

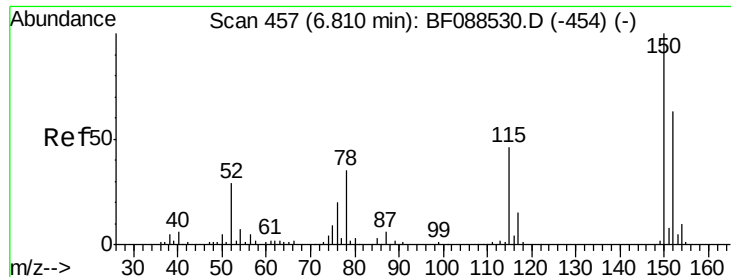
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071716\
 Data File : BF089078.D
 Acq On : 17 Jul 2016 15:12
 Operator : UM/SJ
 Sample : H4046-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 18 03:15:31 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	6.65	152	57044	20.00	ng	-0.06
21) Naphthalene-d8	7.94	136	236572	20.00	ng	-0.06
38) Acenaphthene-d10	9.69	164	98485	20.00	ng	-0.06
63) Phenanthrene-d10	11.16	188	153456	20.00	ng	-0.06
75) Chrysene-d12	13.79	240	114971	20.00	ng	-0.06
86) Perylene-d12	15.15	264	100095	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	327098	85.94	ng	-0.05
7) Phenol-d6	6.31	99	401190	81.57	ng	-0.05
23) Nitrobenzene-d5	7.22	82	255337	56.56	ng	-0.06
41) 2,4,6-Tribromophenol	10.48	330	71129	77.78	ng	-0.06
44) 2-Fluorobiphenyl	9.02	172	465784	74.71	ng	-0.06
78) Terphenyl-d14	12.74	244	301240	58.36	ng	-0.06
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.22	70	34644	10.49	ng	# 74
25) Isophorone	7.22	82	208381	24.92	ng	# 65
48) Acenaphthylene	9.55	152	42101	4.13	ng	99
49) Dimethylphthalate	9.42	163	91172	12.99	ng	99
56) 2,4-Dinitrotoluene	9.69	165	12774	6.28	ng	# 37
66) 4-Bromophenyl-phenylether	10.48	248	5304	3.43	ng	# 1
70) Phenanthrene	11.19	178	27667	3.30	ng	99
71) Anthracene	11.23	178	36038	4.32	ng	99
74) Fluoranthene	12.37	202	124942	14.69	ng	99
77) Pyrene	12.59	202	141896	14.56	ng	98
80) Benzo(a)anthracene	13.78	228	91226	12.32	ng	# 87
82) Chrysene	13.78	228	91226	12.45	ng	# 91
85) Indeno(1,2,3-cd)pyrene	16.42	276	51980	9.22	ng	# 100
87) Benzo(b)fluoranthene	14.79	252	200815	31.98	ng	# 95
88) Benzo(k)fluoranthene	14.79	252	200815	36.74	ng	97
89) Benzo(a)pyrene	15.10	252	73728	13.87	ng	96
91) Benzo(a,h,i)perylene	16.80	276	51450	11.20	ng	96

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

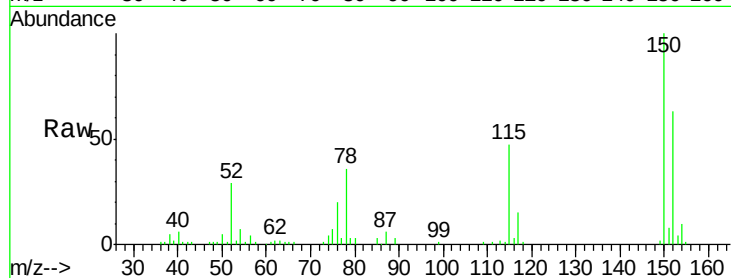


#1

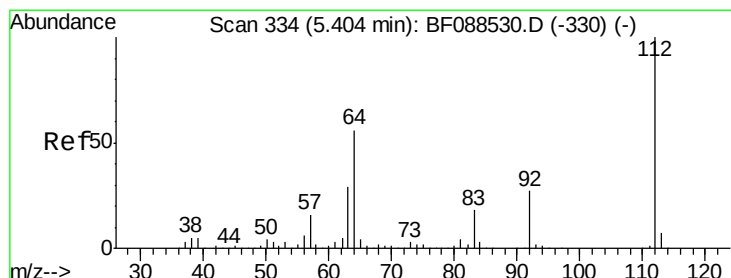
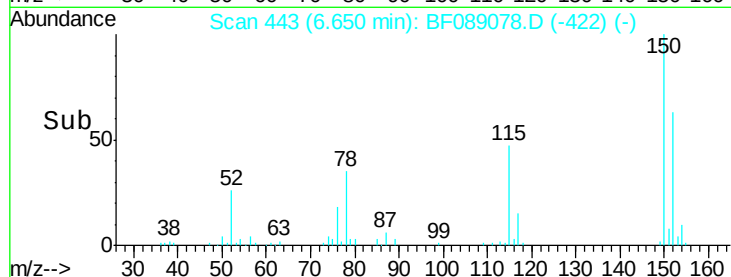
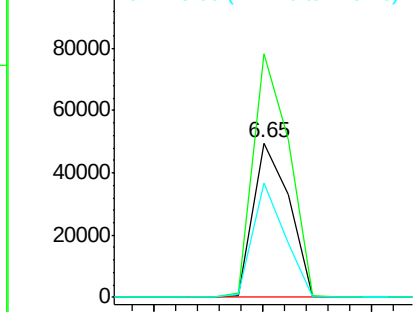
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.65 min Scan# 443
Delta R.T. -0.06 min
Lab File: BF089078.D
Acq: 17 Jul 2016 15:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 57044
Ion Ratio Lower Upper
152 100
150 157.9 123.8 185.6
115 74.1 39.6 59.4#



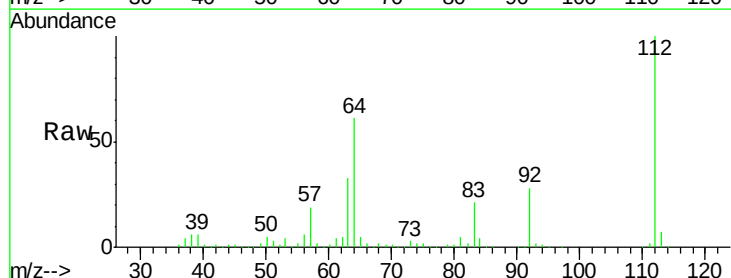
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



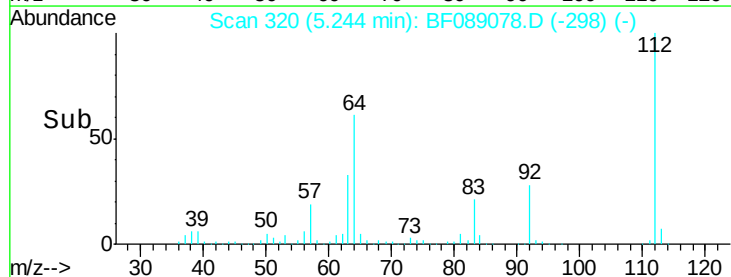
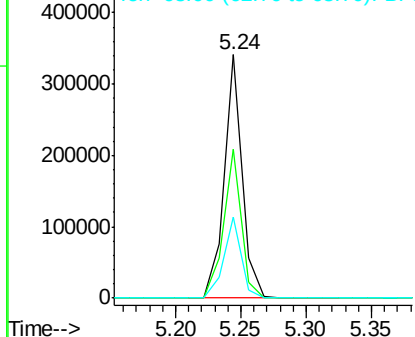
#5

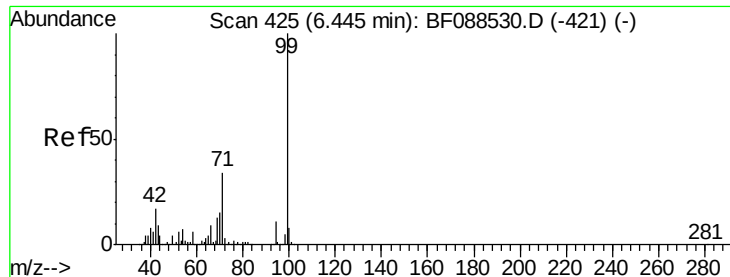
2-Fluorophenol
Concen: 85.94 ng
RT: 5.24 min Scan# 320
Delta R.T. -0.05 min
Lab File: BF089078.D
Acq: 17 Jul 2016 15:12

Tgt Ion:112 Resp: 327098
Ion Ratio Lower Upper
112 100
64 61.1 42.2 63.2
63 33.2 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: 81.57 ng

RT: 6.31 min Scan# 413

Delta R.T. -0.05 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampleId :

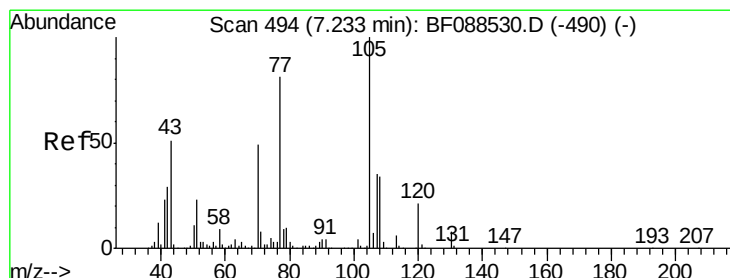
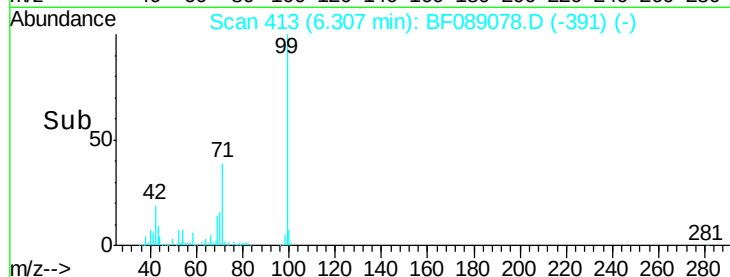
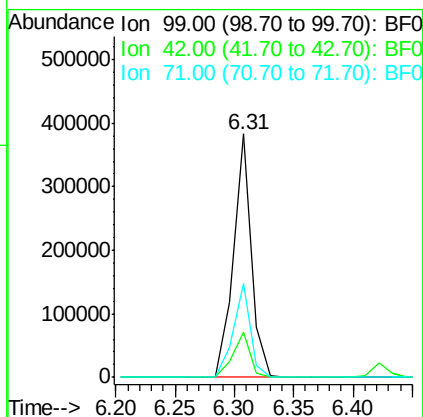
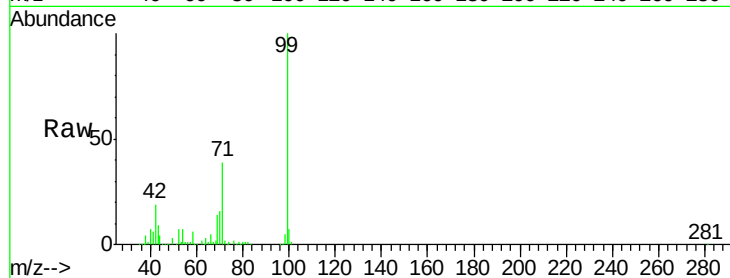
Tot Ion: 99 Resp: 401190

Ion Ratio Lower Upper

99 100

42 18.6 12.2 18.2#

71 38.7 23.4 35.0#



#19

n-Nitroso-di-n-propylamine

Concen: 10.49 ng

RT: 7.22 min Scan# 493

Delta R.T. 0.08 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Tgt Ion: 70 Resp: 34644

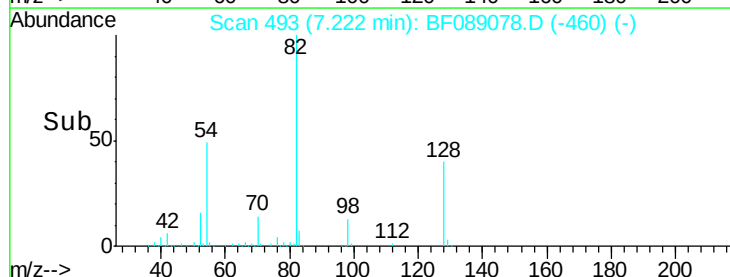
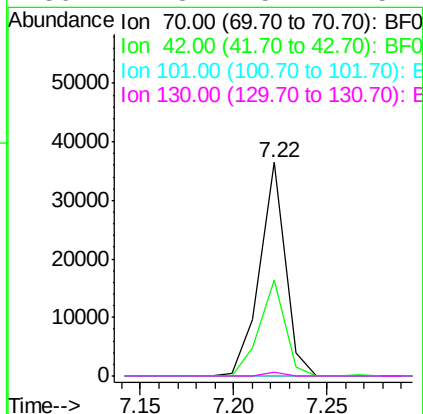
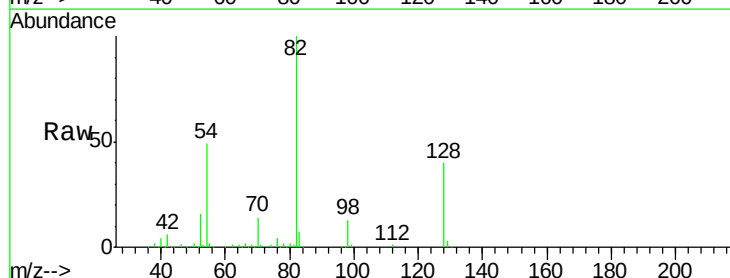
Ion Ratio Lower Upper

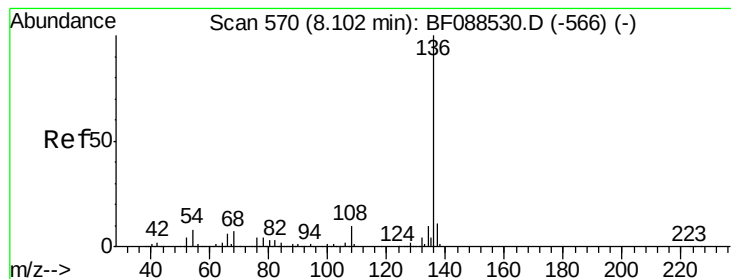
70 100

42 44.9 49.6 74.4#

101 0.0 7.1 10.7#

130 1.8 15.4 23.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.94 min Scan# 556

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 236572

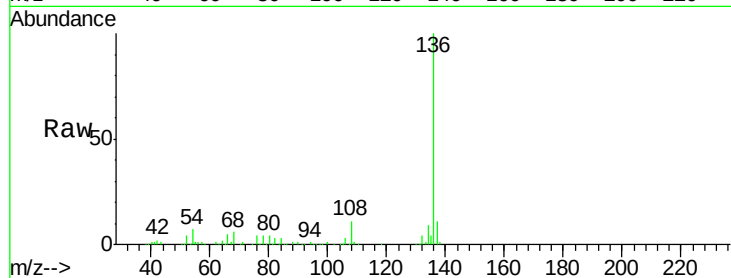
Ion Ratio Lower Upper

136 100

137 10.7 9.1 13.7

54 7.2 6.6 10.0

68 5.6 5.1 7.7

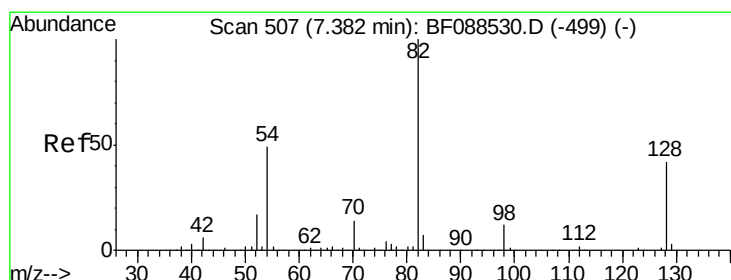
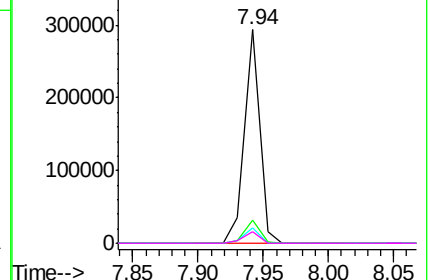
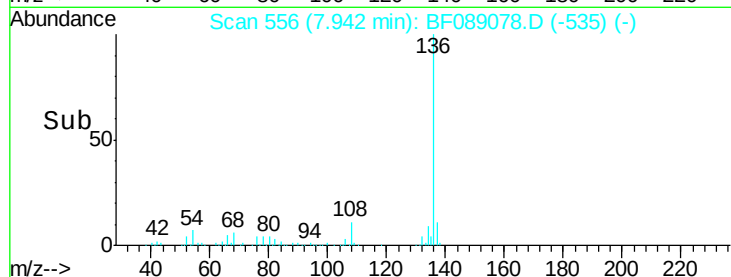


Abundance Ion 136.00 (135.70 to 136.70): E

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: 56.56 ng

RT: 7.22 min Scan# 493

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

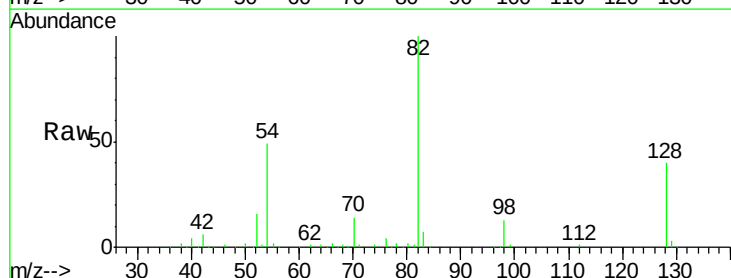
Tgt Ion: 82 Resp: 255337

Ion Ratio Lower Upper

82 100

128 39.7 35.9 53.9

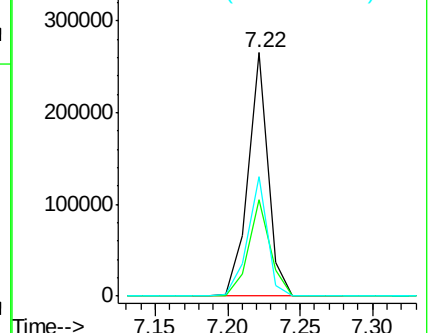
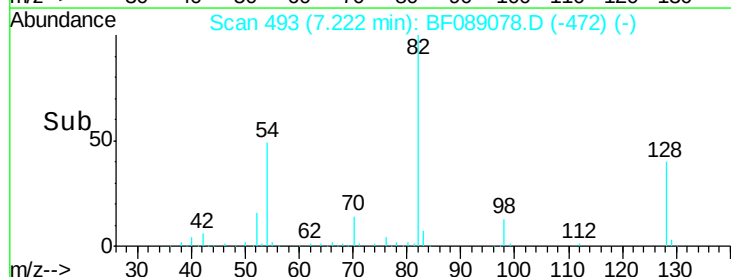
54 49.3 40.9 61.3

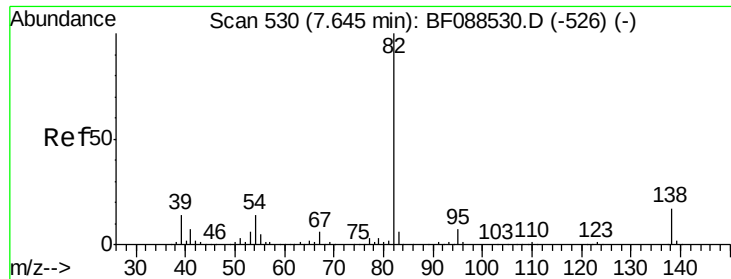


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 24.92 ng

RT: 7.22 min Scan# 493

Delta R.T. -0.32 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampleId :

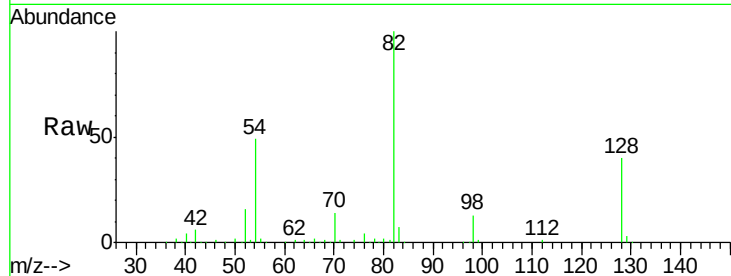
Tot Ion: 82 Resp: 208381

Ion Ratio Lower Upper

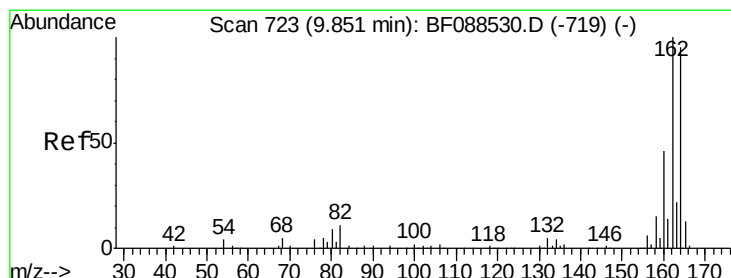
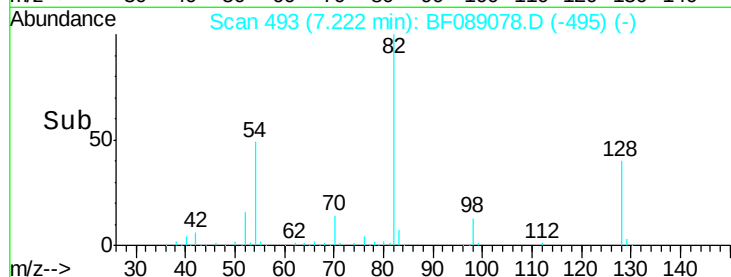
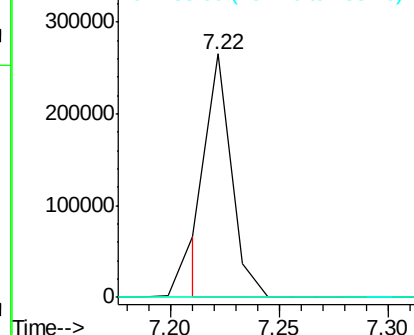
82 100

95 0.0 5.4 8.2#

138 0.0 14.6 21.8#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.69 min Scan# 709

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

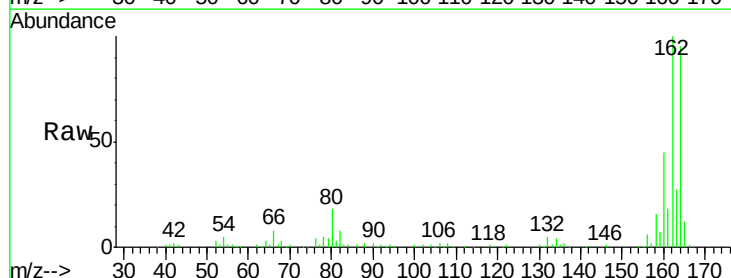
Tgt Ion: 164 Resp: 98485

Ion Ratio Lower Upper

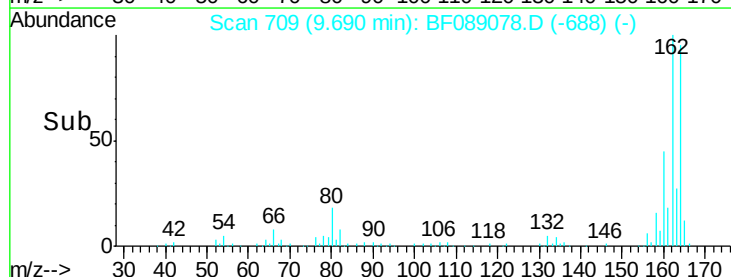
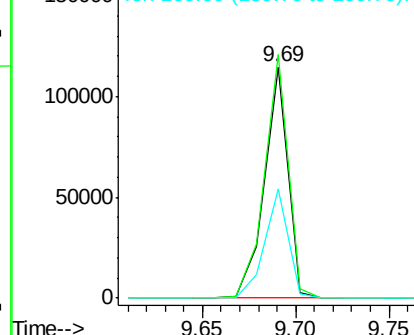
164 100

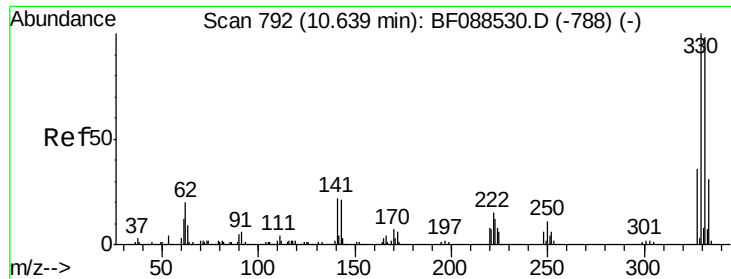
162 105.2 85.4 128.2

160 46.9 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

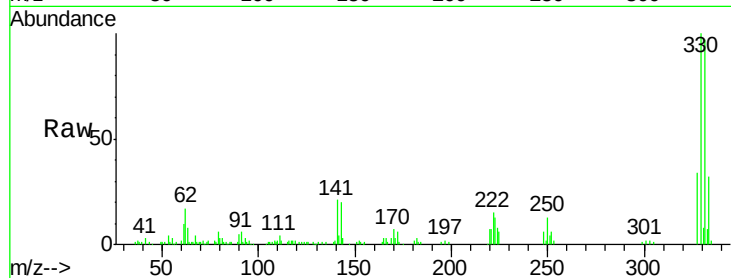




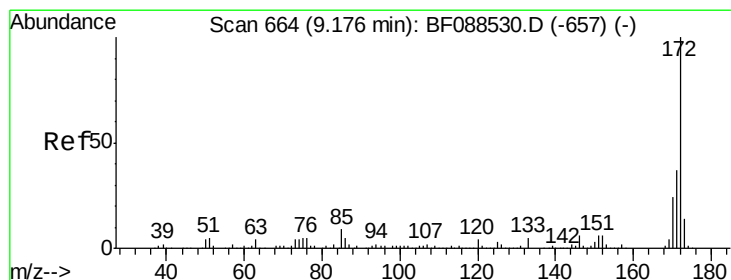
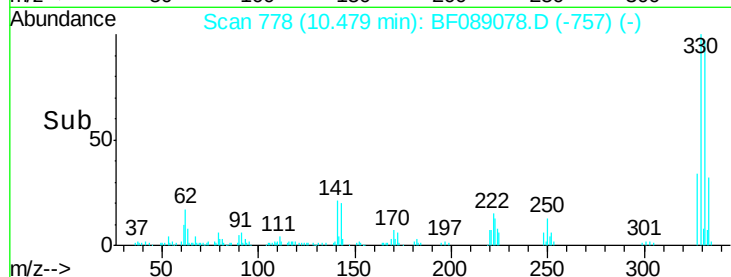
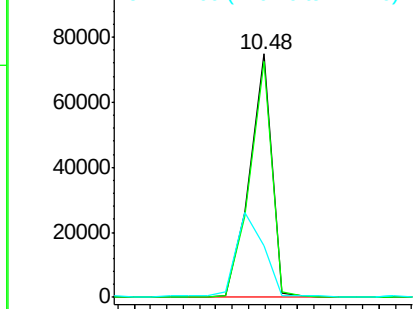
#41
 2,4,6-Tribromophenol
 Concen: 77.78 ng
 RT: 10.48 min Scan# 778
 Delta R.T. -0.06 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 71129
 Ion Ratio Lower Upper
 330 100
 332 96.6 0.0 0.0#
 141 44.5 0.0 0.0#

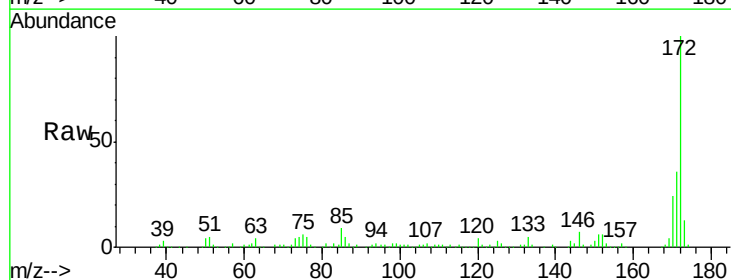


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

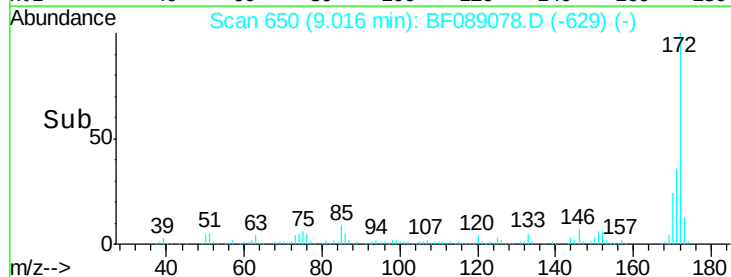
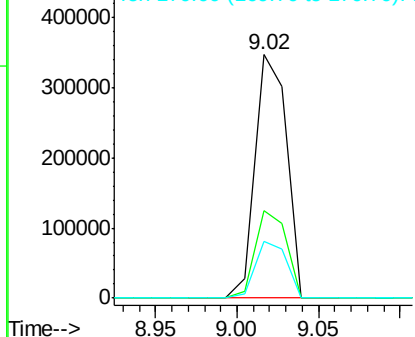


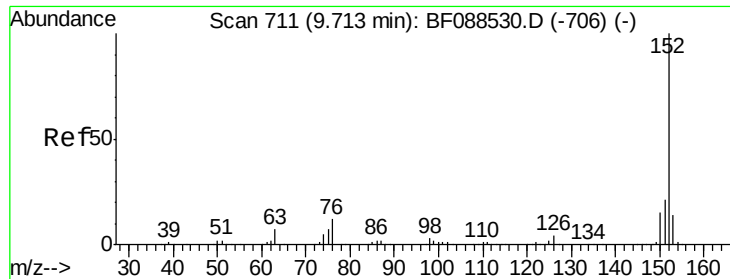
#44
 2-Fluorobiphenyl
 Concen: 74.71 ng
 RT: 9.02 min Scan# 650
 Delta R.T. -0.06 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

Tgt Ion:172 Resp: 465784
 Ion Ratio Lower Upper
 172 100
 171 35.8 28.6 43.0
 170 23.5 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: 4.13 ng

RT: 9.55 min Scan# 697

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampleId :

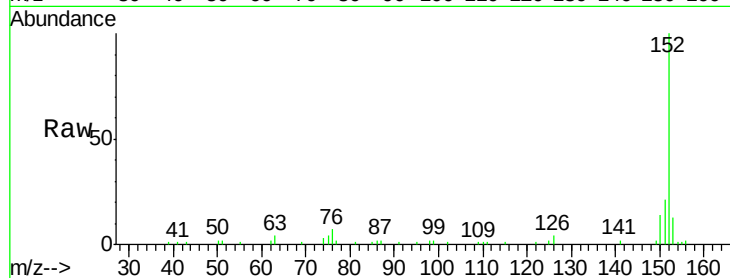
Tot Ion:152 Resp: 42101

Ion Ratio Lower Upper

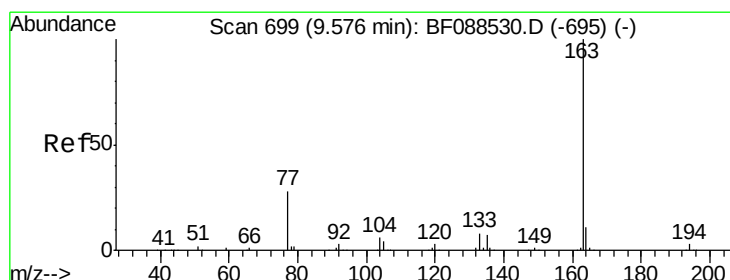
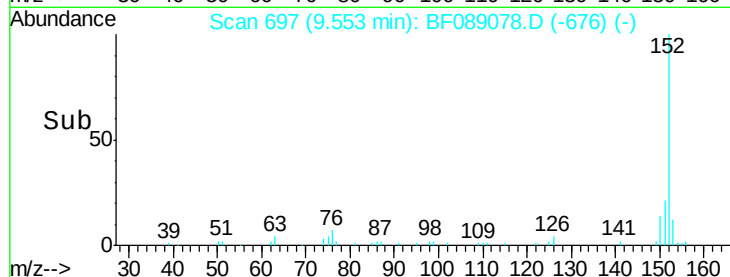
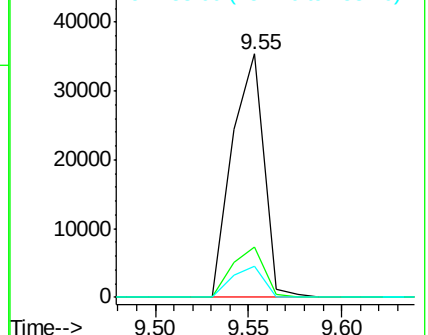
152 100

151 20.5 16.2 24.4

153 13.0 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: 12.99 ng

RT: 9.42 min Scan# 685

Delta R.T. -0.07 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

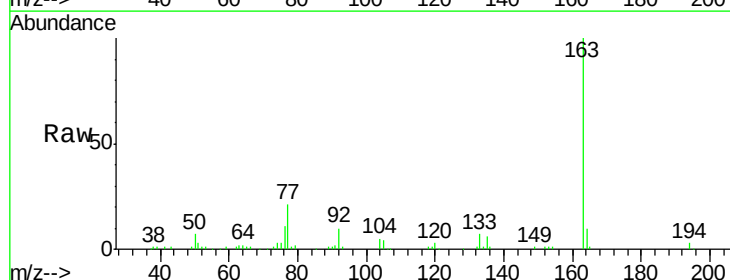
Tgt Ion:163 Resp: 91172

Ion Ratio Lower Upper

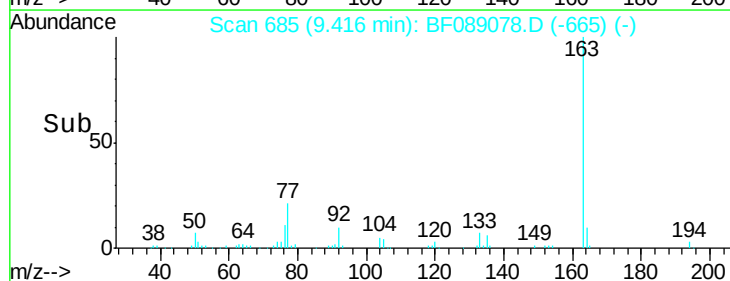
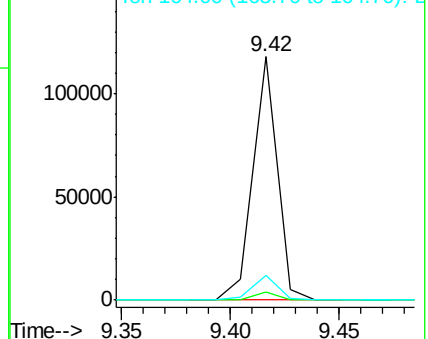
163 100

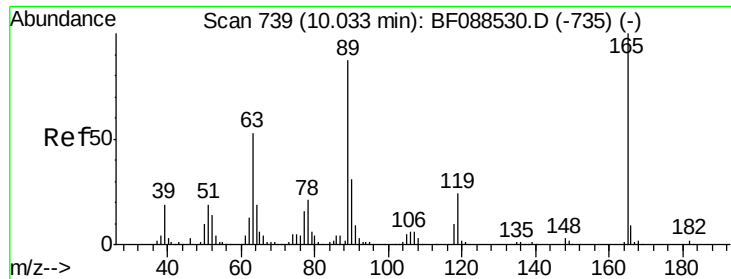
194 3.4 2.8 4.2

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

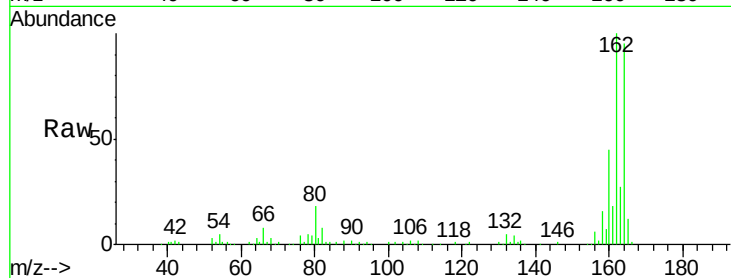




#56
 2,4-Dinitrotoluene
 Concen: 6.28 ng
 RT: 9.69 min Scan# 709
 Delta R.T. -0.25 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	2.6	22.0	33.0#
89	0.0	41.1	61.7#
182	0.0	2.0	3.0#

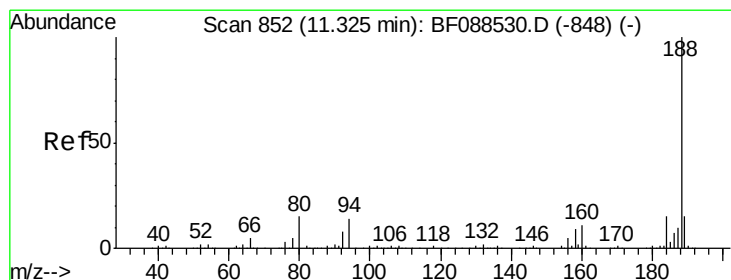
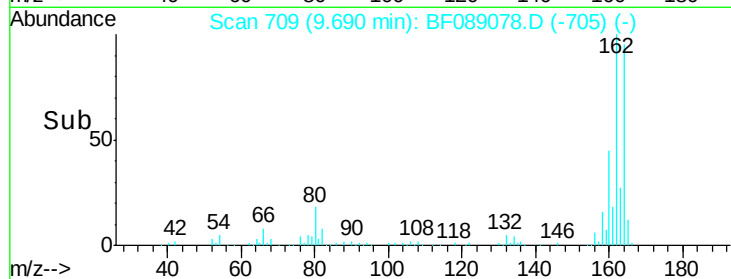
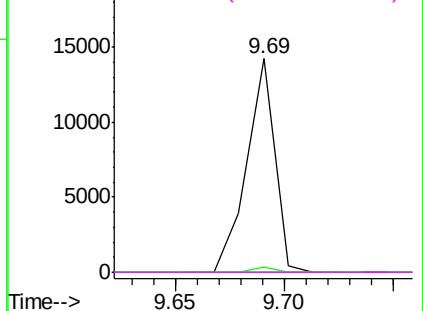


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

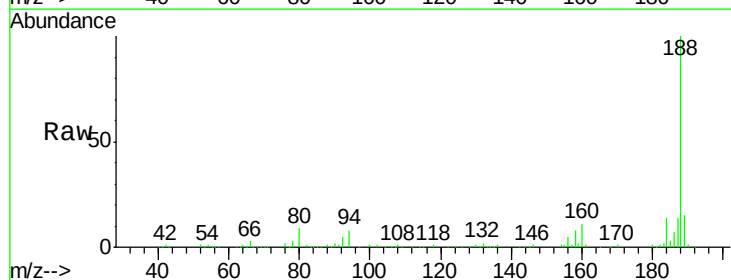
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.16 min Scan# 838
 Delta R.T. -0.06 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

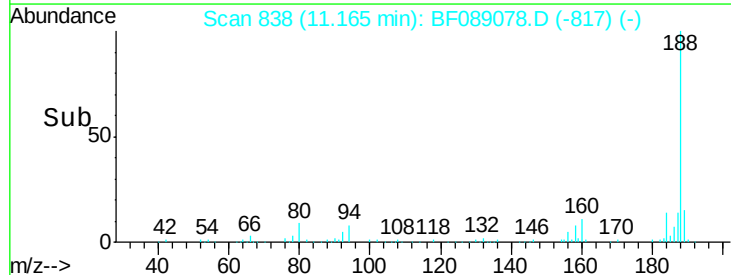
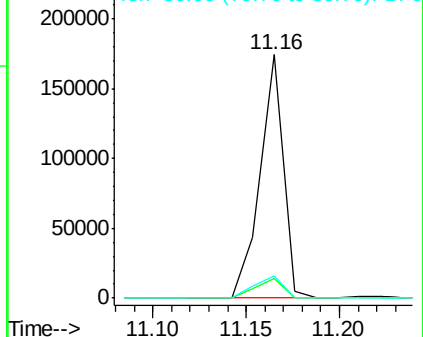
Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.0	9.0	13.6#
80	9.2	10.0	15.0#

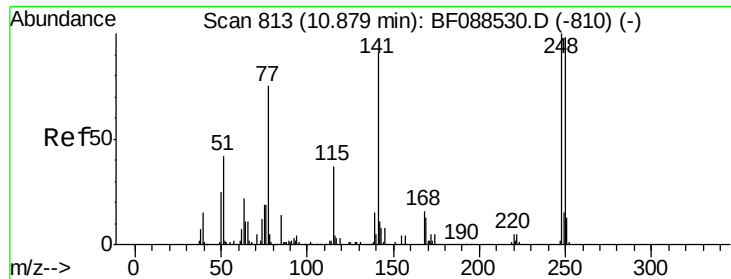


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#66

4-Bromophenyl-phenylether

Concen: 3.43 ng

RT: 10.48 min Scan# 778

Delta R.T. -0.30 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampleId :

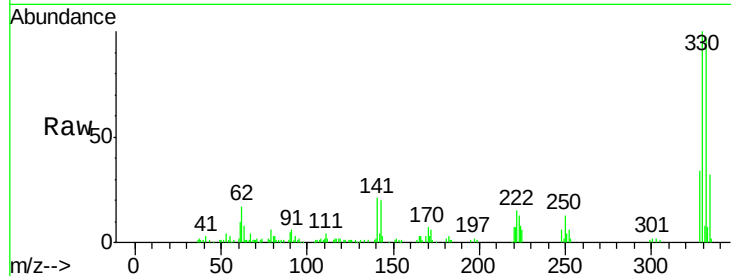
Tot Ion:248 Resp: 5304

Ion Ratio Lower Upper

248 100

250 208.6 77.1 115.7#

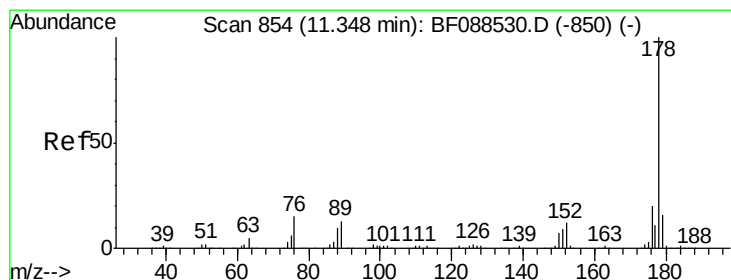
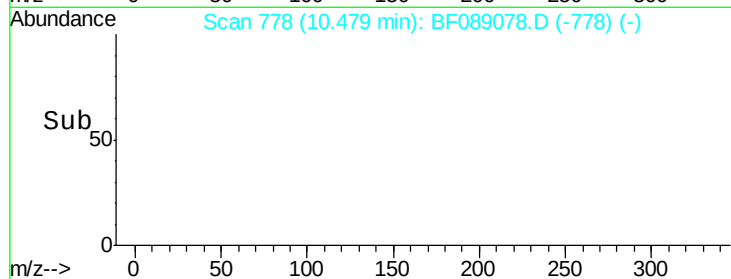
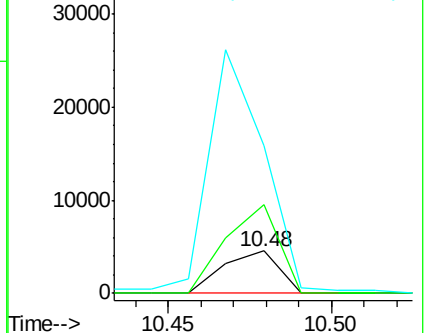
141 349.3 50.6 76.0#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#70

Phenanthrene

Concen: 3.30 ng

RT: 11.19 min Scan# 840

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

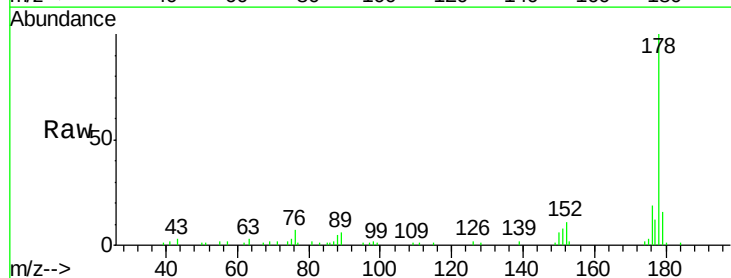
Tgt Ion:178 Resp: 27667

Ion Ratio Lower Upper

178 100

176 19.3 15.8 23.6

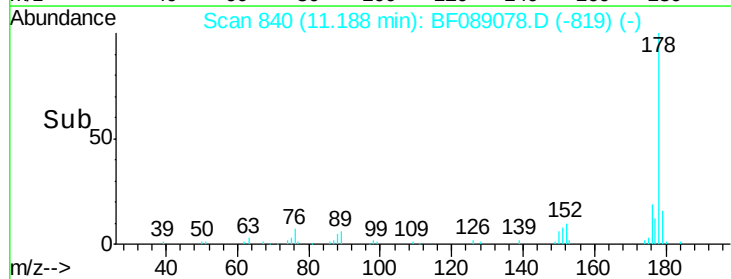
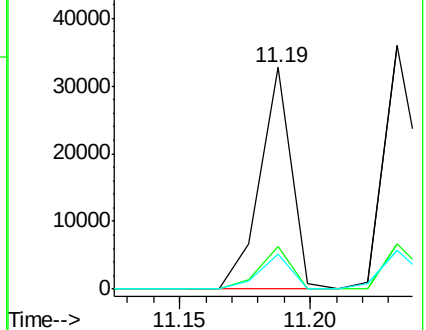
179 15.7 13.0 19.4

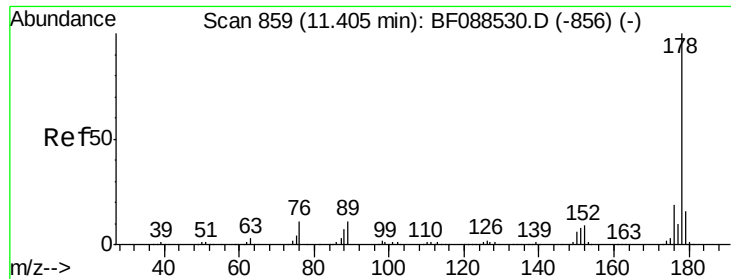


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

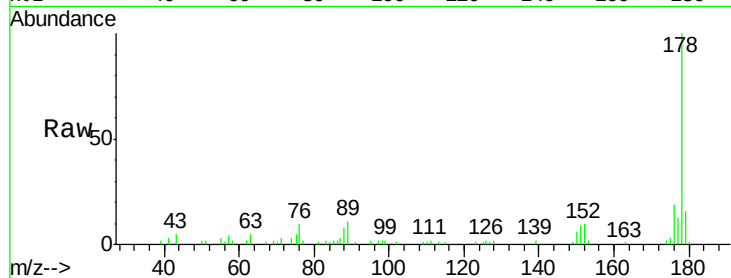




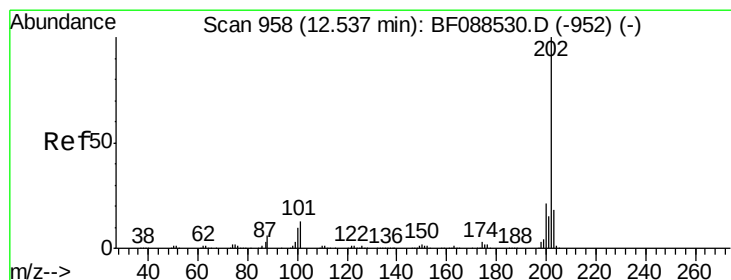
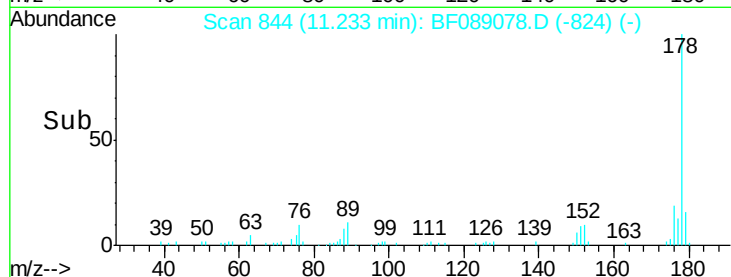
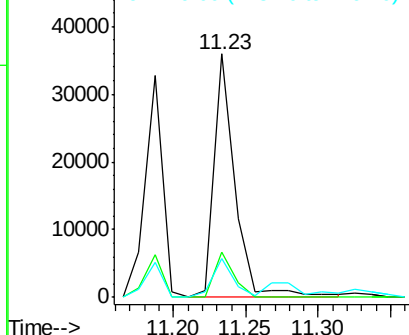
#71
 Anthracene
 Concen: 4.32 ng
 RT: 11.23 min Scan# 844
 Delta R.T. -0.07 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:178 Resp: 36038
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.6 23.4
 179 15.8 12.8 19.2

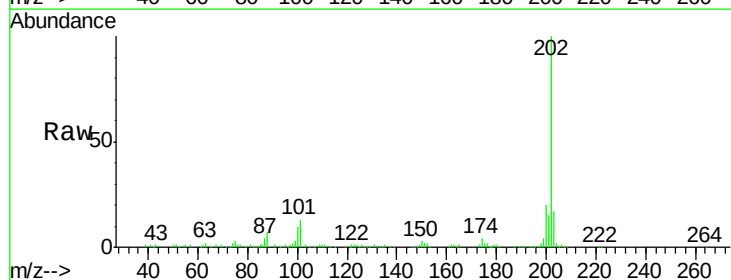


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

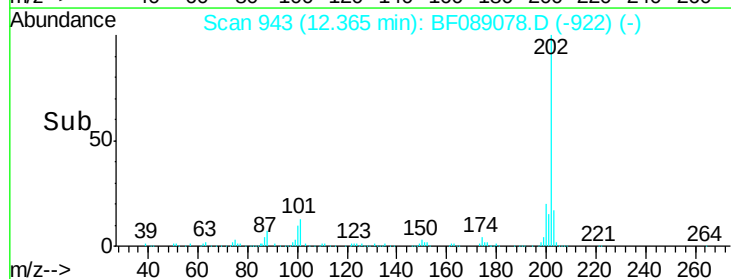
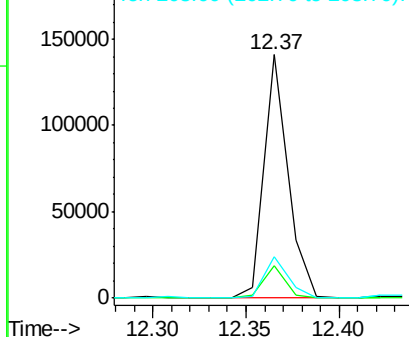


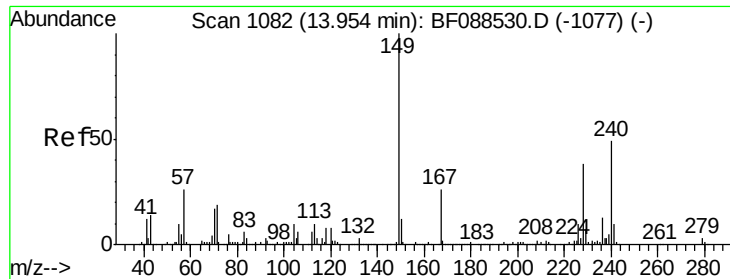
#74
 Fluoranthene
 Concen: 14.69 ng
 RT: 12.37 min Scan# 943
 Delta R.T. -0.06 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

Tgt Ion:202 Resp: 124942
 Ion Ratio Lower Upper
 202 100
 101 13.3 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: 13.79 min Scan# 1068

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampleId :

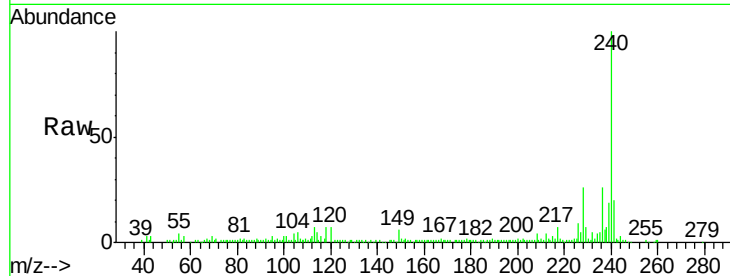
Tot Ion:240 Resp: 114971

Ion Ratio Lower Upper

240 100

120 7.2 6.8 10.2

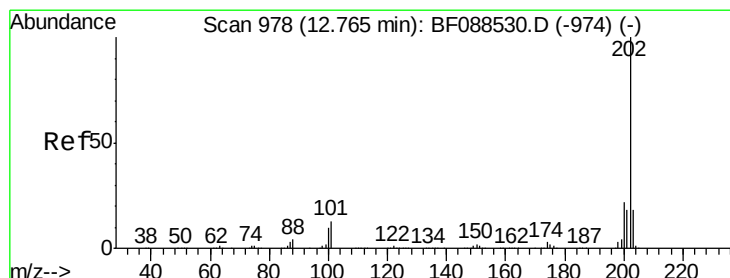
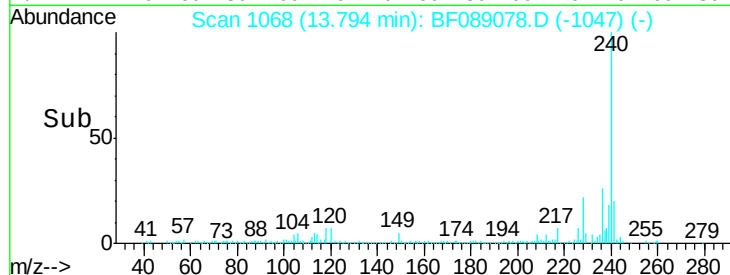
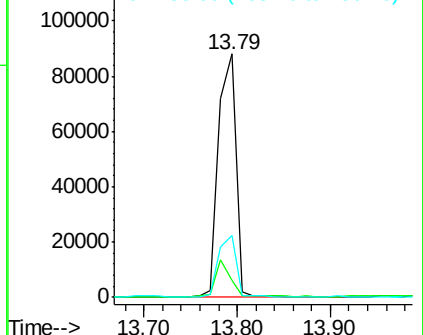
236 25.6 20.2 30.2



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: 14.56 ng

RT: 12.59 min Scan# 963

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

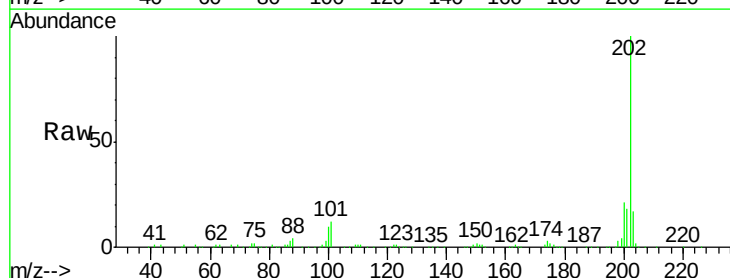
Tgt Ion:202 Resp: 141896

Ion Ratio Lower Upper

202 100

200 20.6 17.4 26.2

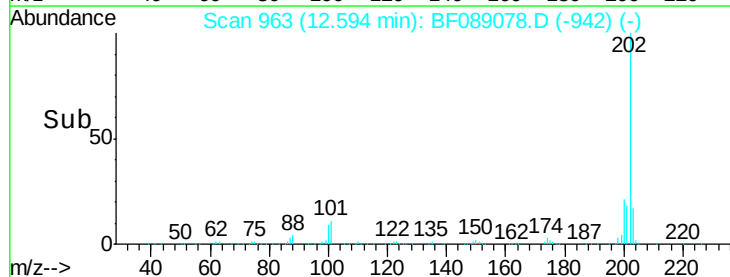
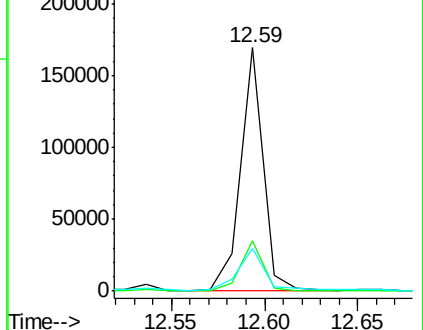
203 17.3 14.5 21.7

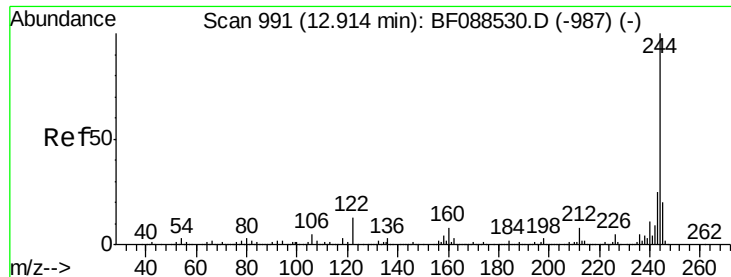


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 58.36 ng

RT: 12.74 min Scan# 976

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampleId :

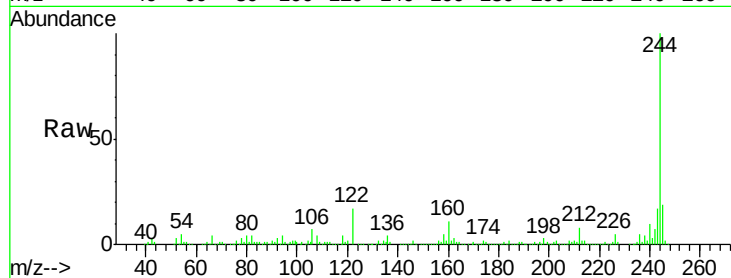
Tot Ion:244 Resp: 301240

Ion Ratio Lower Upper

244 100

212 8.3 6.0 9.0

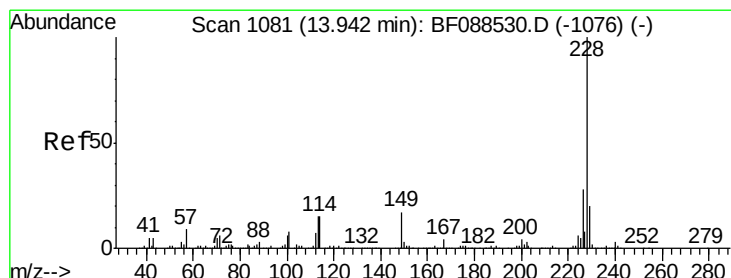
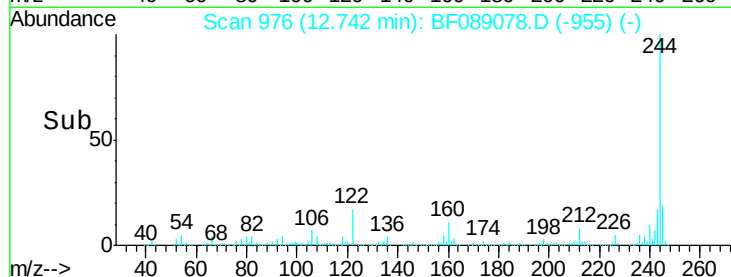
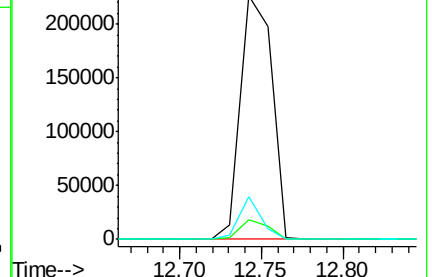
122 17.4 11.2 16.8#



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: 12.32 ng

RT: 13.78 min Scan# 1067

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

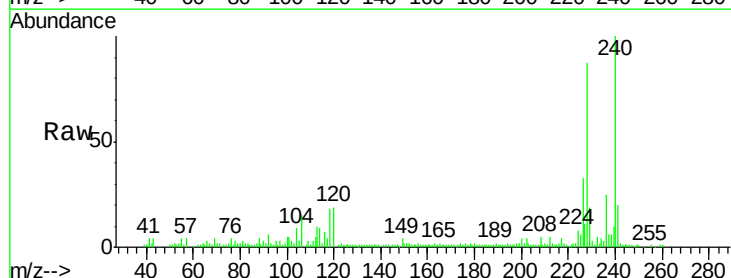
Tgt Ion:228 Resp: 91226

Ion Ratio Lower Upper

228 100

226 38.4 22.3 33.5#

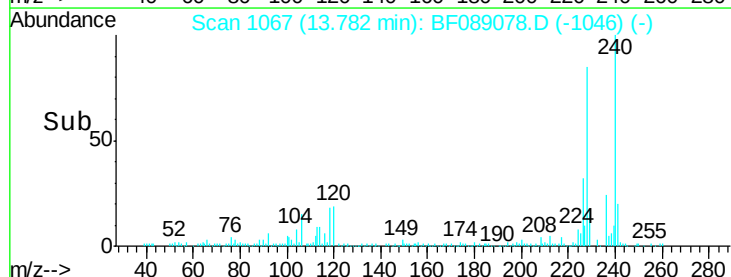
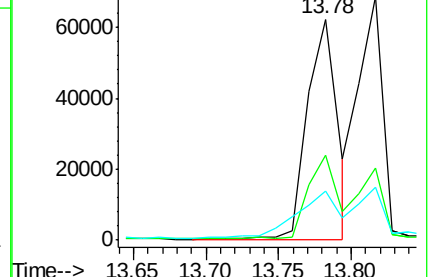
229 22.0 16.0 24.0

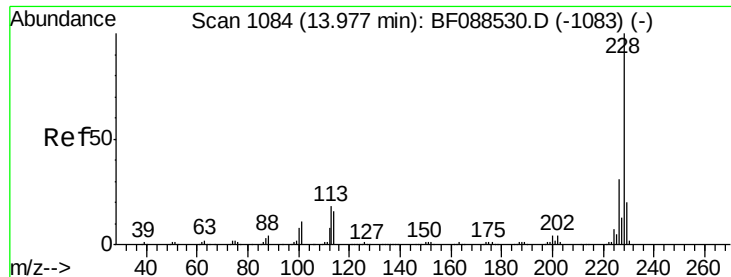


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 12.45 ng

RT: 13.78 min Scan# 1067

Delta R.T. -0.09 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampleId :

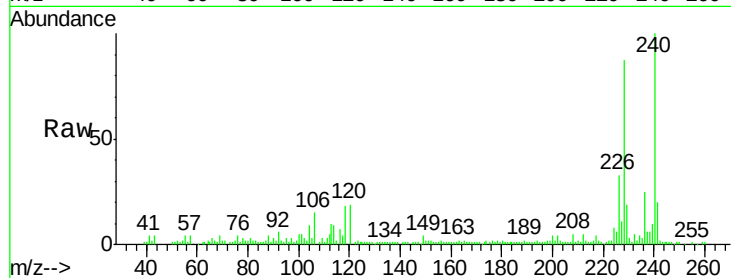
Tot Ion:228 Resp: 91226

Ion Ratio Lower Upper

228 100

226 38.4 25.4 38.2#

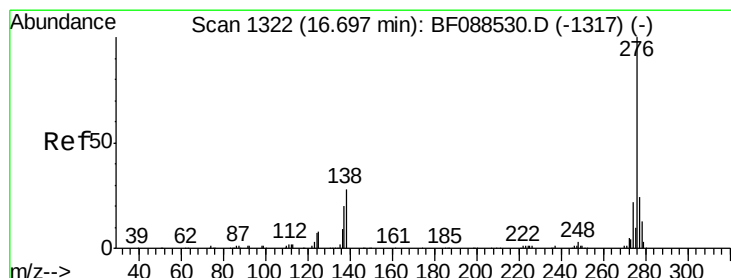
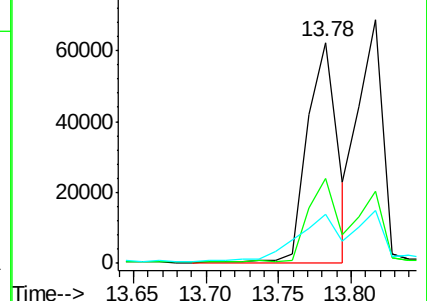
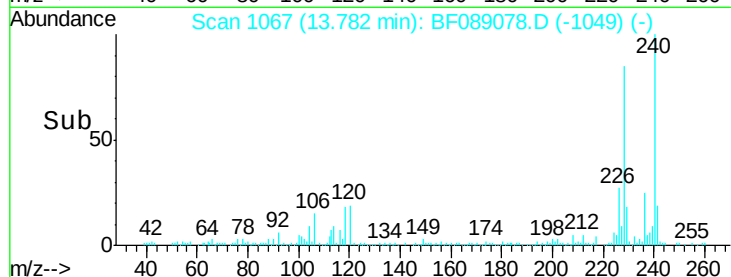
229 22.0 16.3 24.5



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: 9.22 ng

RT: 16.42 min Scan# 1298

Delta R.T. -0.08 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

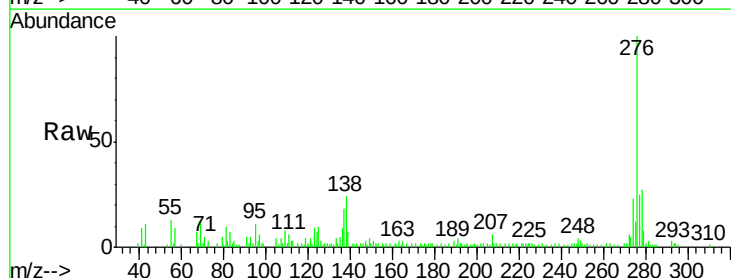
Tgt Ion:276 Resp: 51980

Ion Ratio Lower Upper

276 100

138 25.5 0.0 0.0#

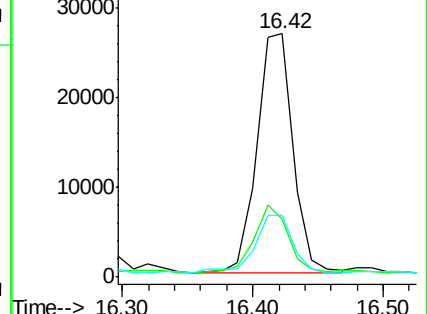
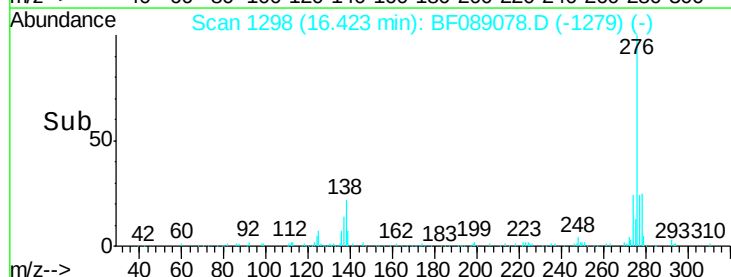
277 27.2 0.0 0.0#

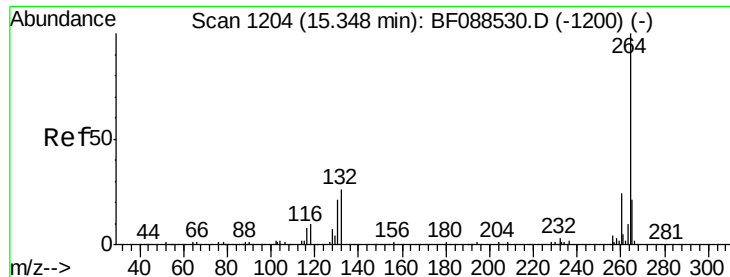


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.15 min Scan# 1187

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampleId :

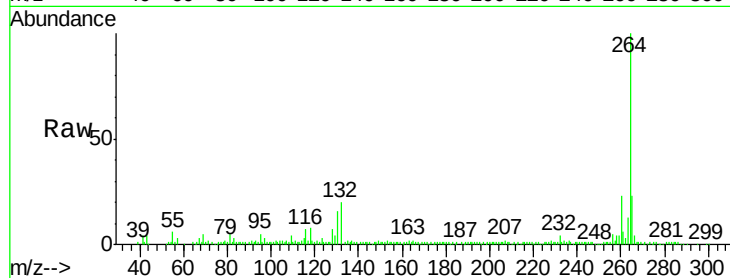
Tot Ion:264 Resp: 100095

Ion Ratio Lower Upper

264 100

260 23.3 19.2 28.8

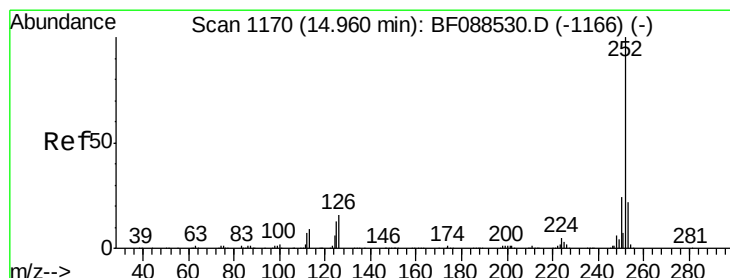
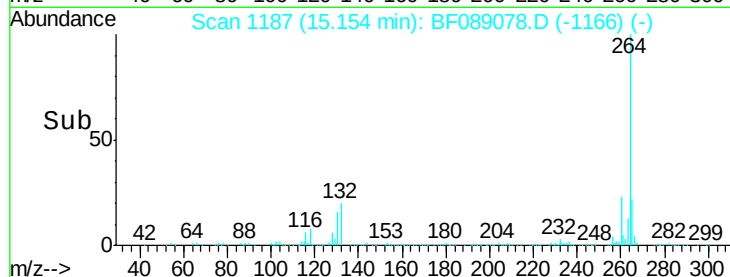
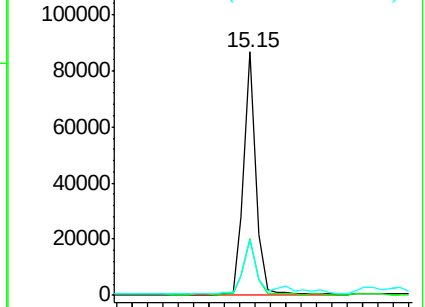
265 22.8 16.9 25.3



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: 31.98 ng

RT: 14.79 min Scan# 1155

Delta R.T. -0.05 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

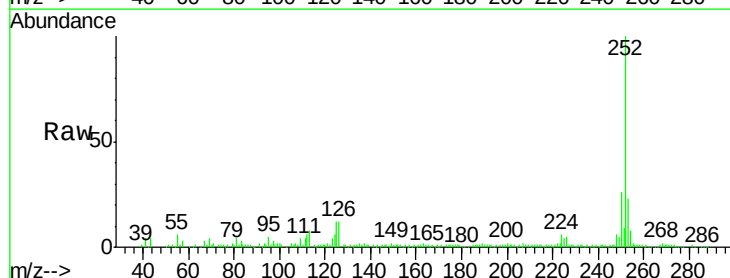
Tgt Ion:252 Resp: 200815

Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.2

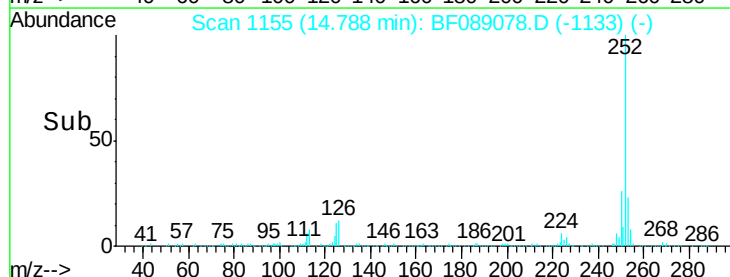
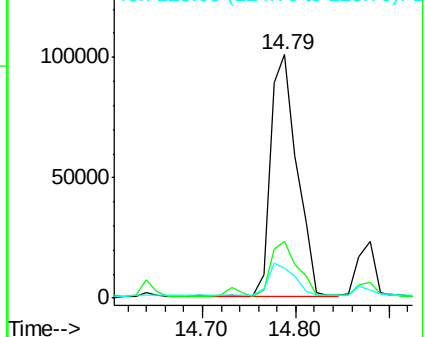
125 12.1 7.1 10.7#

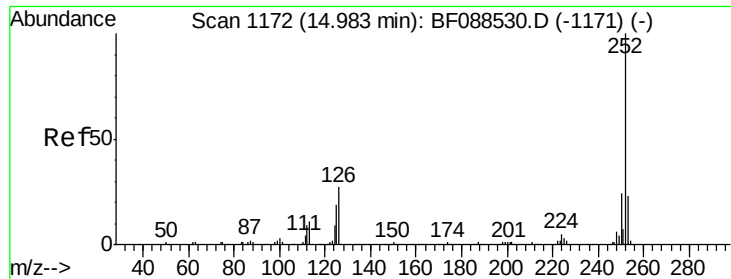


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 36.74 ng

RT: 14.79 min Scan# 1155

Delta R.T. -0.08 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampled :

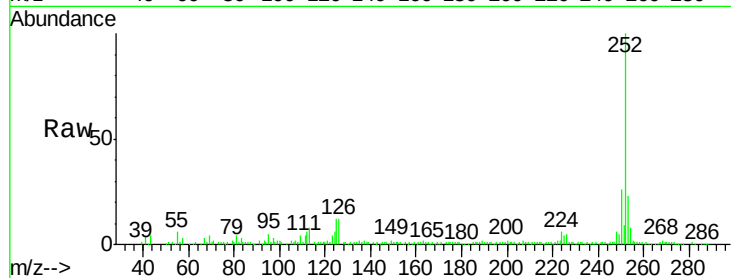
Tot Ion:252 Resp: 200815

Ion Ratio Lower Upper

252 100

253 23.1 18.0 27.0

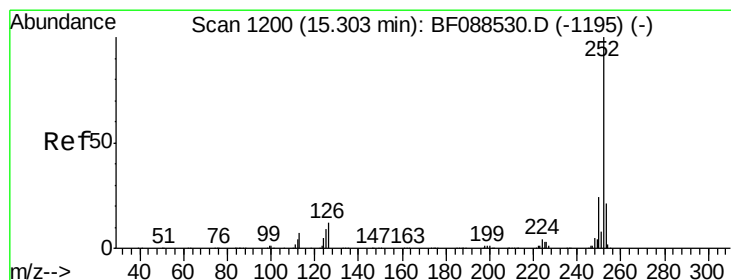
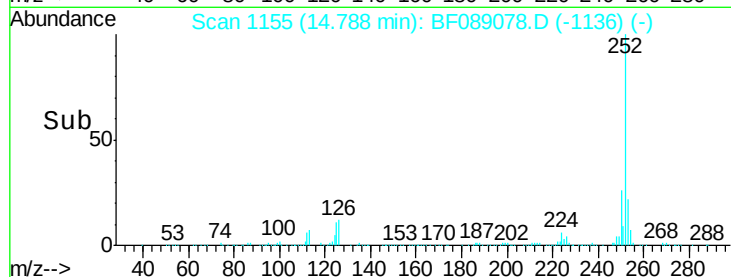
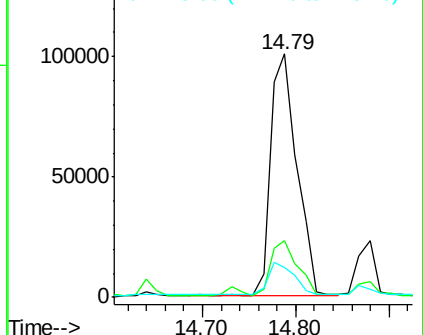
125 12.1 11.2 16.8



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: 13.87 ng

RT: 15.10 min Scan# 1182

Delta R.T. -0.07 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

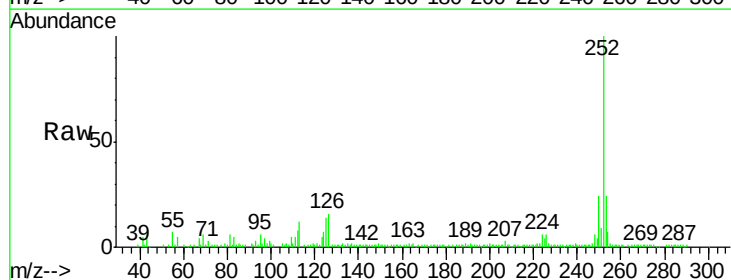
Tgt Ion:252 Resp: 73728

Ion Ratio Lower Upper

252 100

253 24.5 17.9 26.9

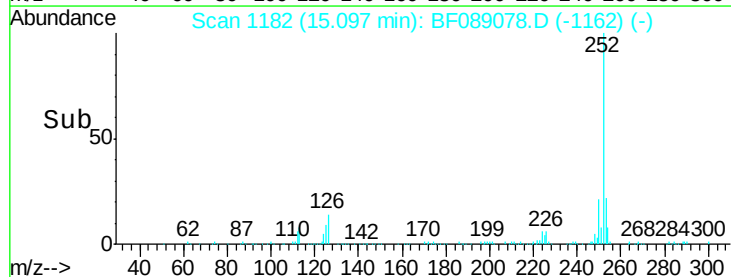
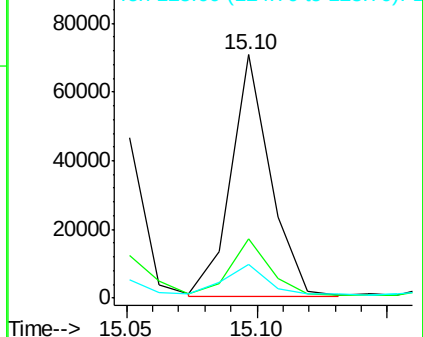
125 14.0 12.5 18.7

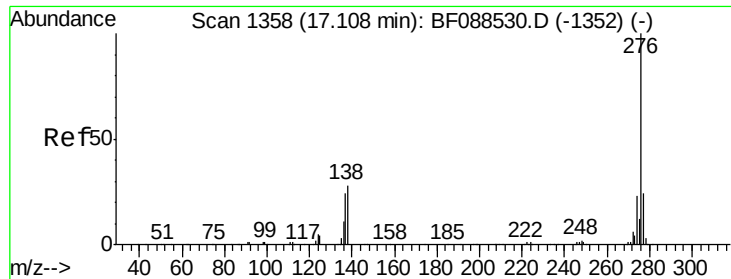


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 11.20 ng
 RT: 16.80 min Scan# 1331
 Delta R.T. -0.09 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	276	Resp:	51450
Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.9	28.3
138	24.0	21.4	32.2

