

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071516\
 Data File : BF089029.D
 Acq On : 15 Jul 2016 21:31
 Operator : UM/SJ
 Sample : H3951-10 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB04(0-2in)

Quant Time: Jul 15 23:00:49 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	63047	20.00	ng	-0.03
21) Naphthalene-d8	7.96	136	248990	20.00	ng	-0.03
38) Acenaphthene-d10	9.71	164	97538	20.00	ng	-0.03
63) Phenanthrene-d10	11.19	188	148177	20.00	ng	-0.03
75) Chrysene-d12	13.81	240	111262	20.00	ng	-0.05
86) Perylene-d12	15.18	264	79933	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.27	112	81942	19.48	ng	-0.02
7) Phenol-d6	6.32	99	104020	19.14	ng	-0.03
23) Nitrobenzene-d5	7.23	82	60443	12.72	ng	-0.05
41) 2,4,6-Tribromophenol	10.49	330	12705	14.03	ng	-0.05
44) 2-Fluorobiphenyl	9.04	172	115364	18.68	ng	-0.03
78) Terphenyl-d14	12.77	244	62724	12.56	ng	-0.03

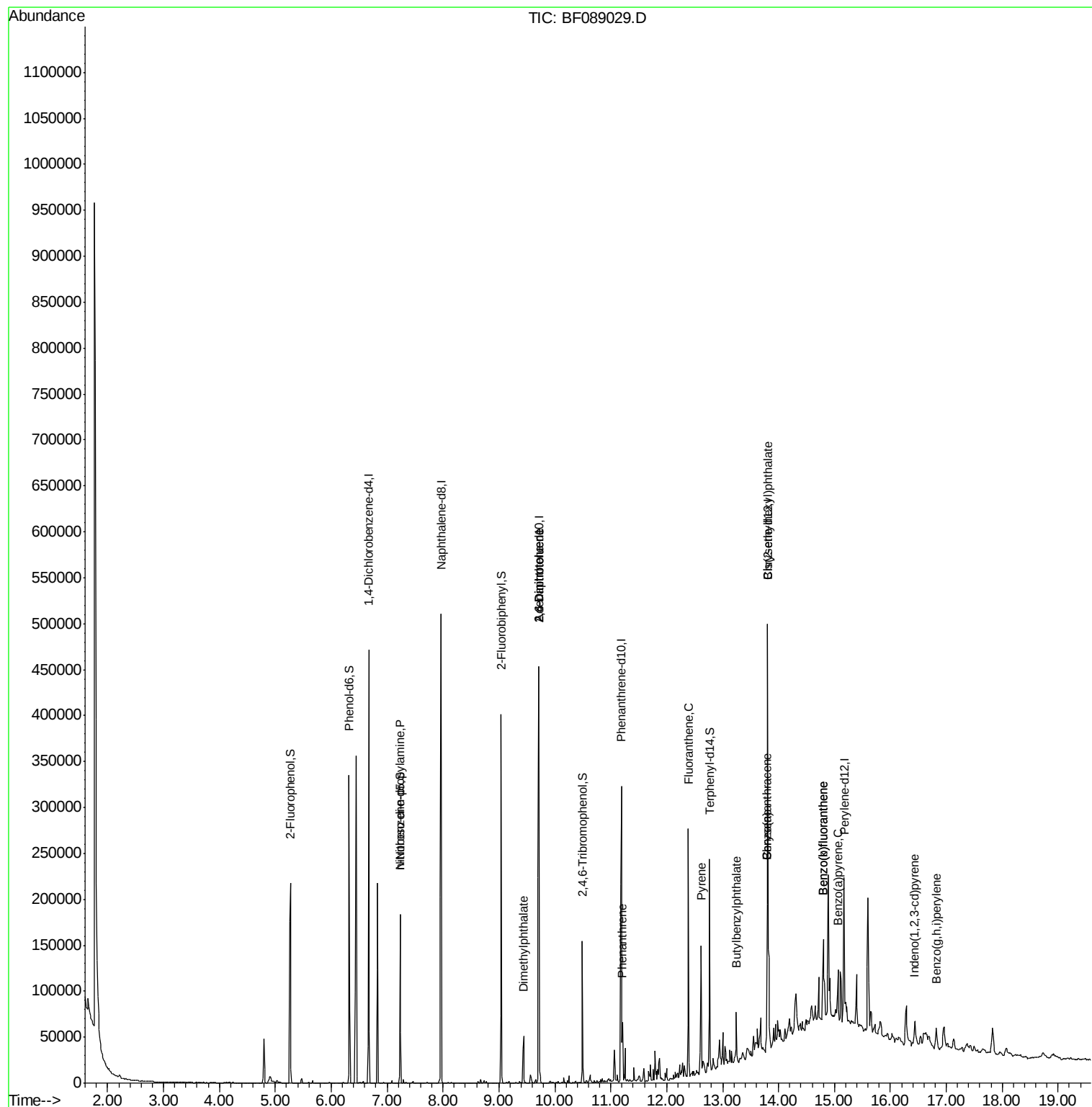
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.23	70	8222	2.25	ng	# 74
49) Dimethylphthalate	9.44	163	26361	3.79	ng	99
50) 2,6-Dinitrotoluene	9.71	165	12178	7.91	ng	# 37
56) 2,4-Dinitrotoluene	9.71	165	12178	6.05	ng	# 36
70) Phenanthrene	11.21	178	32258	3.98	ng	98
74) Fluoranthene	12.39	202	77680	9.46	ng	96
77) Pyrene	12.62	202	73775	7.82	ng	97
79) Butylbenzylphthalate	13.25	149	12822	3.05	ng	88
80) Benzo(a)anthracene	13.79	228	43430	6.06	ng	96
82) Chrysene	13.79	228	43430	6.13	ng	99
83) Bis(2-ethylhexyl)phthalate	13.81	149	12664	2.64	ng	# 96
85) Indeno(1,2,3-cd)pyrene	16.43	276	15585	2.86	ng	# 100
87) Benzo(b)fluoranthene	14.80	252	53374	10.64	ng	# 93
88) Benzo(k)fluoranthene	14.80	252	53374	12.23	ng	99
89) Benzo(a)pyrene	15.06	252	20117	4.74	ng	96
91) Benzo(g,h,i)perylene	16.82	276	15864	4.32	ng	96

(#) = 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. -0.03 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2in)

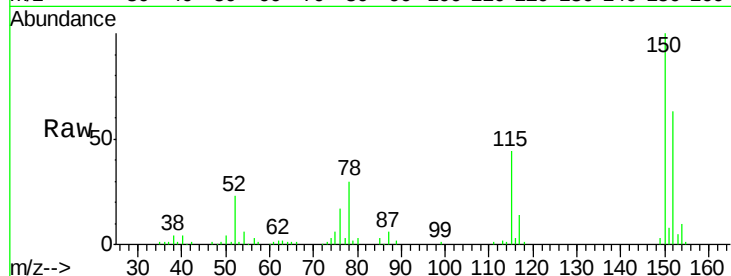
Tgt Ion:152 Resp: 63047

Ion Ratio Lower Upper

152 100

150 160.0 123.8 185.6

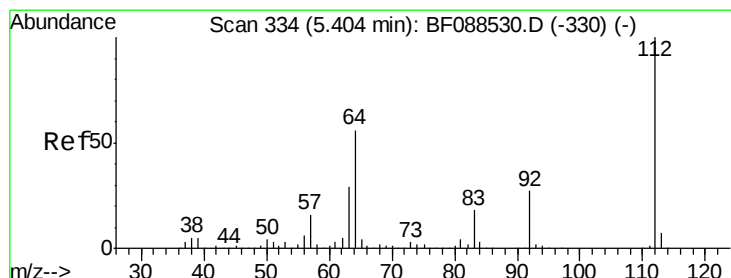
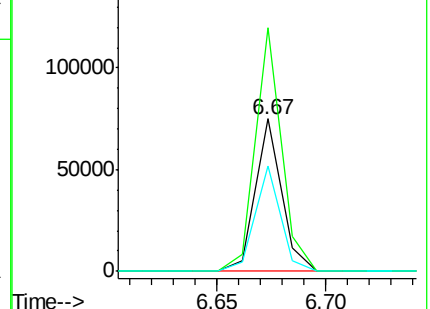
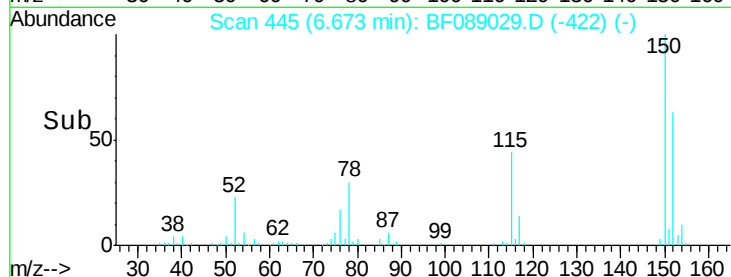
115 69.6 39.6 59.4#



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: 19.48 ng

RT: 5.27 min Scan# 322

Delta R.T. -0.02 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

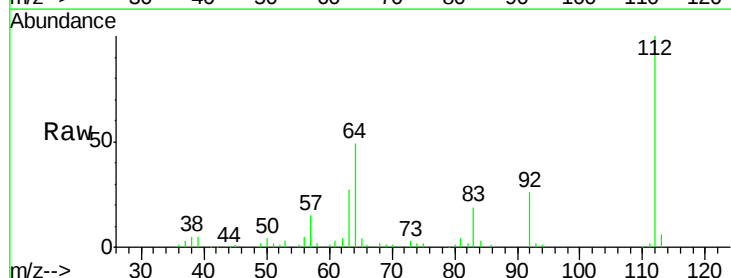
Tgt Ion:112 Resp: 81942

Ion Ratio Lower Upper

112 100

64 49.3 42.2 63.2

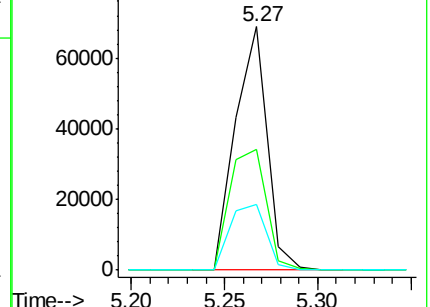
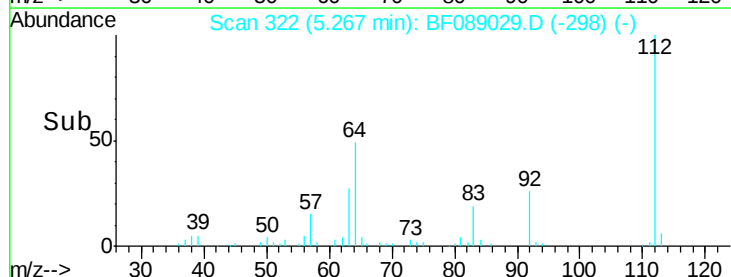
63 26.8 21.8 32.8



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: 19.14 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2in)

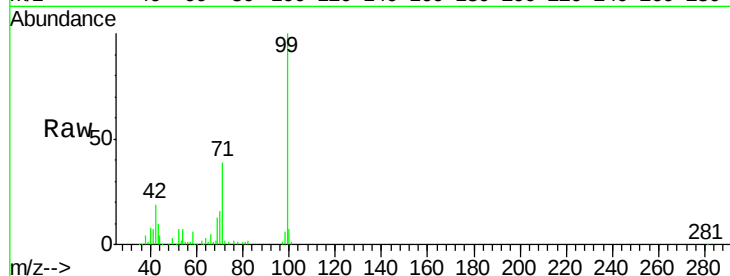
Tgt Ion: 99 Resp: 104020

Ion Ratio Lower Upper

99 100

42 19.0 12.2 18.2#

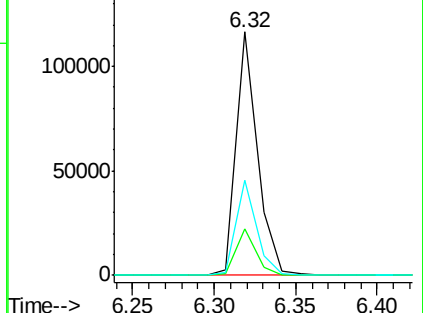
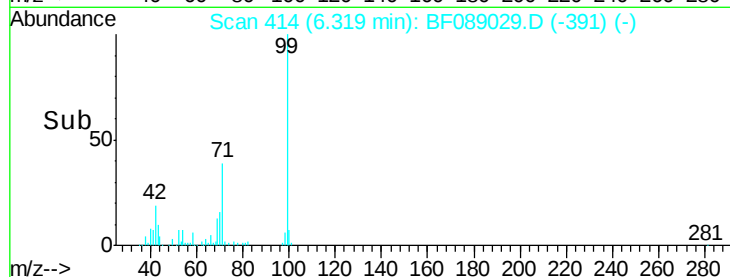
71 39.0 23.4 35.0#



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.25 ng

RT: 7.23 min Scan# 494

Delta R.T. 0.09 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

Tgt Ion: 70 Resp: 8222

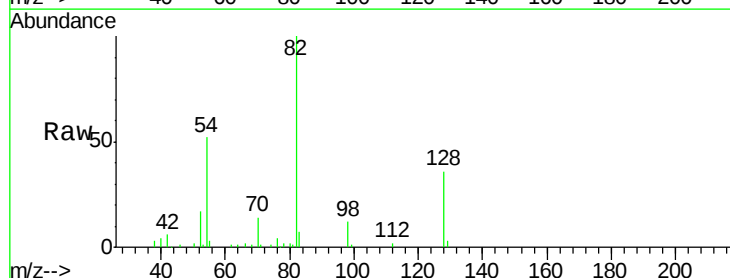
Ion Ratio Lower Upper

70 100

42 45.3 49.6 74.4#

101 0.0 7.1 10.7#

130 0.0 15.4 23.2#

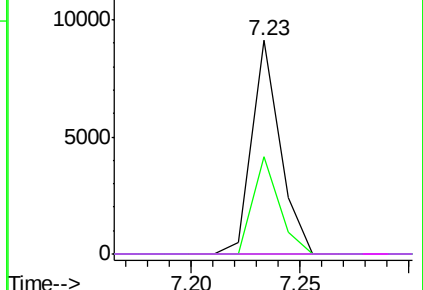
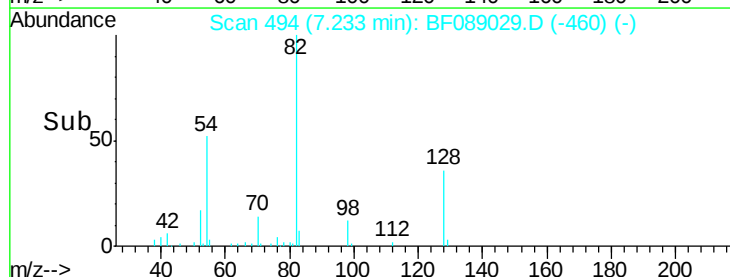


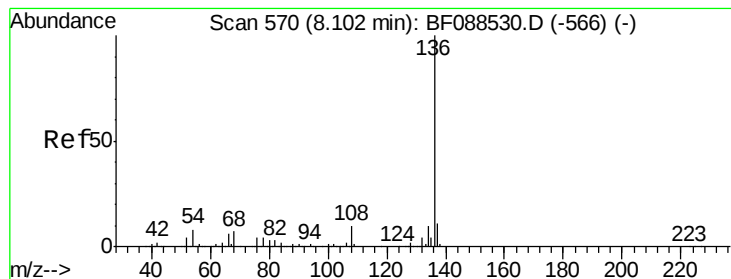
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 558

Delta R.T. -0.03 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2in)

Tgt Ion: 136 Resp: 248990

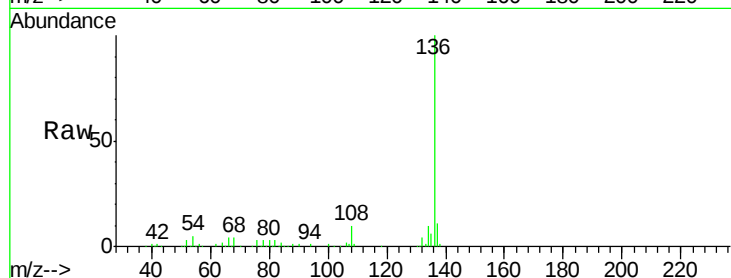
Ion Ratio Lower Upper

136 100

137 10.6 9.1 13.7

54 5.5 6.6 10.0#

68 4.4 5.1 7.7#

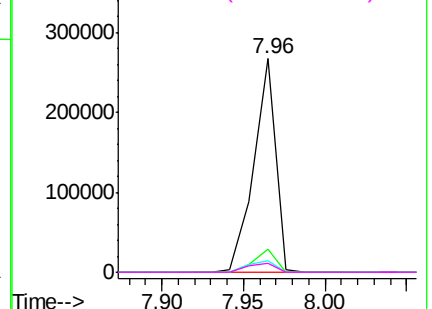
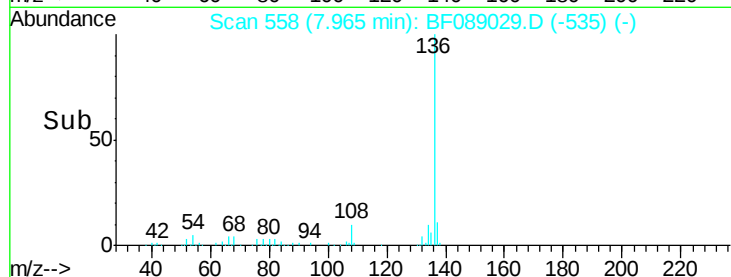


Abundance Ion 136.00 (135.70 to 136.70): E

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: 12.72 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.05 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

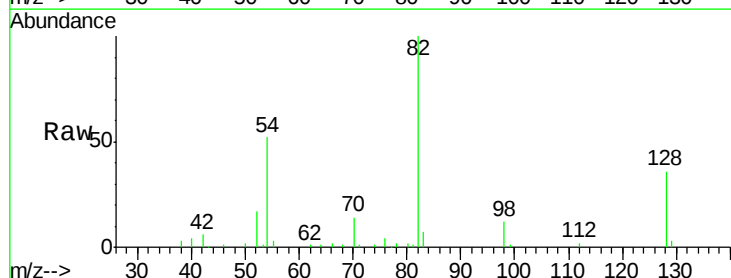
Tgt Ion: 82 Resp: 60443

Ion Ratio Lower Upper

82 100

128 36.3 35.9 53.9

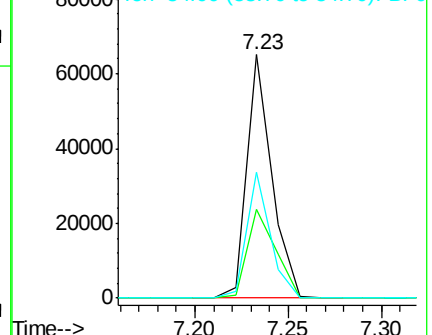
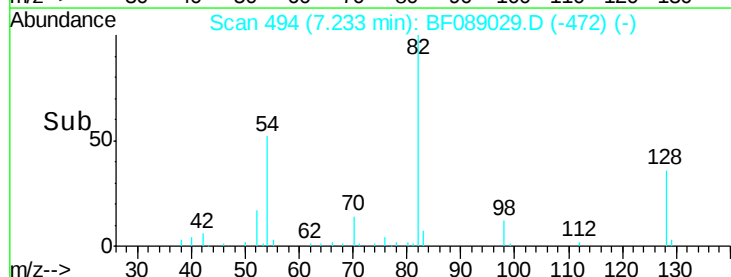
54 51.8 40.9 61.3

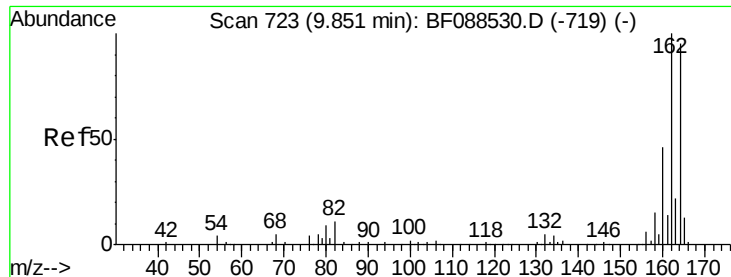


Abundance Ion 82.00 (81.70 to 82.70): BF0

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. -0.03 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

Instrument :

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ClientSampleId :

LSS-SB-SB04(0-2in)

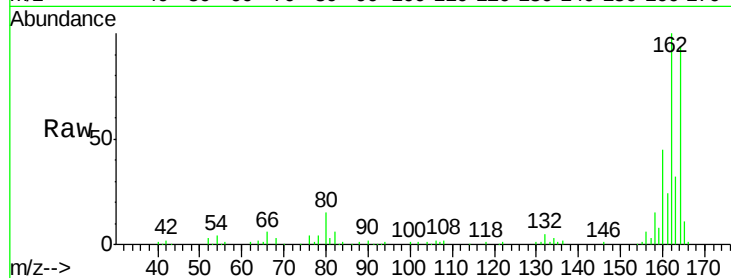
Tgt Ion:164 Resp: 97538

Ion Ratio Lower Upper

164 100

162 106.4 85.4 128.2

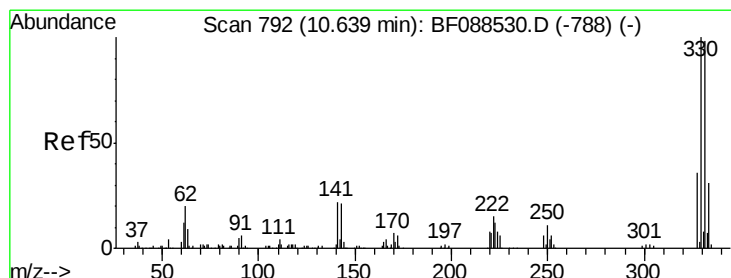
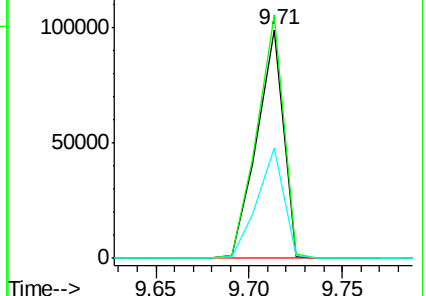
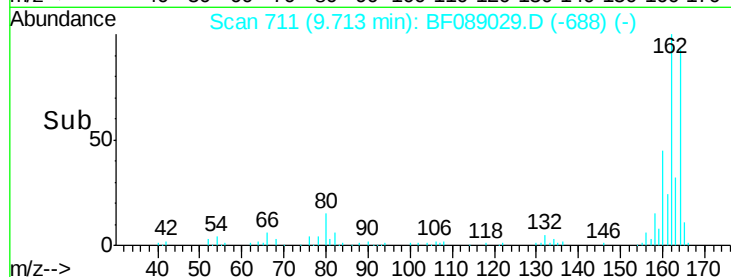
160 48.3 39.5 59.3



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: 14.03 ng

RT: 10.49 min Scan# 779

Delta R.T. -0.05 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

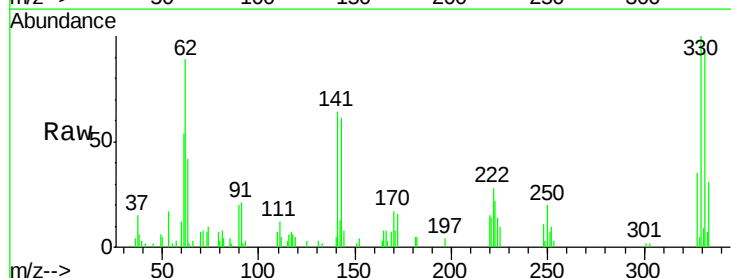
Tgt Ion:330 Resp: 12705

Ion Ratio Lower Upper

330 100

332 94.5 0.0 0.0#

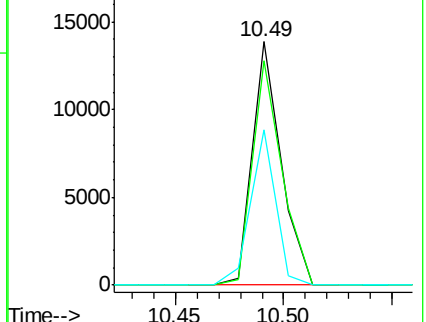
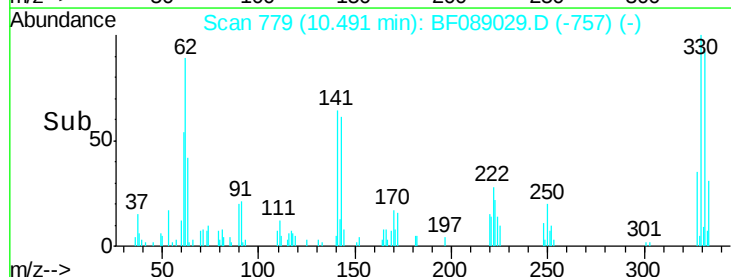
141 56.3 0.0 0.0#



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

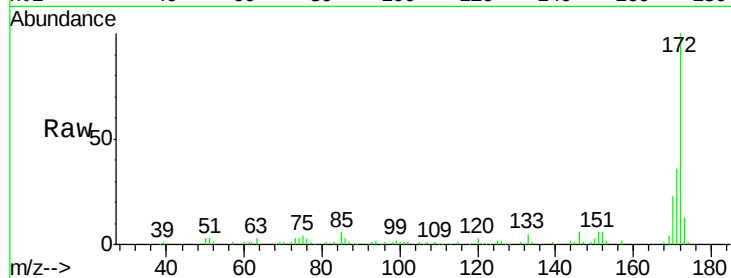




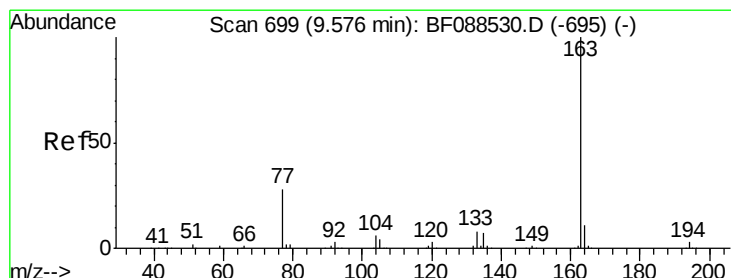
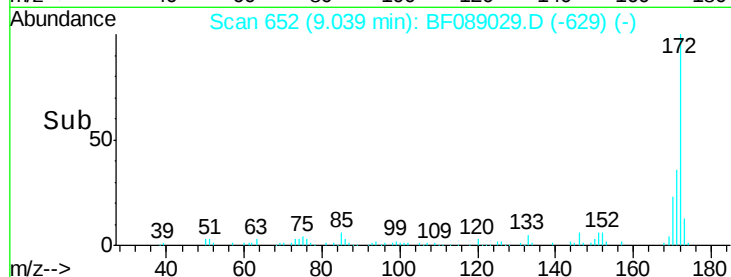
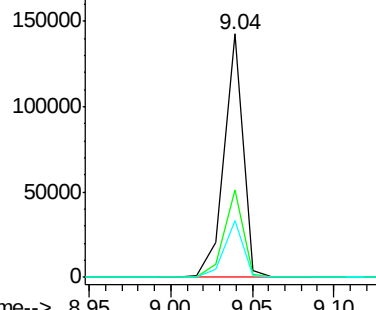
#44
 2-Fluorobiphenyl
 Concen: 18.68 ng
 RT: 9.04 min Scan# 652
 Delta R.T. -0.03 min
 Lab File: BF089029.D
 Acq: 15 Jul 2016 21:31

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB04(0-2in)

Tgt Ion:172 Resp: 115364
 Ion Ratio Lower Upper
 172 100
 171 36.1 28.6 43.0
 170 23.2 19.2 28.8

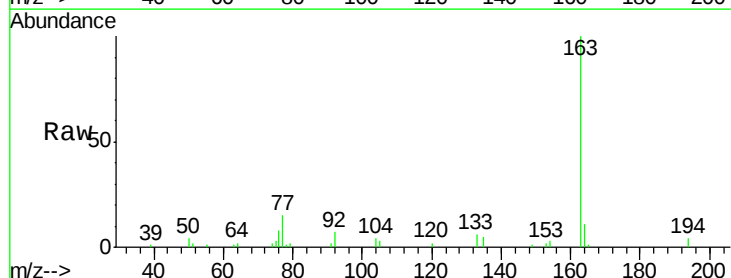


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

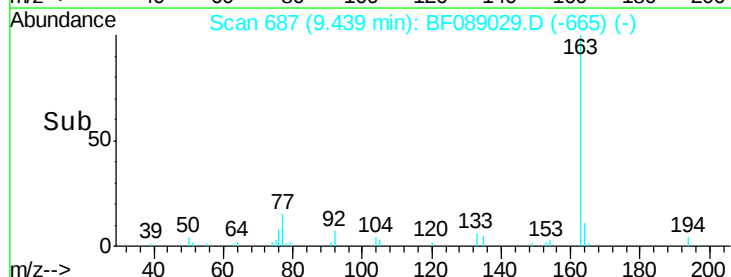
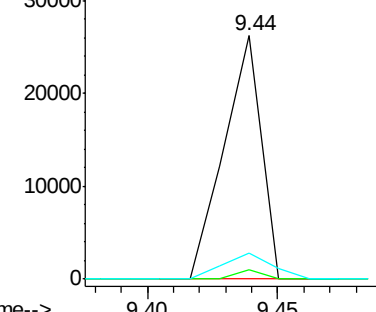


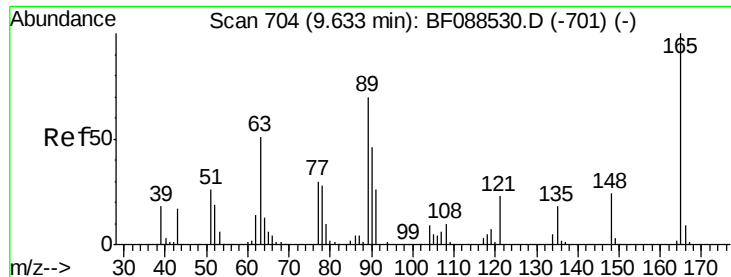
#49
 Dimethylphthalate
 Concen: 3.79 ng
 RT: 9.44 min Scan# 687
 Delta R.T. -0.05 min
 Lab File: BF089029.D
 Acq: 15 Jul 2016 21:31

Tgt Ion:163 Resp: 26361
 Ion Ratio Lower Upper
 163 100
 194 3.9 2.8 4.2
 164 10.9 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

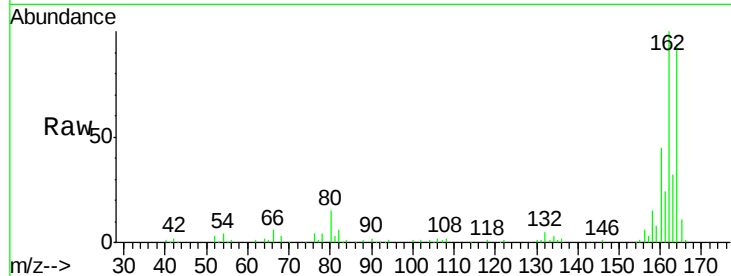




#50
 2,6-Dinitrotoluene
 Concen: 7.91 ng
 RT: 9.71 min Scan# 711
 Delta R.T. 0.17 min
 Lab File: BF089029.D
 Acq: 15 Jul 2016 21:31

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB04(0-2in)

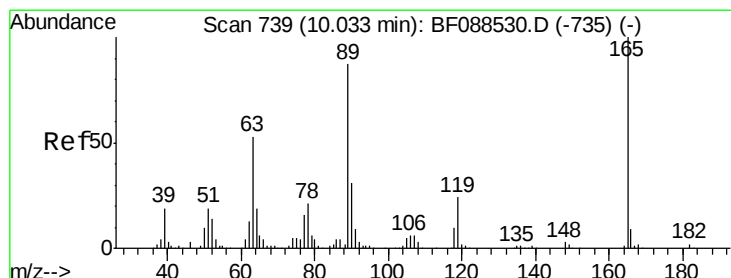
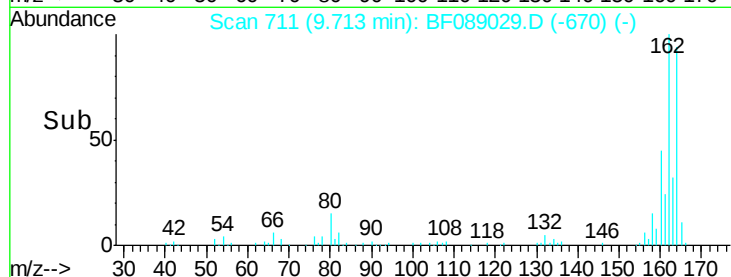
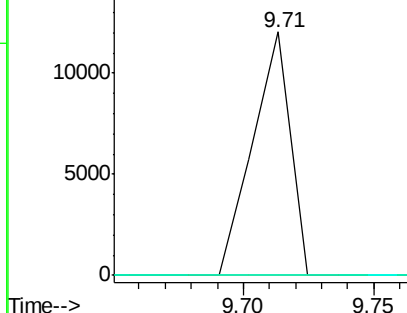
Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	28.1	42.1#
89	0.0	32.2	48.2#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56
 2,4-Dinitrotoluene
 Concen: 6.05 ng
 RT: 9.71 min Scan# 711
 Delta R.T. -0.23 min
 Lab File: BF089029.D
 Acq: 15 Jul 2016 21:31

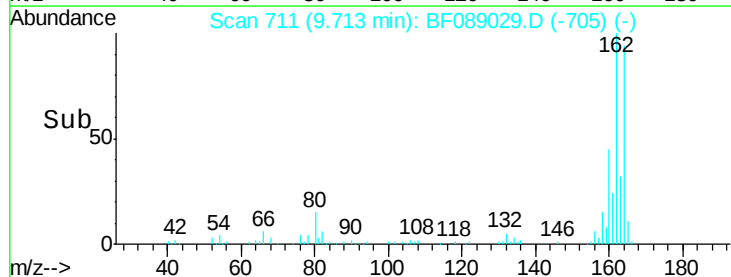
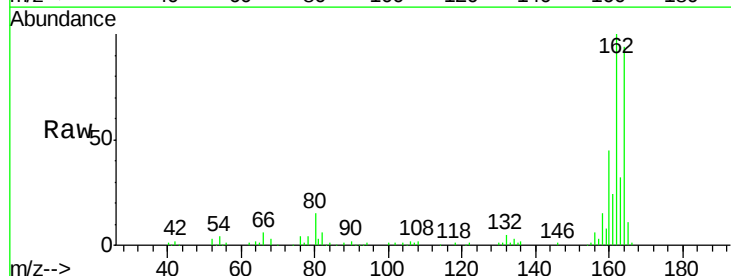
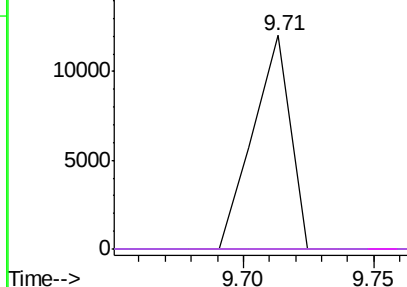
Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	22.0	33.0#
89	0.0	41.1	61.7#
182	0.0	2.0	3.0#

Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

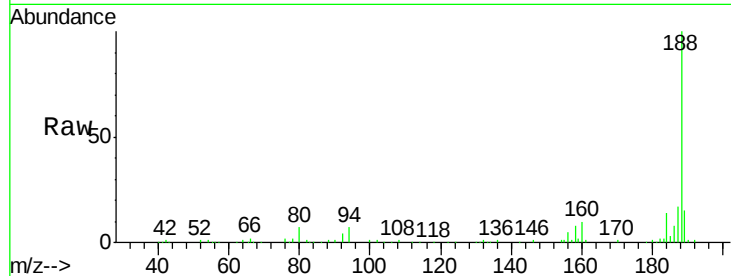




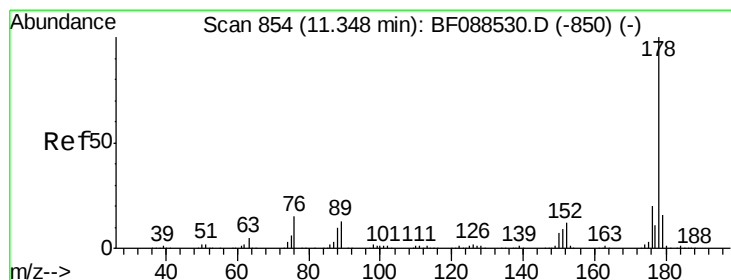
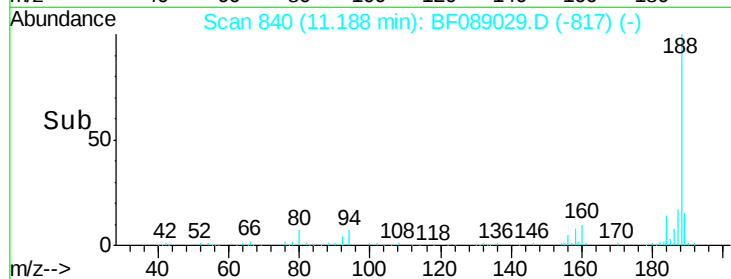
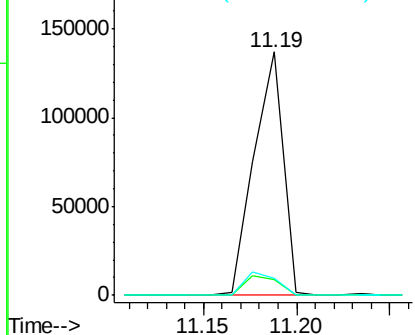
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 840
Delta R.T. -0.03 min
Lab File: BF089029.D
Acq: 15 Jul 2016 21:31

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB04(0-2in)

Tgt Ion:188 Resp: 148177
Ion Ratio Lower Upper
188 100
94 6.7 9.0 13.6#
80 6.9 10.0 15.0#

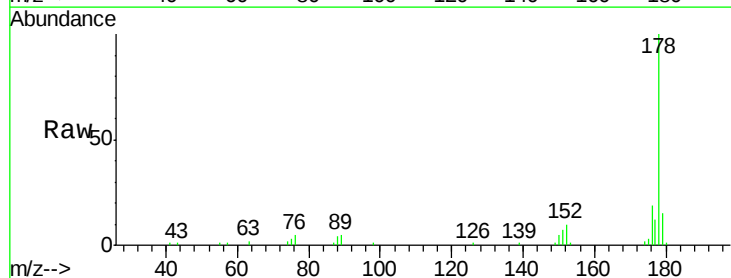


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

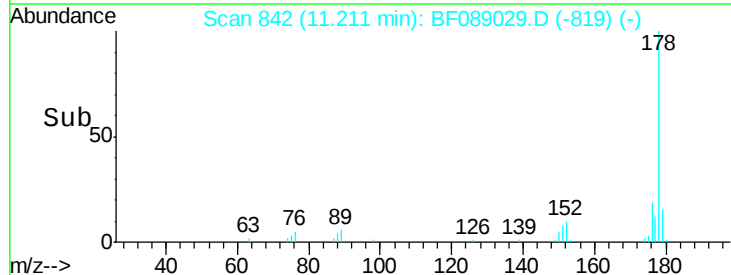
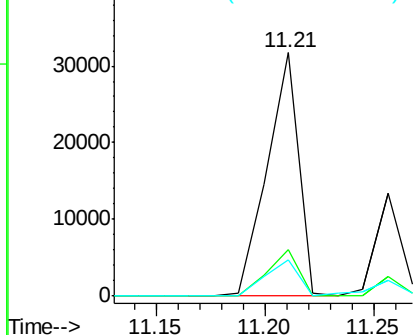


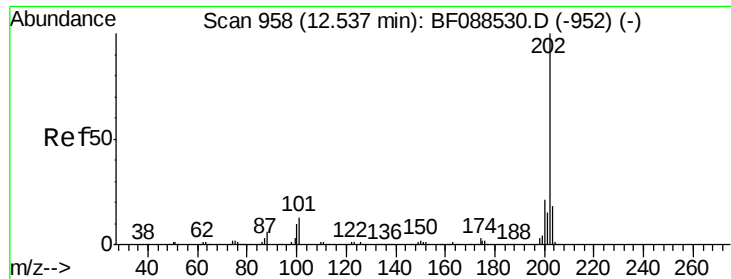
#70
Phenanthrene
Concen: 3.98 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.03 min
Lab File: BF089029.D
Acq: 15 Jul 2016 21:31

Tgt Ion:178 Resp: 32258
Ion Ratio Lower Upper
178 100
176 19.2 15.8 23.6
179 14.9 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





#74

Fluoranthene

Concen: 9.46 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.03 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2in)

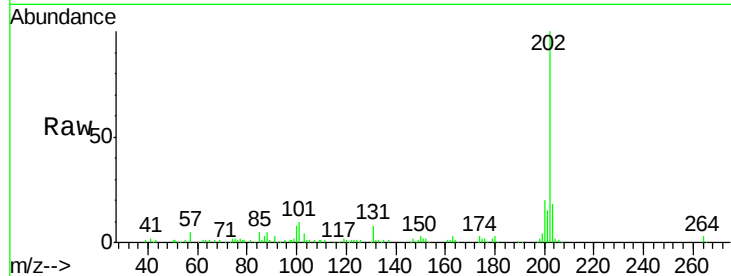
Tgt Ion:202 Resp: 77680

Ion Ratio Lower Upper

202 100

101 10.1 0.0 33.1

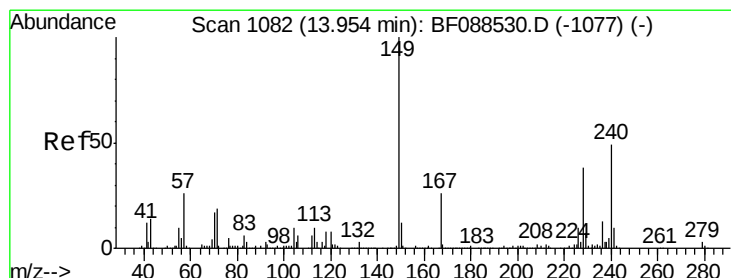
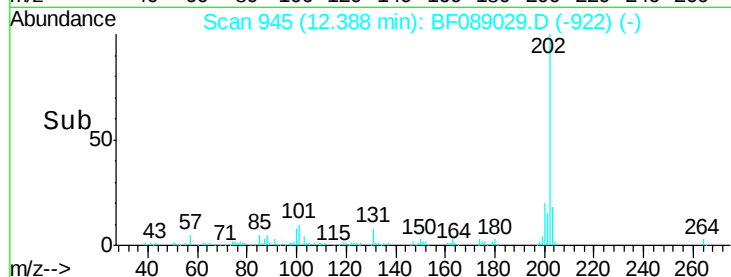
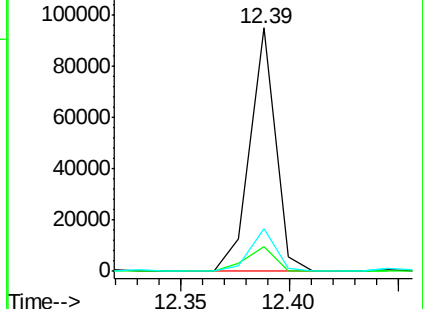
203 17.6 0.0 38.1



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: BF089029.D

Acq: 15 Jul 2016 21:31

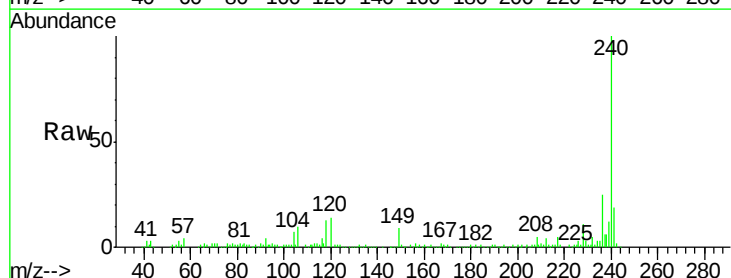
Tgt Ion:240 Resp: 111262

Ion Ratio Lower Upper

240 100

120 13.7 6.8 10.2#

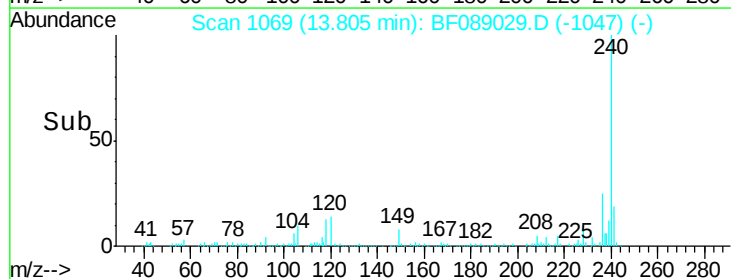
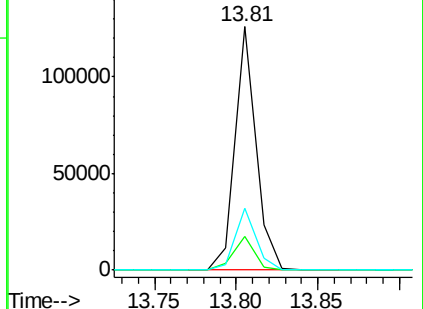
236 25.2 20.2 30.2

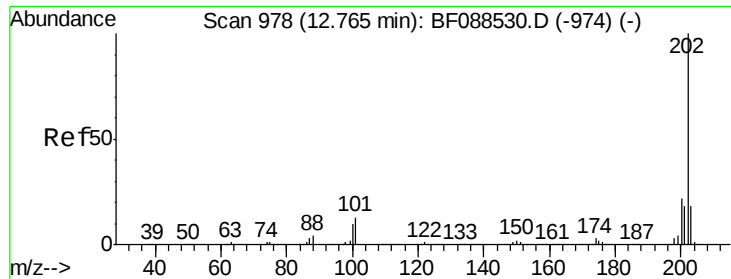


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

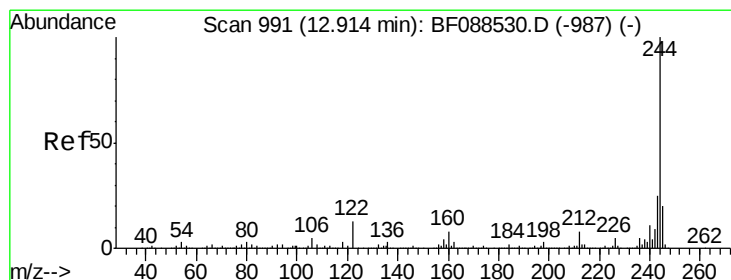
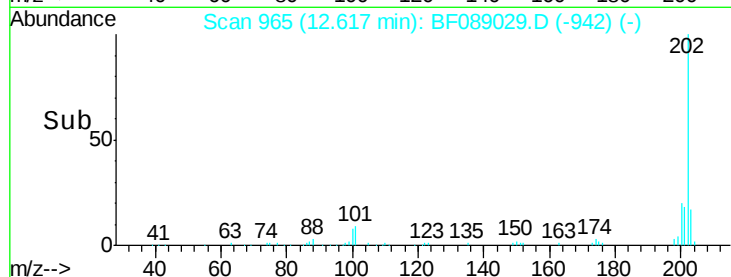
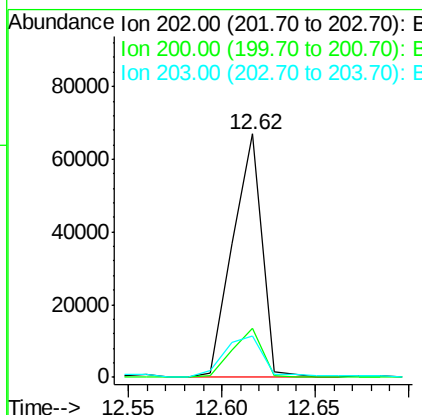
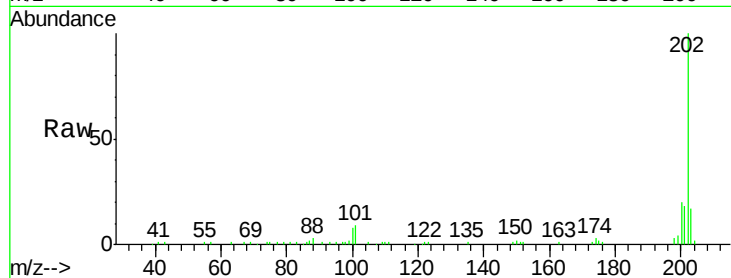




#77
 Pyrene
 Concen: 7.82 ng
 RT: 12.62 min Scan# 965
 Delta R.T. -0.03 min
 Lab File: BF089029.D
 Acq: 15 Jul 2016 21:31

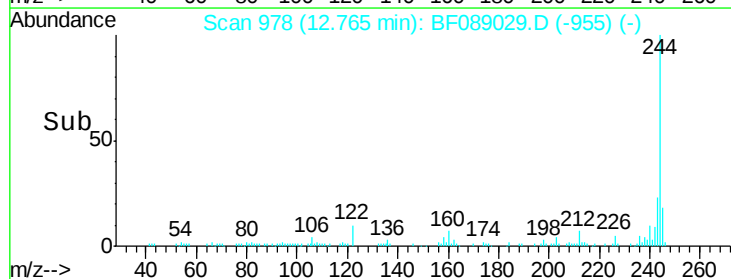
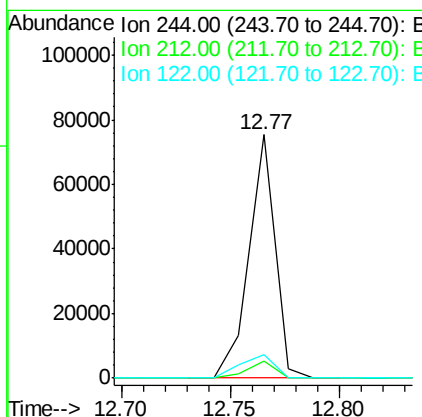
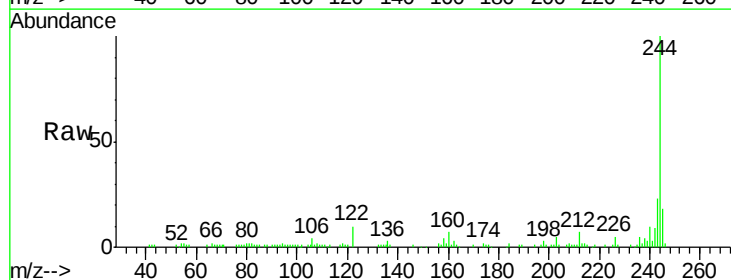
Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB04(0-2in)

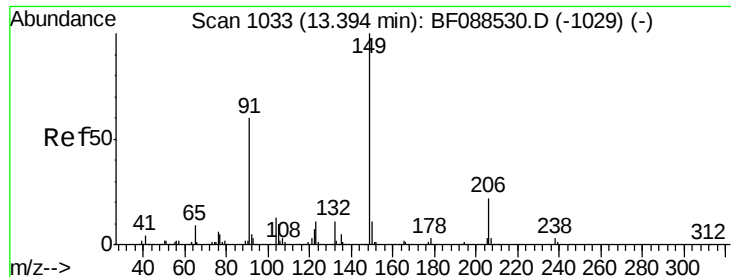
Tgt Ion: 202 Resp: 73775
 Ion Ratio Lower Upper
 202 100
 200 20.4 17.4 26.2
 203 17.1 14.5 21.7



#78
 Terphenyl-d14
 Concen: 12.56 ng
 RT: 12.77 min Scan# 978
 Delta R.T. -0.03 min
 Lab File: BF089029.D
 Acq: 15 Jul 2016 21:31

Tgt Ion: 244 Resp: 62724
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 9.6 11.2 16.8#

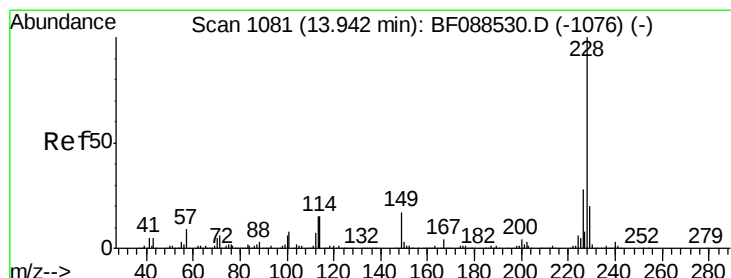
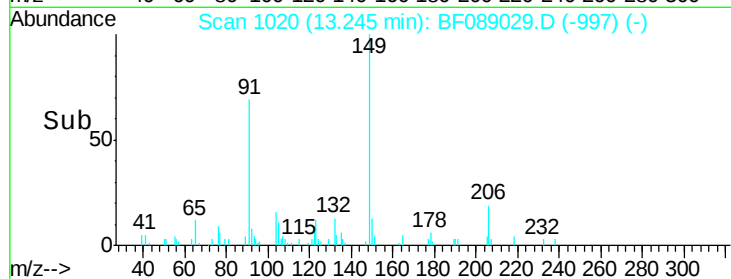
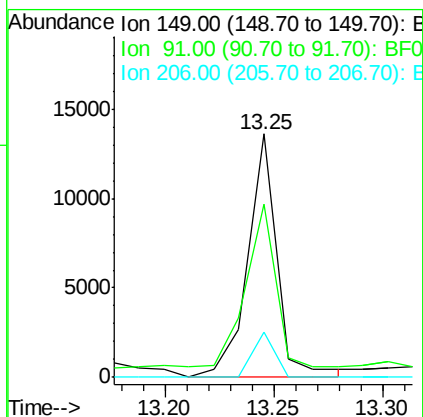
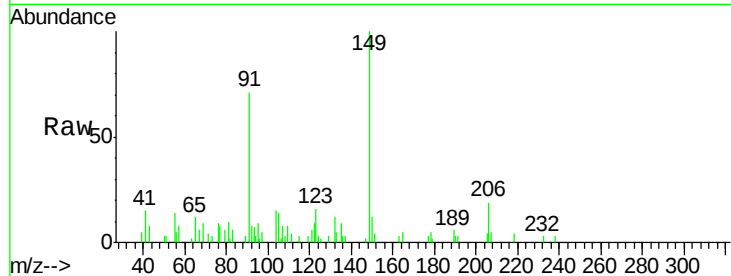




#79
Butylbenzylphthalate
Concen: 3.05 ng
RT: 13.25 min Scan# 1020
Delta R.T. -0.03 min
Lab File: BF089029.D
Acq: 15 Jul 2016 21:31

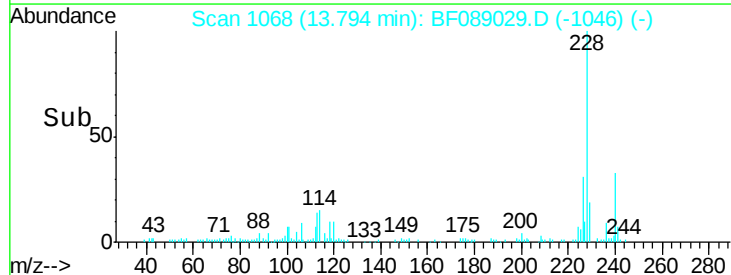
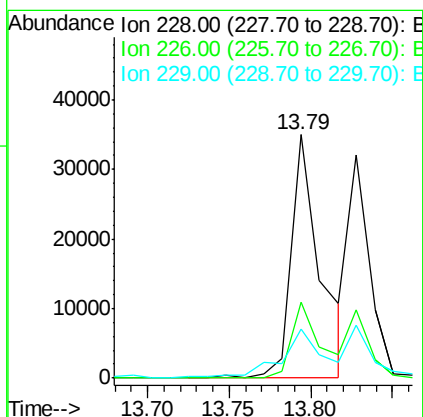
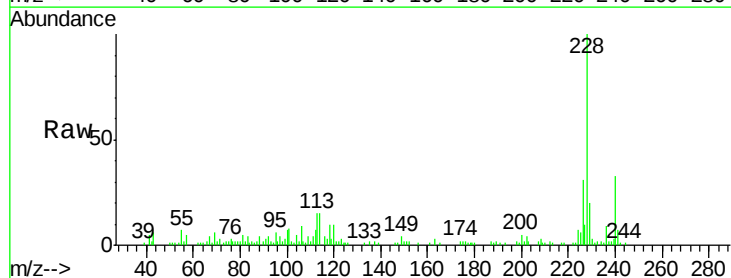
Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB04(0-2in)

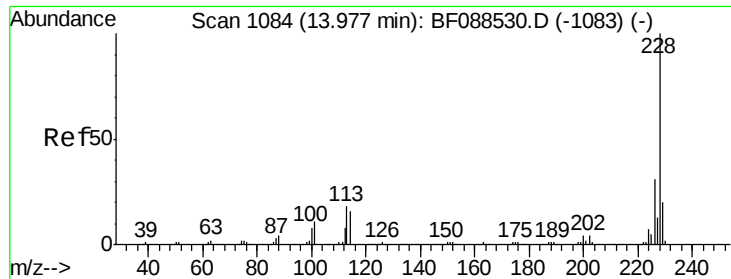
Tgt Ion:149 Resp: 12822
Ion Ratio Lower Upper
149 100
91 71.0 48.0 72.0
206 18.8 16.0 24.0



#80
Benzo(a)anthracene
Concen: 6.06 ng
RT: 13.79 min Scan# 1068
Delta R.T. -0.05 min
Lab File: BF089029.D
Acq: 15 Jul 2016 21:31

Tgt Ion:228 Resp: 43430
Ion Ratio Lower Upper
228 100
226 31.2 22.3 33.5
229 20.2 16.0 24.0





#82

Chrysene

Concen: 6.13 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.08 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2in)

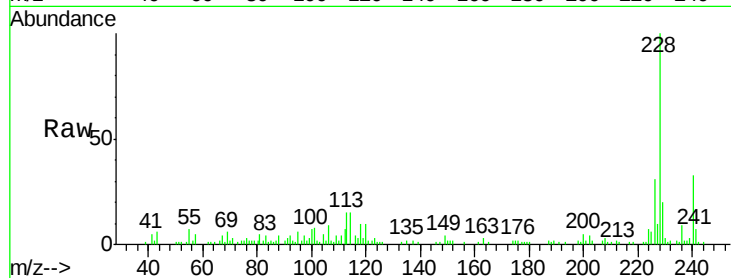
Tgt Ion: 228 Resp: 43430

Ion Ratio Lower Upper

228 100

226 31.2 25.4 38.2

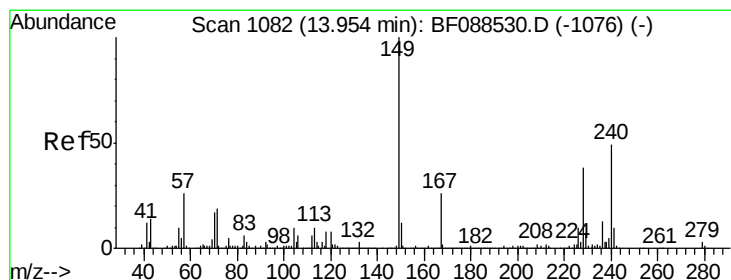
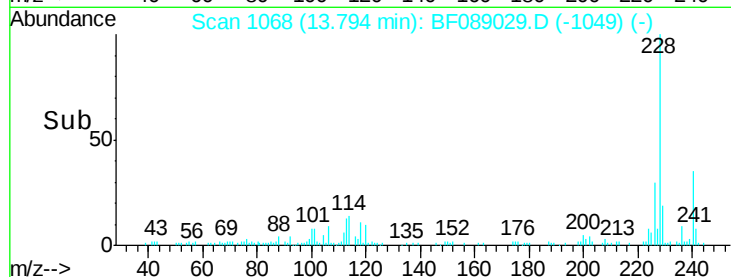
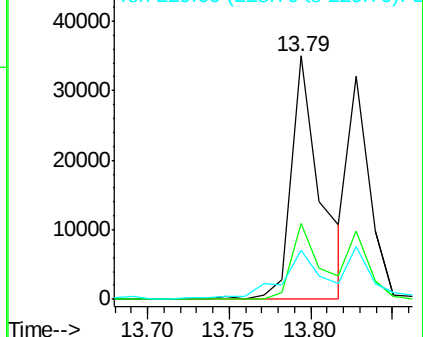
229 20.2 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.64 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.03 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

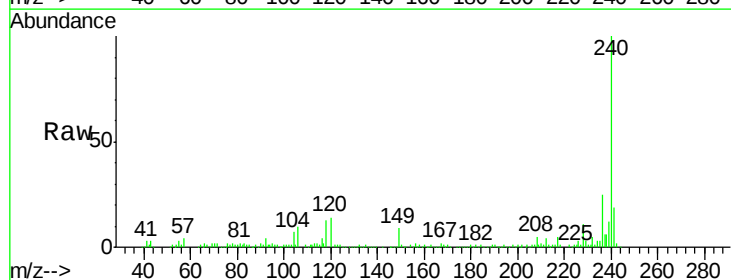
Tgt Ion: 149 Resp: 12664

Ion Ratio Lower Upper

149 100

167 23.6 20.5 30.7

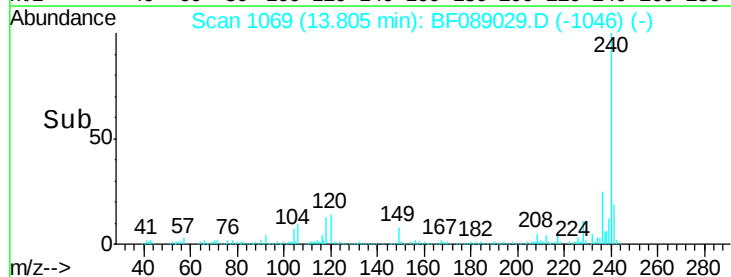
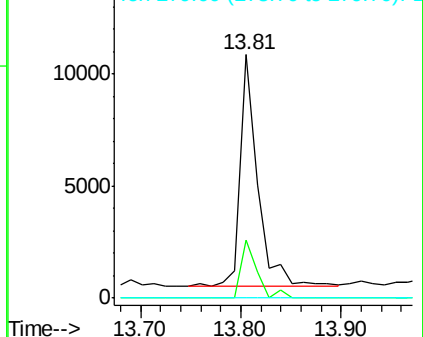
279 0.0 2.0 3.0#

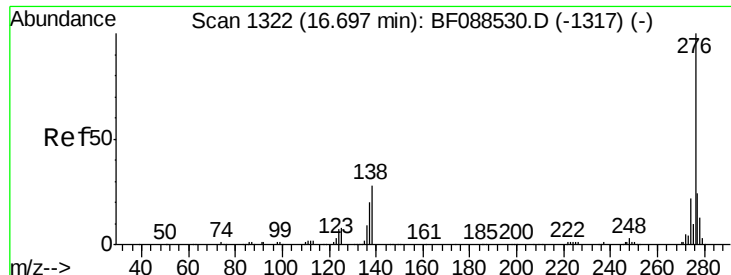


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

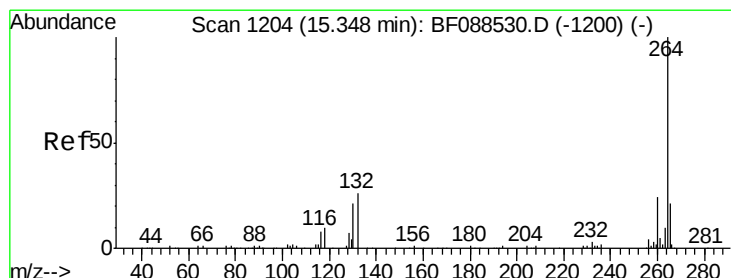
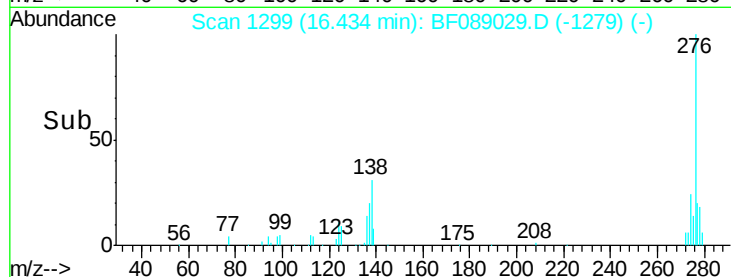
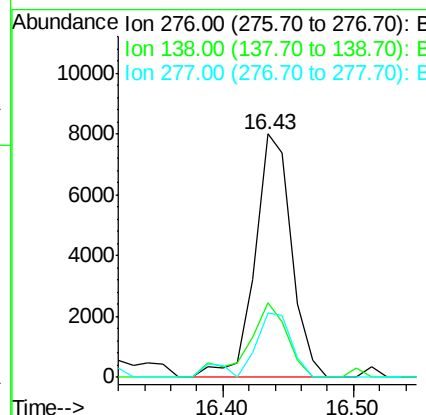
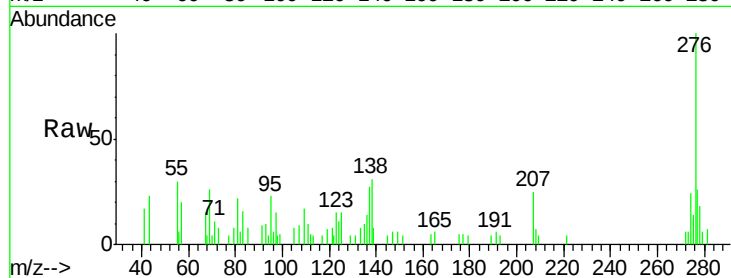




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.86 ng
 RT: 16.43 min Scan# 1299
 Delta R.T. -0.07 min
 Lab File: BF089029.D
 Acq: 15 Jul 2016 21:31

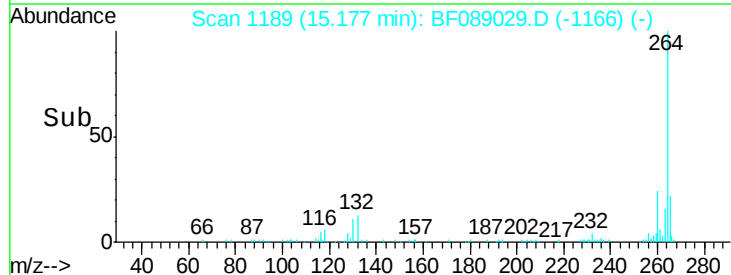
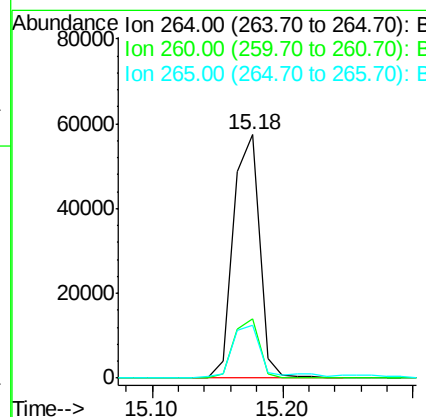
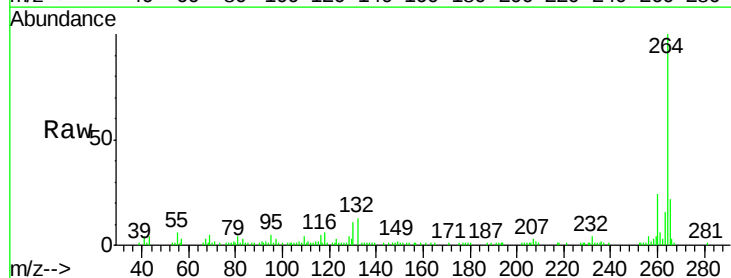
Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB04(0-2in)

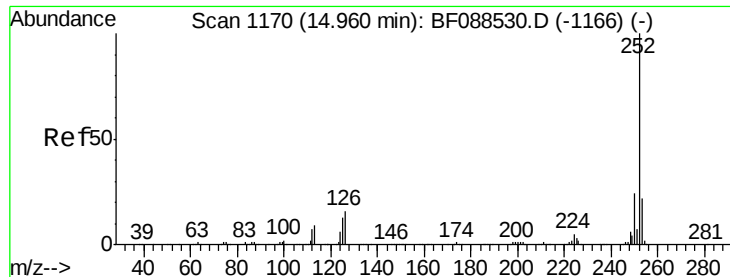
Tgt Ion: 276 Resp: 15585
 Ion Ratio Lower Upper
 276 100
 138 32.8 0.0 0.0#
 277 28.4 0.0 0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.18 min Scan# 1189
 Delta R.T. -0.03 min
 Lab File: BF089029.D
 Acq: 15 Jul 2016 21:31

Tgt Ion: 264 Resp: 79933
 Ion Ratio Lower Upper
 264 100
 260 24.2 19.2 28.8
 265 21.8 16.9 25.3





#87

Benzo(b)fluoranthene

Concen: 10.64 ng

RT: 14.80 min Scan# 1156

Delta R.T. -0.03 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2in)

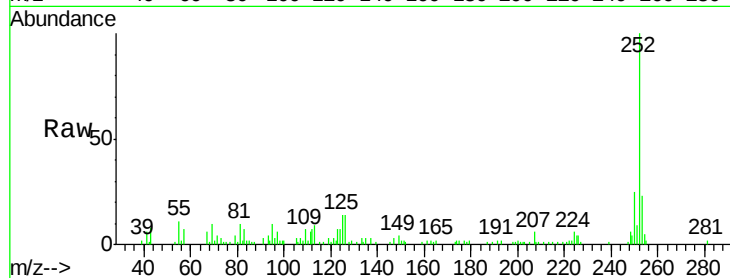
Tgt Ion:252 Resp: 53374

Ion Ratio Lower Upper

252 100

253 23.5 17.4 26.2

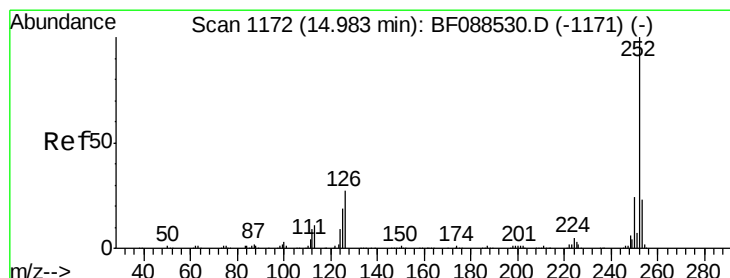
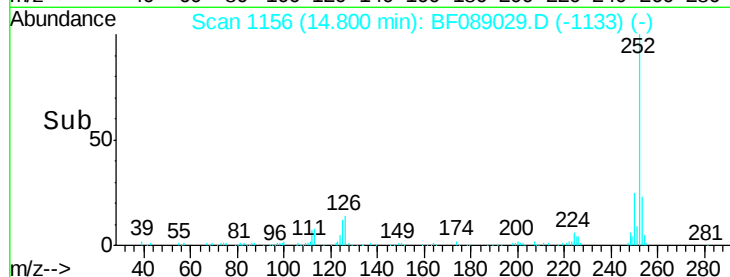
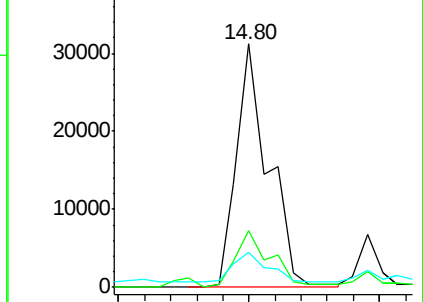
125 14.3 7.1 10.7#



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: 12.23 ng

RT: 14.80 min Scan# 1156

Delta R.T. -0.07 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

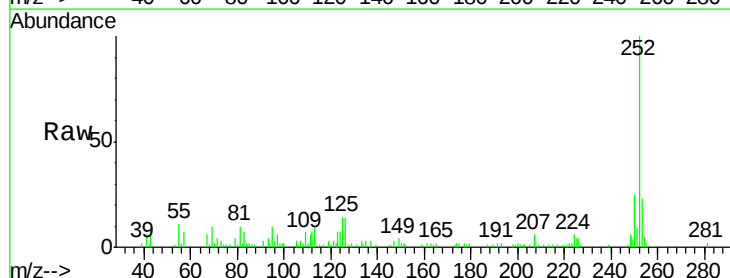
Tgt Ion:252 Resp: 53374

Ion Ratio Lower Upper

252 100

253 23.5 18.0 27.0

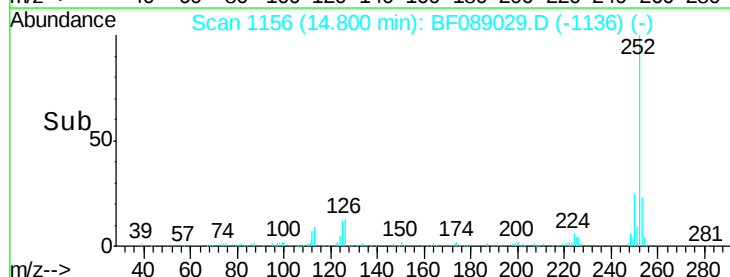
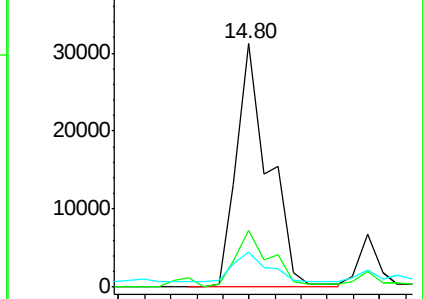
125 14.3 11.2 16.8

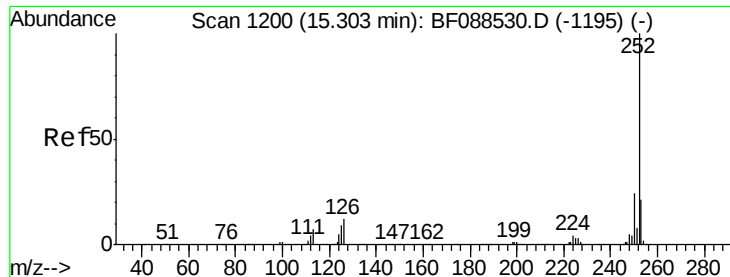


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 4.74 ng

RT: 15.06 min Scan# 1179

Delta R.T. -0.10 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2in)

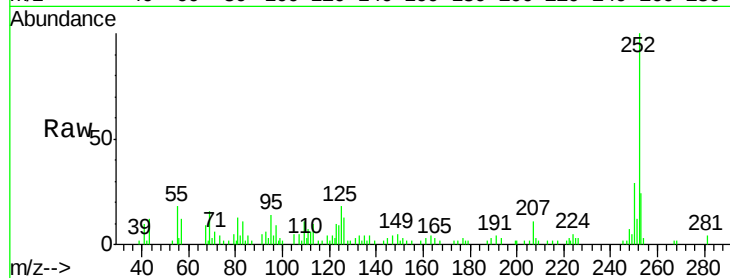
Tgt Ion:252 Resp: 20117

Ion Ratio Lower Upper

252 100

253 24.1 17.9 26.9

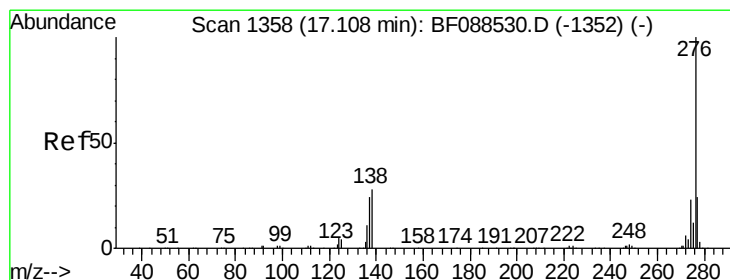
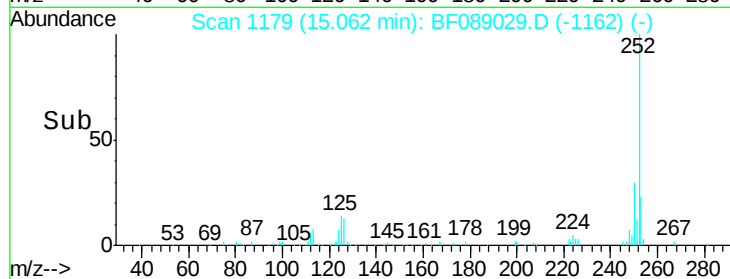
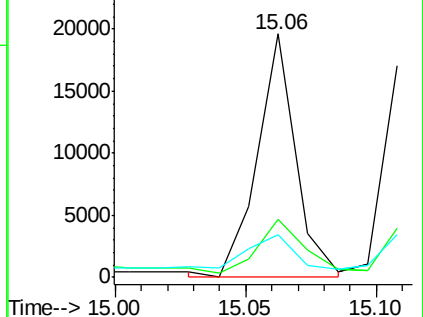
125 17.5 12.5 18.7



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



#91

Benzo(g,h,i)perylene

Concen: 4.32 ng

RT: 16.82 min Scan# 1333

Delta R.T. -0.07 min

Lab File: BF089029.D

Acq: 15 Jul 2016 21:31

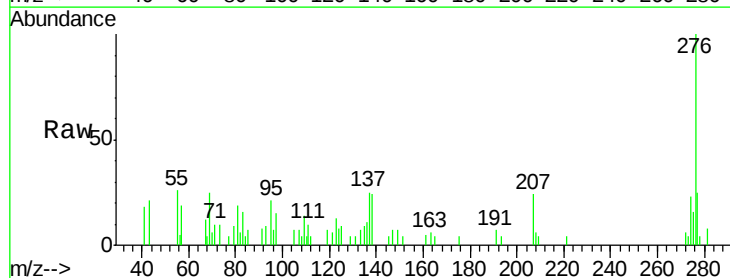
Tgt Ion:276 Resp: 15864

Ion Ratio Lower Upper

276 100

277 24.9 18.9 28.3

138 24.3 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

