

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071516\
 Data File : BF089025.D
 Acq On : 15 Jul 2016 19:28
 Operator : UM/SJ
 Sample : H3951-08 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB03(0-2ft)

Quant Time: Jul 15 22:59:50 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	59408	20.00	ng	-0.03
21) Naphthalene-d8	7.96	136	235308	20.00	ng	-0.03
38) Acenaphthene-d10	9.71	164	88776	20.00	ng	-0.03
63) Phenanthrene-d10	11.19	188	131508	20.00	ng	-0.03
75) Chrysene-d12	13.81	240	102698	20.00	ng	-0.05
86) Perylene-d12	15.18	264	75413	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.27	112	114965	29.00	ng	-0.02
7) Phenol-d6	6.32	99	137306	26.81	ng	-0.03
23) Nitrobenzene-d5	7.23	82	79223	17.64	ng	-0.05
41) 2,4,6-Tribromophenol	10.49	330	15983	19.39	ng	-0.05
44) 2-Fluorobiphenyl	9.04	172	153483	27.31	ng	-0.03
78) Terphenyl-d14	12.77	244	89857	19.49	ng	-0.03

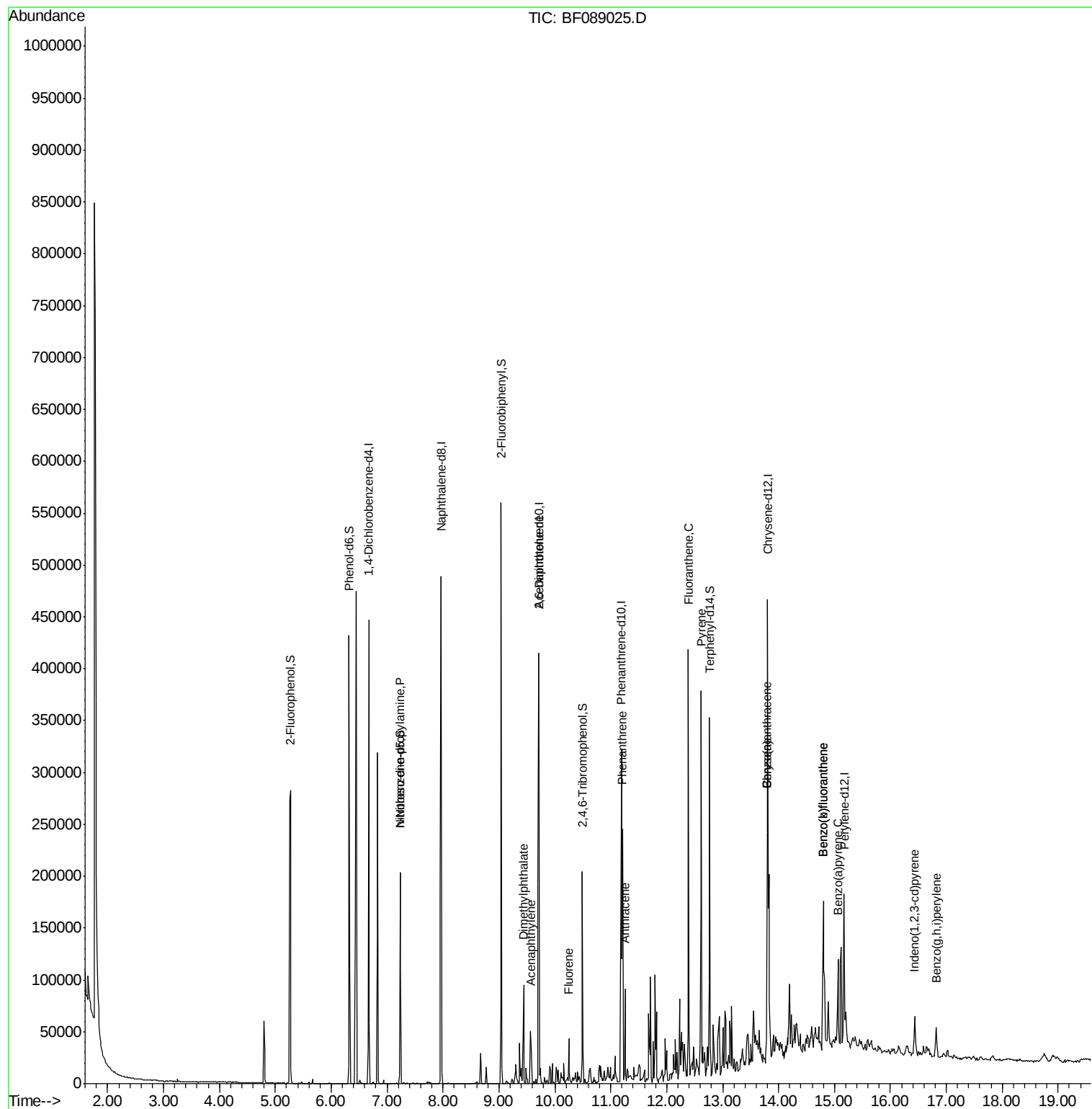
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.23	70	10673	3.10	ng	# 76
48) Acenaphthylene	9.56	152	25561	2.78	ng	98
49) Dimethylphthalate	9.44	163	40210	6.36	ng	98
50) 2,6-Dinitrotoluene	9.71	165	11888	8.48	ng	# 37
57) Fluorene	10.25	166	13193	2.32	ng	98
70) Phenanthrene	11.21	178	104784	14.58	ng	96
71) Anthracene	11.26	178	32506	4.55	ng	99
74) Fluoranthene	12.39	202	142054	19.49	ng	98
77) Pyrene	12.62	202	157264	18.06	ng	99
80) Benzo(a)anthracene	13.79	228	82253	12.44	ng	# 91
82) Chrysene	13.79	228	82253	12.57	ng	95
85) Indeno(1,2,3-cd)pyrene	16.43	276	24662	4.90	ng	# 100
87) Benzo(b)fluoranthene	14.80	252	82527	17.44	ng	# 95
88) Benzo(k)fluoranthene	14.80	252	82510	20.03	ng	99
89) Benzo(a)pyrene	15.06	252	33481	8.36	ng	97
91) Benzo(g,h,i)perylene	16.82	276	24143	6.98	ng	95

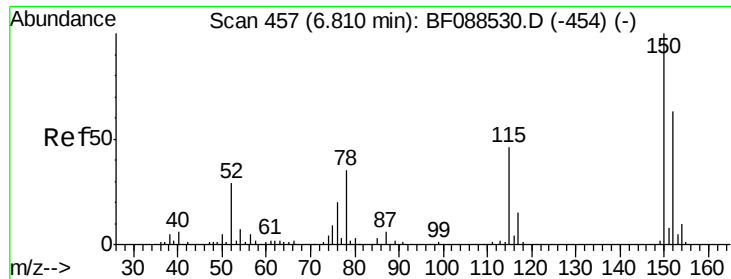
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

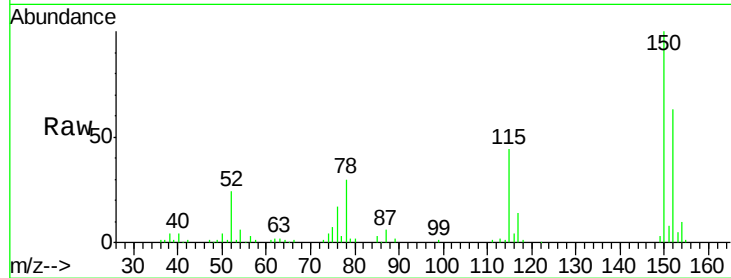
Tgt Ion:152 Resp: 59408

Ion Ratio Lower Upper

152 100

150 159.8 123.8 185.6

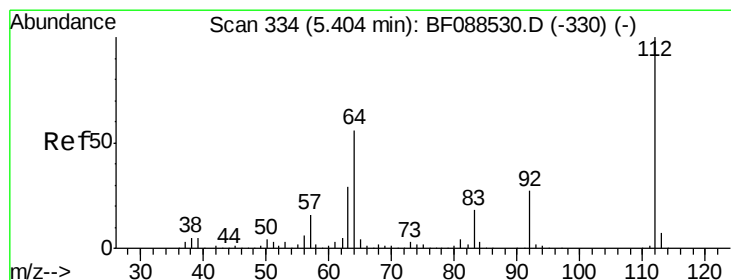
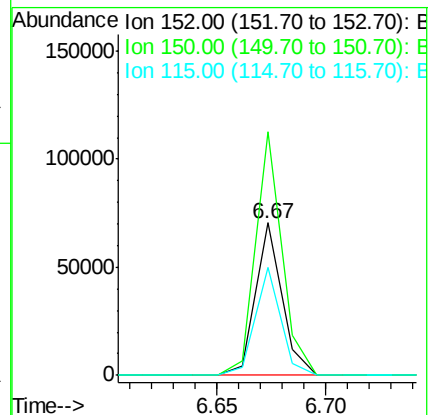
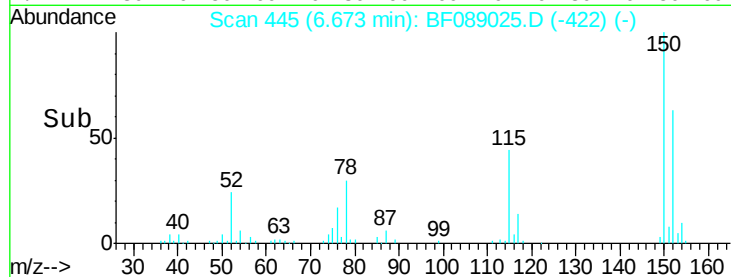
115 70.6 39.6 59.4#



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: 29.00 ng

RT: 5.27 min Scan# 322

Delta R.T. -0.02 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

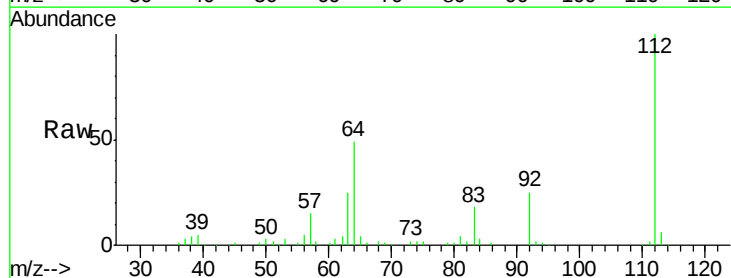
Tgt Ion:112 Resp: 114965

Ion Ratio Lower Upper

112 100

64 48.7 42.2 63.2

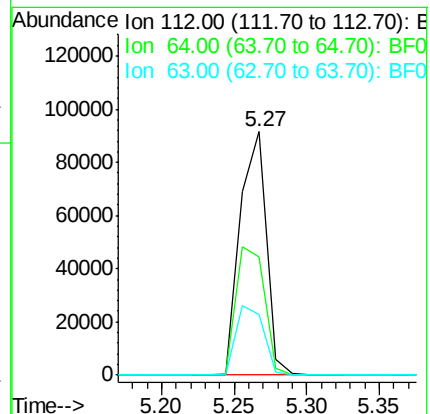
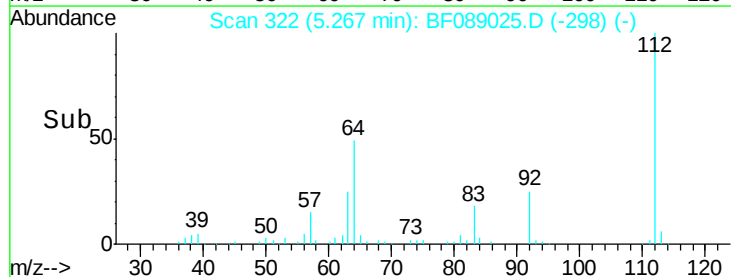
63 24.7 21.8 32.8



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: 26.81 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

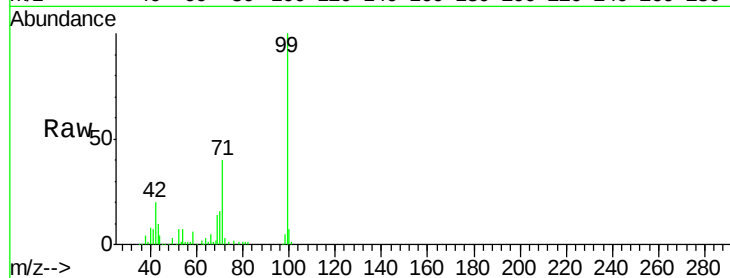
Tgt Ion: 99 Resp: 137306

Ion Ratio Lower Upper

99 100

42 19.5 12.2 18.2#

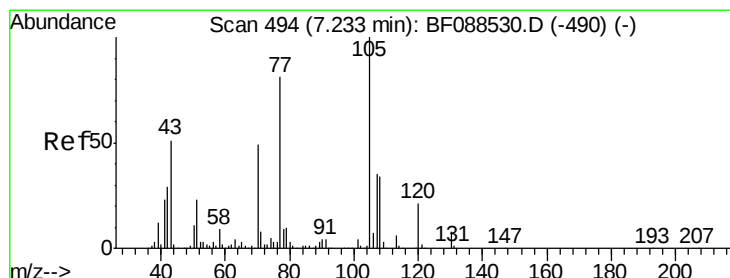
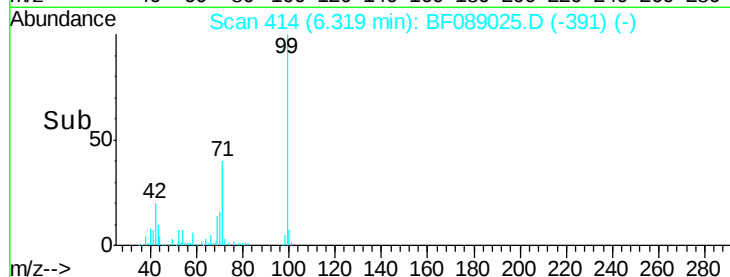
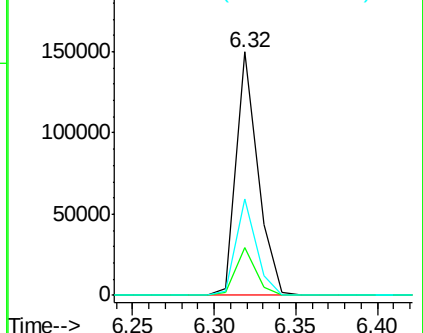
71 39.7 23.4 35.0#



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: 3.10 ng

RT: 7.23 min Scan# 494

Delta R.T. 0.09 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Tgt Ion: 70 Resp: 10673

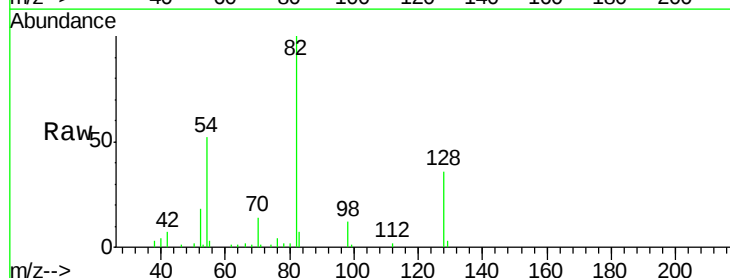
Ion Ratio Lower Upper

70 100

42 47.8 49.6 74.4#

101 0.0 7.1 10.7#

130 0.0 15.4 23.2#

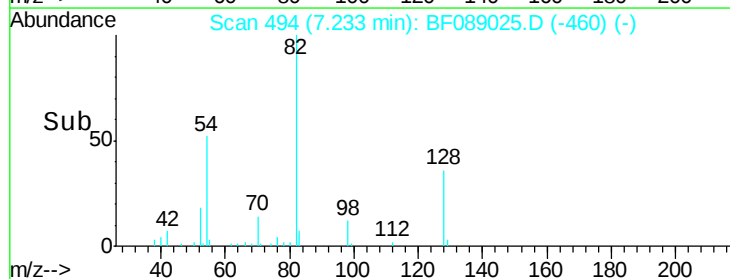
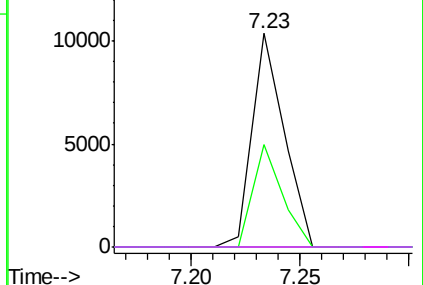


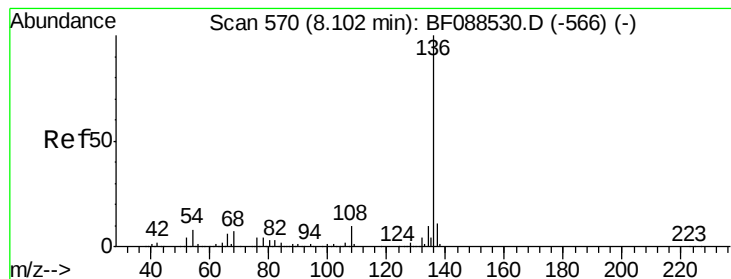
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

Tgt Ion:136 Resp: 235308

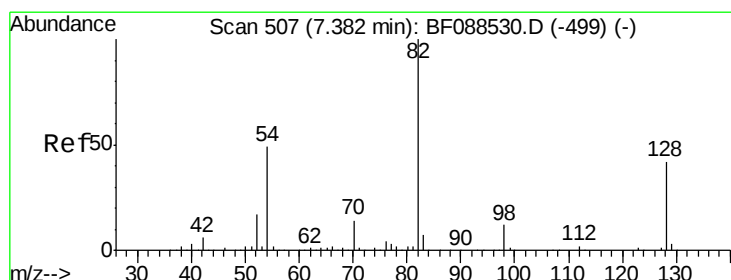
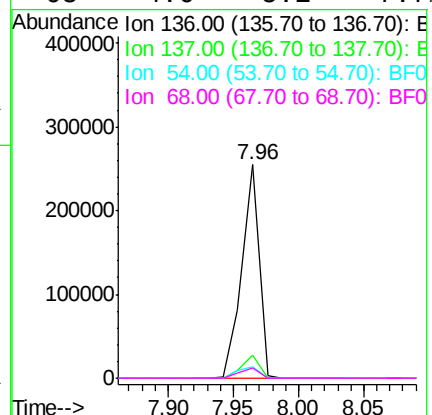
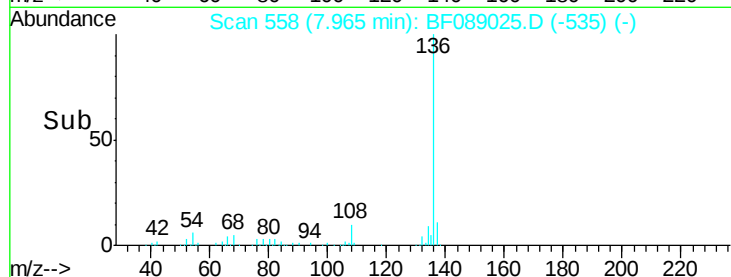
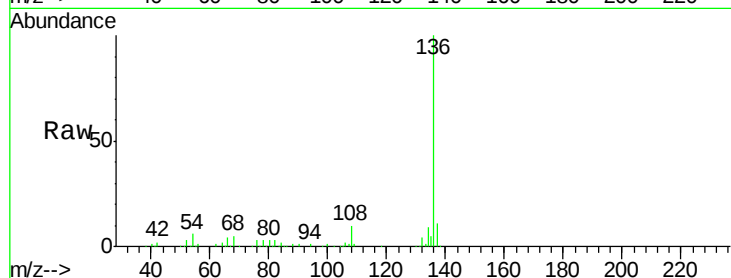
Ion Ratio Lower Upper

136 100

137 10.7 9.1 13.7

54 5.6 6.6 10.0#

68 4.6 5.1 7.7#



#23

Nitrobenzene-d5

Concen: 17.64 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.05 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

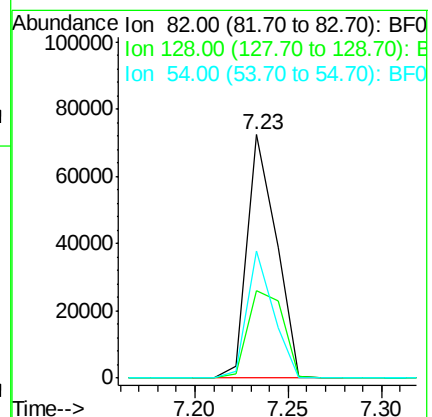
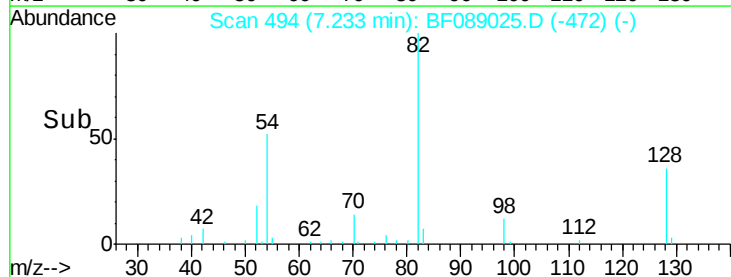
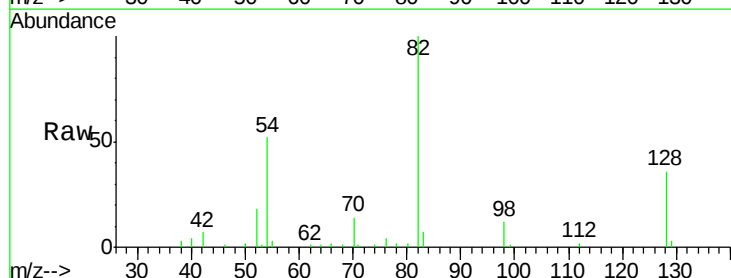
Tgt Ion: 82 Resp: 79223

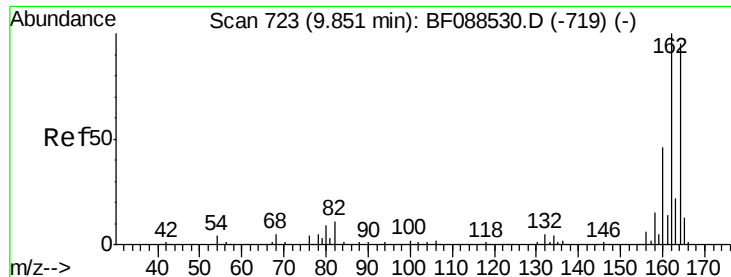
Ion Ratio Lower Upper

82 100

128 36.0 35.9 53.9

54 52.1 40.9 61.3





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.71 min Scan# 711

Delta R.T. -0.03 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

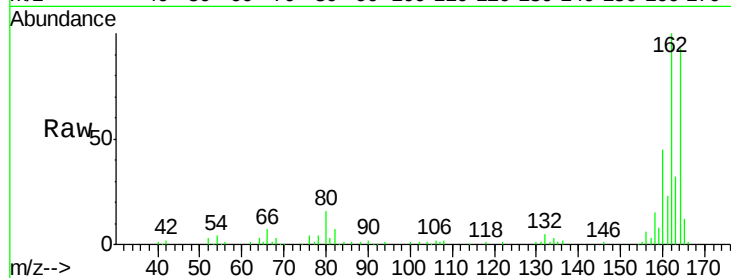
Tgt Ion:164 Resp: 88776

Ion Ratio Lower Upper

164 100

162 107.2 85.4 128.2

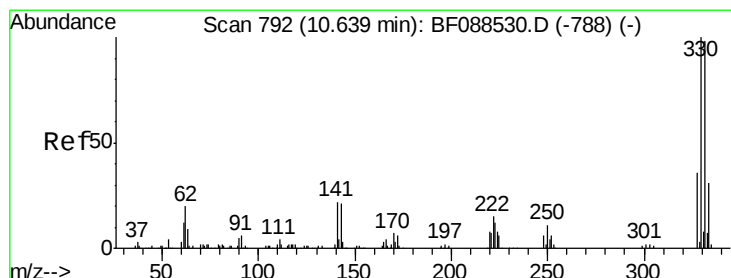
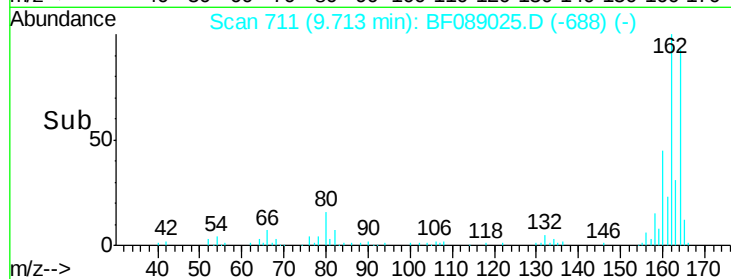
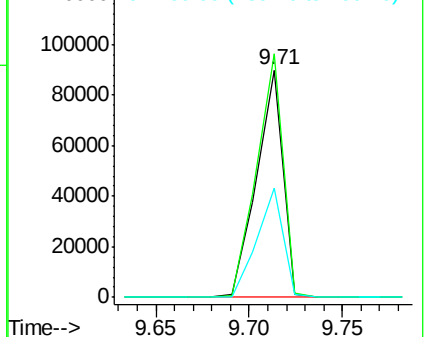
160 48.1 39.5 59.3



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: 19.39 ng

RT: 10.49 min Scan# 779

Delta R.T. -0.05 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

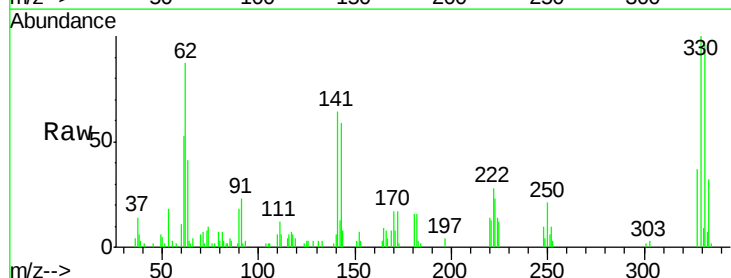
Tgt Ion:330 Resp: 15983

Ion Ratio Lower Upper

330 100

332 97.1 0.0 0.0#

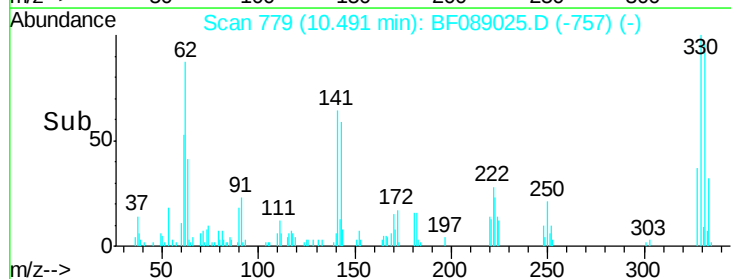
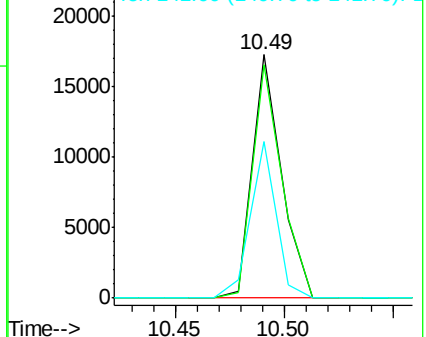
141 57.3 0.0 0.0#

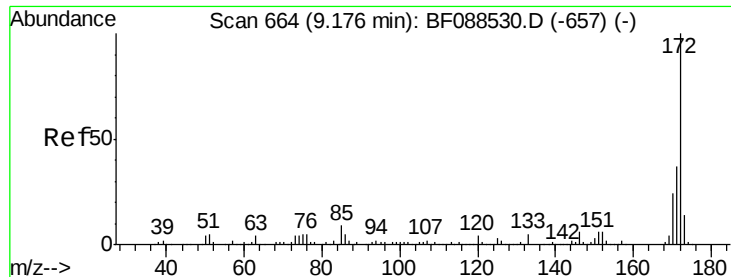


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

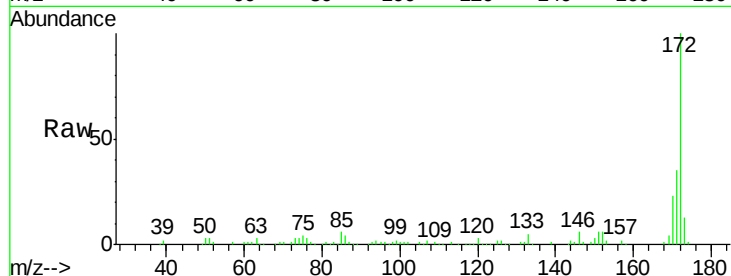




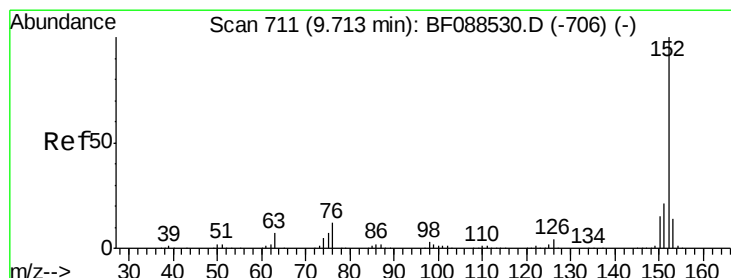
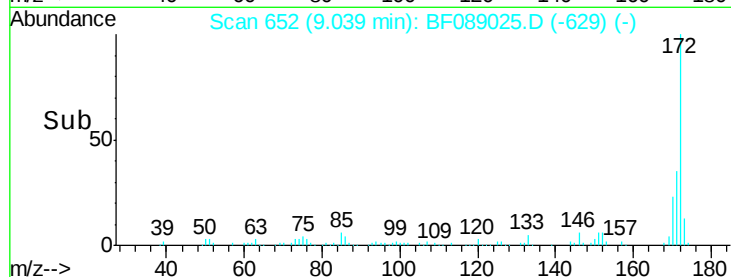
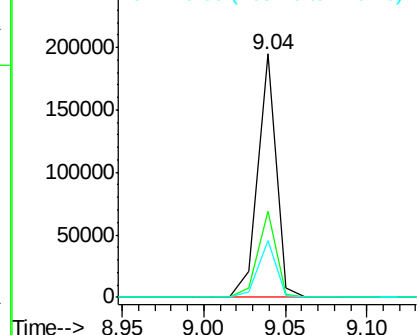
#44
 2-Fluorobiphenyl
 Concen: 27.31 ng
 RT: 9.04 min Scan# 652
 Delta R.T. -0.03 min
 Lab File: BF089025.D
 Acq: 15 Jul 2016 19:28

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB03(0-2ft)

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	23.3	19.2	28.8

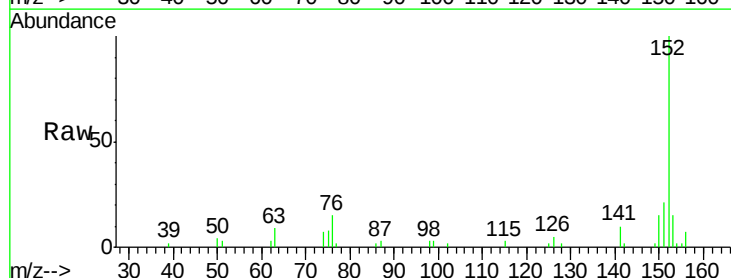


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

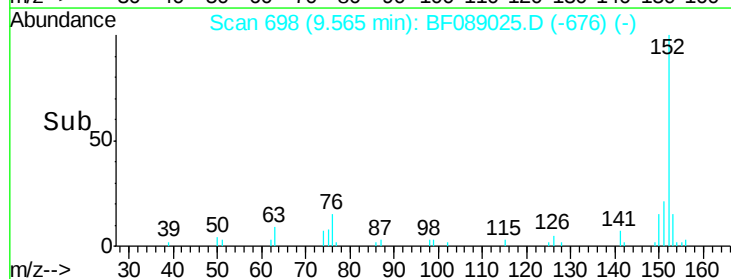
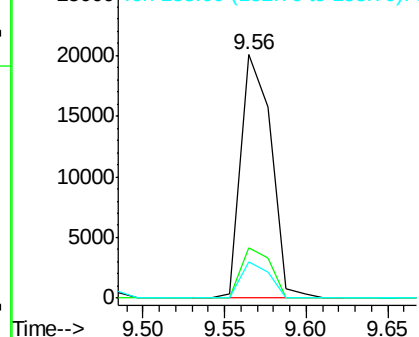


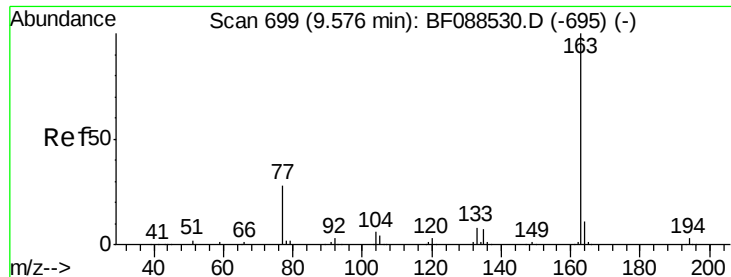
#48
 Acenaphthylene
 Concen: 2.78 ng
 RT: 9.56 min Scan# 698
 Delta R.T. -0.05 min
 Lab File: BF089025.D
 Acq: 15 Jul 2016 19:28

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.2	24.4
153	14.8	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

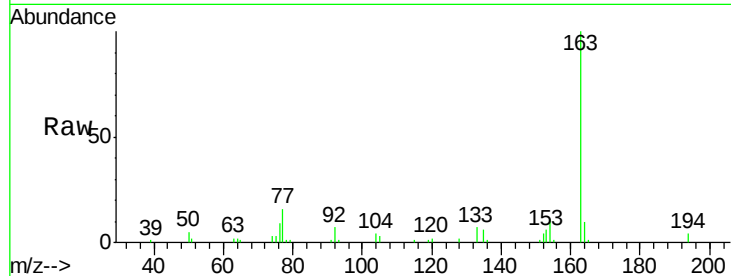




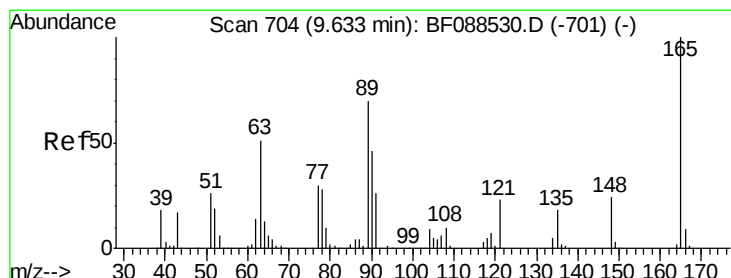
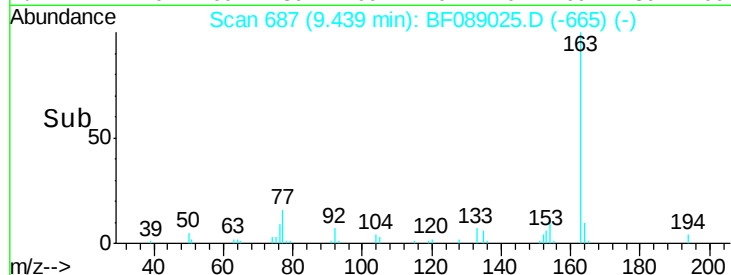
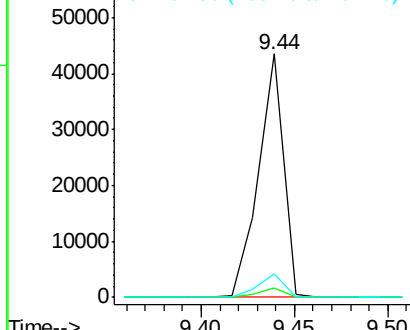
#49
Dimethylphthalate
Concen: 6.36 ng
RT: 9.44 min Scan# 687
Delta R.T. -0.05 min
Lab File: BF089025.D
Acq: 15 Jul 2016 19:28

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB03(0-2ft)

Tgt Ion:163 Resp: 40210
Ion Ratio Lower Upper
163 100
194 3.8 2.8 4.2
164 9.8 8.3 12.5

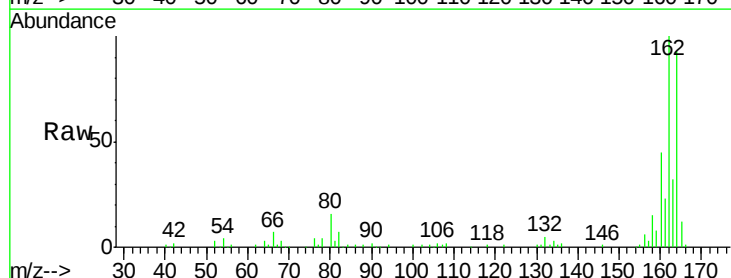


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

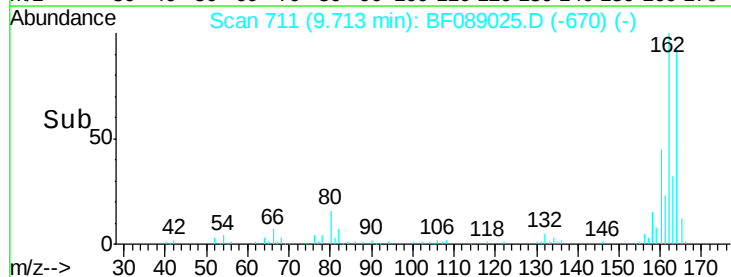
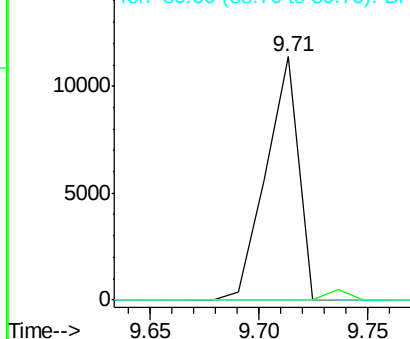


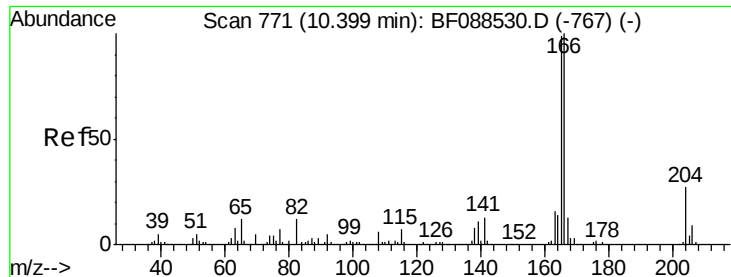
#50
2,6-Dinitrotoluene
Concen: 8.48 ng
RT: 9.71 min Scan# 711
Delta R.T. 0.17 min
Lab File: BF089025.D
Acq: 15 Jul 2016 19:28

Tgt Ion:165 Resp: 11888
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





#57

Fluorene

Concen: 2.32 ng

RT: 10.25 min Scan# 758

Delta R.T. -0.05 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

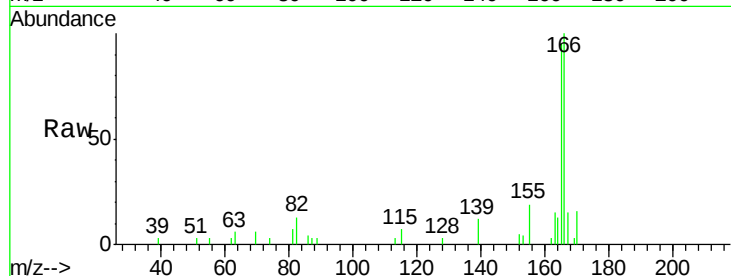
Tgt Ion:166 Resp: 13193

Ion Ratio Lower Upper

166 100

165 95.3 77.8 116.8

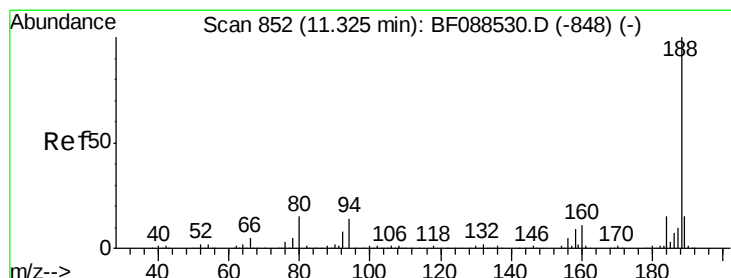
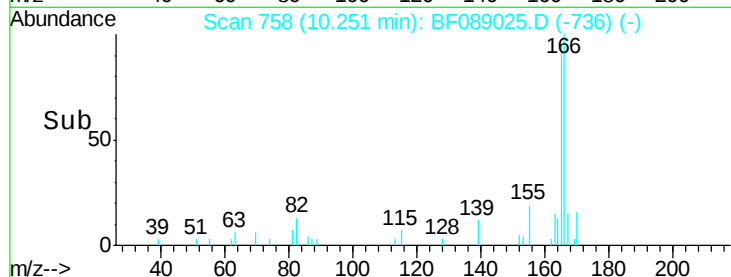
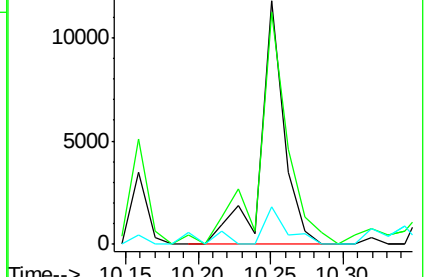
167 15.2 11.2 16.8



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.19 min Scan# 840

Delta R.T. -0.03 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

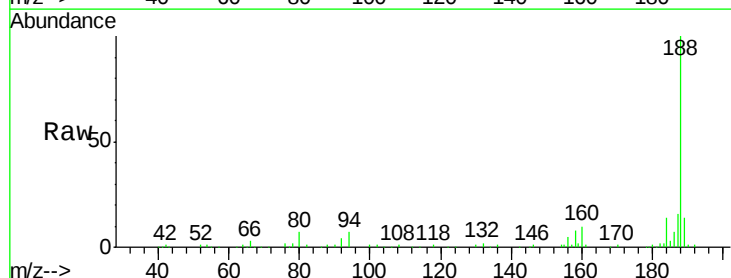
Tgt Ion:188 Resp: 131508

Ion Ratio Lower Upper

188 100

94 6.8 9.0 13.6#

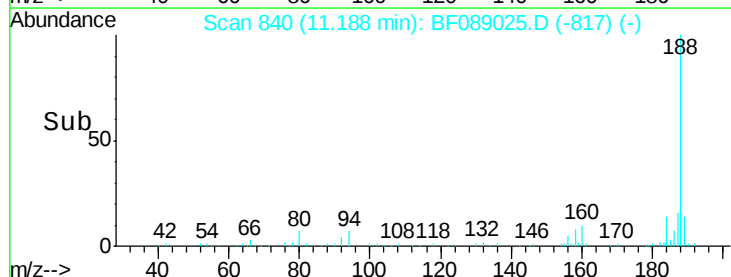
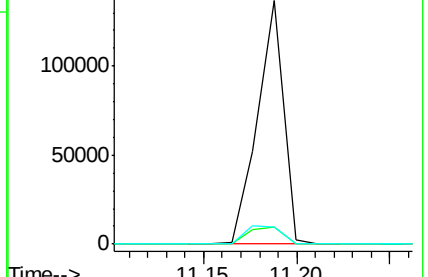
80 7.2 10.0 15.0#

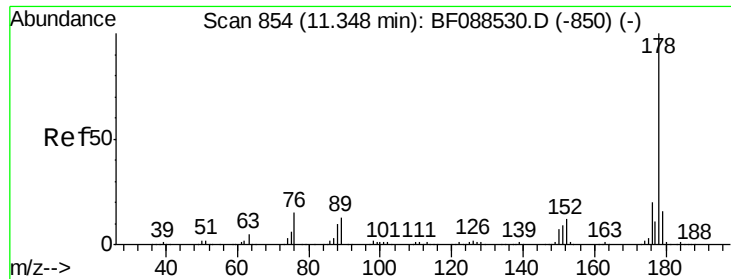


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

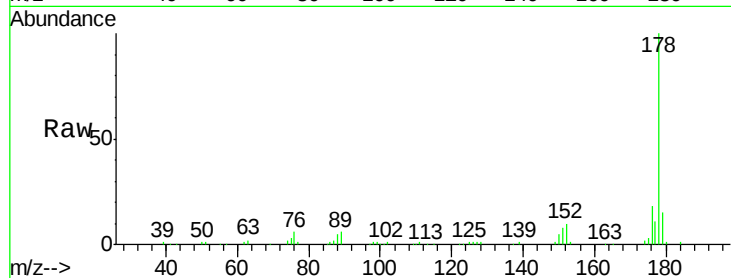




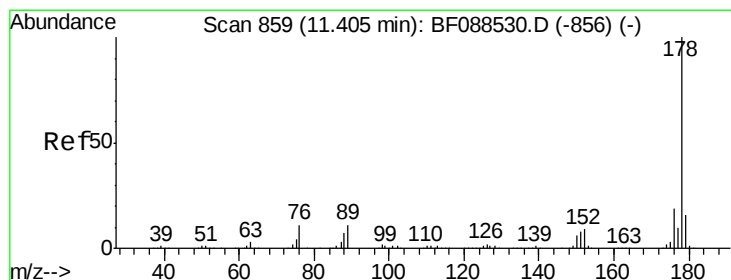
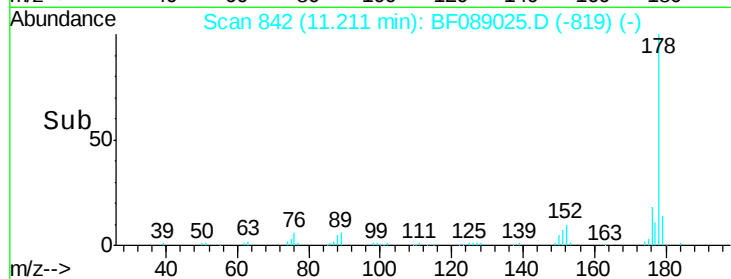
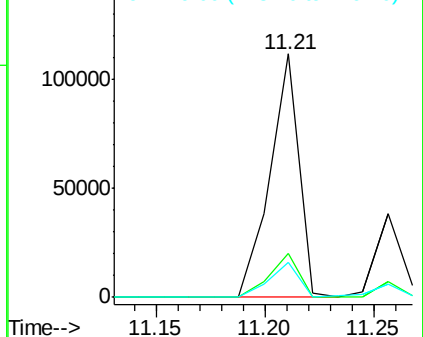
#70
Phenanthrene
Concen: 14.58 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.03 min
Lab File: BF089025.D
Acq: 15 Jul 2016 19:28

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB03(0-2ft)

Tgt Ion:178 Resp: 104784
Ion Ratio Lower Upper
178 100
176 17.9 15.8 23.6
179 14.6 13.0 19.4

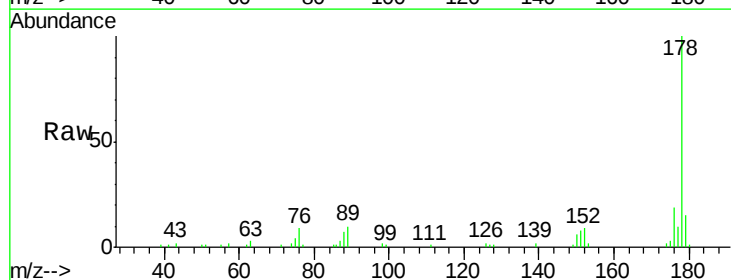


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

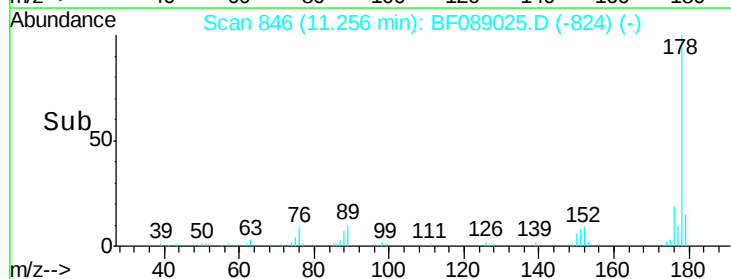
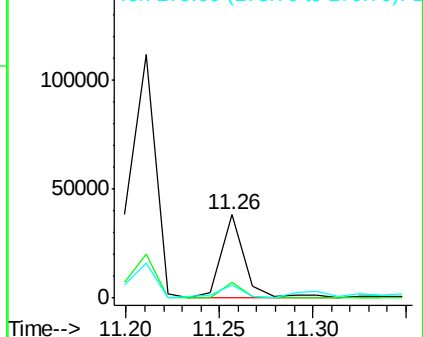


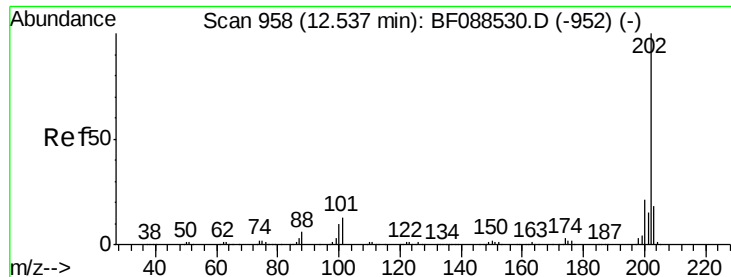
#71
Anthracene
Concen: 4.55 ng
RT: 11.26 min Scan# 846
Delta R.T. -0.05 min
Lab File: BF089025.D
Acq: 15 Jul 2016 19:28

Tgt Ion:178 Resp: 32506
Ion Ratio Lower Upper
178 100
176 19.0 15.6 23.4
179 15.4 12.8 19.2



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





#74

Fluoranthene

Concen: 19.49 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.03 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

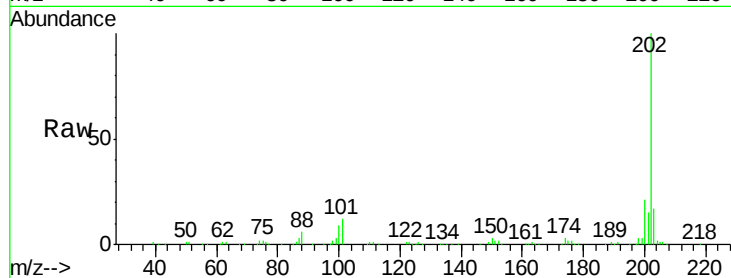
Tgt Ion: 202 Resp: 142054

Ion Ratio Lower Upper

202 100

101 12.1 0.0 33.1

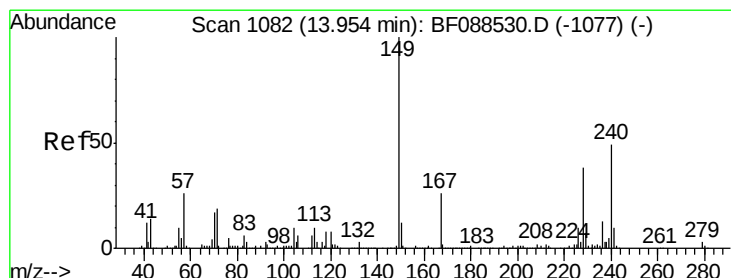
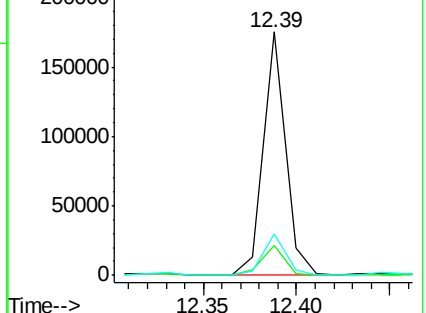
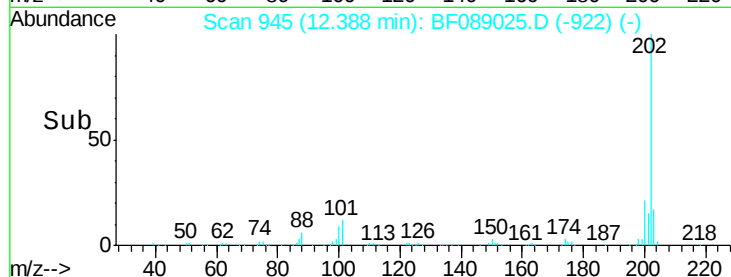
203 17.2 0.0 38.1



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: BF089025.D

Acq: 15 Jul 2016 19:28

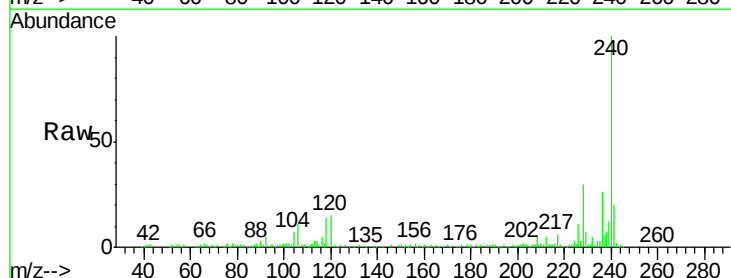
Tgt Ion: 240 Resp: 102698

Ion Ratio Lower Upper

240 100

120 14.6 6.8 10.2#

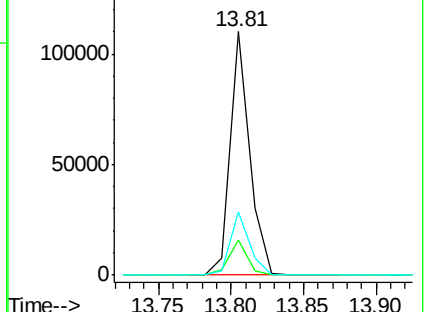
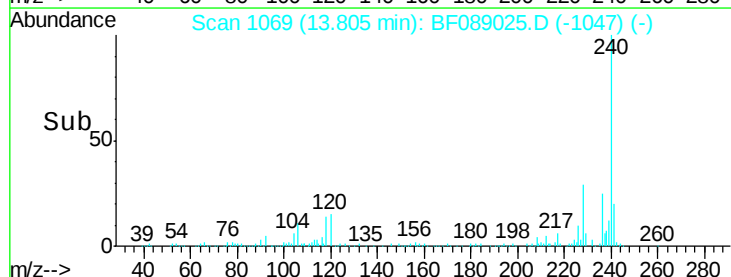
236 25.8 20.2 30.2

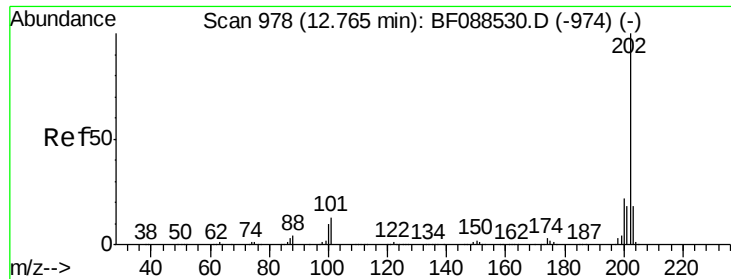


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 18.06 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

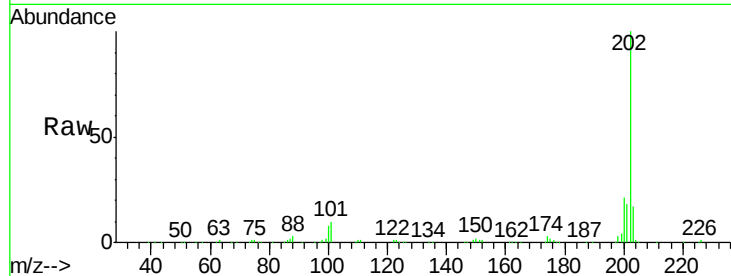
Tgt Ion: 202 Resp: 157264

Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.2

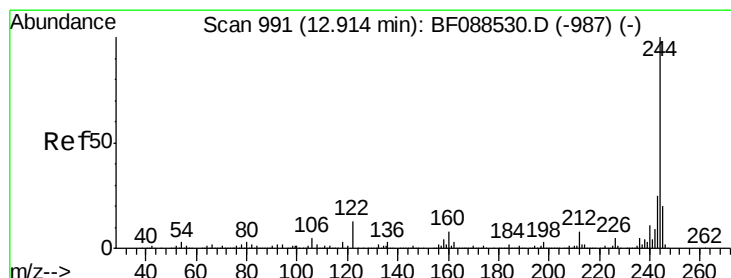
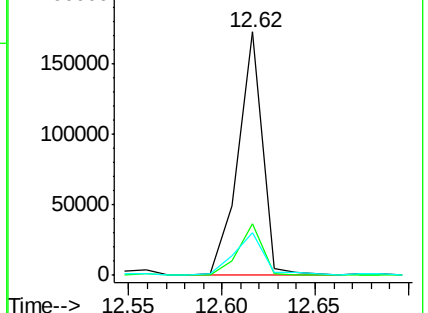
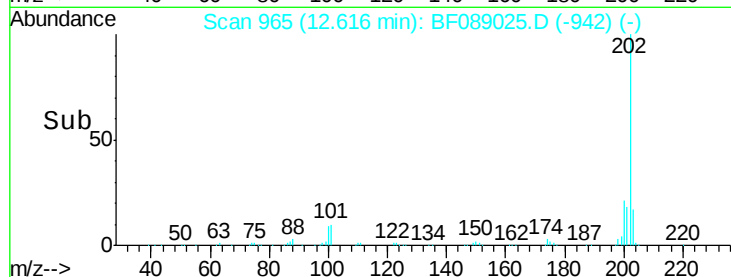
203 17.4 14.5 21.7



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: 19.49 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.03 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

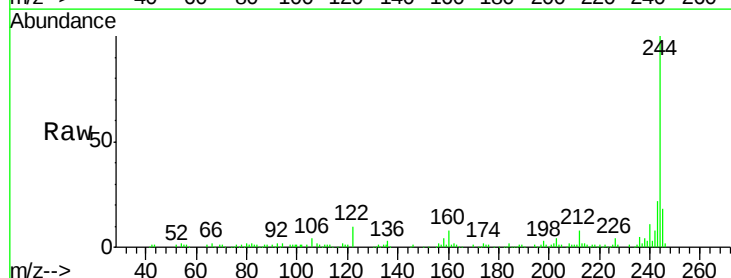
Tgt Ion: 244 Resp: 89857

Ion Ratio Lower Upper

244 100

212 7.7 6.0 9.0

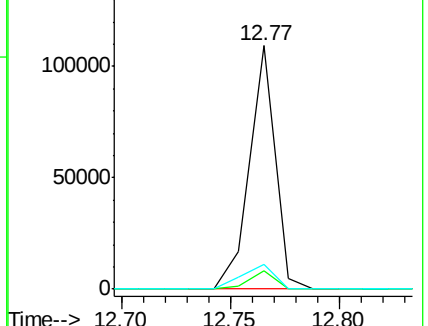
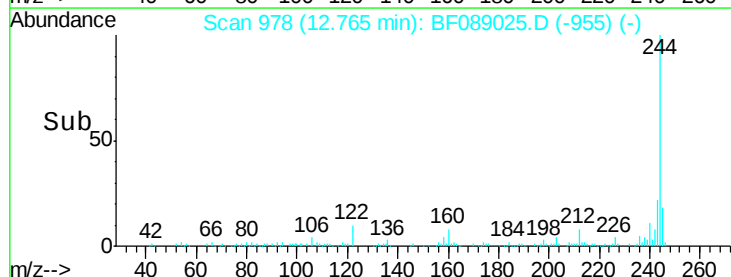
122 10.2 11.2 16.8#

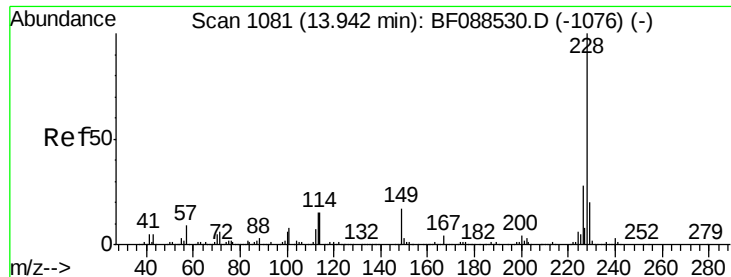


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 12.44 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.05 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

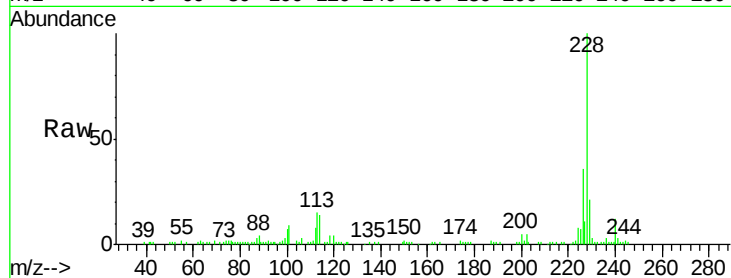
Tgt Ion: 228 Resp: 82253

Ion Ratio Lower Upper

228 100

226 35.9 22.3 33.5#

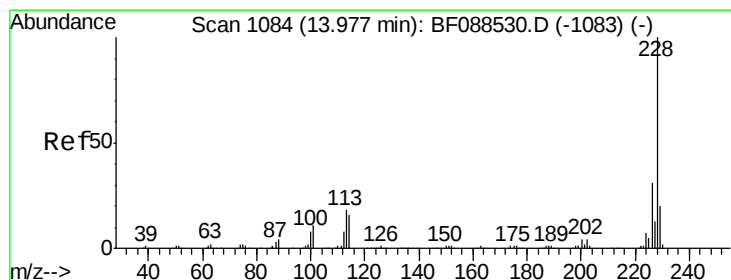
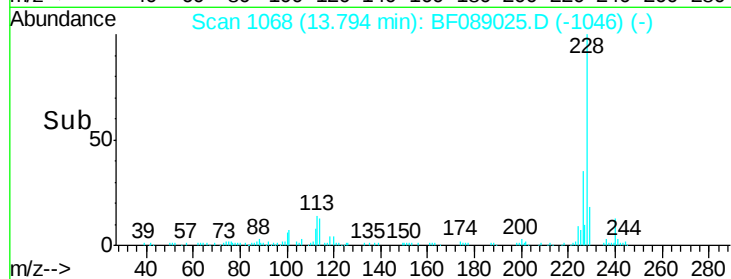
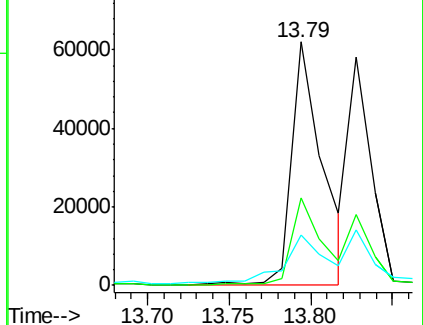
229 20.6 16.0 24.0



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: 12.57 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.08 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

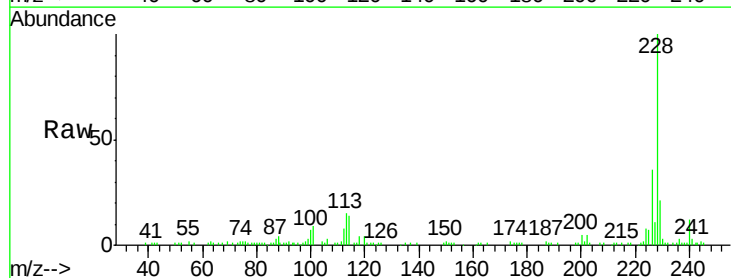
Tgt Ion: 228 Resp: 82253

Ion Ratio Lower Upper

228 100

226 35.9 25.4 38.2

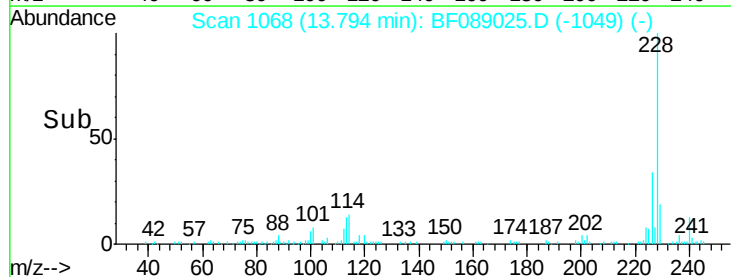
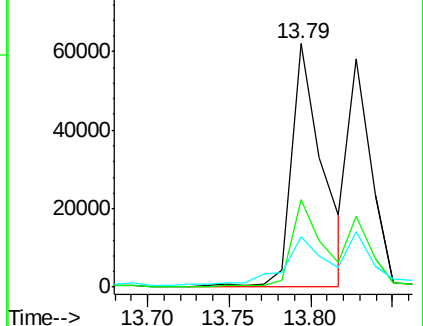
229 20.6 16.3 24.5

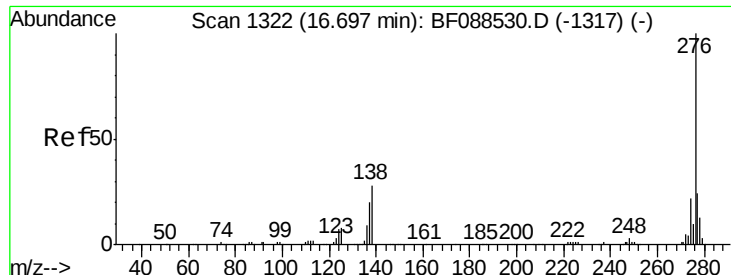


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

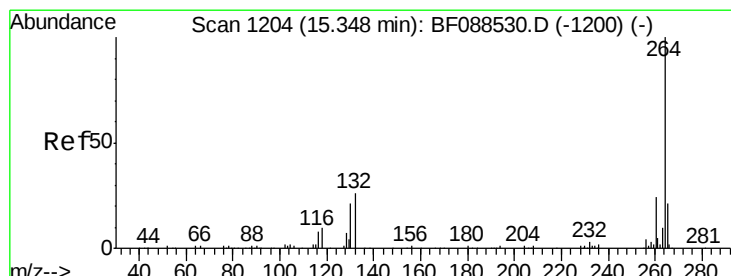
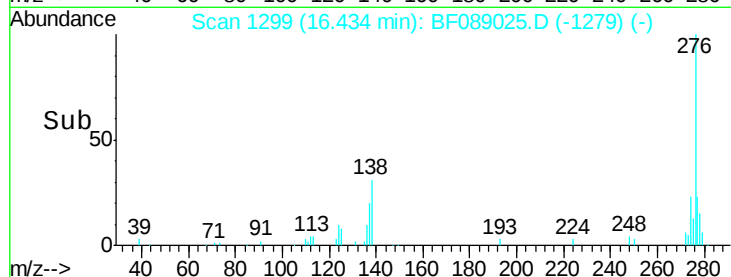
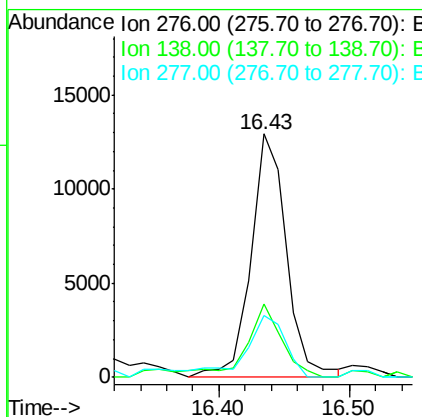
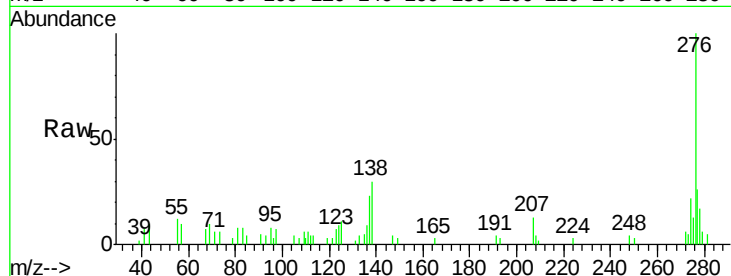




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.90 ng
 RT: 16.43 min Scan# 1299
 Delta R.T. -0.07 min
 Lab File: BF089025.D
 Acq: 15 Jul 2016 19:28

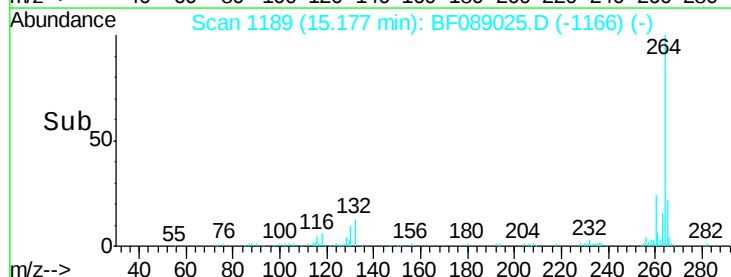
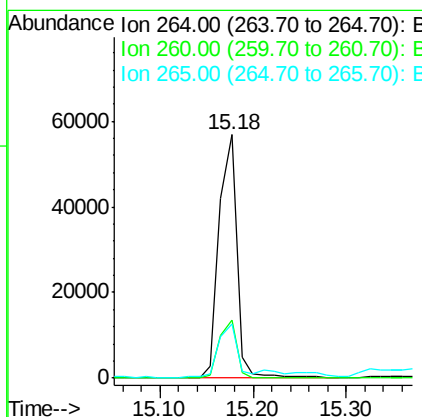
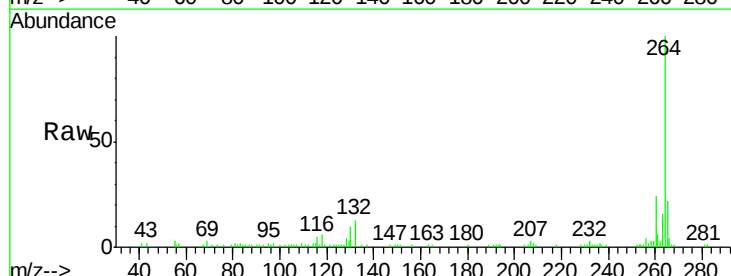
Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB03(0-2ft)

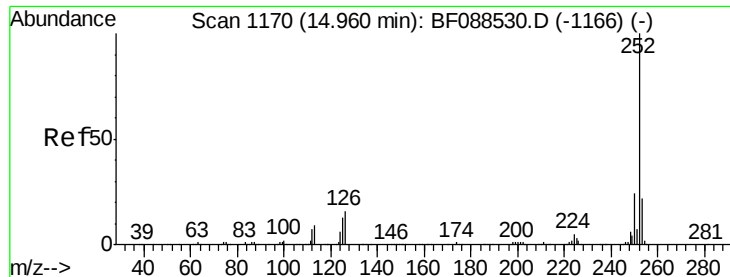
Tgt Ion: 276 Resp: 24662
 Ion Ratio Lower Upper
 276 100
 138 29.7 0.0 0.0#
 277 28.0 0.0 0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.18 min Scan# 1189
 Delta R.T. -0.03 min
 Lab File: BF089025.D
 Acq: 15 Jul 2016 19:28

Tgt Ion: 264 Resp: 75413
 Ion Ratio Lower Upper
 264 100
 260 23.6 19.2 28.8
 265 22.1 16.9 25.3





#87

Benzo(b)fluoranthene

Concen: 17.44 ng

RT: 14.80 min Scan# 1156

Delta R.T. -0.03 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

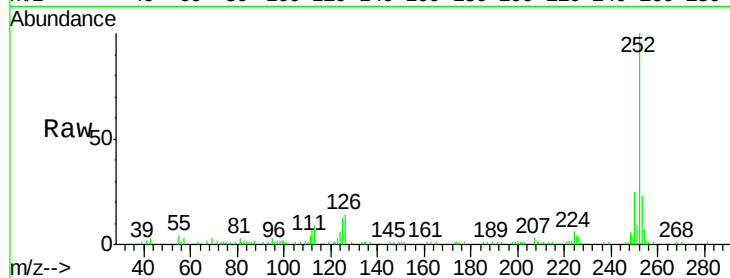
Tgt Ion:252 Resp: 82527

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.2

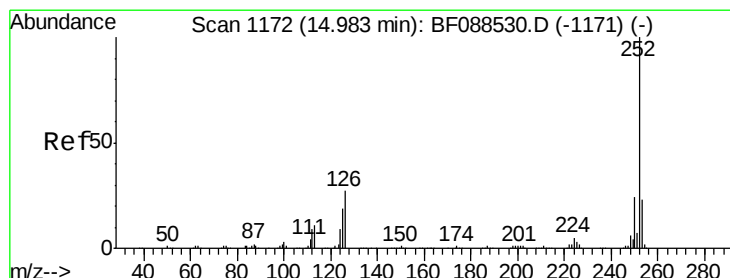
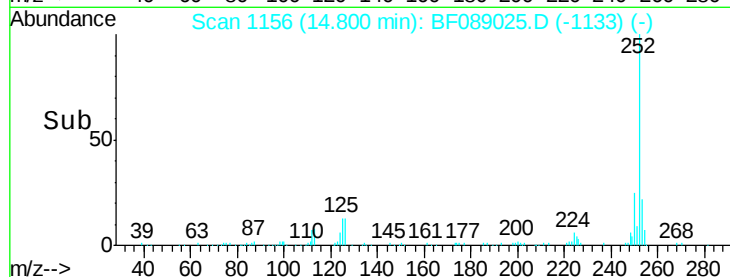
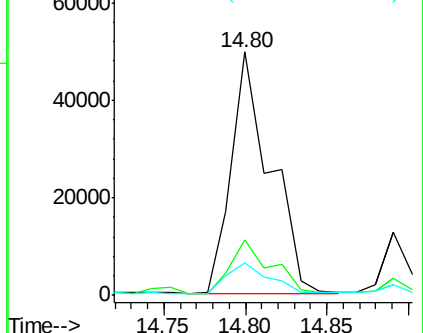
125 13.3 7.1 10.7#



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: 20.03 ng

RT: 14.80 min Scan# 1156

Delta R.T. -0.07 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

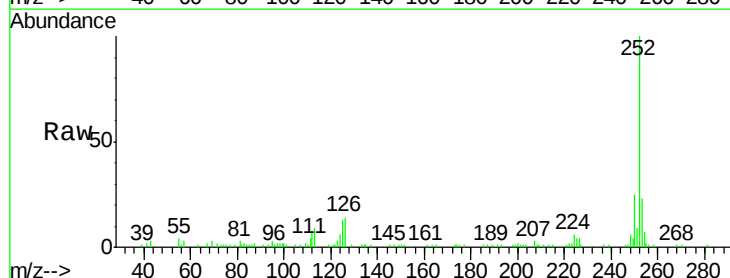
Tgt Ion:252 Resp: 82510

Ion Ratio Lower Upper

252 100

253 22.8 18.0 27.0

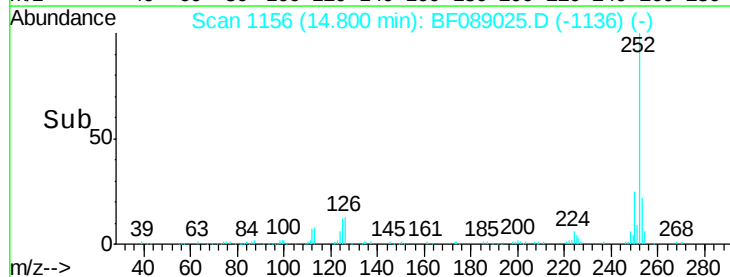
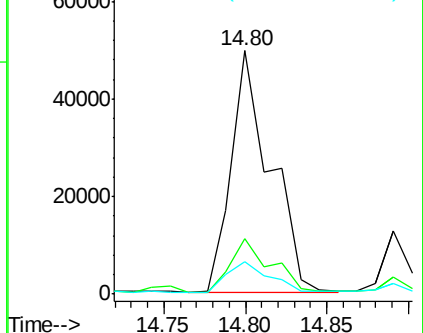
125 13.3 11.2 16.8

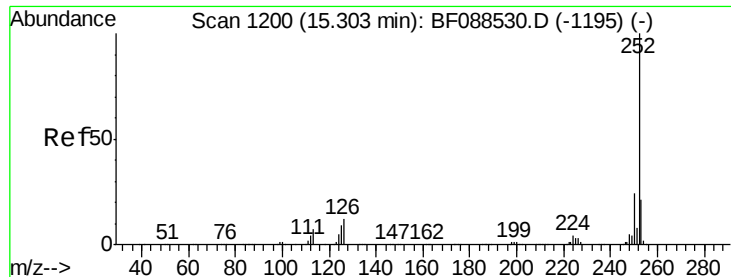


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 8.36 ng

RT: 15.06 min Scan# 1179

Delta R.T. -0.10 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB03(0-2ft)

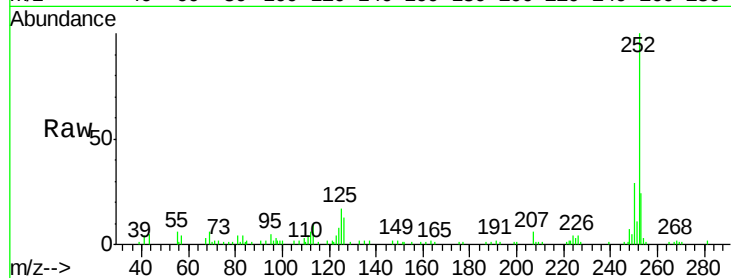
Tgt Ion:252 Resp: 33481

Ion Ratio Lower Upper

252 100

253 23.7 17.9 26.9

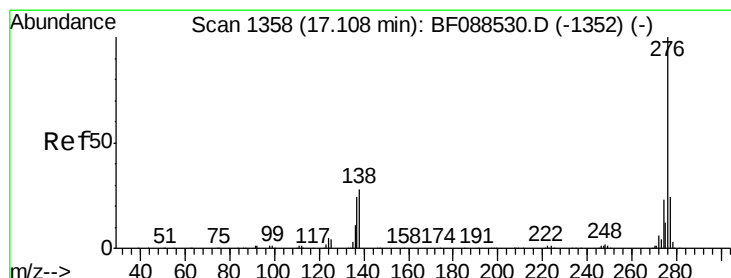
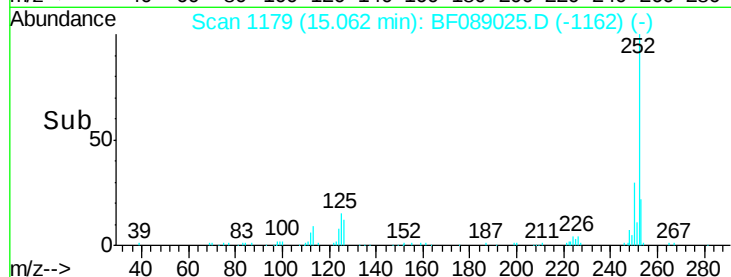
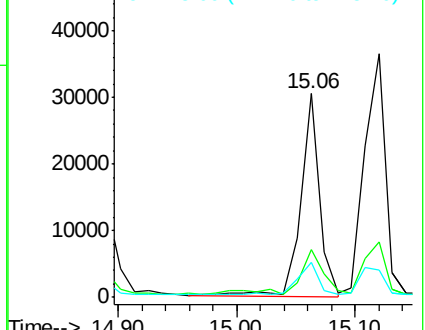
125 16.9 12.5 18.7



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



#91

Benzo(g,h,i)perylene

Concen: 6.98 ng

RT: 16.82 min Scan# 1333

Delta R.T. -0.07 min

Lab File: BF089025.D

Acq: 15 Jul 2016 19:28

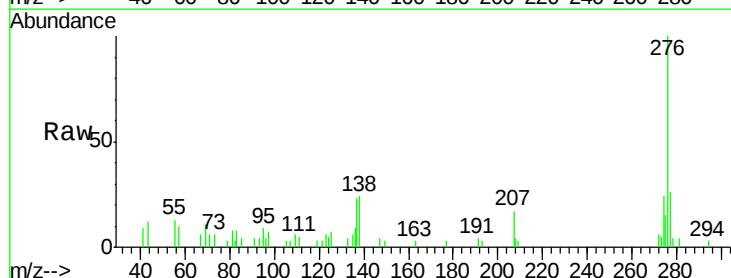
Tgt Ion:276 Resp: 24143

Ion Ratio Lower Upper

276 100

277 25.5 18.9 28.3

138 23.5 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

