

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
 Data File : BF089063.D
 Acq On : 16 Jul 2016 19:13
 Operator : UM/SJ
 Sample : H3951-12
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 18 01:16:23 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	6.66	152	49247	20.00	ng	-0.05
21) Naphthalene-d8	7.95	136	202810	20.00	ng	-0.05
38) Acenaphthene-d10	9.70	164	73680	20.00	ng	-0.05
63) Phenanthrene-d10	11.18	188	115469	20.00	ng	-0.05
75) Chrysene-d12	13.82	240	94895	20.00	ng	-0.03
86) Perylene-d12	15.19	264	71541	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.27	112	362388	110.28	ng	-0.02
7) Phenol-d6	6.32	99	445874	105.01	ng	-0.03
23) Nitrobenzene-d5	7.23	82	252965	65.36	ng	-0.05
41) 2,4,6-Tribromophenol	10.49	330	52470	76.69	ng	-0.05
44) 2-Fluorobiphenyl	9.03	172	443708	95.12	ng	-0.05
78) Terphenyl-d14	12.78	244	311388	73.09	ng	-0.02

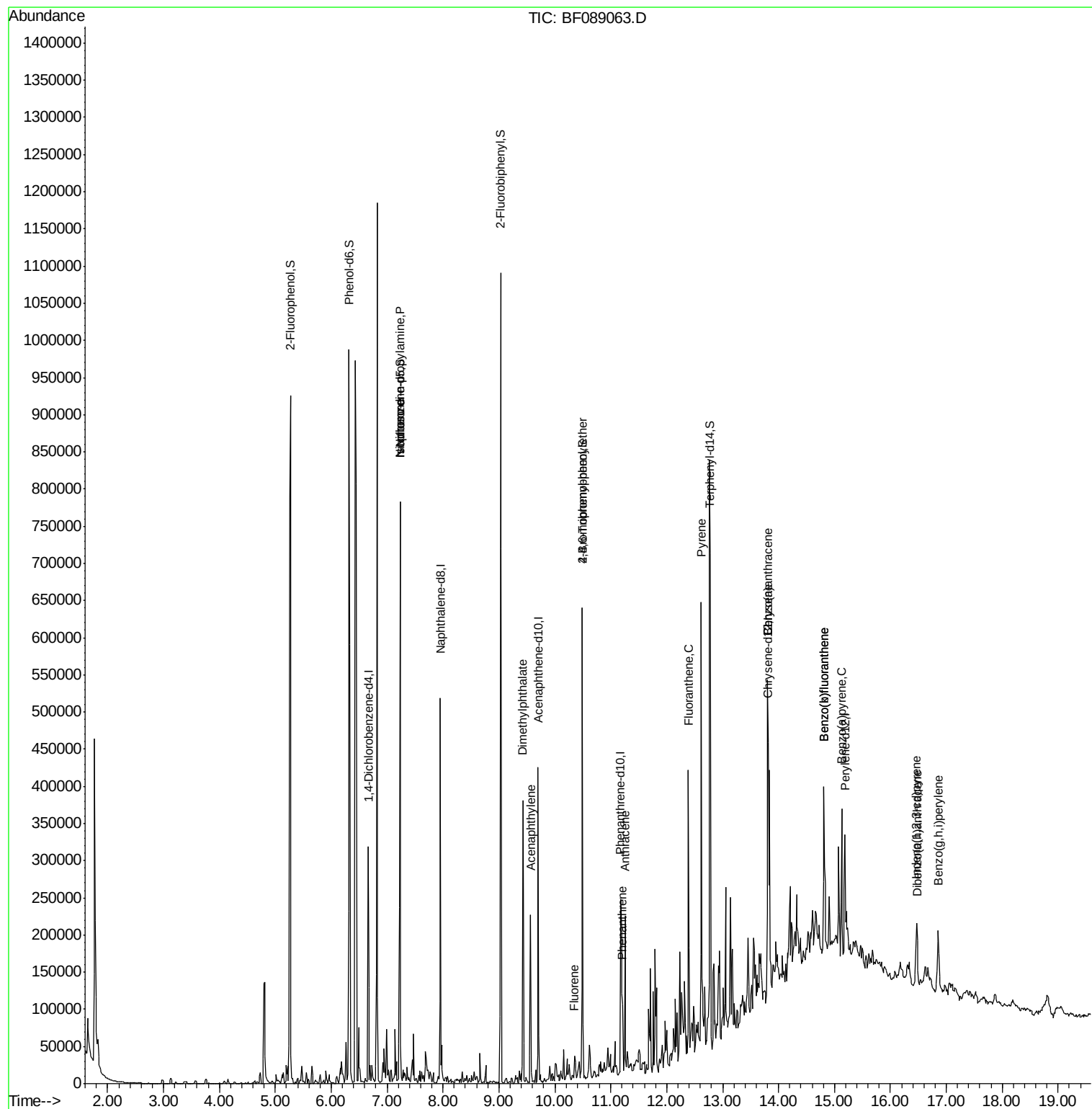
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.23	70	36252	12.71	ng	# 74
25) Isophorone	7.23	82	197365	27.53	ng	# 65
48) Acenaphthylene	9.56	152	92806	12.18	ng	98
49) Dimethylphthalate	9.43	163	115502	22.00	ng	99
57) Fluorene	10.35	166	10422	2.21	ng	96
66) 4-Bromophenyl-phenylether	10.49	248	4582	3.94	ng	# 1
70) Phenanthrene	11.21	178	57583	9.12	ng	99
71) Anthracene	11.26	178	76583	12.20	ng	97
74) Fluoranthene	12.39	202	146513	22.90	ng	98
77) Pyrene	12.62	202	227284	28.25	ng	99
80) Benzo(a)anthracene	13.81	228	111841	18.30	ng	# 85
82) Chrysene	13.81	228	111841	18.50	ng	# 90
85) Indeno(1,2,3-cd)pyrene	16.47	276	45251	9.73	ng	# 100
87) Benzo(b)fluoranthene	14.81	252	127476	28.40	ng	# 95
88) Benzo(k)fluoranthene	14.81	252	127322	32.59	ng	99
89) Benzo(a)pyrene	15.13	252	77750	20.46	ng	98
90) Dibenzo(a,h)anthracene	16.48	278	13771	4.34	ng	# 84
91) Benzo(g,h,i)perylene	16.86	276	56323	17.15	ng	97

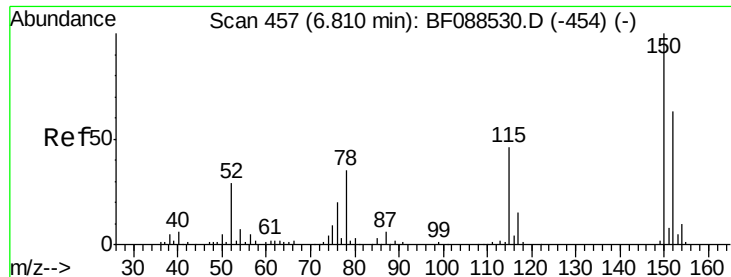
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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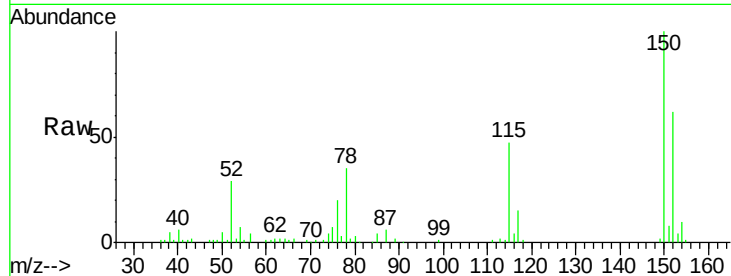


#1

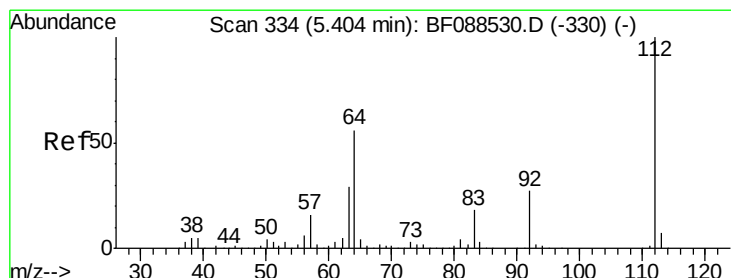
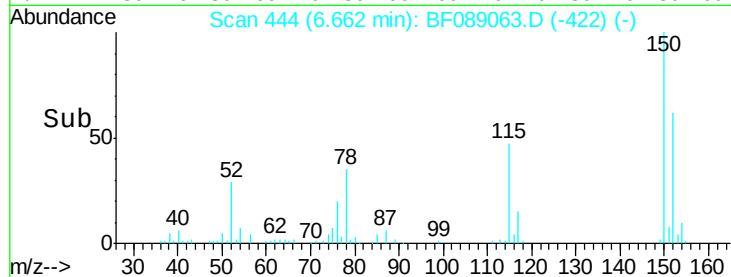
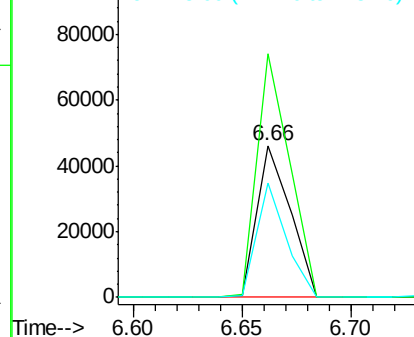
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.66 min Scan# 444
Delta R.T. -0.05 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 49247
Ion Ratio Lower Upper
152 100
150 160.4 123.8 185.6
115 75.7 39.6 59.4#



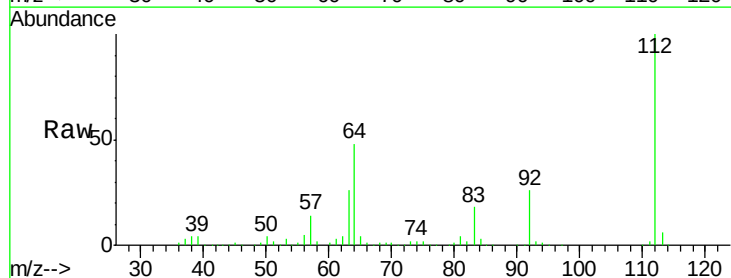
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



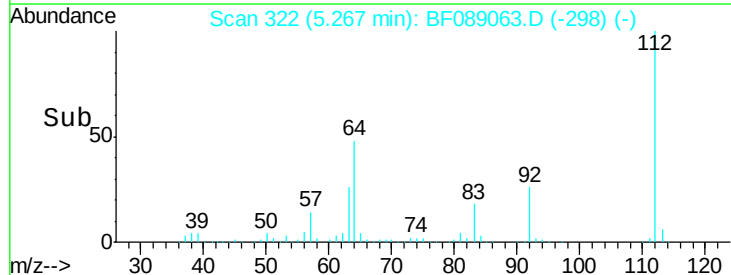
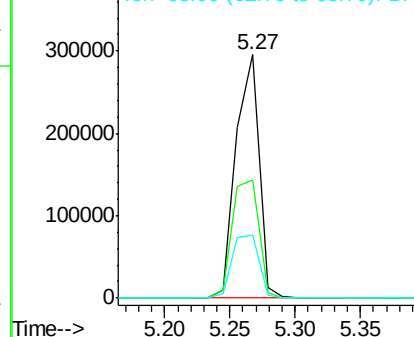
#5

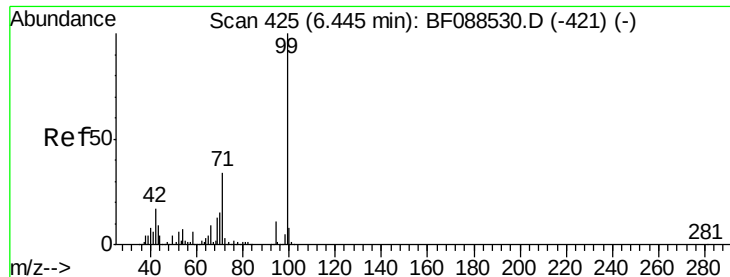
2-Fluorophenol
Concen: 110.28 ng
RT: 5.27 min Scan# 322
Delta R.T. -0.02 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Tgt Ion:112 Resp: 362388
Ion Ratio Lower Upper
112 100
64 48.4 42.2 63.2
63 26.0 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: 105.01 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

Instrument :

BNA_F

ClientSampleId :

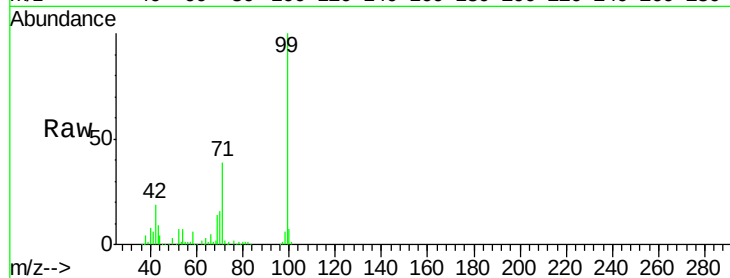
Tot Ion: 99 Resp: 445874

Ion Ratio Lower Upper

99 100

42 19.0 12.2 18.2#

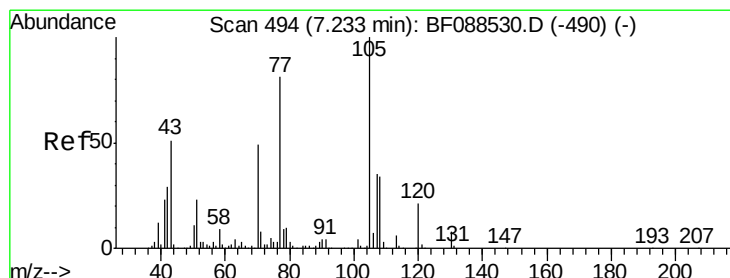
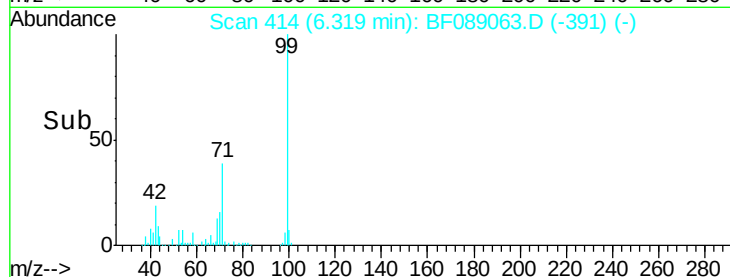
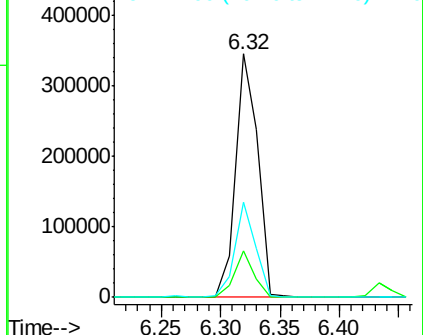
71 39.2 23.4 35.0#



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: 12.71 ng

RT: 7.23 min Scan# 494

Delta R.T. 0.09 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

Tgt Ion: 70 Resp: 36252

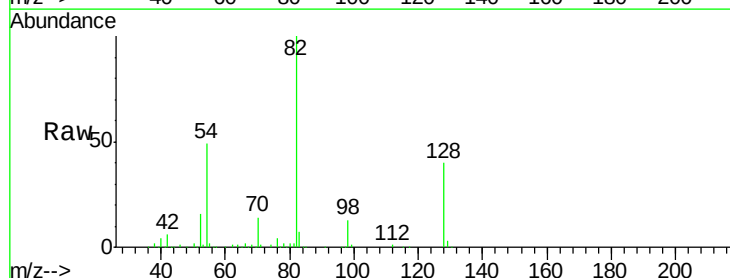
Ion Ratio Lower Upper

70 100

42 45.2 49.6 74.4#

101 0.0 7.1 10.7#

130 2.1 15.4 23.2#

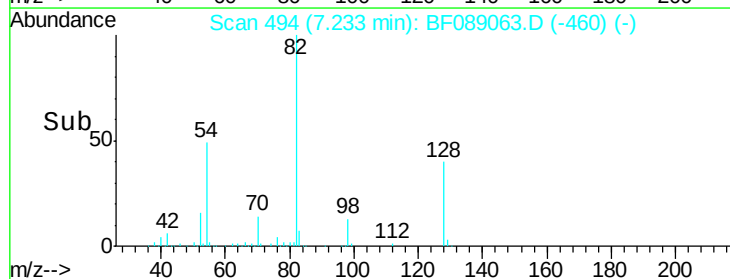
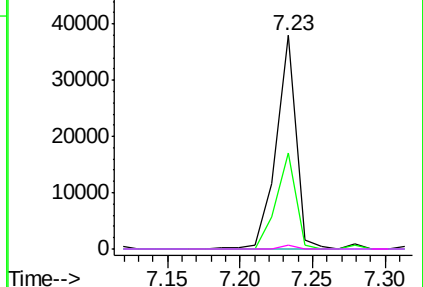


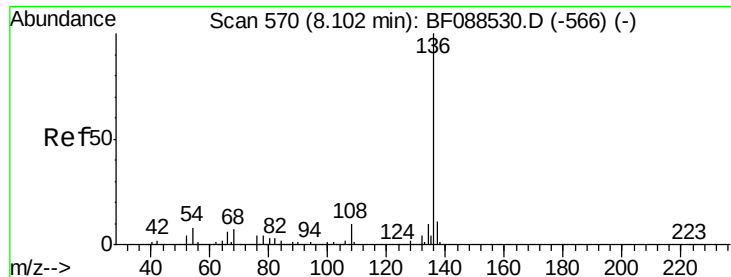
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.95 min Scan# 557

Delta R.T. -0.05 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 202810

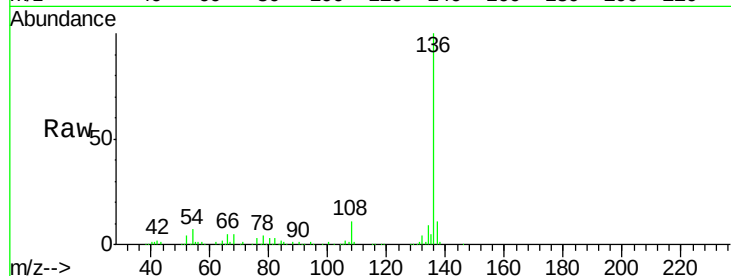
Ion Ratio Lower Upper

136 100

137 10.6 9.1 13.7

54 6.5 6.6 10.0#

68 4.8 5.1 7.7#

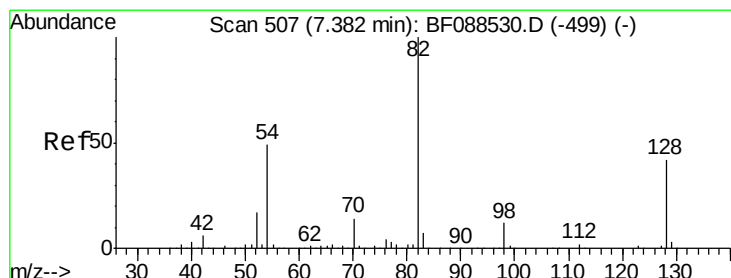
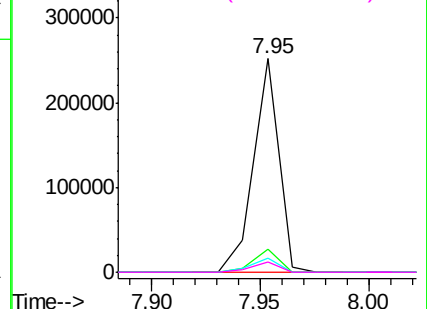
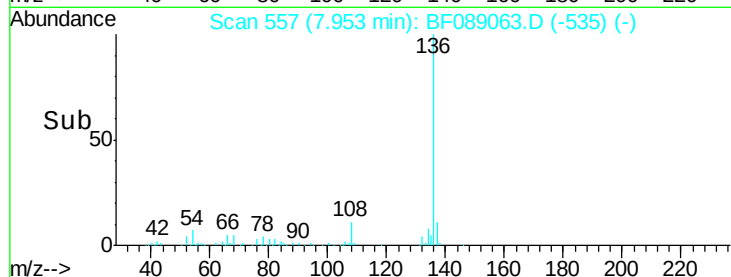


Abundance Ion 136.00 (135.70 to 136.70): E

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: 65.36 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.05 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

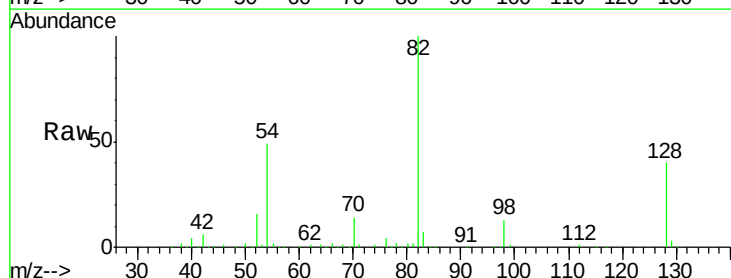
Tgt Ion: 82 Resp: 252965

Ion Ratio Lower Upper

82 100

128 40.1 35.9 53.9

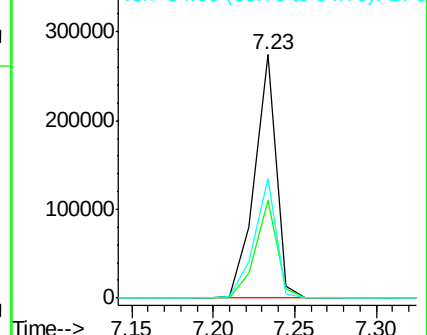
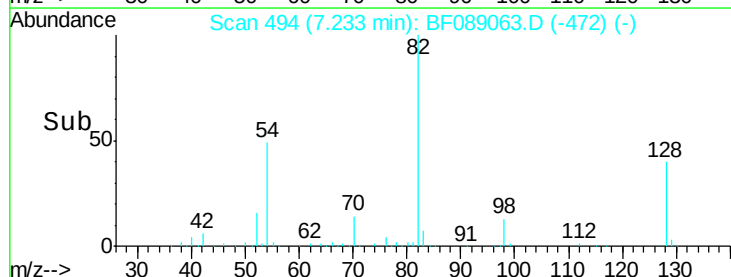
54 48.8 40.9 61.3

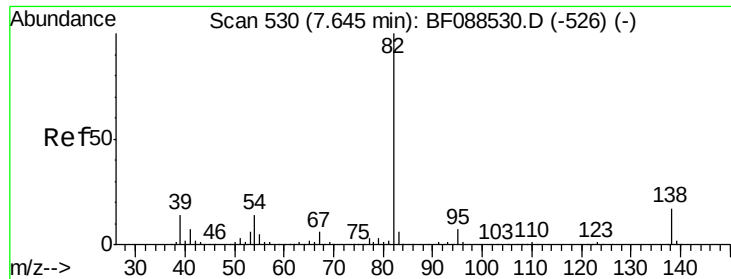


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

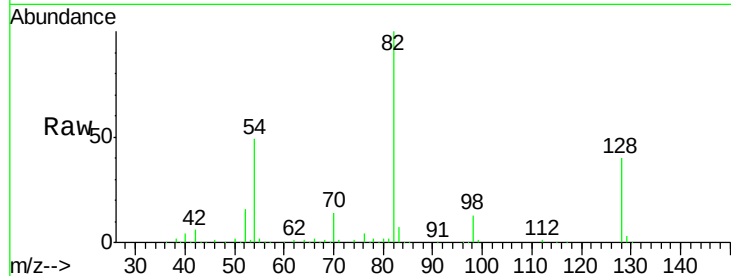




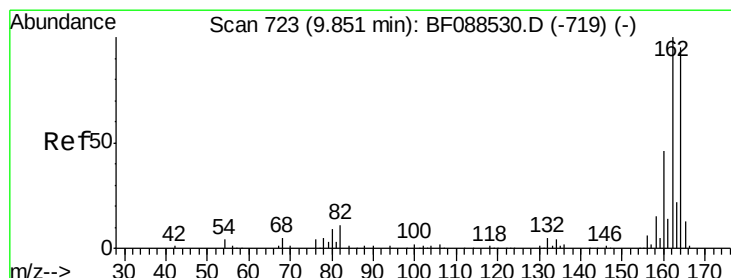
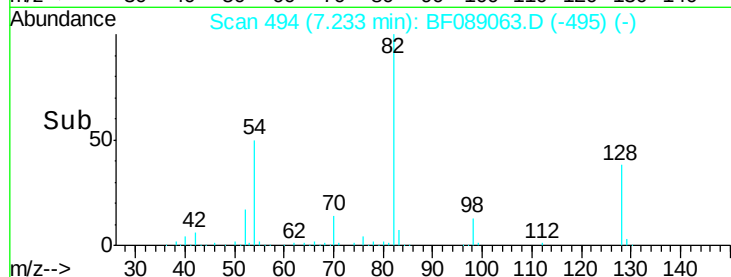
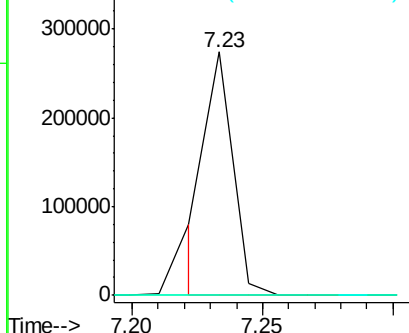
#25
Isophorone
Concen: 27.53 ng
RT: 7.23 min Scan# 494
Delta R.T. -0.31 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 197365
Ion Ratio Lower Upper
82 100
95 0.0 5.4 8.2#
138 0.0 14.6 21.8#

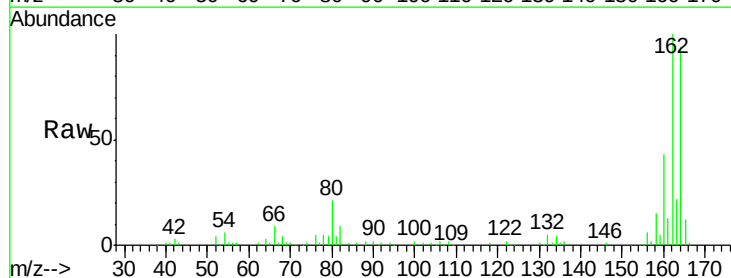


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): E

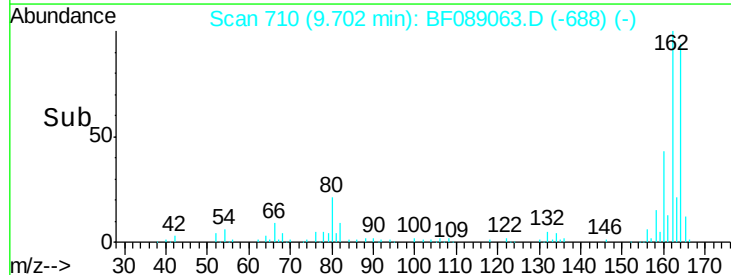
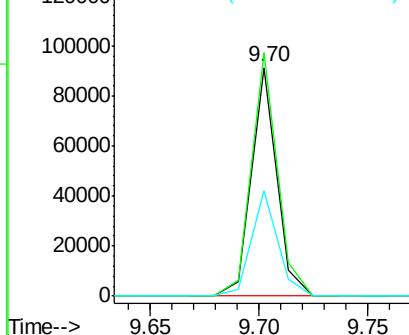


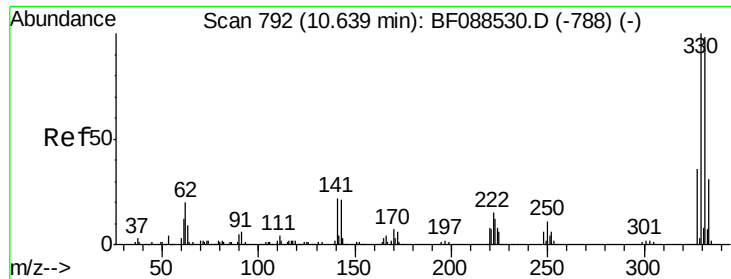
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.70 min Scan# 710
Delta R.T. -0.05 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Tgt Ion:164 Resp: 73680
Ion Ratio Lower Upper
164 100
162 106.6 85.4 128.2
160 46.1 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

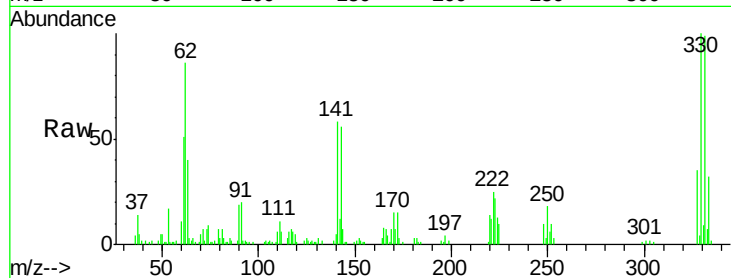




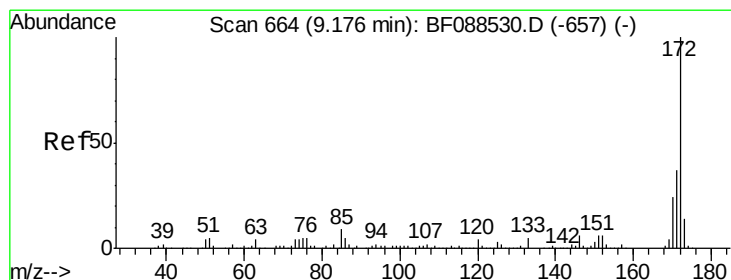
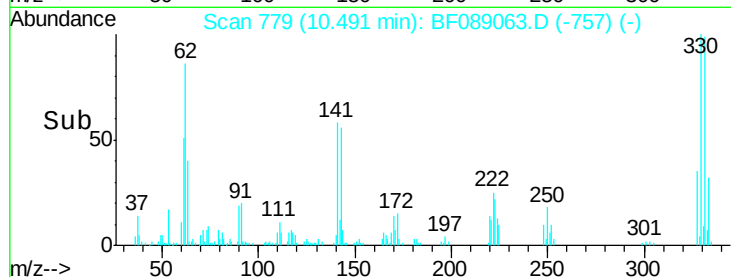
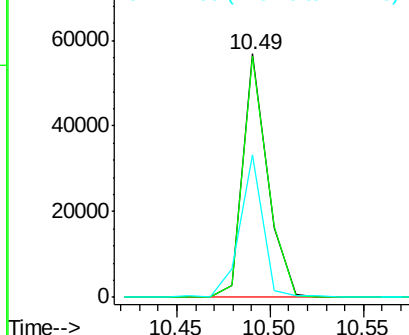
#41
 2,4,6-Tribromophenol
 Concen: 76.69 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.05 min
 Lab File: BF089063.D
 Acq: 16 Jul 2016 19:13

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 52470
 Ion Ratio Lower Upper
 330 100
 332 99.3 0.0 0.0#
 141 55.9 0.0 0.0#

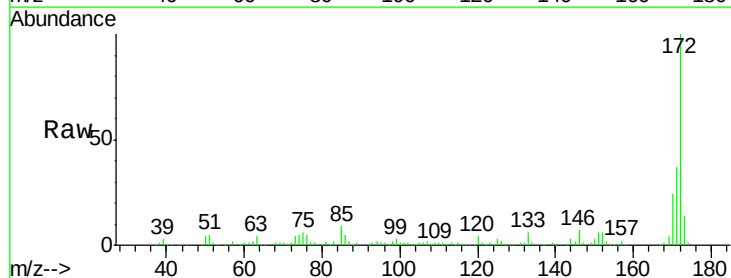


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

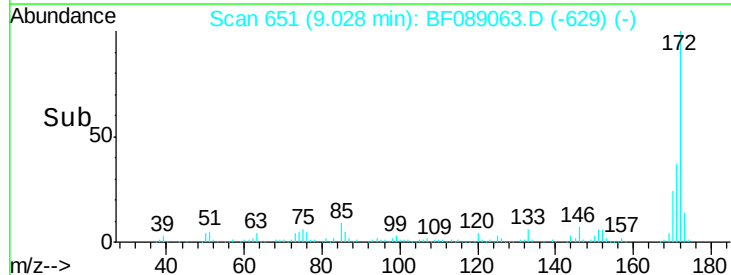
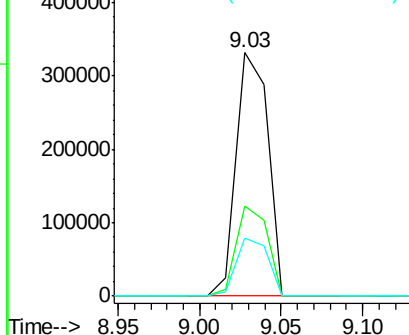


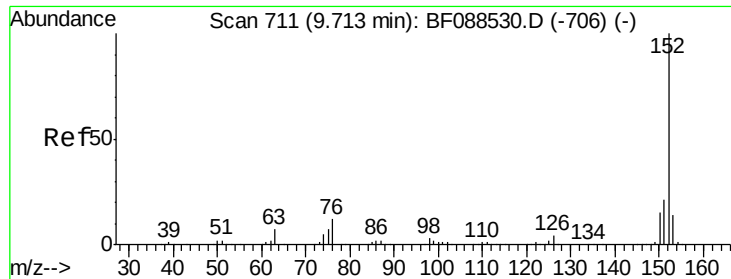
#44
 2-Fluorobiphenyl
 Concen: 95.12 ng
 RT: 9.03 min Scan# 651
 Delta R.T. -0.05 min
 Lab File: BF089063.D
 Acq: 16 Jul 2016 19:13

Tgt Ion:172 Resp: 443708
 Ion Ratio Lower Upper
 172 100
 171 36.7 28.6 43.0
 170 23.8 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

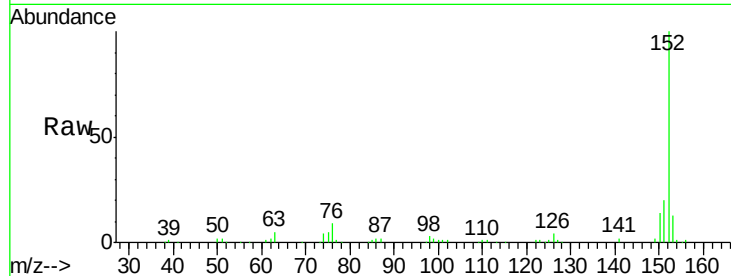




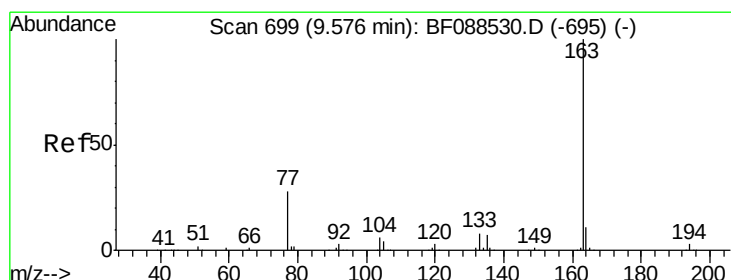
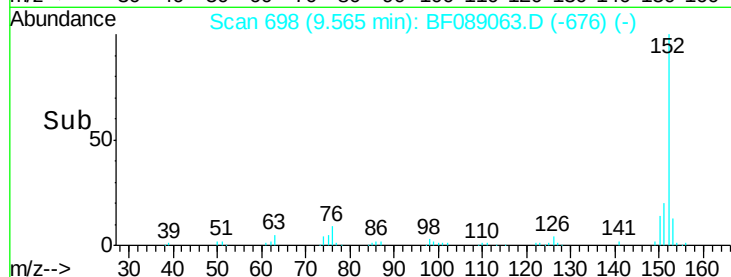
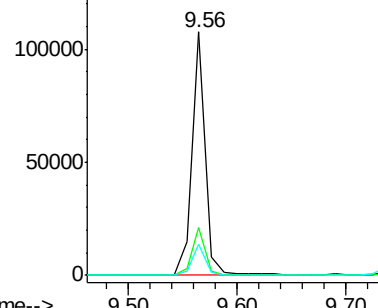
#48
Acenaphthylene
Concen: 12.18 ng
RT: 9.56 min Scan# 698
Delta R.T. -0.05 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 92806
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.4
153 12.9 11.0 16.6

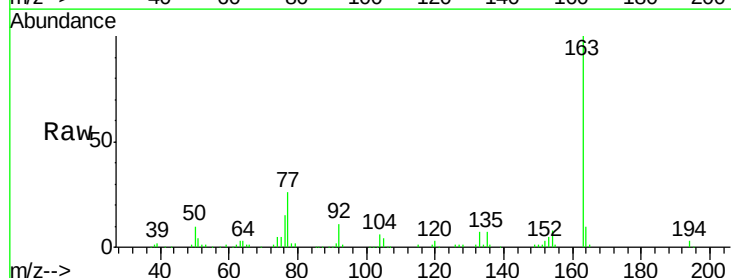


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

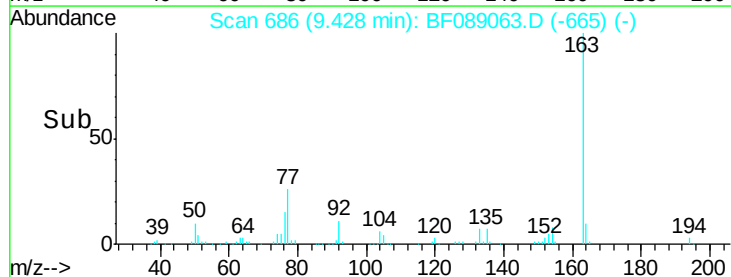
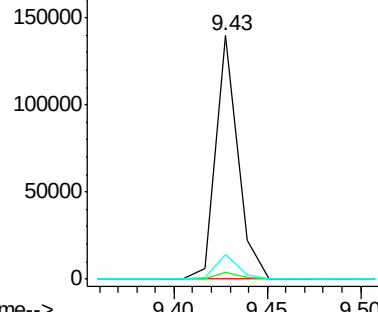


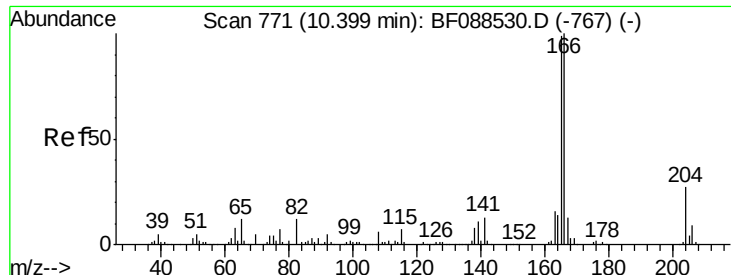
#49
Dimethylphthalate
Concen: 22.00 ng
RT: 9.43 min Scan# 686
Delta R.T. -0.06 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Tgt Ion:163 Resp: 115502
Ion Ratio Lower Upper
163 100
194 2.9 2.8 4.2
164 10.4 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

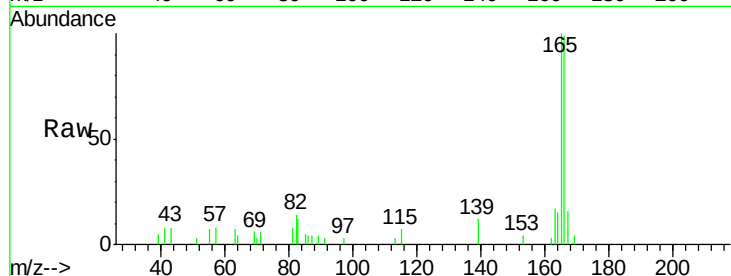




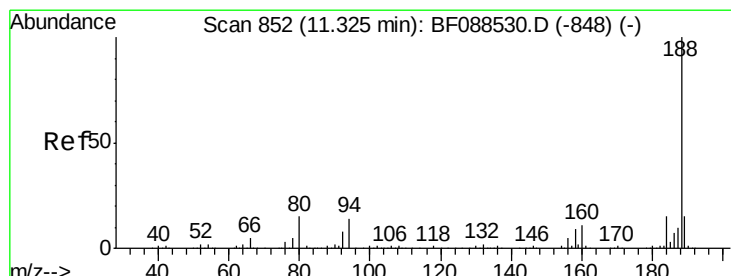
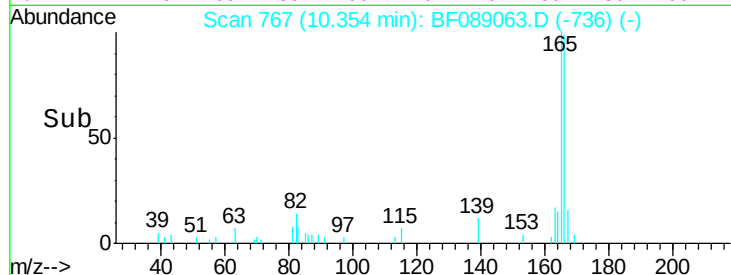
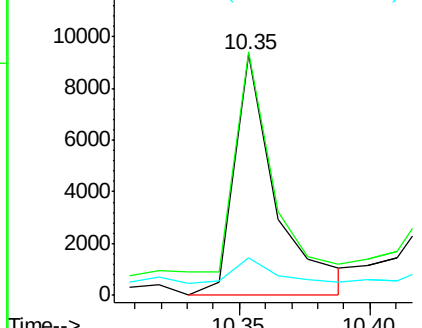
#57
Fluorene
Concen: 2.21 ng
RT: 10.35 min Scan# 767
Delta R.T. 0.06 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion:166 Resp: 10422
Ion Ratio Lower Upper
166 100
165 101.1 77.8 116.8
167 15.7 11.2 16.8

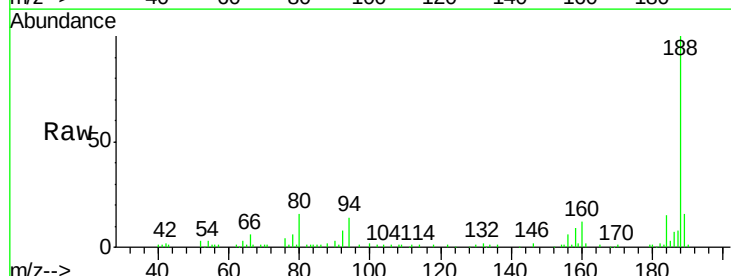


Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

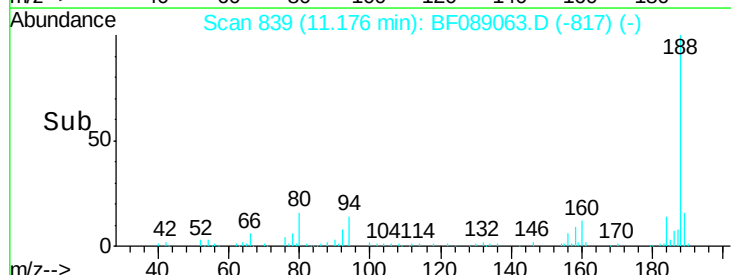
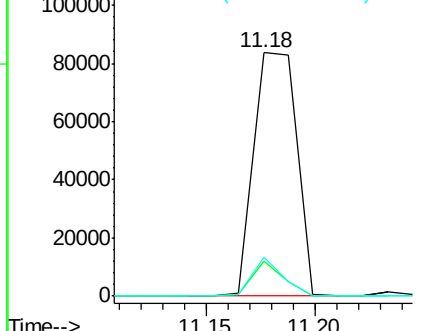


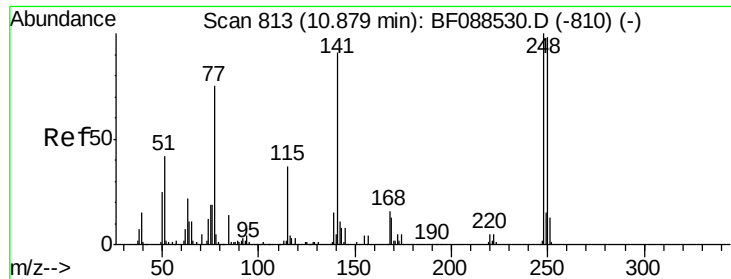
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.18 min Scan# 839
Delta R.T. -0.05 min
Lab File: BF089063.D
Acq: 16 Jul 2016 19:13

Tgt Ion:188 Resp: 115469
Ion Ratio Lower Upper
188 100
94 14.4 9.0 13.6#
80 16.1 10.0 15.0#



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

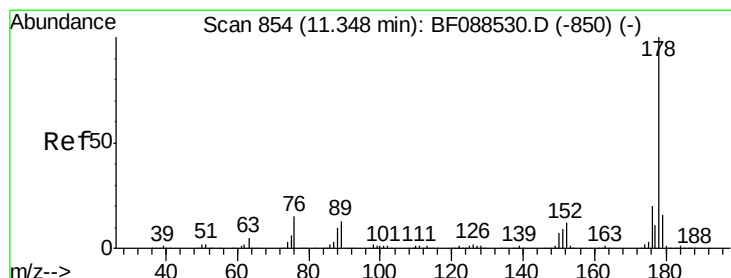
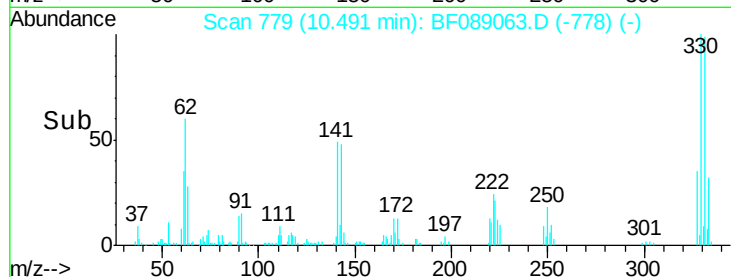
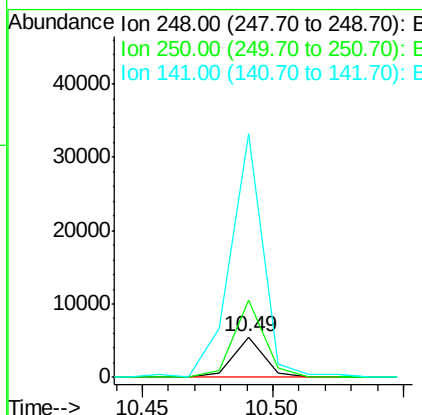
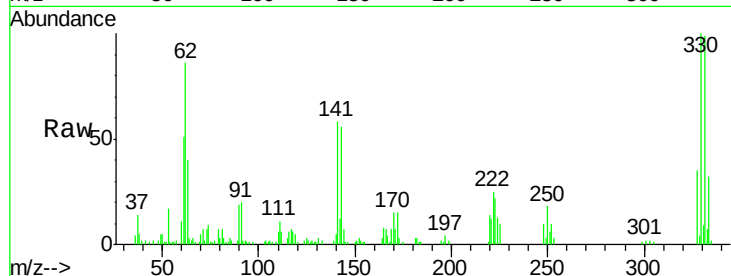




#66
 4-Bromophenyl-phenylether
 Concen: 3.94 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.29 min
 Lab File: BF089063.D
 Acq: 16 Jul 2016 19:13

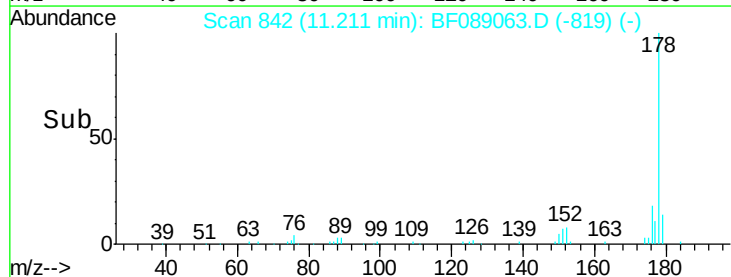
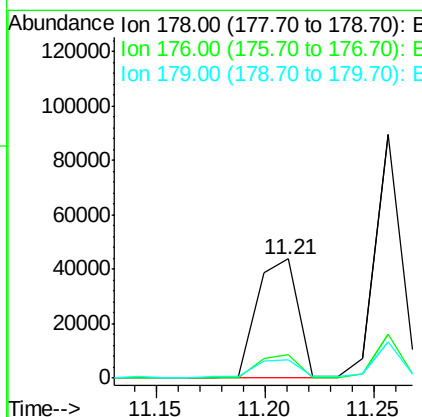
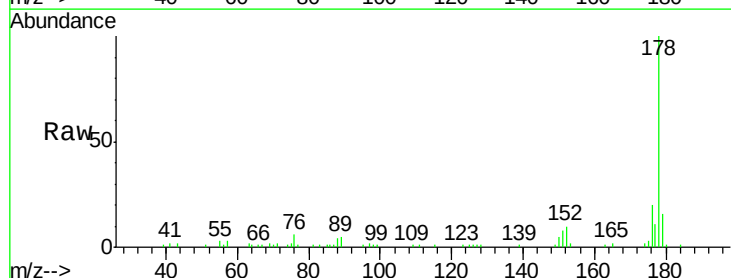
Instrument :
 BNA_F
 ClientSampled :

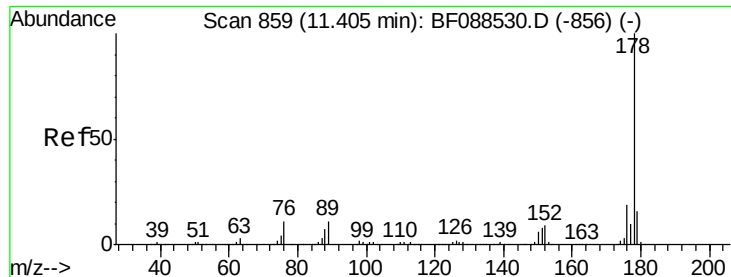
Tot Ion:248 Resp: 4582
 Ion Ratio Lower Upper
 248 100
 250 190.8 77.1 115.7#
 141 602.8 50.6 76.0#



#70
 Phenanthrene
 Concen: 9.12 ng
 RT: 11.21 min Scan# 842
 Delta R.T. -0.03 min
 Lab File: BF089063.D
 Acq: 16 Jul 2016 19:13

Tgt Ion:178 Resp: 57583
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.8 23.6
 179 15.8 13.0 19.4





#71

Anthracene

Concen: 12.20 ng

RT: 11.26 min Scan# 846

Delta R.T. -0.05 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

Instrument :

BNA_F

ClientSampleId :

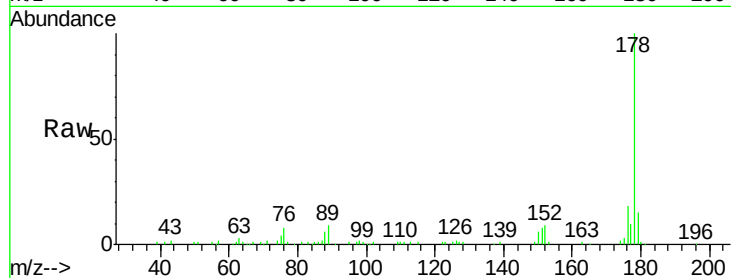
Tot Ion:178 Resp: 76583

Ion Ratio Lower Upper

178 100

176 17.9 15.6 23.4

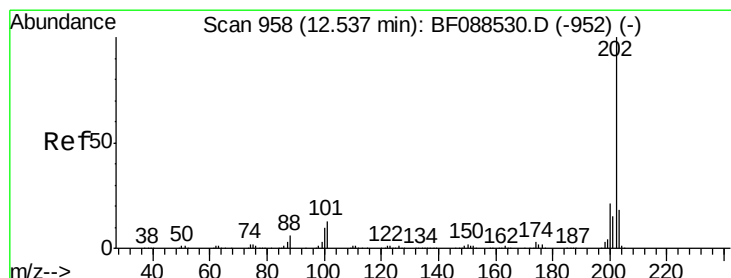
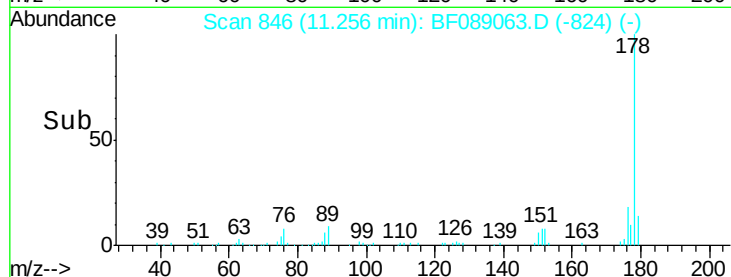
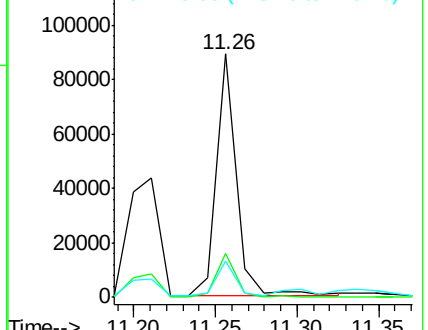
179 14.9 12.8 19.2



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: 22.90 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.03 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

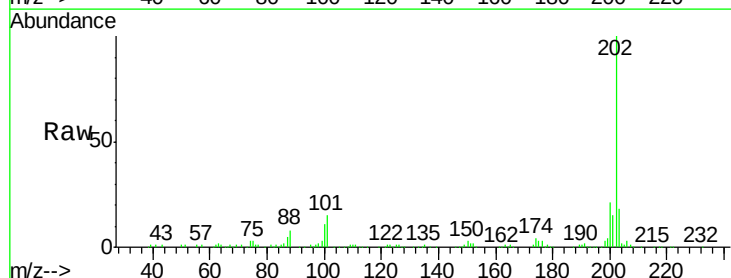
Tgt Ion:202 Resp: 146513

Ion Ratio Lower Upper

202 100

101 14.8 0.0 33.1

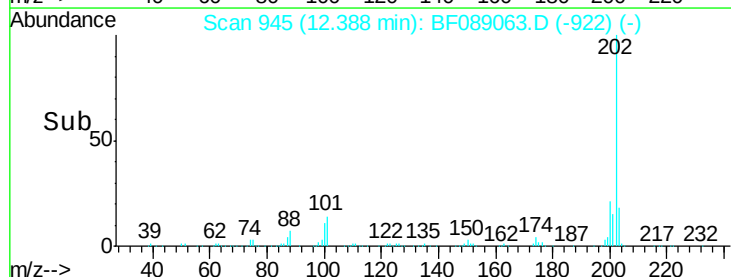
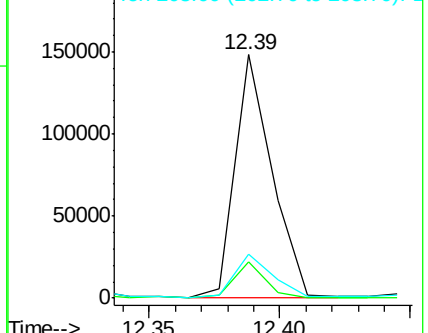
203 17.9 0.0 38.1

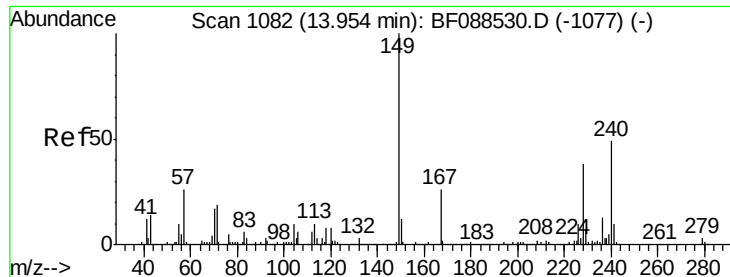


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.82 min Scan# 1070

Delta R.T. -0.03 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

Instrument :

BNA_F

ClientSampleId :

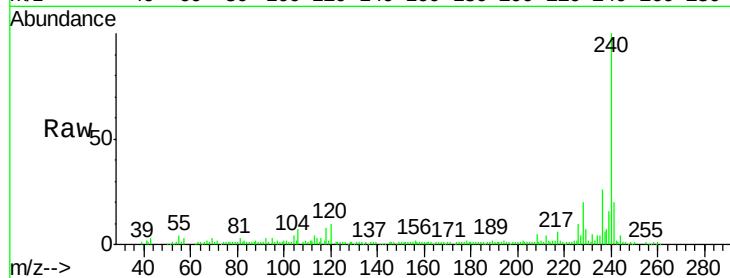
Tot Ion:240 Resp: 94895

Ion Ratio Lower Upper

240 100

120 9.6 6.8 10.2

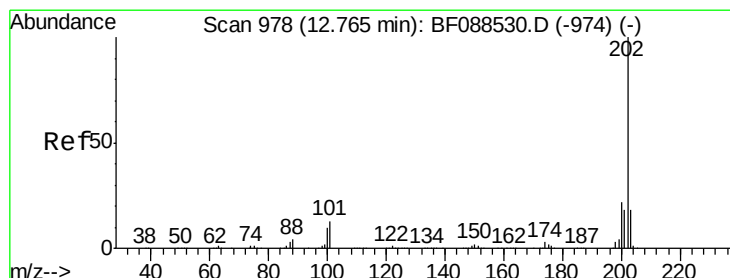
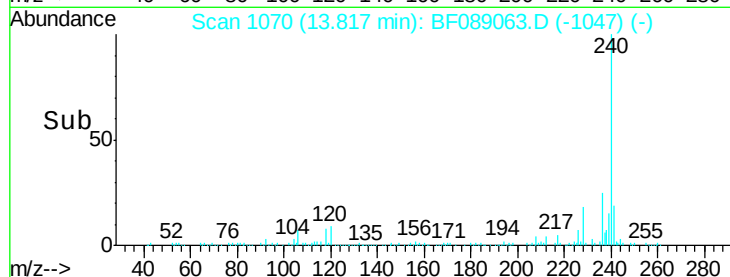
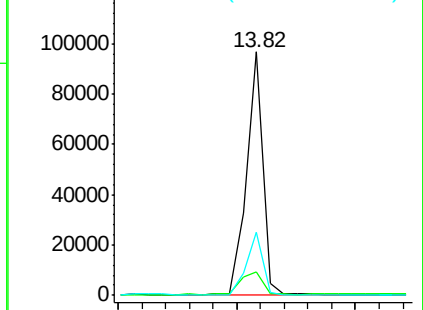
236 25.8 20.2 30.2



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: 28.25 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

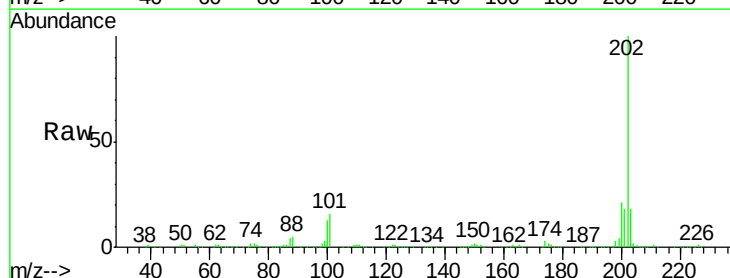
Tgt Ion:202 Resp: 227284

Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.2

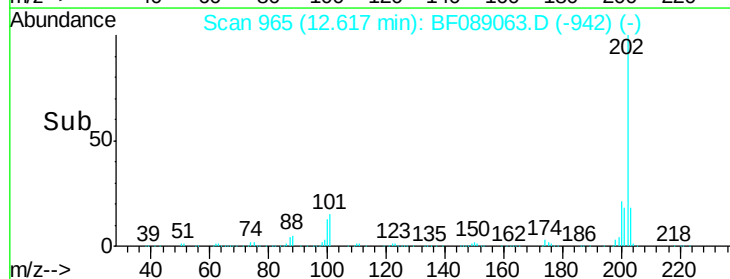
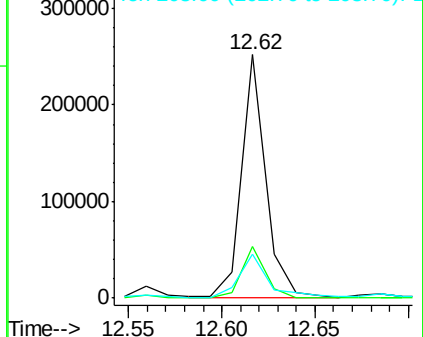
203 17.9 14.5 21.7

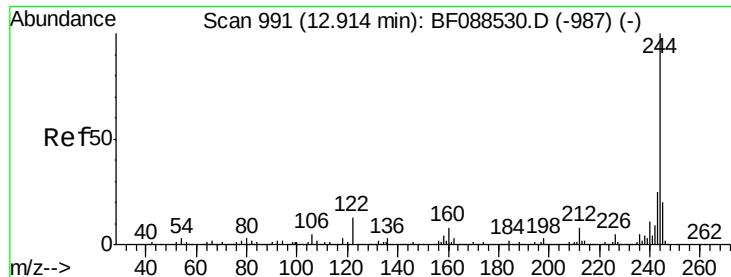


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 73.09 ng

RT: 12.78 min Scan# 979

Delta R.T. -0.02 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

Instrument :

BNA_F

ClientSampleId :

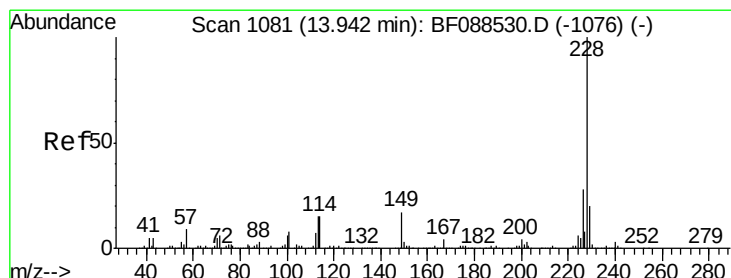
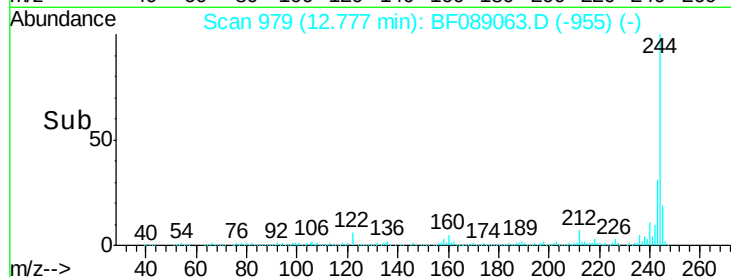
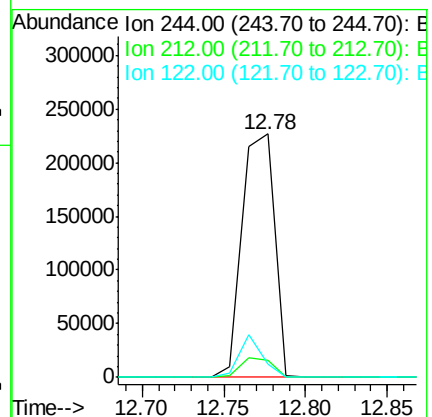
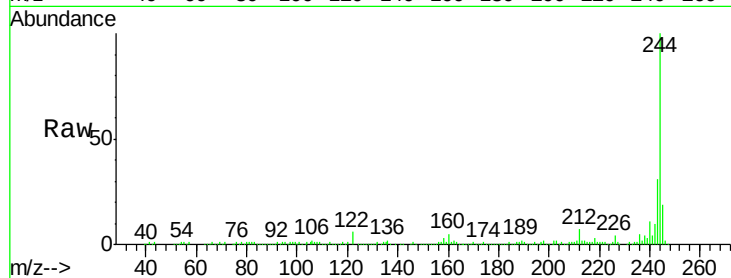
Tot Ion:244 Resp: 311388

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

122 5.6 11.2 16.8#



#80

Benzo(a)anthracene

Concen: 18.30 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.03 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

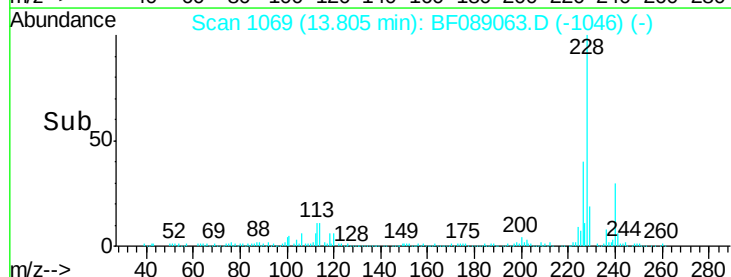
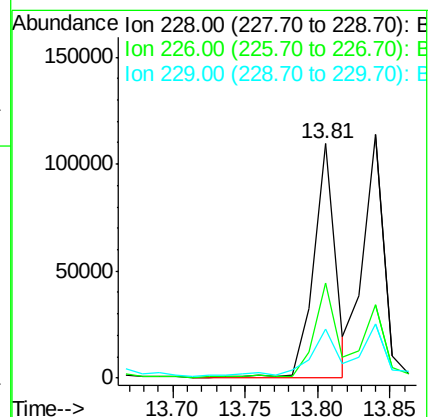
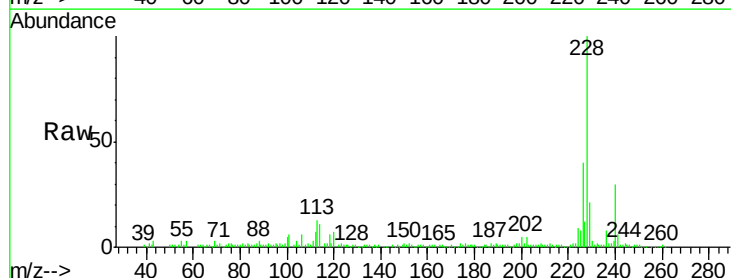
Tgt Ion:228 Resp: 111841

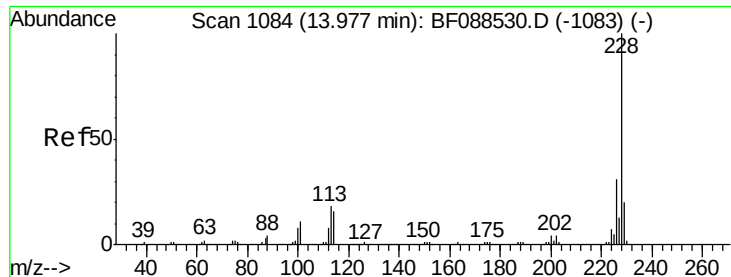
Ion Ratio Lower Upper

228 100

226 40.5 22.3 33.5#

229 20.9 16.0 24.0





#82

Chrysene

Concen: 18.50 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.07 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

Instrument :

BNA_F

ClientSampled :

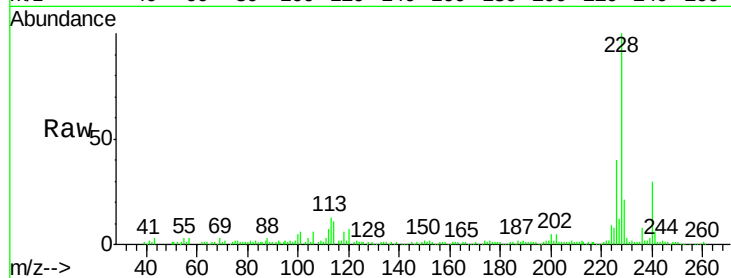
Tot Ion:228 Resp: 111841

Ion Ratio Lower Upper

228 100

226 40.5 25.4 38.2#

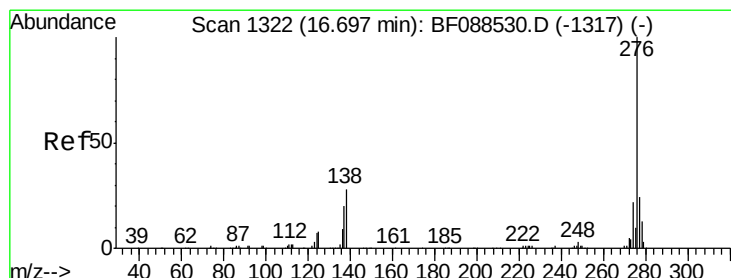
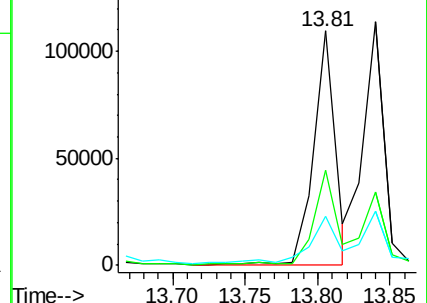
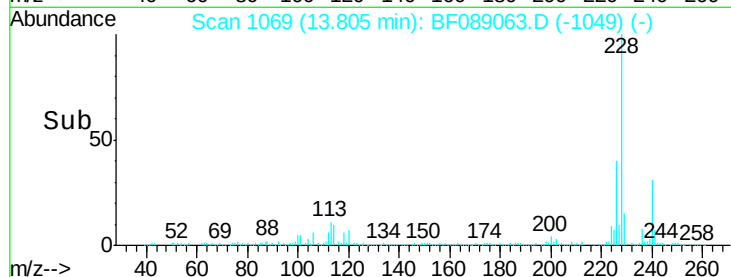
229 20.9 16.3 24.5



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: 9.73 ng

RT: 16.47 min Scan# 1302

Delta R.T. -0.03 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

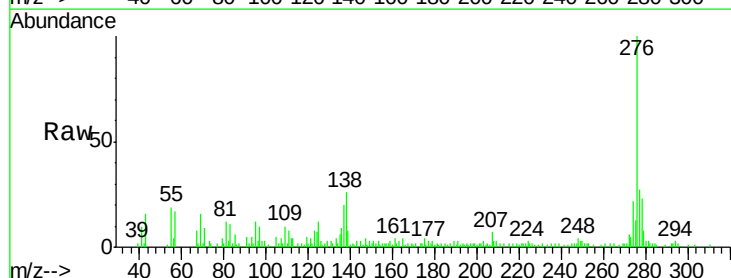
Tgt Ion:276 Resp: 45251

Ion Ratio Lower Upper

276 100

138 23.9 0.0 0.0#

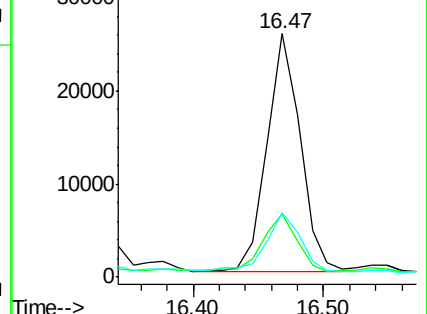
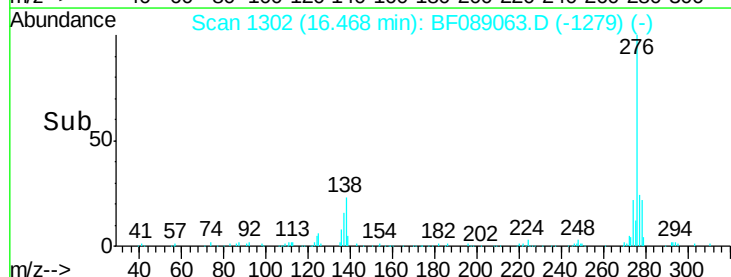
277 25.3 0.0 0.0#

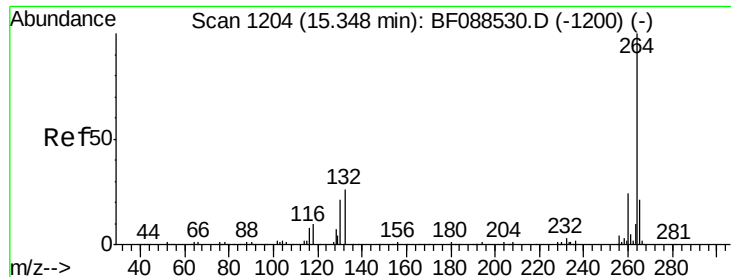


Abundance Ion 276.00 (275.70 to 276.70): E

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: 15.19 min Scan# 1190

Delta R.T. -0.02 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

Instrument :

BNA_F

ClientSampleId :

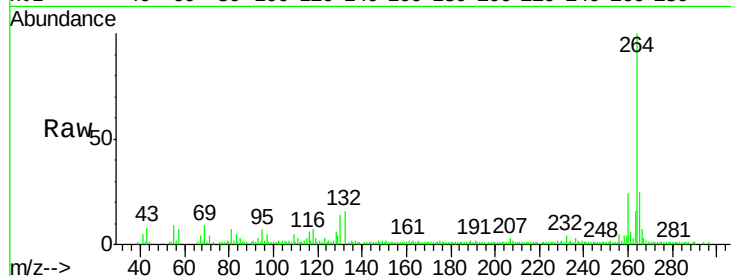
Tot Ion:264 Resp: 71541

Ion Ratio Lower Upper

264 100

260 24.1 19.2 28.8

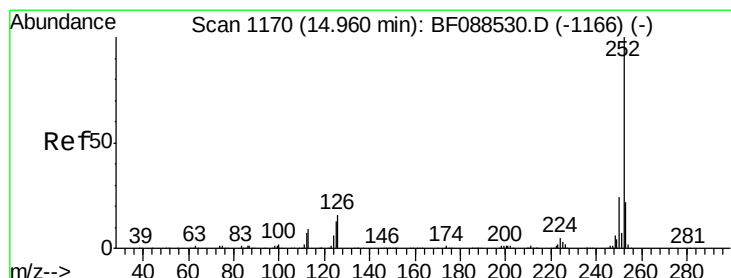
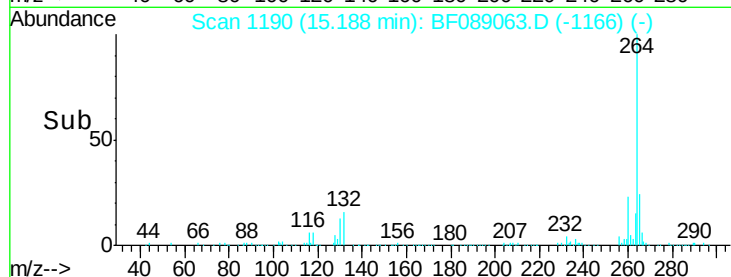
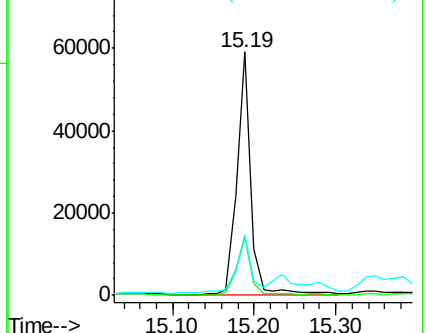
265 25.1 16.9 25.3



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: 28.40 ng

RT: 14.81 min Scan# 1157

Delta R.T. -0.02 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

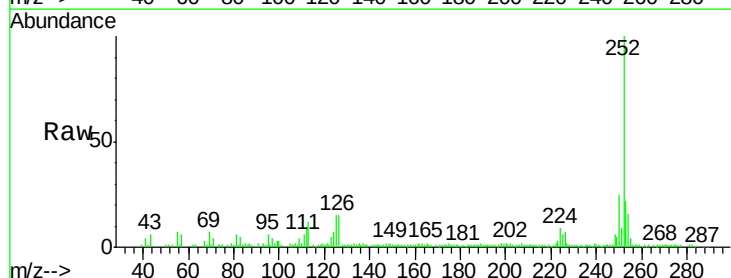
Tgt Ion:252 Resp: 127476

Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.2

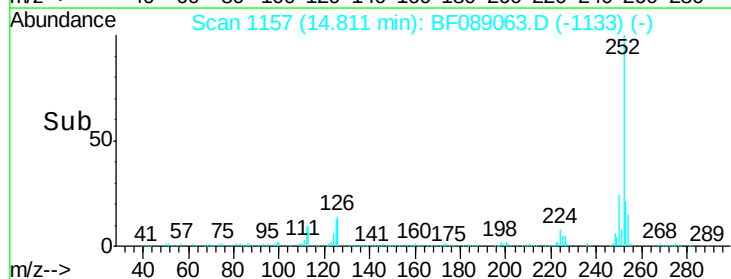
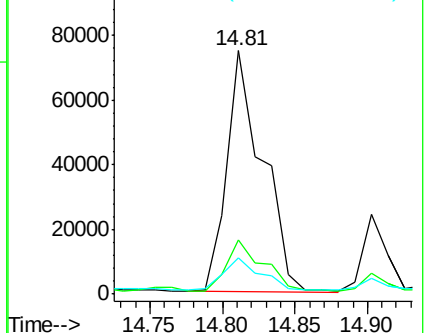
125 14.7 7.1 10.7#

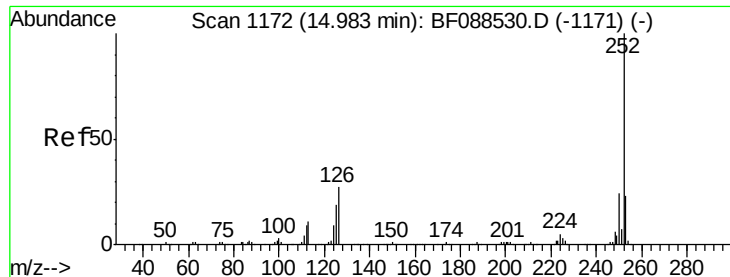


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 32.59 ng

RT: 14.81 min Scan# 1157

Delta R.T. -0.06 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

Instrument :

BNA_F

ClientSampleId :

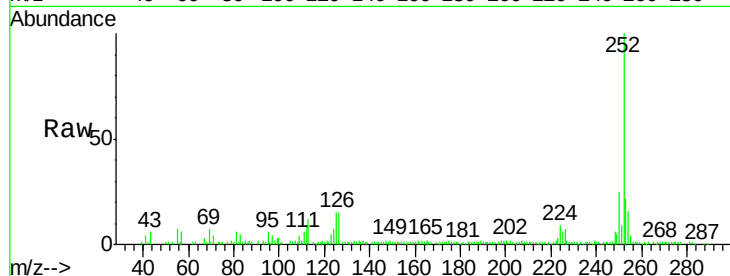
Tot Ion:252 Resp: 127322

Ion Ratio Lower Upper

252 100

253 22.3 18.0 27.0

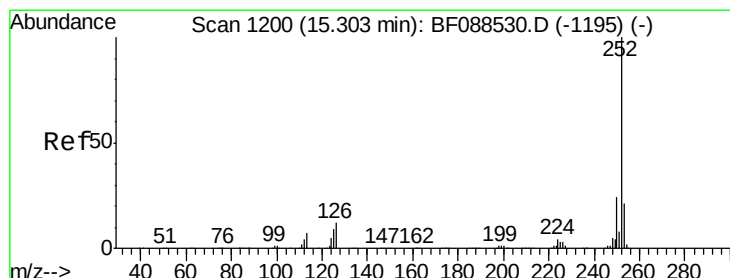
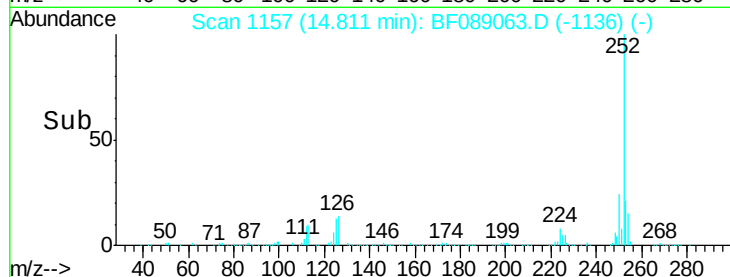
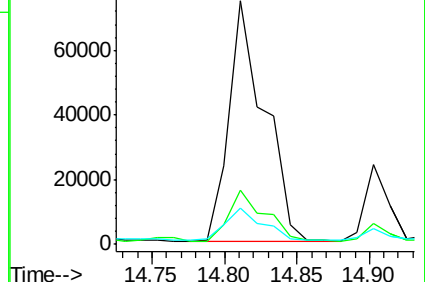
125 14.7 11.2 16.8



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: 20.46 ng

RT: 15.13 min Scan# 1185

Delta R.T. -0.03 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

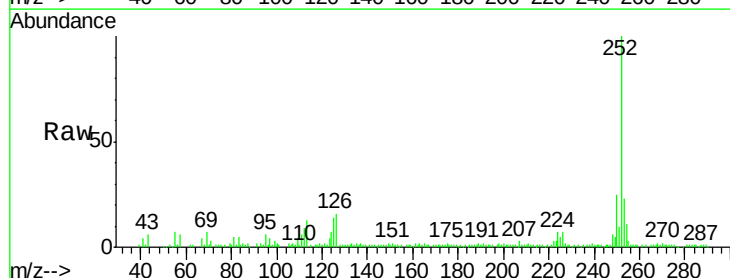
Tgt Ion:252 Resp: 77750

Ion Ratio Lower Upper

252 100

253 22.6 17.9 26.9

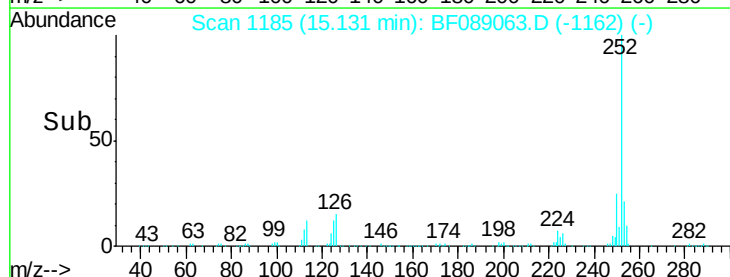
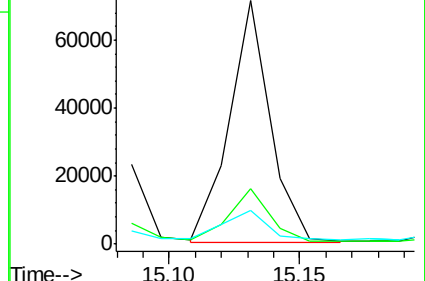
125 14.0 12.5 18.7

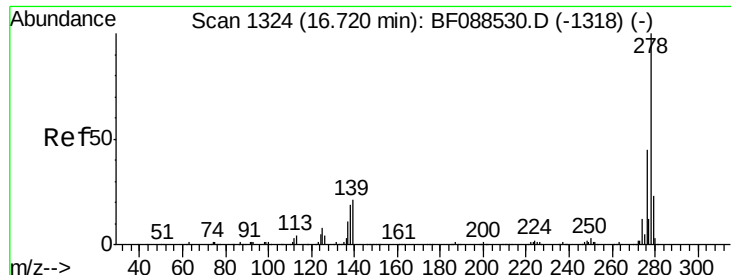


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 4.34 ng

RT: 16.48 min Scan# 1303

Delta R.T. -0.03 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

Instrument :

BNA_F

ClientSampled :

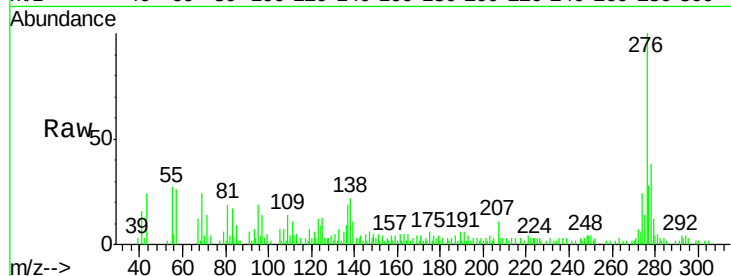
Tot Ion:278 Resp: 13771

Ion Ratio Lower Upper

278 100

139 27.9 15.7 23.5#

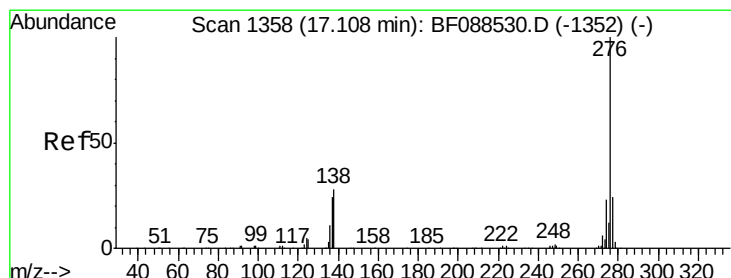
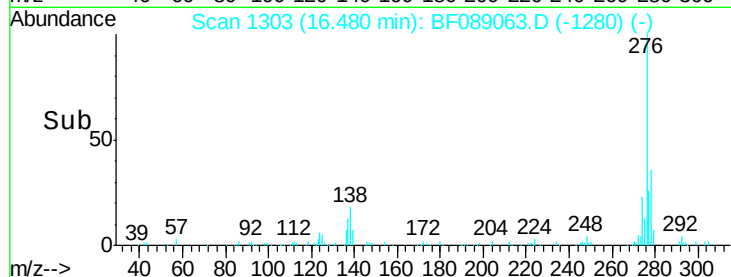
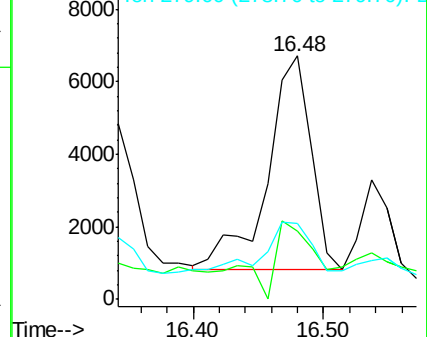
279 31.1 19.4 29.2#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 17.15 ng

RT: 16.86 min Scan# 1336

Delta R.T. -0.03 min

Lab File: BF089063.D

Acq: 16 Jul 2016 19:13

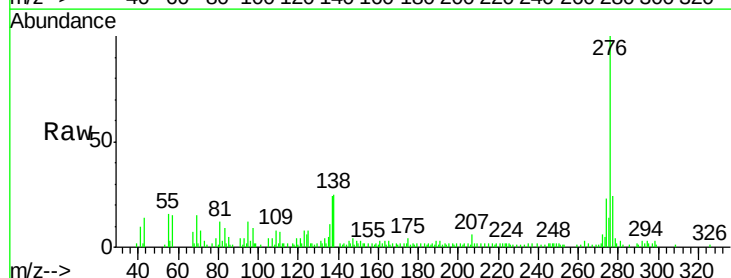
Tgt Ion:276 Resp: 56323

Ion Ratio Lower Upper

276 100

277 24.3 18.9 28.3

138 24.6 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

