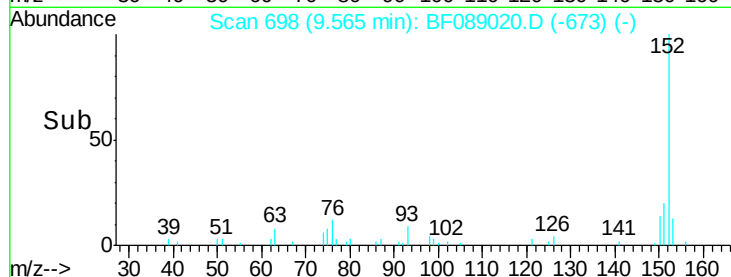
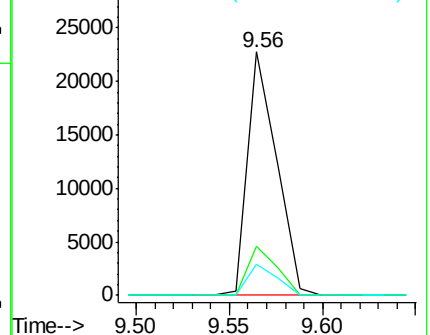
153 12.8 11.0 16.6



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: 9.55 ng

RT: 9.44 min Scan# 687

Delta R.T. -0.01 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

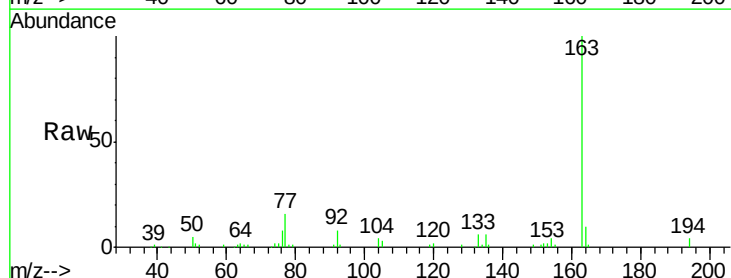
Tgt Ion:163 Resp: 68403

Ion Ratio Lower Upper

163 100

194 3.8 2.8 4.2

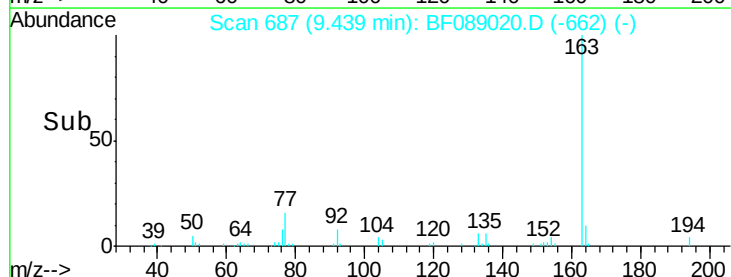
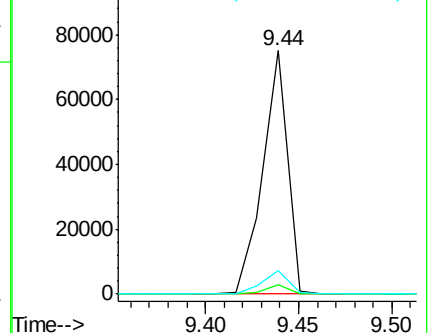
164 9.9 8.3 12.5

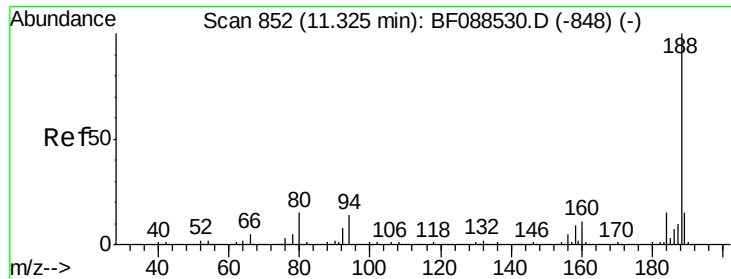


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

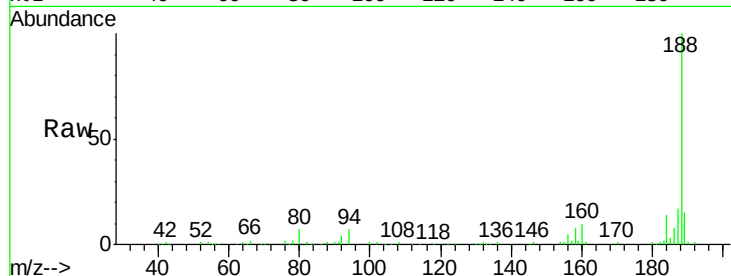




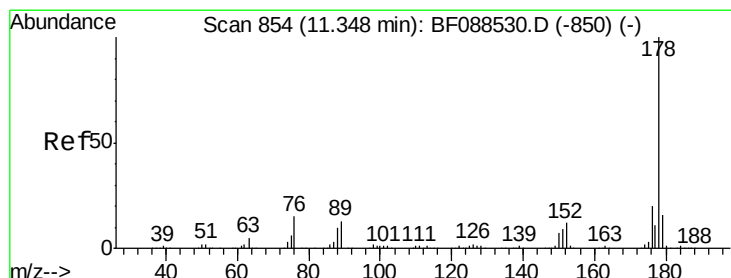
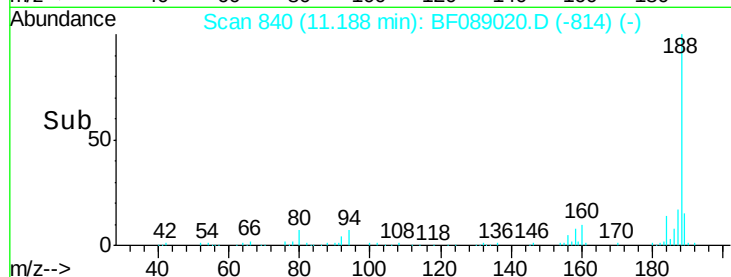
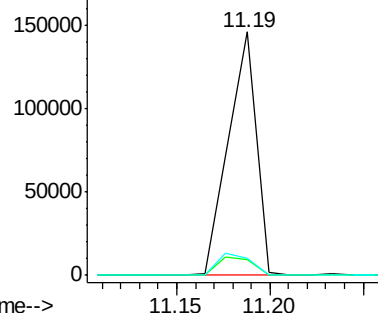
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 840
Delta R.T. 0.00 min
Lab File: BF089020.D
Acq: 15 Jul 2016 16:56

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB08(0-2ft)

Tot Ion:188 Resp: 150855
Ion Ratio Lower Upper
188 100
94 6.6 9.0 13.6#
80 7.1 10.0 15.0#

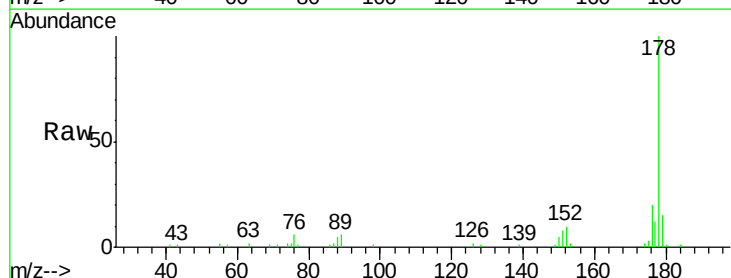


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

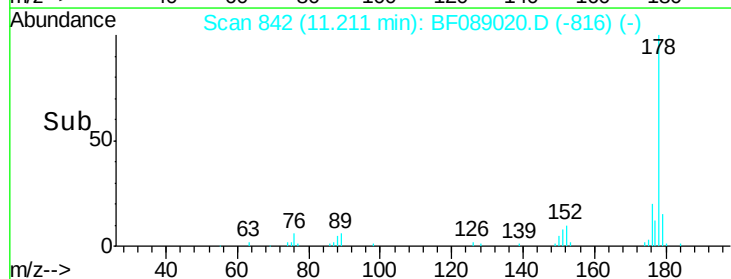
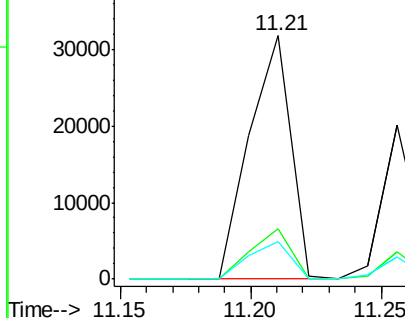


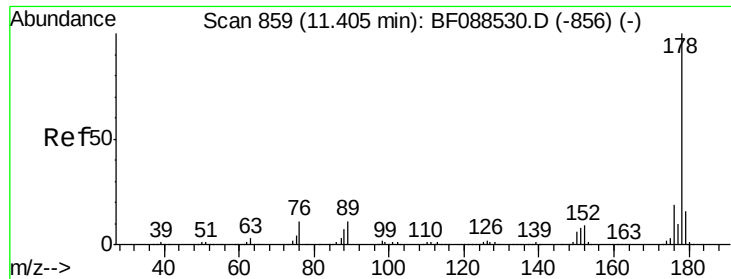
#70
Phenanthrene
Concen: 4.25 ng
RT: 11.21 min Scan# 842
Delta R.T. 0.00 min
Lab File: BF089020.D
Acq: 15 Jul 2016 16:56

Tgt Ion:178 Resp: 35012
Ion Ratio Lower Upper
178 100
176 20.5 15.8 23.6
179 15.2 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

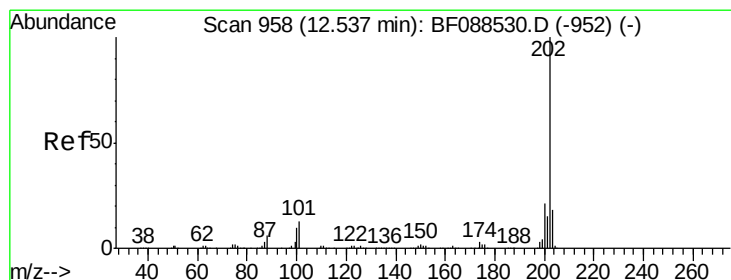
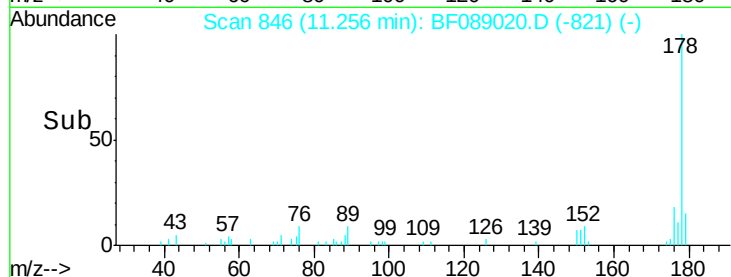
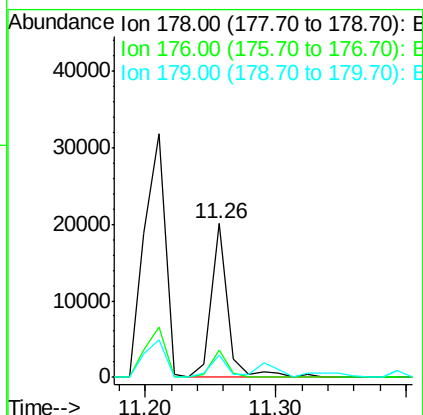
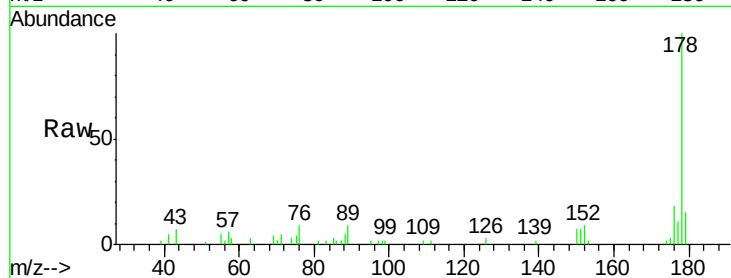




#71
 Anthracene
 Concen: 2.21 ng
 RT: 11.26 min Scan# 846
 Delta R.T. -0.01 min
 Lab File: BF089020.D
 Acq: 15 Jul 2016 16:56

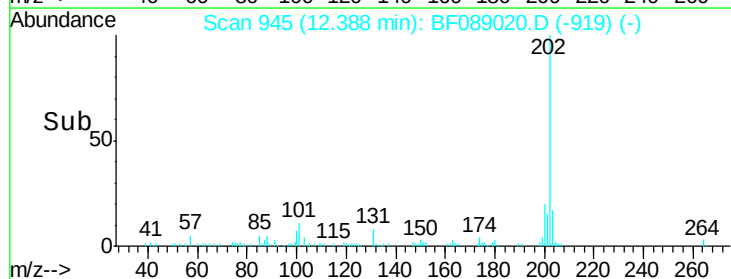
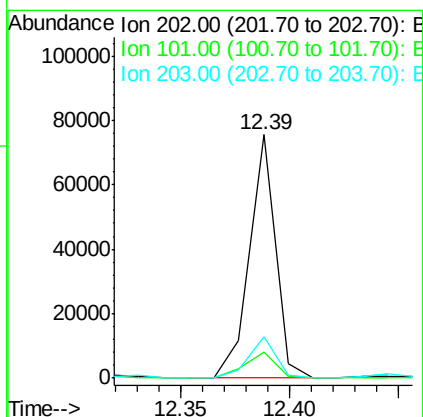
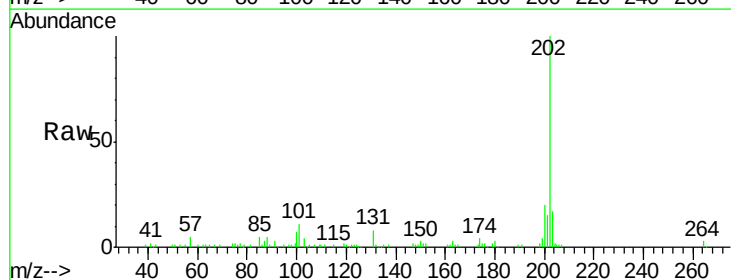
Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB08(0-2ft)

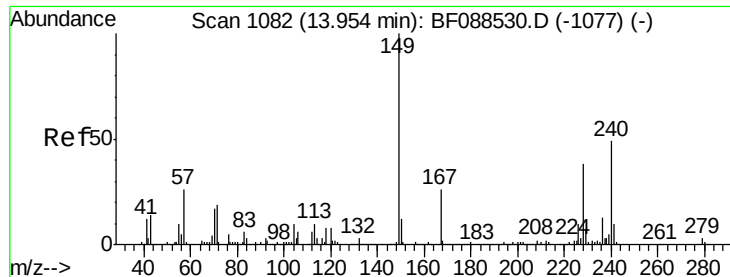
Tot Ion:178 Resp: 18096
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.6 23.4
 179 14.5 12.8 19.2



#74
 Fluoranthene
 Concen: 7.52 ng
 RT: 12.39 min Scan# 945
 Delta R.T. 0.00 min
 Lab File: BF089020.D
 Acq: 15 Jul 2016 16:56

Tgt Ion:202 Resp: 62830
 Ion Ratio Lower Upper
 202 100
 101 10.8 0.0 33.1
 203 17.1 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.01 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB08(0-2ft)

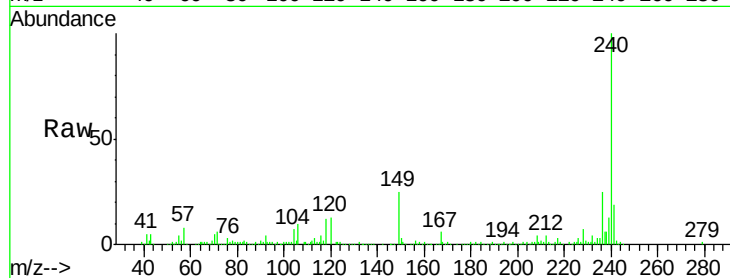
Tot Ion:240 Resp: 121141

Ion Ratio Lower Upper

240 100

120 13.1 6.8 10.2#

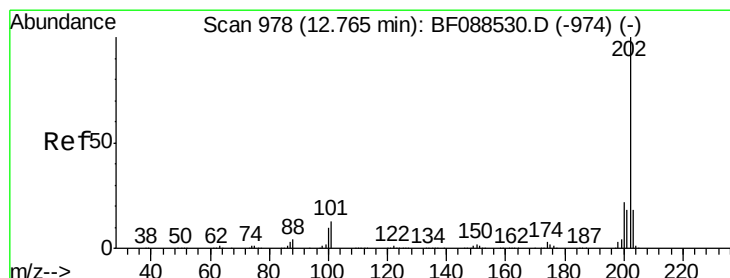
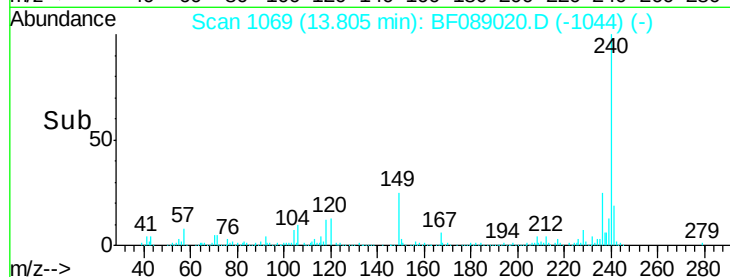
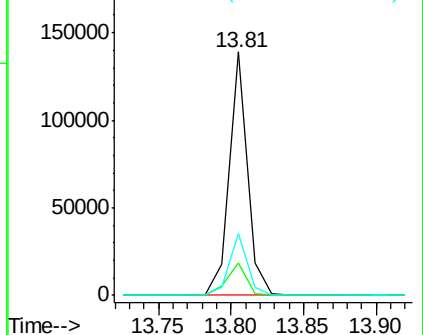
236 25.3 20.2 30.2



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

Pyrene

Concen: 6.67 ng

RT: 12.62 min Scan# 965

Delta R.T. 0.00 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

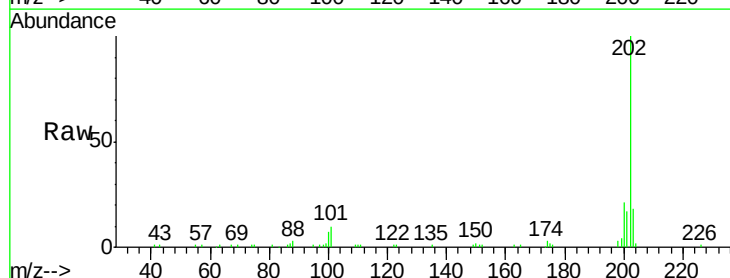
Tgt Ion:202 Resp: 68487

Ion Ratio Lower Upper

202 100

200 20.6 17.4 26.2

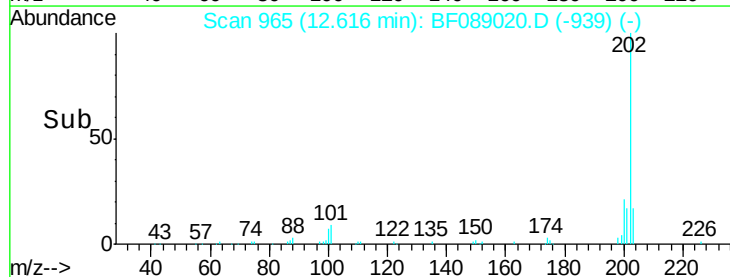
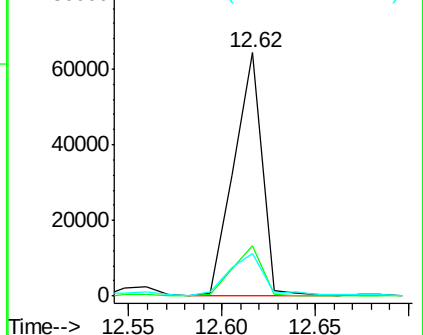
203 17.5 14.5 21.7

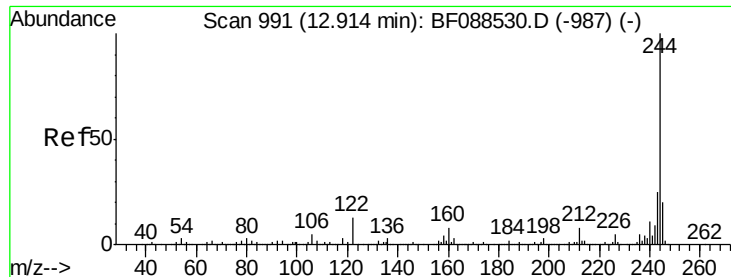


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 29.42 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.01 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB08(0-2ft)

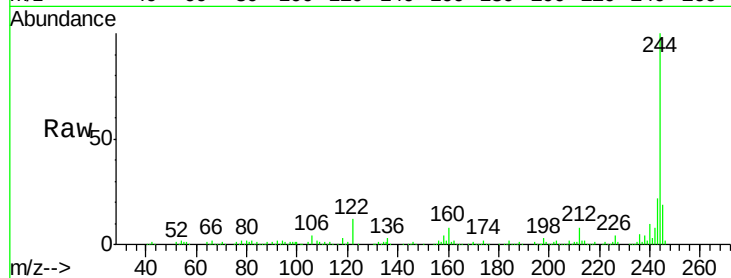
Tot Ion:244 Resp: 160005

Ion Ratio Lower Upper

244 100

212 8.0 6.0 9.0

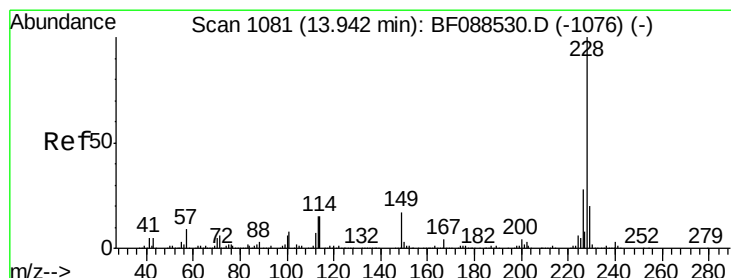
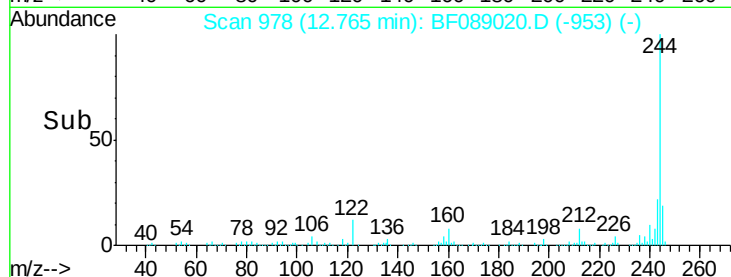
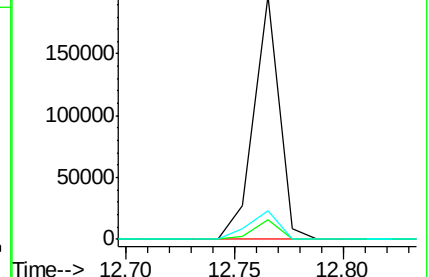
122 11.5 11.2 16.8



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: 4.51 ng m

RT: 13.79 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

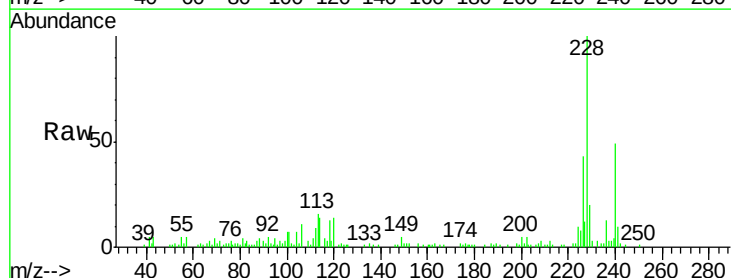
Tgt Ion:228 Resp: 35206

Ion Ratio Lower Upper

228 100

226 43.0 22.3 33.5#

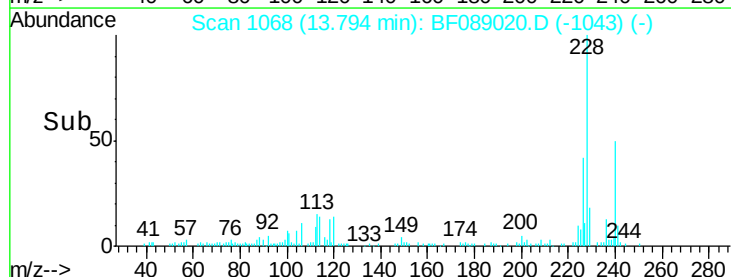
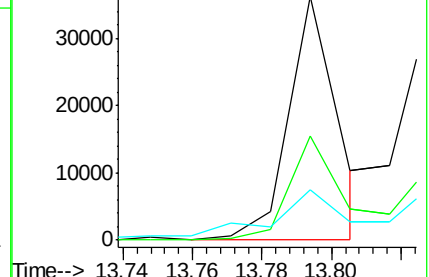
229 20.4 16.0 24.0

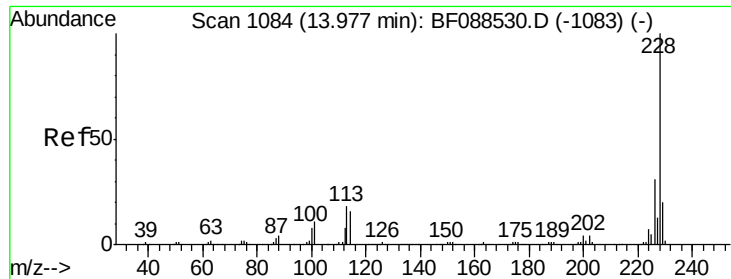


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.79 ng/mL

RT: 13.83 min Scan# 1071

Delta R.T. -0.01 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB08(0-2ft)

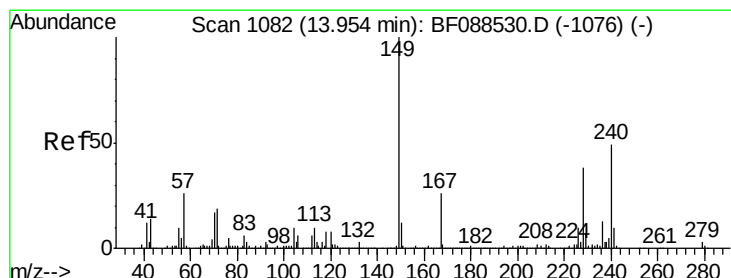
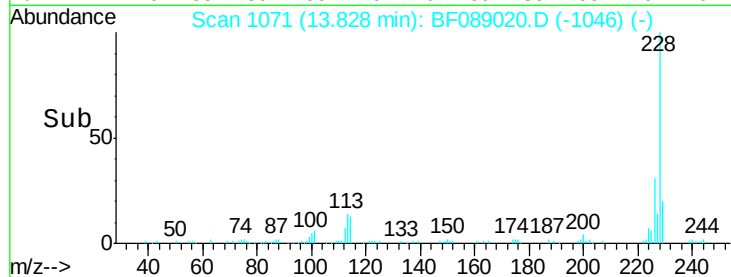
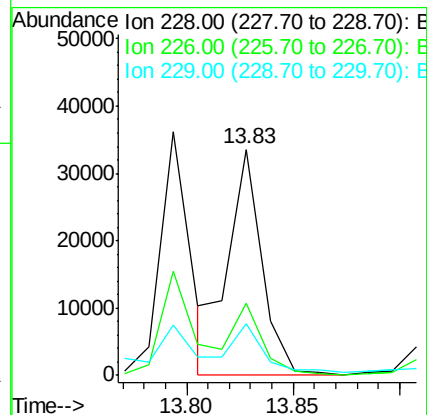
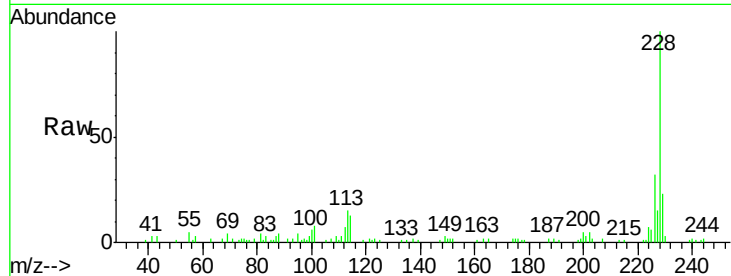
Tot Ion: 228 Resp: 36931

Ion Ratio Lower Upper

228 100

226 31.8 25.4 38.2

229 22.8 16.3 24.5



#83

Bis(2-ethylhexyl)phthalate

Concen: 6.71 ng/mL

RT: 13.81 min Scan# 1069

Delta R.T. 0.00 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

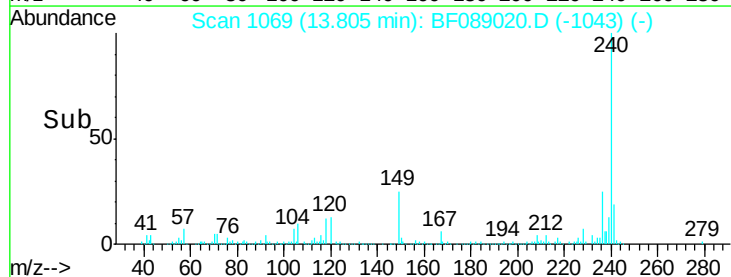
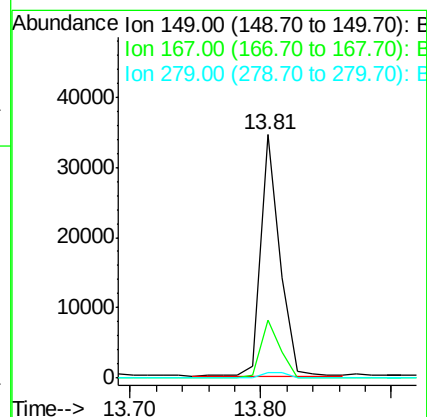
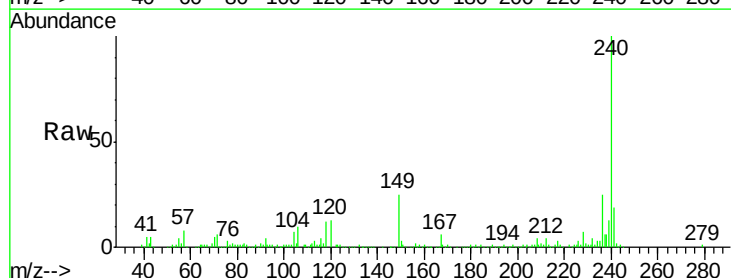
Tgt Ion: 149 Resp: 35088

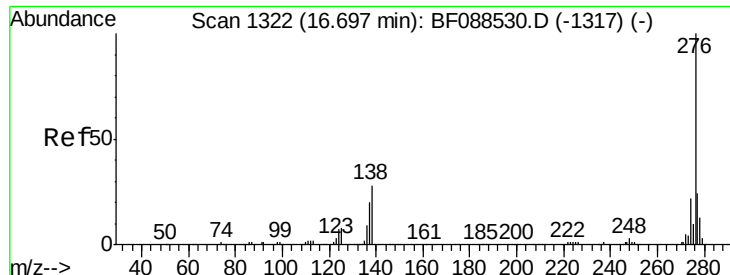
Ion Ratio Lower Upper

149 100

167 23.9 20.5 30.7

279 2.0 2.0 3.0

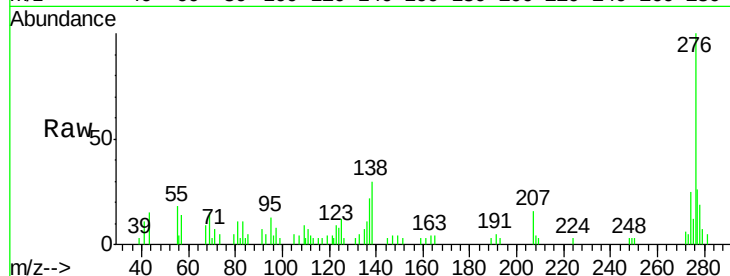




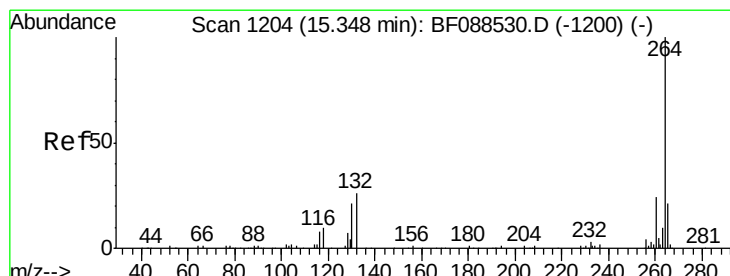
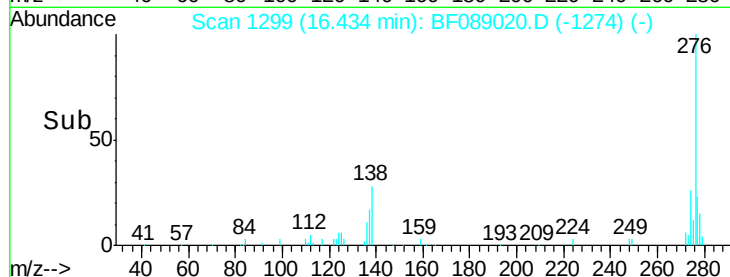
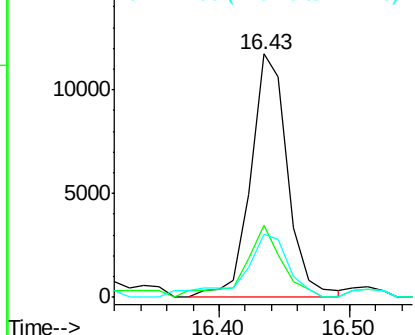
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.89 ng
 RT: 16.43 min Scan# 1299
 Delta R.T. -0.01 min
 Lab File: BF089020.D
 Acq: 15 Jul 2016 16:56

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB08(0-2ft)

Tot Ion:276 Resp: 23100
 Ion Ratio Lower Upper
 276 100
 138 29.7 0.0 0.0#
 277 31.6 0.0 0.0#

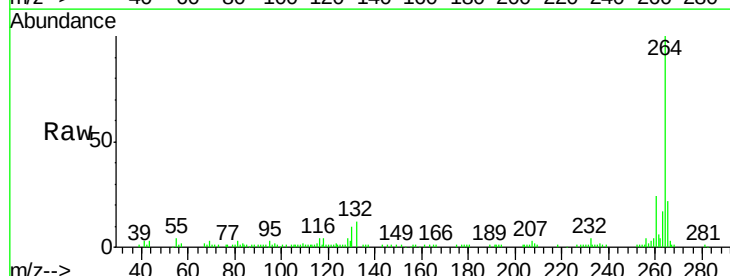


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

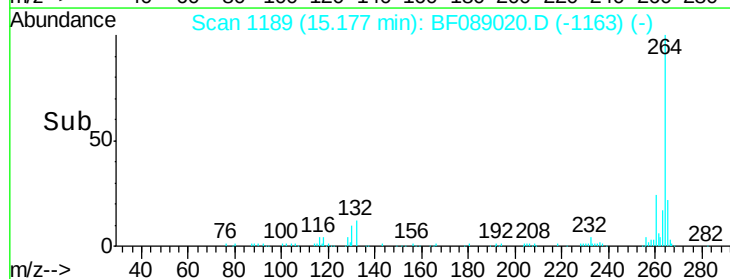
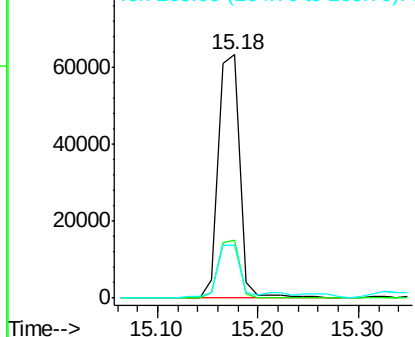


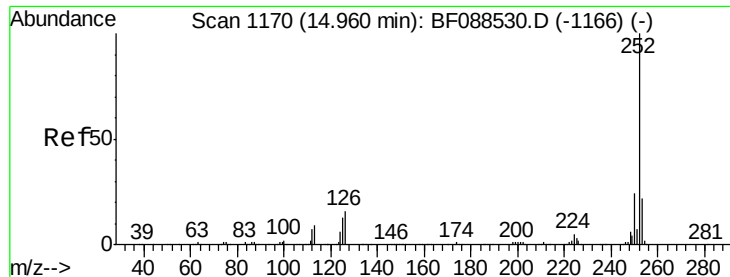
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.18 min Scan# 1189
 Delta R.T. 0.00 min
 Lab File: BF089020.D
 Acq: 15 Jul 2016 16:56

Tgt Ion:264 Resp: 93755
 Ion Ratio Lower Upper
 264 100
 260 23.6 19.2 28.8
 265 21.5 16.9 25.3



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: 8.15 ng m

RT: 14.80 min Scan# 1156

Delta R.T. 0.00 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB08(0-2ft)

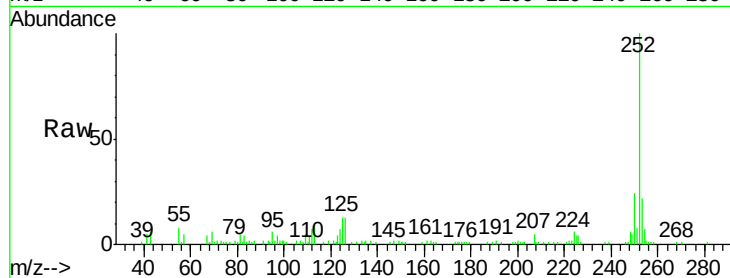
Tot Ion:252 Resp: 47933

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.2

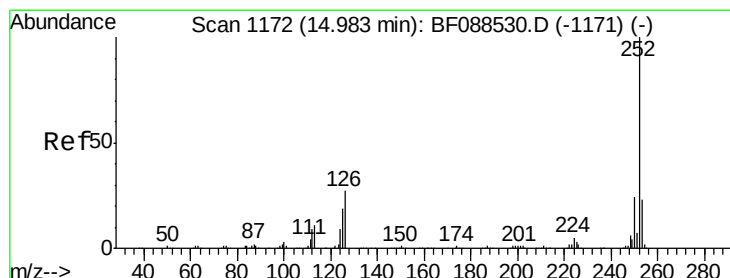
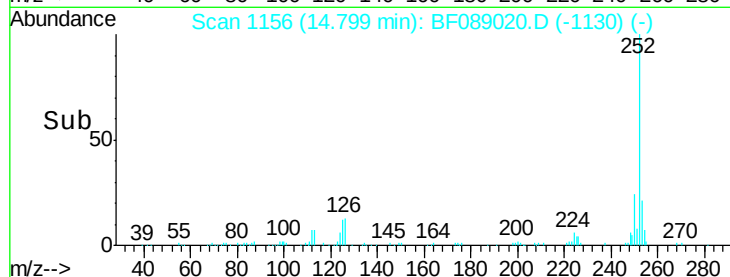
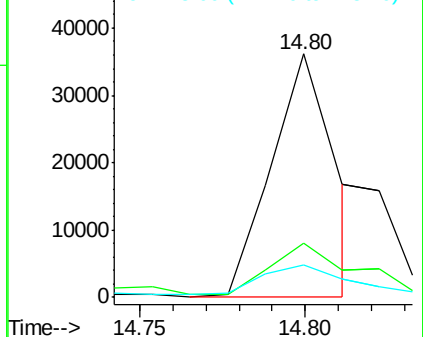
125 13.3 7.1 10.7#



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: 2.49 ng m

RT: 14.81 min Scan# 1157

Delta R.T. -0.02 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

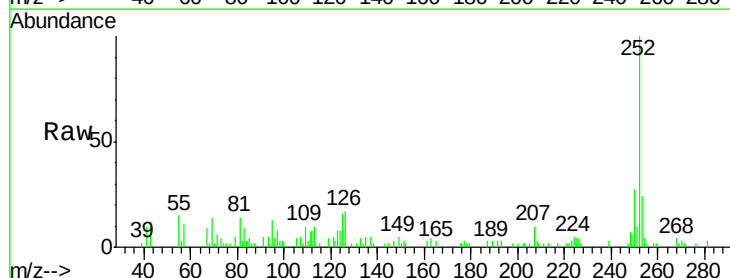
Tgt Ion:252 Resp: 12744

Ion Ratio Lower Upper

252 100

253 24.5 18.0 27.0

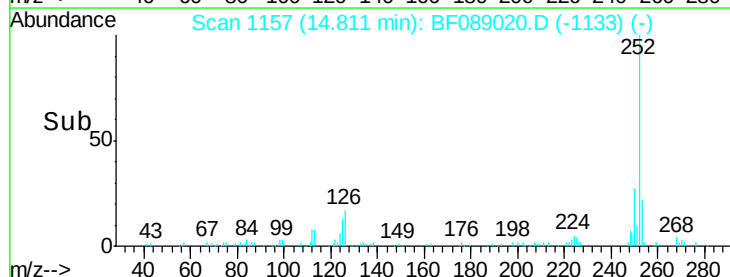
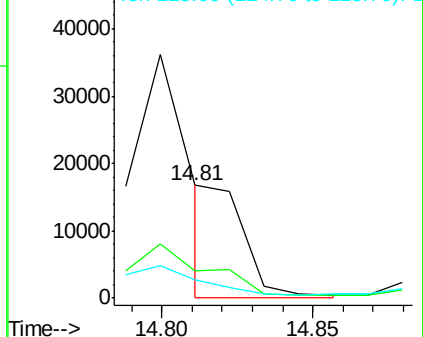
125 16.4 11.2 16.8

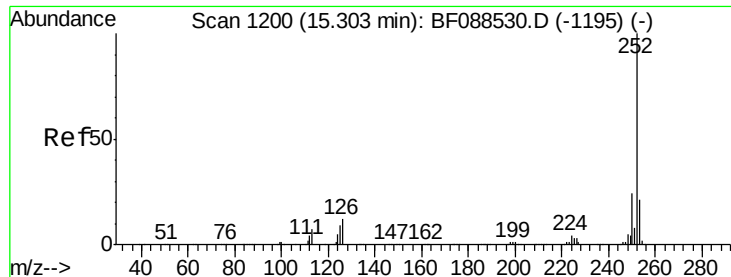


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 7.30 ng/mL

RT: 15.12 min Scan# 1184

Delta R.T. 0.00 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB08(0-2ft)

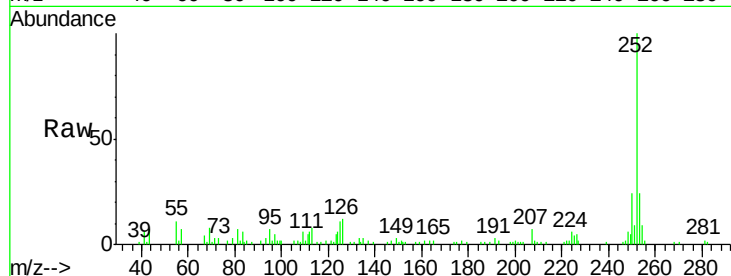
Tot Ion:252 Resp: 36345

Ion Ratio Lower Upper

252 100

253 23.6 17.9 26.9

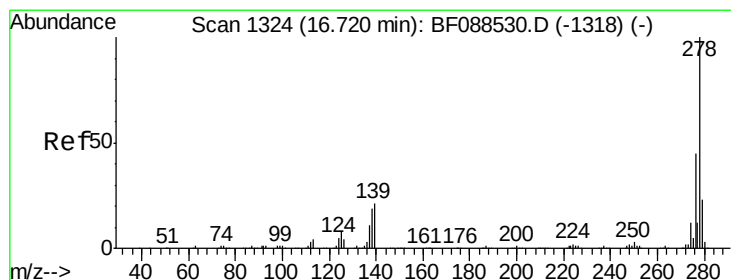
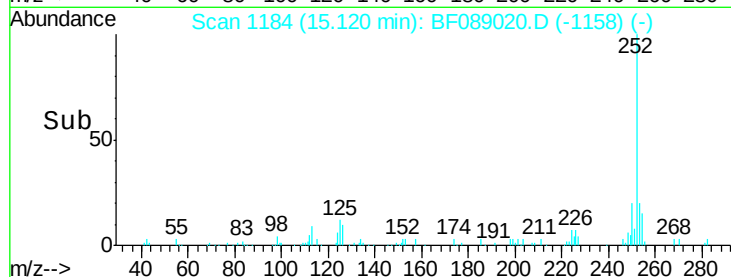
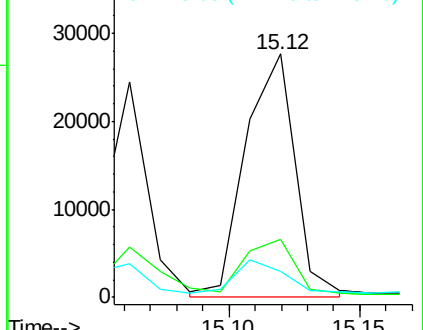
125 10.9 12.5 18.7#



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: 2.13 ng/mL

RT: 16.45 min Scan# 1300

Delta R.T. -0.02 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

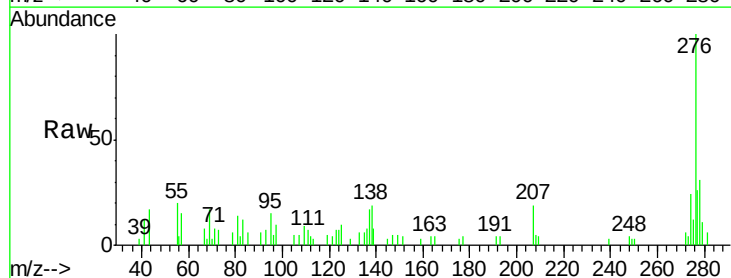
Tgt Ion:278 Resp: 8852

Ion Ratio Lower Upper

278 100

139 25.1 15.7 23.5#

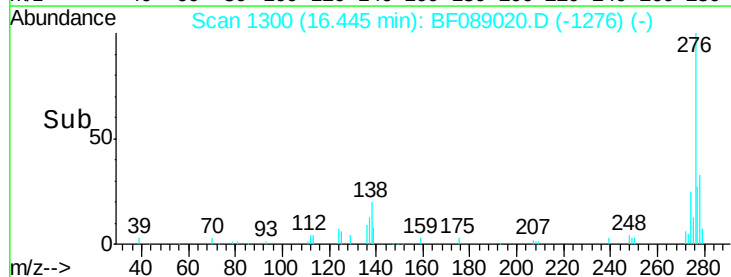
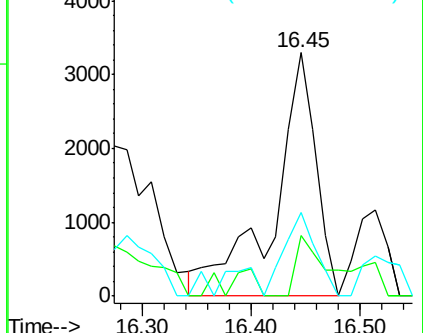
279 34.2 19.4 29.2#

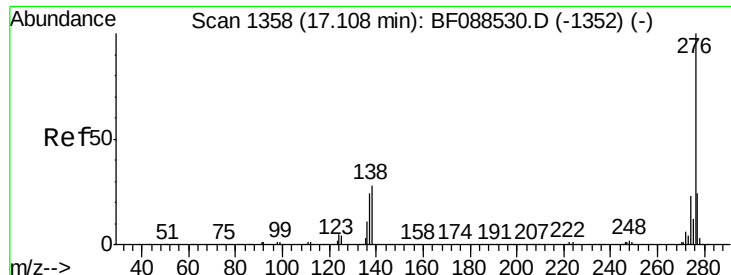


Abundance Ion 278.00 (277.70 to 278.70): E

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: 5.53 ng

RT: 16.82 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF089020.D

Acq: 15 Jul 2016 16:56

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB08(0-2ft)

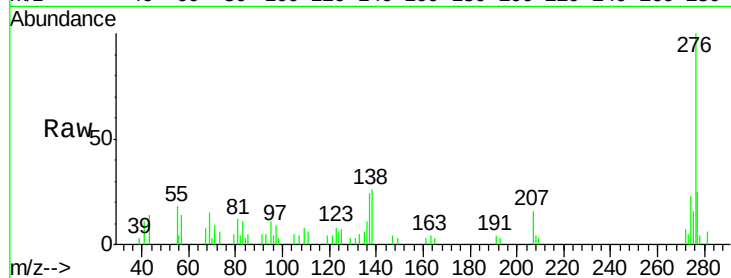
Tot Ion:276 Resp: 23799

Ion Ratio Lower Upper

276 100

277 24.8 18.9 28.3

138 25.7 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

