

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072116\
 Data File : BF089172.D
 Acq On : 21 Jul 2016 11:14
 Operator : UM/SJ
 Sample : H4112-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 21 16:07:05 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 20 19:03:15 2016
 Response via : Initial Calibration

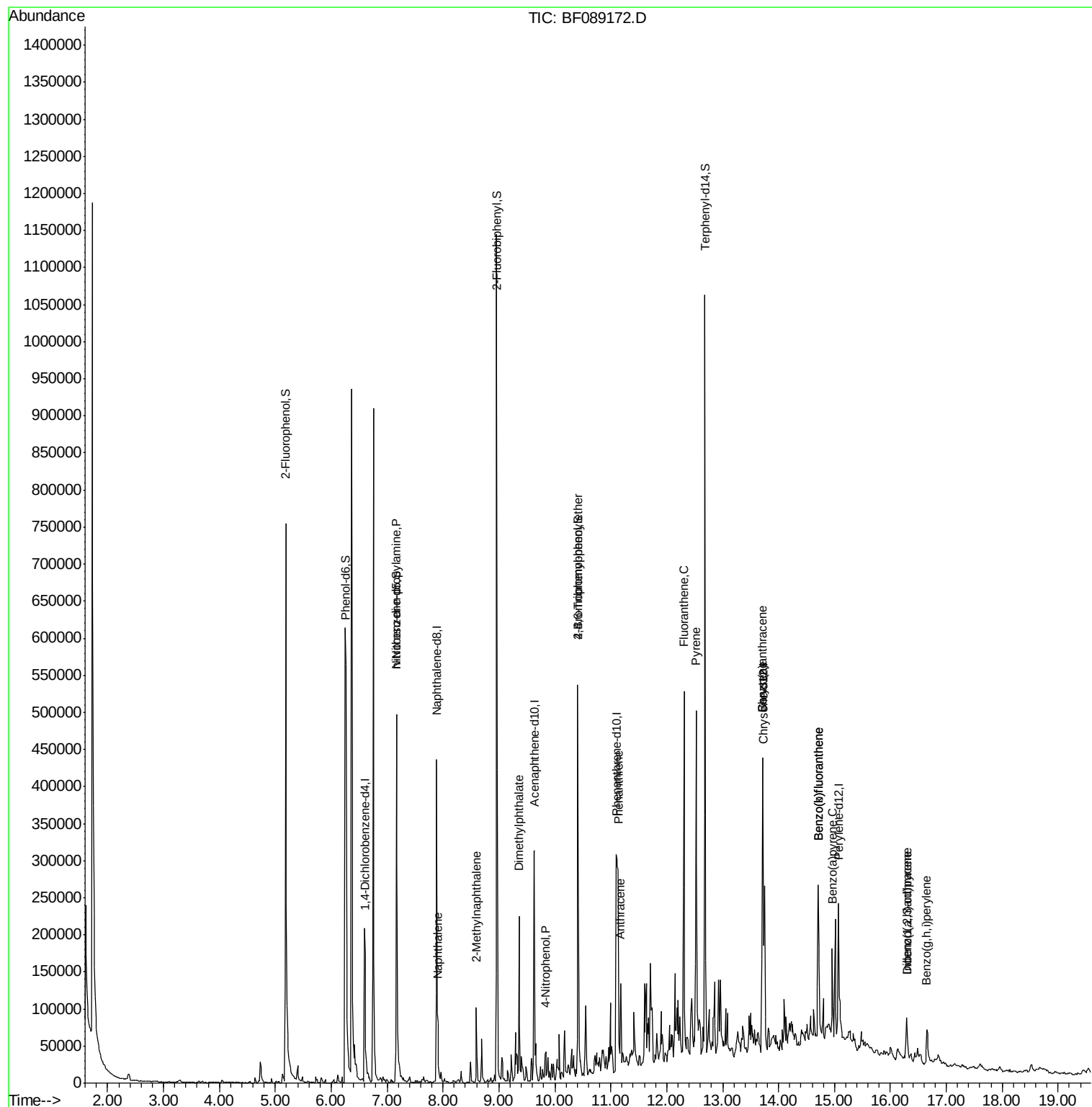
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.60	152	52214	20.00	ng	0.00
21) Naphthalene-d8	7.88	136	221690	20.00	ng	0.00
38) Acenaphthene-d10	9.63	164	95707	20.00	ng	0.00
63) Phenanthrene-d10	11.11	188	167008	20.00	ng	0.00
75) Chrysene-d12	13.73	240	107464	20.00	ng	0.00
86) Perylene-d12	15.07	264	98823	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.19	112	302982	88.25	ng	0.00
7) Phenol-d6	6.26	99	408191	92.20	ng	-0.01
23) Nitrobenzene-d5	7.16	82	246347	59.04	ng	-0.01
41) 2,4,6-Tribromophenol	10.41	330	57152	66.33	ng	-0.01
44) 2-Fluorobiphenyl	8.96	172	422522	60.83	ng	-0.01
78) Terphenyl-d14	12.69	244	306971	61.96	ng	0.00
Target Compounds						
9) Benzaldehyde	6.11	77	797	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.16	70	33593	11.60	ng	# 83
31) Naphthalene	7.91	128	34729	2.90	ng	99
37) 2-Methylnaphthalene	8.59	142	34405	4.51	ng	96
49) Dimethylphthalate	9.36	163	93688	12.76	ng	98
55) 4-Nitrophenol	9.84	139	5760	4.83	ng	# 4
66) 4-Bromophenyl-phenylether	10.41	248	4328	2.62	ng	# 1
70) Phenanthrene	11.13	178	156879	17.12	ng	99
71) Anthracene	11.18	178	51393	5.40	ng	99
74) Fluoranthene	12.31	202	235033	24.41	ng	94
77) Pyrene	12.53	202	230303	25.95	ng	96
80) Benzo(a)anthracene	13.71	228	127321	18.60	ng	99
82) Chrysene	13.71	228	127321	19.47	ng	96
85) Indeno(1,2,3-cd)pyrene	16.30	276	41038	8.64	ng	# 90
87) Benzo(b)fluoranthene	14.71	252	124238	17.36	ng	97
88) Benzo(k)fluoranthene	14.71	252	124145	24.25	ng	# 93
89) Benzo(a)pyrene	14.96	252	51237	9.22	ng	97
90) Dibenzo(a,h)anthracene	16.30	278	13684	3.12	ng	# 76
91) Benzo(a,h,i)perylene	16.65	276	38067	8.61	ng	# 93

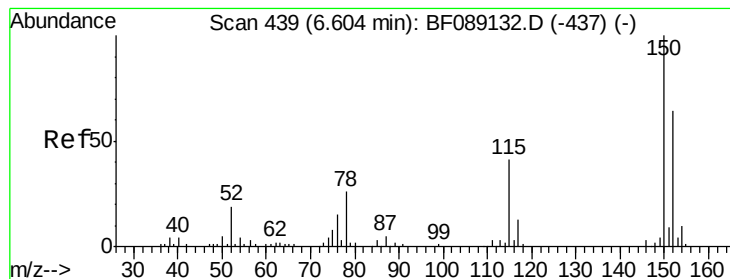
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.60 min Scan# 439

Delta R.T. 0.00 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

Instrument :

BNA_F

ClientSampled :

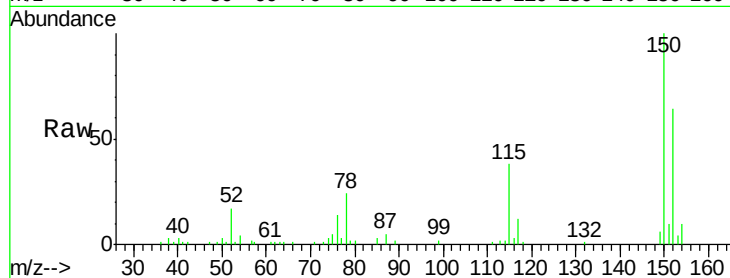
Tot Ion:152 Resp: 52214

Ion Ratio Lower Upper

152 100

150 156.7 125.1 187.7

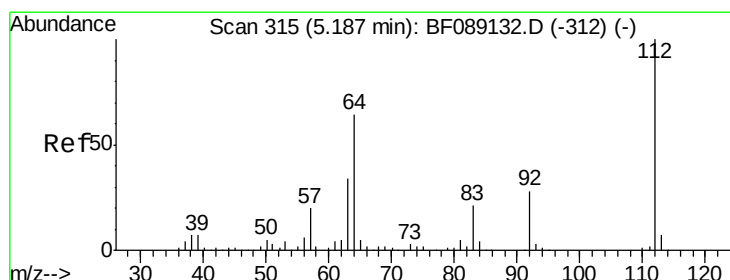
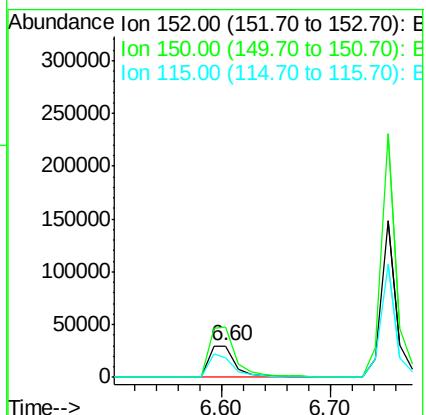
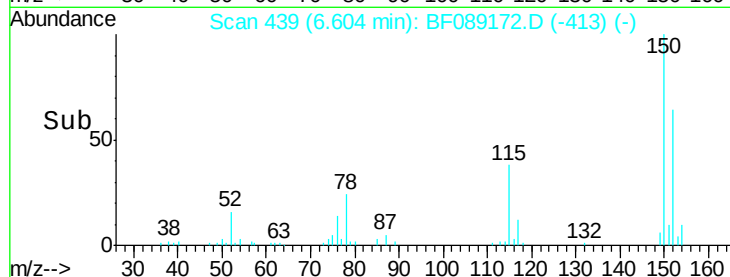
115 59.9 51.1 76.7



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: 88.25 ng

RT: 5.19 min Scan# 315

Delta R.T. 0.00 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

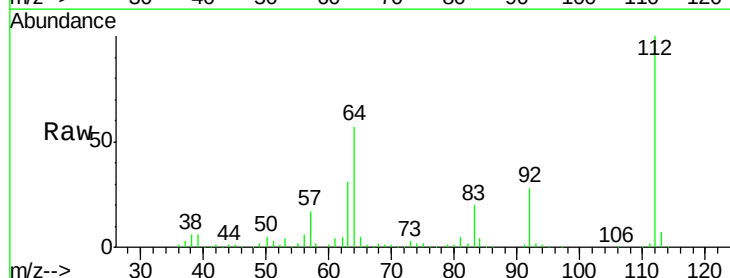
Tgt Ion:112 Resp: 302982

Ion Ratio Lower Upper

112 100

64 56.9 51.0 76.4

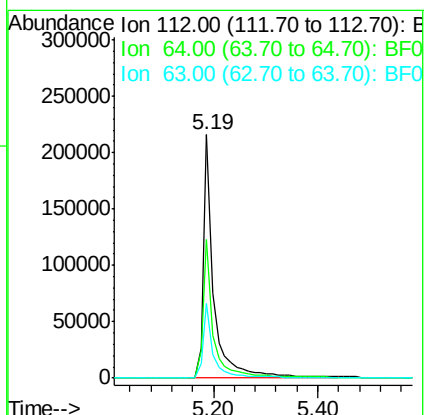
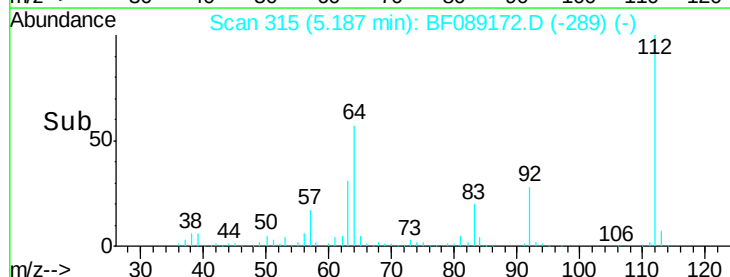
63 30.8 27.3 40.9

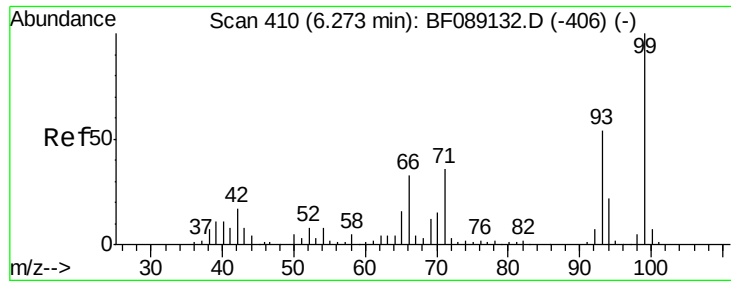


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 92.20 ng

RT: 6.26 min Scan# 409

Delta R.T. -0.01 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

Instrument :

BNA_F

ClientSampleId :

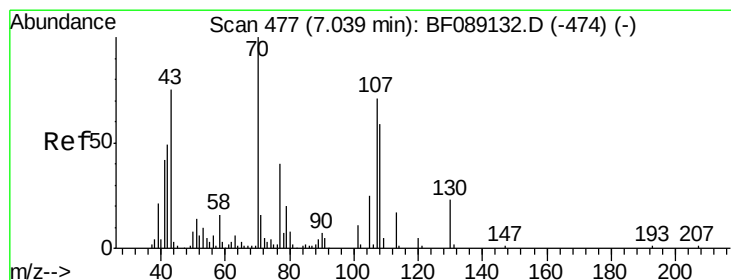
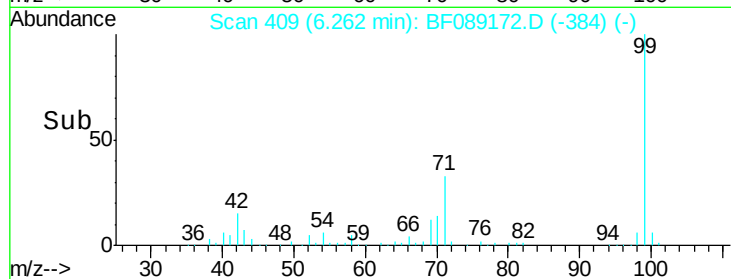
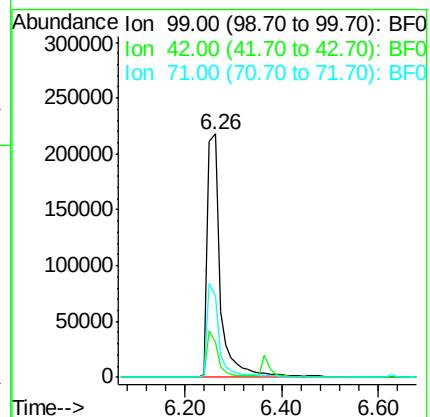
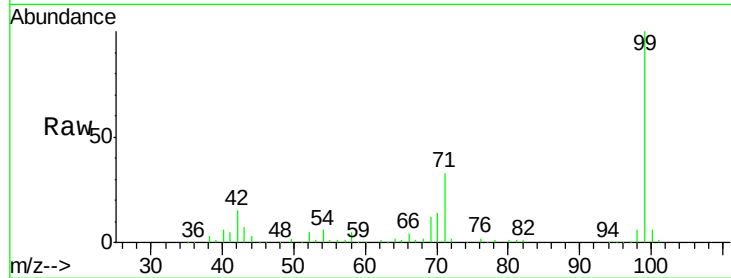
Tot Ion: 99 Resp: 408191

Ion Ratio Lower Upper

99 100

42 14.6 13.5 20.3

71 33.4 28.9 43.3



#19

n-Nitroso-di-n-propylamine

Concen: 11.60 ng

RT: 7.16 min Scan# 488

Delta R.T. 0.13 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

Tgt Ion: 70 Resp: 33593

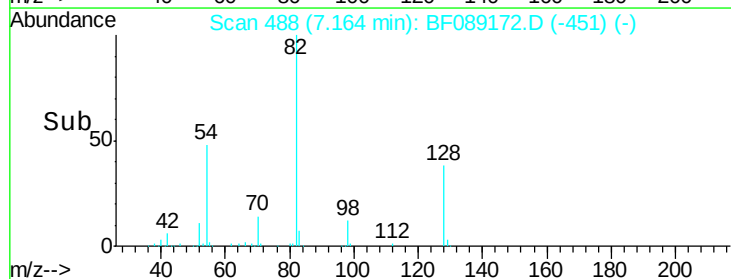
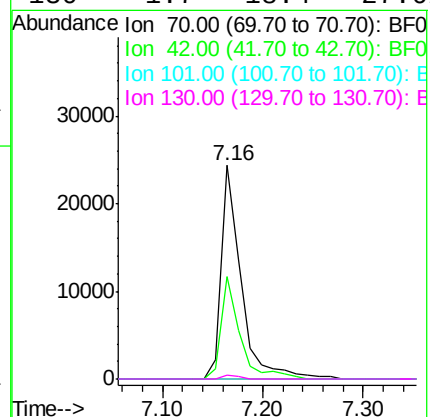
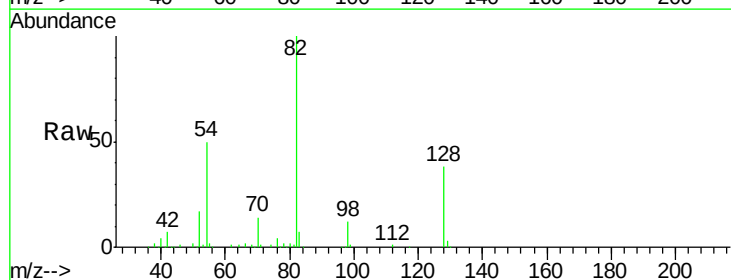
Ion Ratio Lower Upper

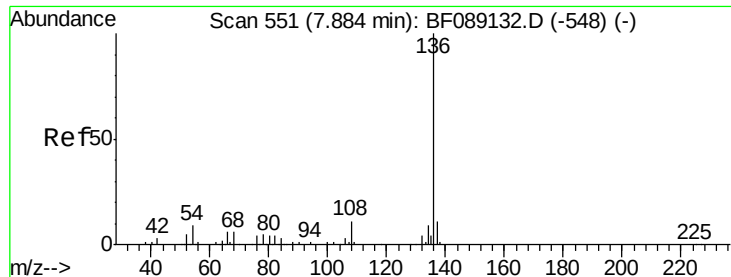
70 100

42 47.7 39.2 58.8

101 0.0 8.5 12.7#

130 1.7 18.4 27.6#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.88 min Scan# 551

Delta R.T. 0.00 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 221690

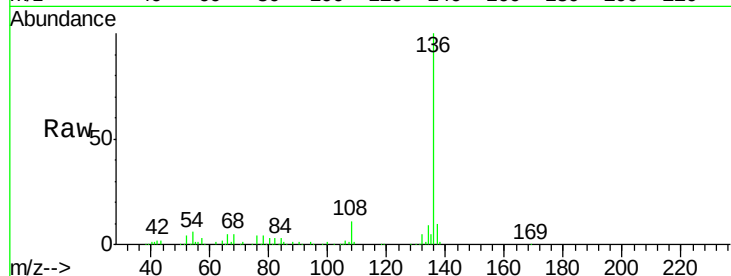
Ion Ratio Lower Upper

136 100

137 10.4 8.8 13.2

54 6.3 7.0 10.4#

68 4.9 5.0 7.6#

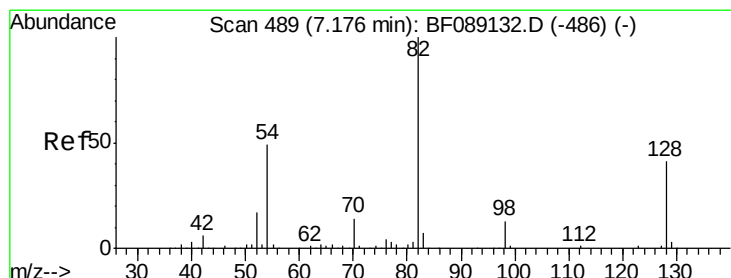
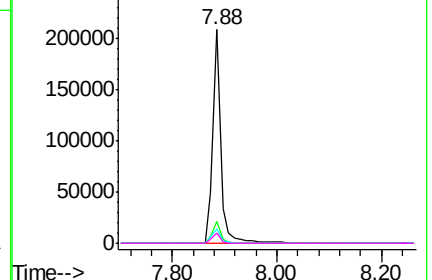
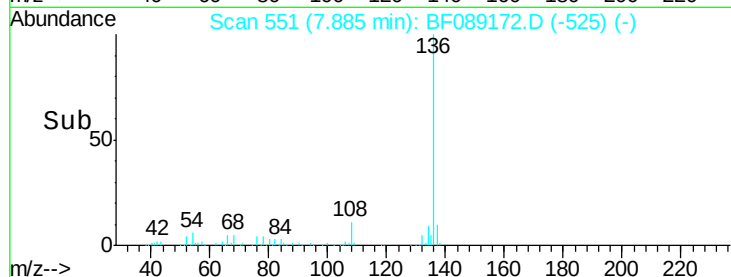


Abundance Ion 136.00 (135.70 to 136.70): E

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: 59.04 ng

RT: 7.16 min Scan# 488

Delta R.T. -0.01 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

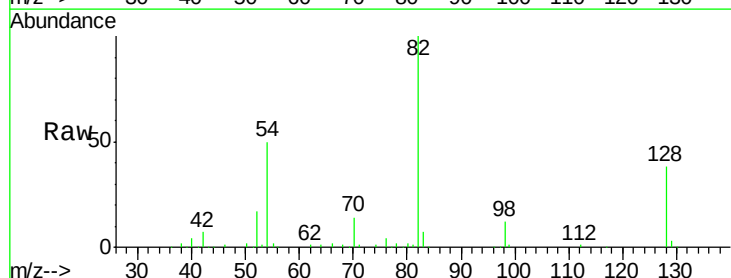
Tgt Ion: 82 Resp: 246347

Ion Ratio Lower Upper

82 100

128 38.0 33.0 49.6

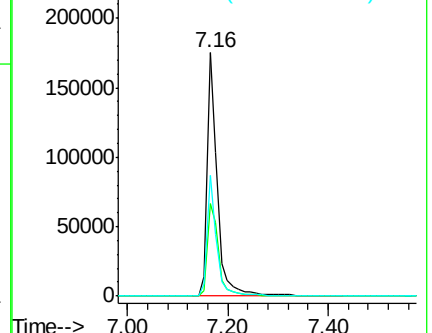
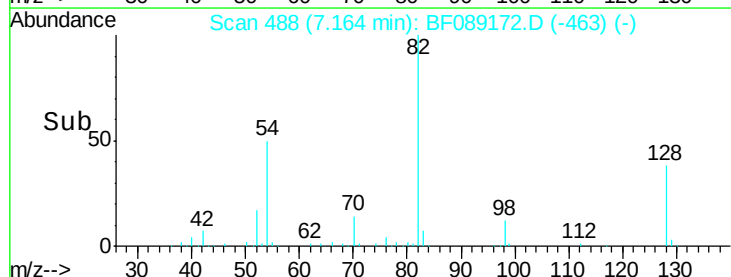
54 49.8 39.0 58.4

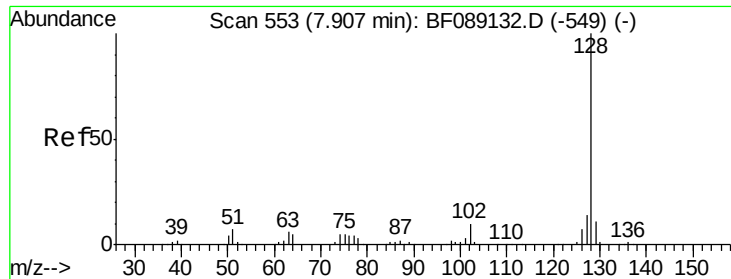


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 2.90 ng

RT: 7.91 min Scan# 553

Delta R.T. 0.00 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

Instrument :

BNA_F

ClientSampleId :

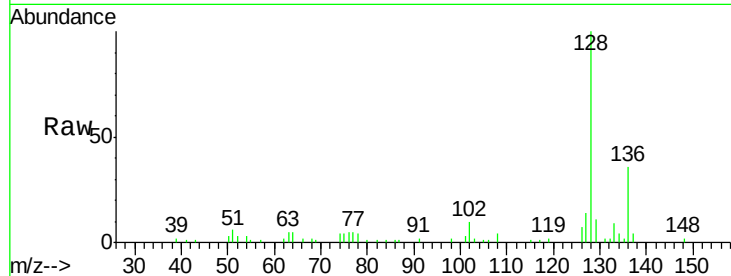
Tot Ion:128 Resp: 34729

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

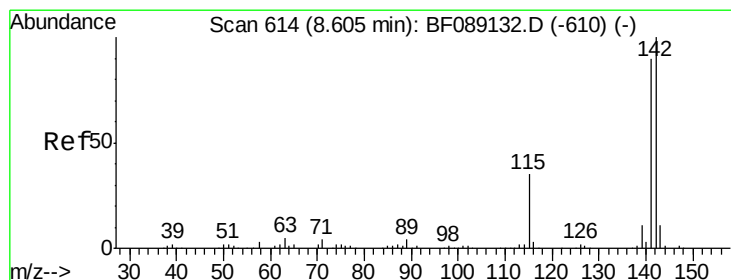
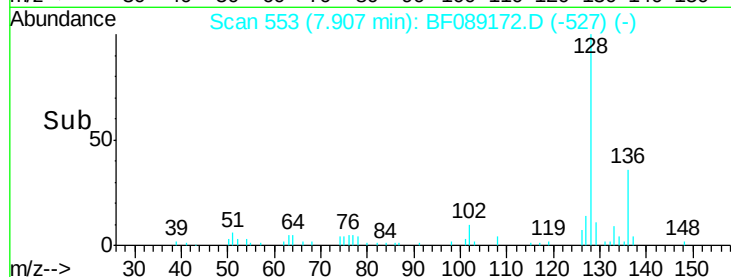
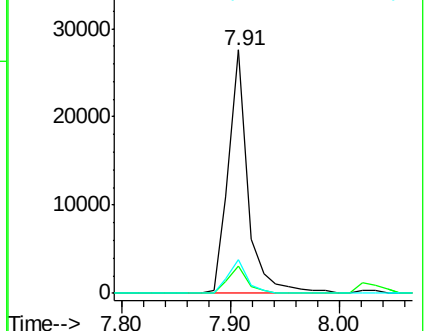
127 14.0 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 4.51 ng

RT: 8.59 min Scan# 613

Delta R.T. -0.01 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

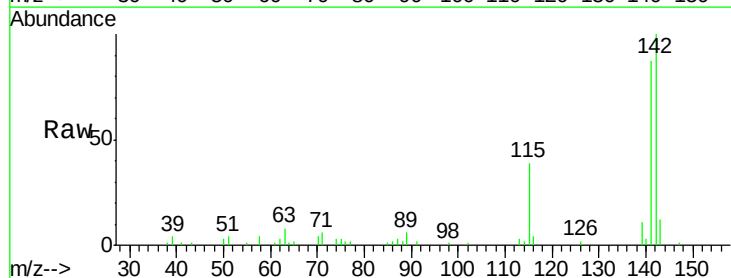
Tgt Ion:142 Resp: 34405

Ion Ratio Lower Upper

142 100

141 87.5 71.6 107.4

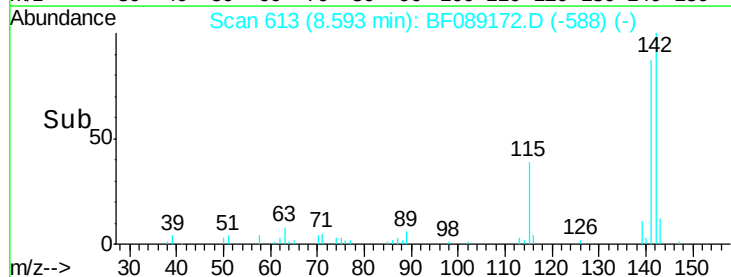
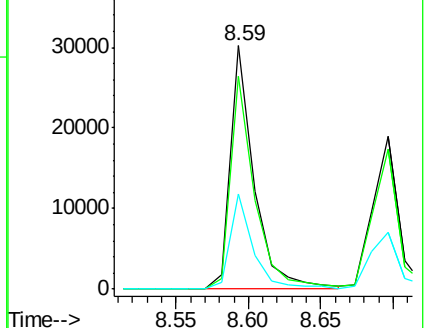
115 39.3 27.6 41.4

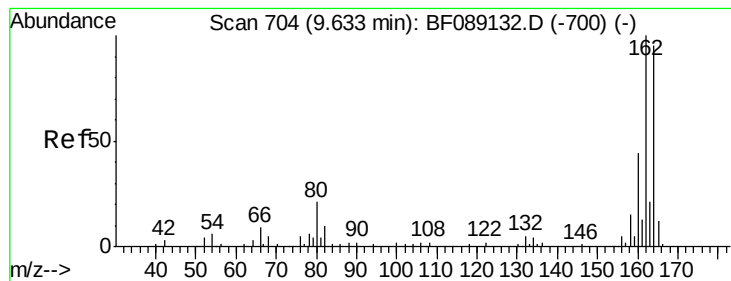


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.63 min Scan# 704

Delta R.T. 0.00 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

Instrument :

BNA_F

ClientSampleId :

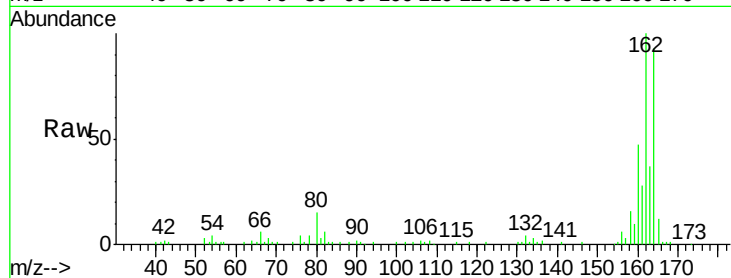
Tot Ion:164 Resp: 95707

Ion Ratio Lower Upper

164 100

162 107.2 84.1 126.1

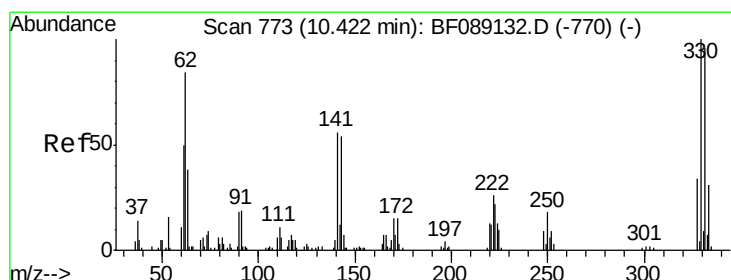
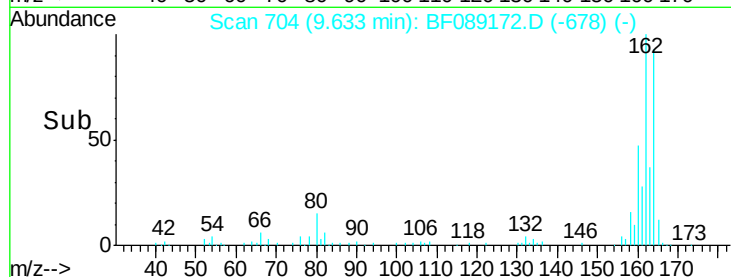
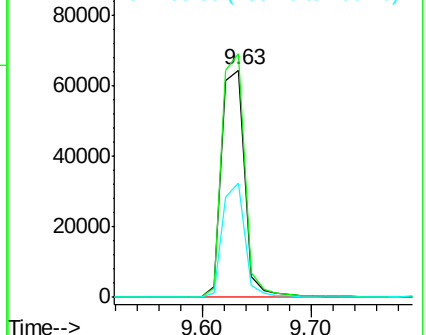
160 50.3 37.1 55.7



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: 66.33 ng

RT: 10.41 min Scan# 772

Delta R.T. -0.01 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

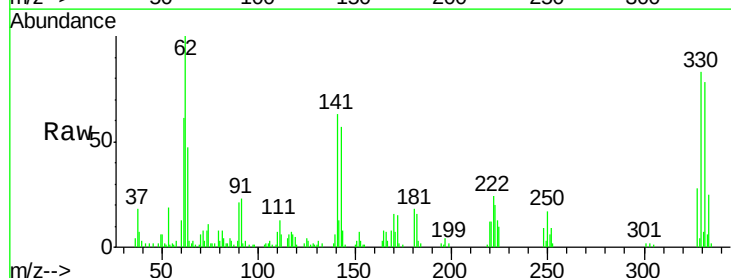
Tgt Ion:330 Resp: 57152

Ion Ratio Lower Upper

330 100

332 96.6 77.2 115.8

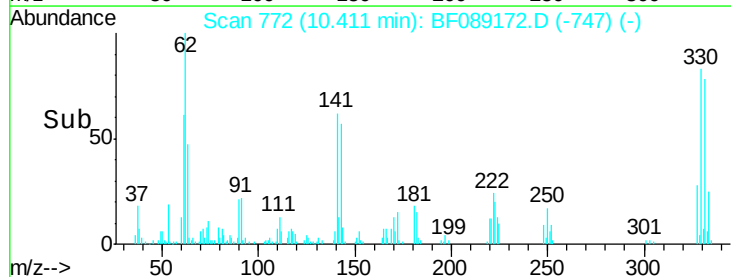
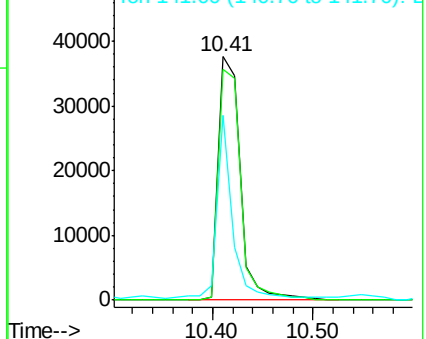
141 55.5 42.2 63.2

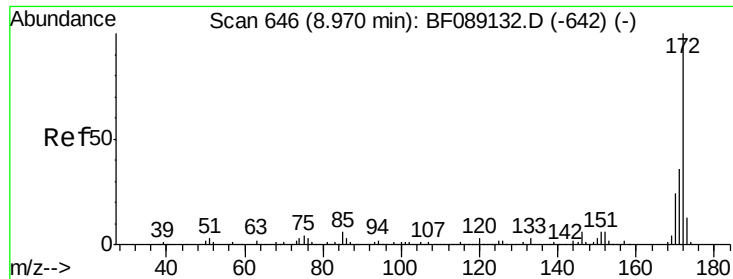


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

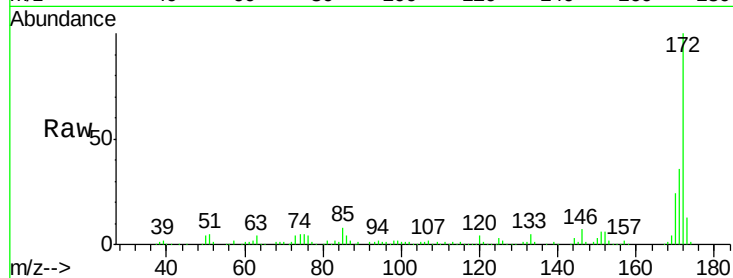




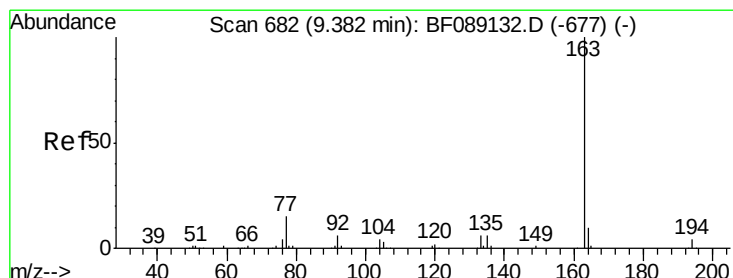
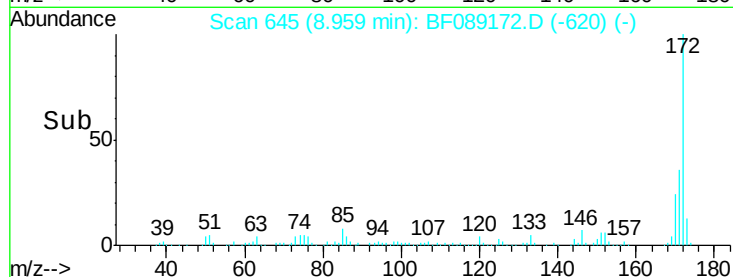
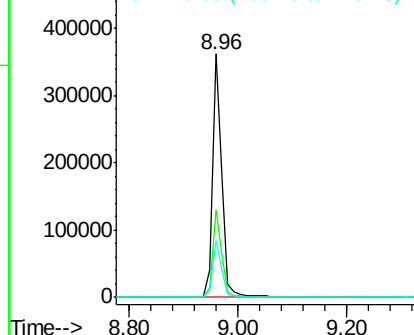
#44
2-Fluorobiphenyl
Concen: 60.83 ng
RT: 8.96 min Scan# 645
Delta R.T. -0.01 min
Lab File: BF089172.D
Acq: 21 Jul 2016 11:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 422522
Ion Ratio Lower Upper
172 100
171 35.8 29.2 43.8
170 23.5 19.1 28.7

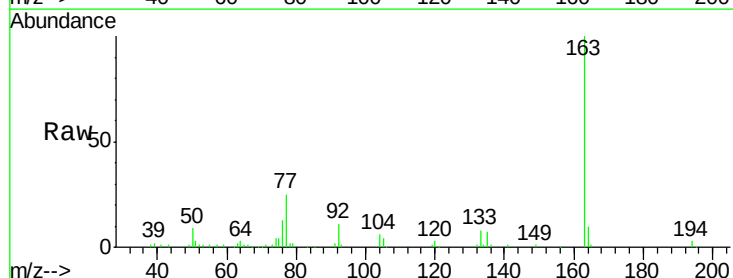


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

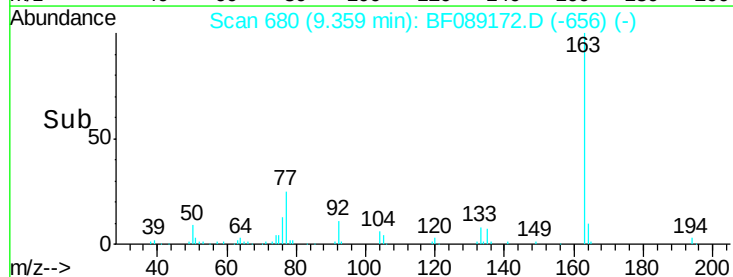
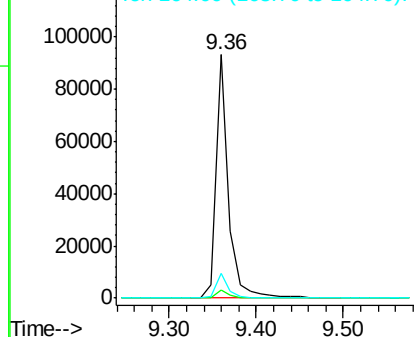


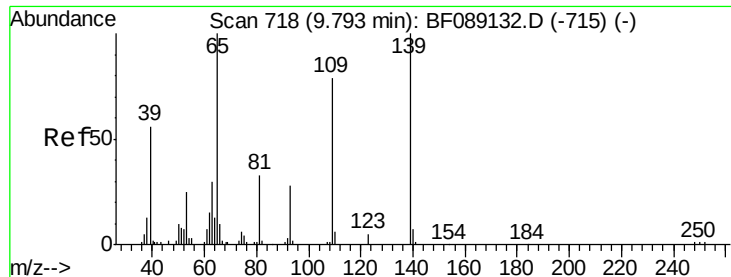
#49
Dimethylphthalate
Concen: 12.76 ng
RT: 9.36 min Scan# 680
Delta R.T. -0.02 min
Lab File: BF089172.D
Acq: 21 Jul 2016 11:14

Tgt Ion:163 Resp: 93688
Ion Ratio Lower Upper
163 100
194 3.2 2.9 4.3
164 10.3 7.6 11.4



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

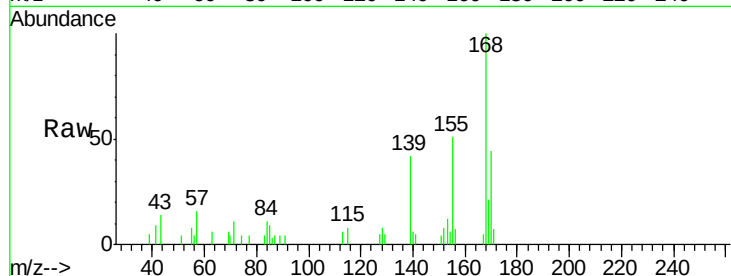




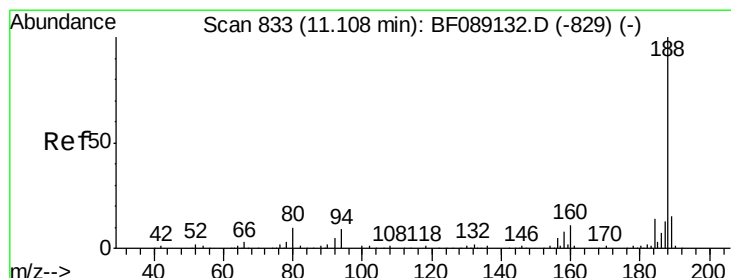
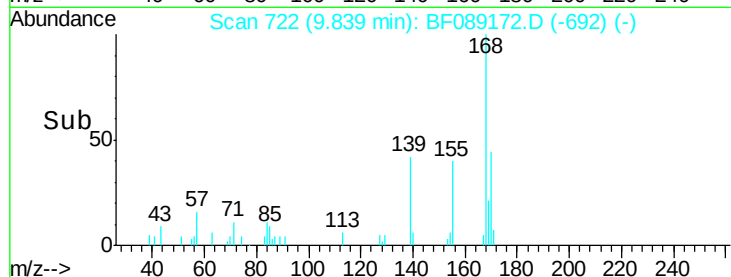
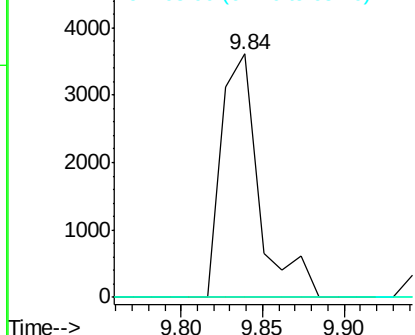
#55
4-Nitrophenol
Concen: 4.83 ng
RT: 9.84 min Scan# 722
Delta R.T. 0.05 min
Lab File: BF089172.D
Acq: 21 Jul 2016 11:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 5760
Ion Ratio Lower Upper
139 100
109 0.0 58.7 98.7#
65 0.0 80.2 120.2#

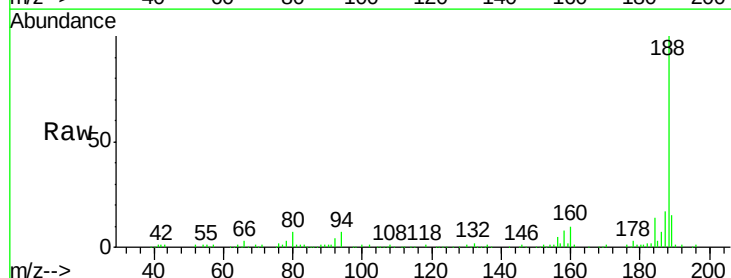


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

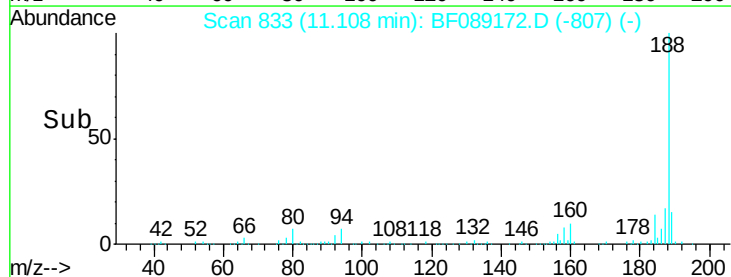
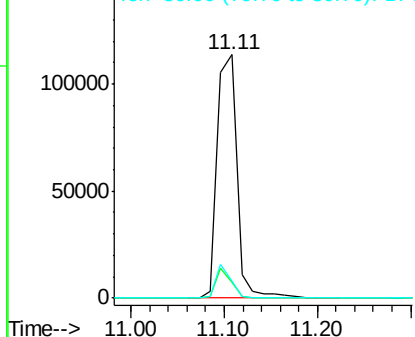


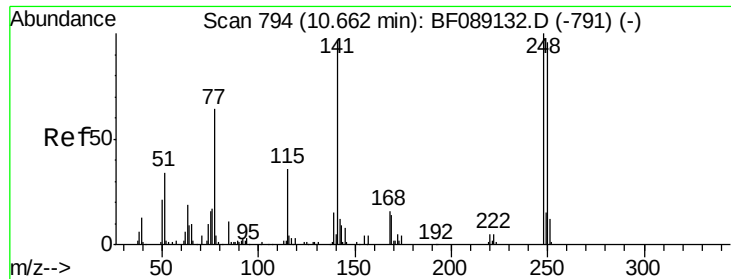
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.11 min Scan# 833
Delta R.T. 0.00 min
Lab File: BF089172.D
Acq: 21 Jul 2016 11:14

Tgt Ion:188 Resp: 167008
Ion Ratio Lower Upper
188 100
94 6.7 7.0 10.4#
80 7.1 7.7 11.5#



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: 2.62 ng

RT: 10.41 min Scan# 772

Delta R.T. -0.25 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

Instrument :

BNA_F

ClientSampleId :

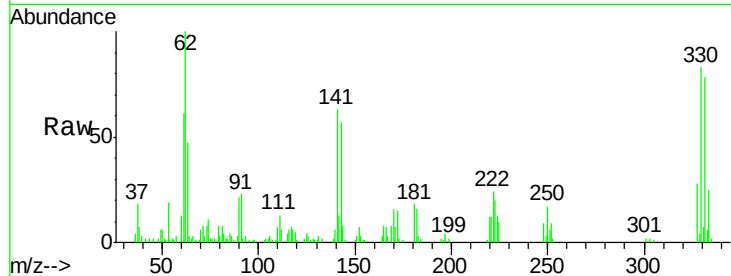
Tot Ion:248 Resp: 4328

Ion Ratio Lower Upper

248 100

250 193.5 76.9 115.3#

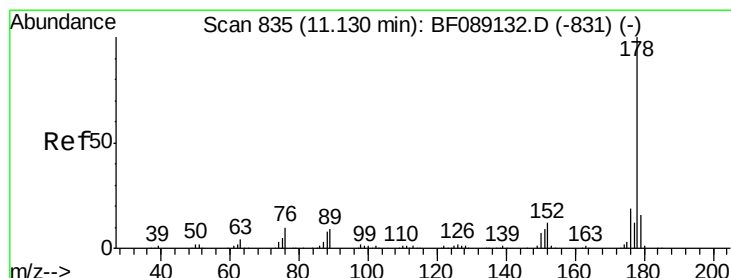
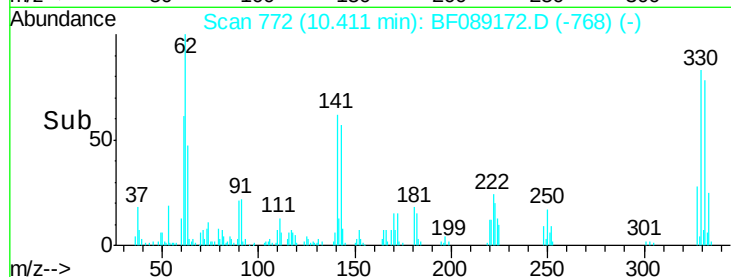
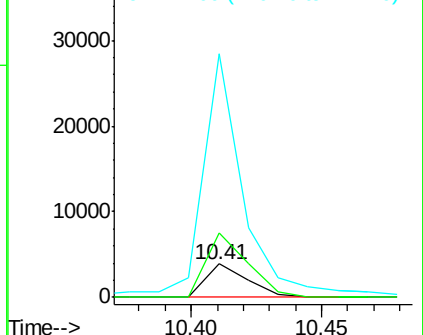
141 726.1 77.4 116.2#



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: 17.12 ng

RT: 11.13 min Scan# 835

Delta R.T. 0.00 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

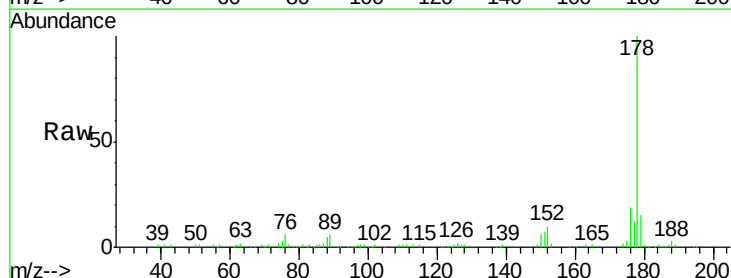
Tgt Ion:178 Resp: 156879

Ion Ratio Lower Upper

178 100

176 18.7 15.6 23.4

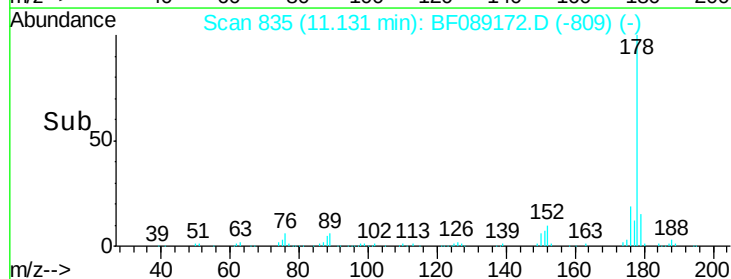
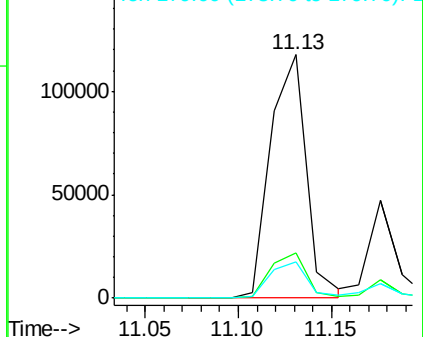
179 15.0 12.4 18.6

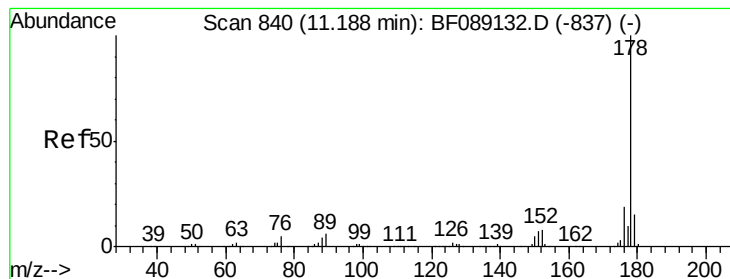


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 5.40 ng

RT: 11.18 min Scan# 839

Delta R.T. -0.01 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

Instrument :

BNA_F

ClientSampleId :

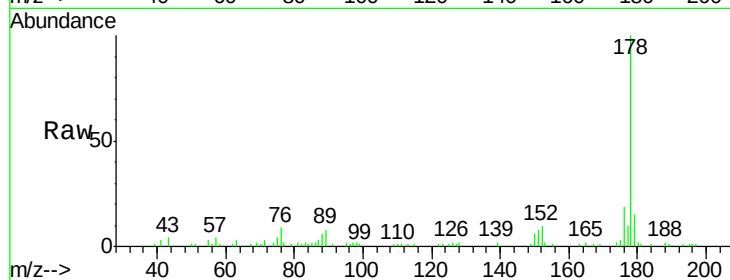
Tot Ion:178 Resp: 51393

Ion Ratio Lower Upper

178 100

176 18.7 14.9 22.3

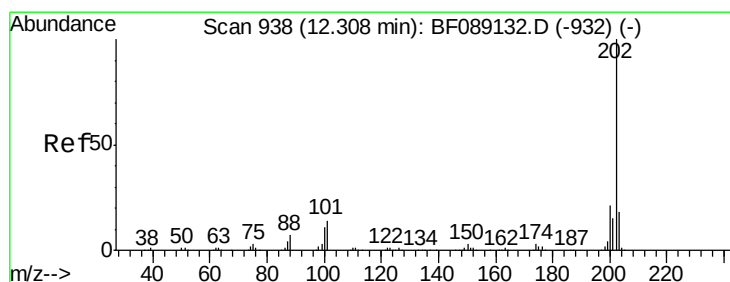
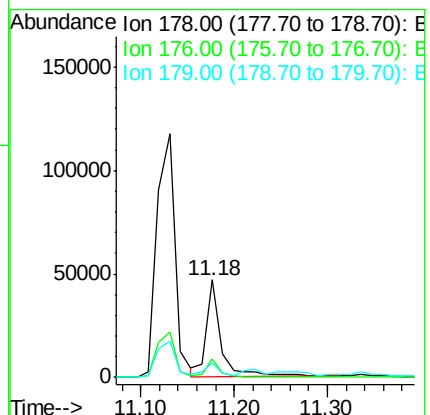
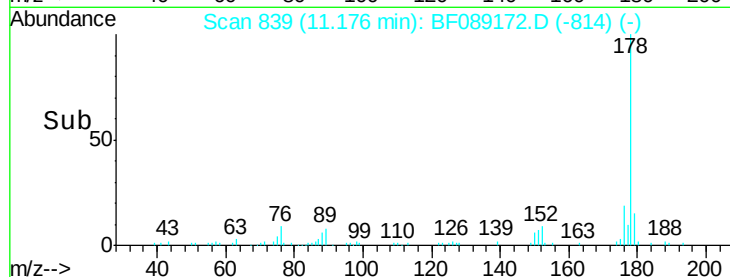
179 15.5 12.0 18.0



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: 24.41 ng

RT: 12.31 min Scan# 938

Delta R.T. 0.00 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

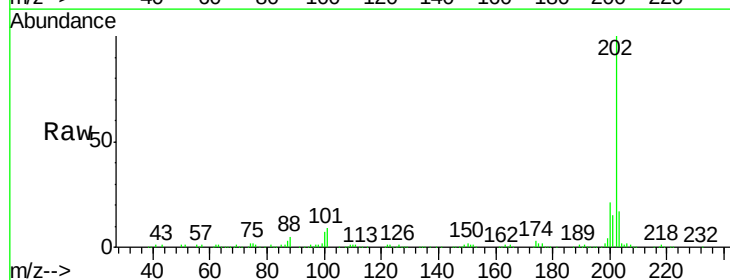
Tgt Ion:202 Resp: 235033

Ion Ratio Lower Upper

202 100

101 8.9 0.0 34.0

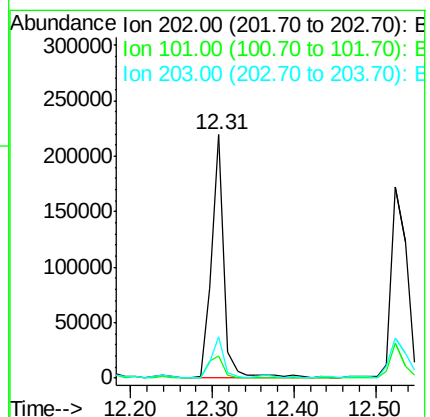
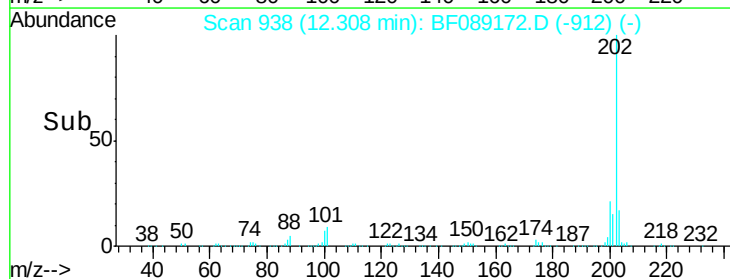
203 17.2 0.0 37.8

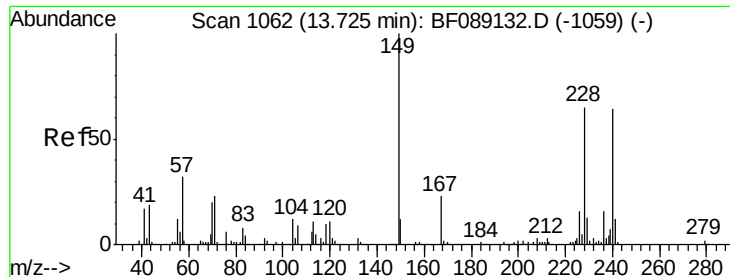


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.73 min Scan# 1062

Delta R.T. 0.00 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

Instrument :

BNA_F

ClientSampleId :

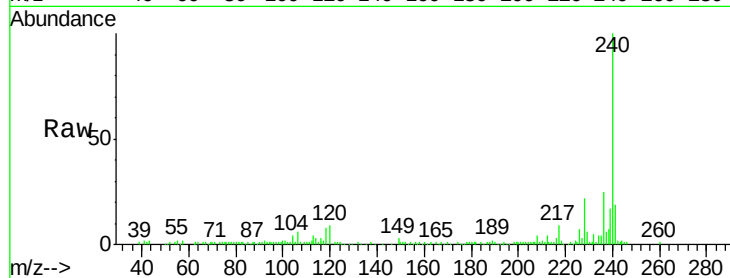
Tot Ion:240 Resp: 107464

Ion Ratio Lower Upper

240 100

120 8.9 13.6 20.4#

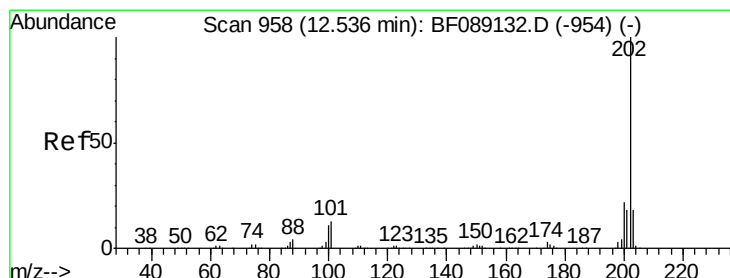
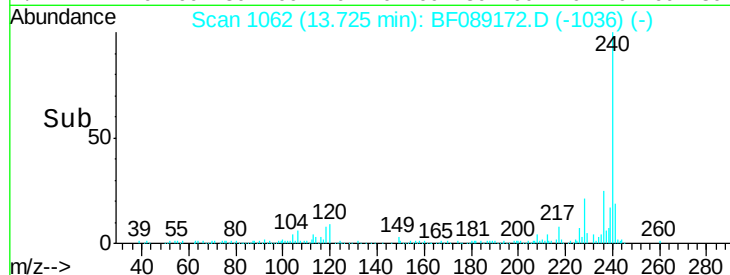
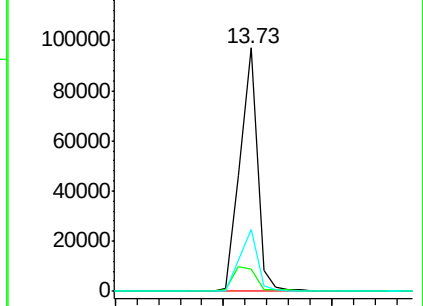
236 25.4 20.5 30.7



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: 25.95 ng

RT: 12.53 min Scan# 957

Delta R.T. -0.01 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

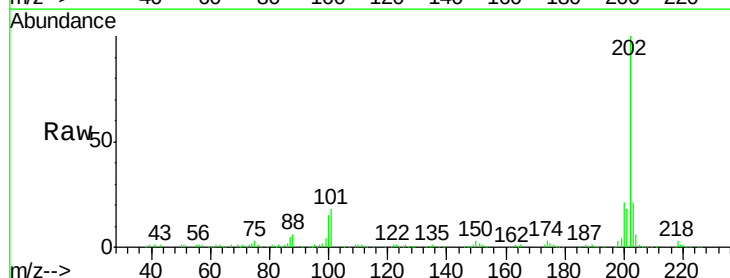
Tgt Ion:202 Resp: 230303

Ion Ratio Lower Upper

202 100

200 21.4 17.4 26.0

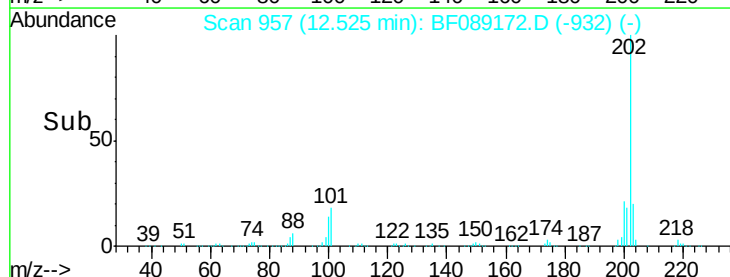
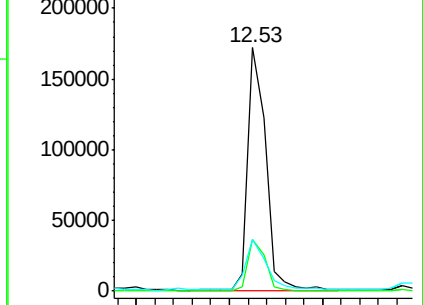
203 21.1 14.2 21.2

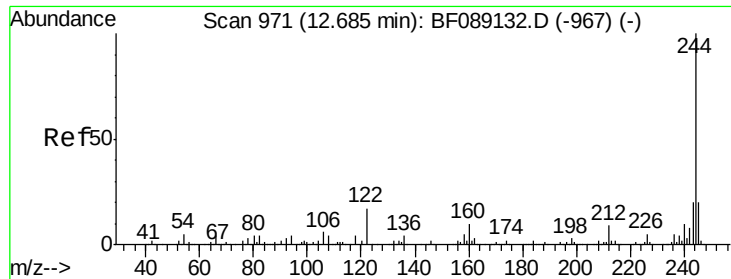


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 61.96 ng

RT: 12.69 min Scan# 971

Delta R.T. 0.00 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

Instrument :

BNA_F

ClientSampleId :

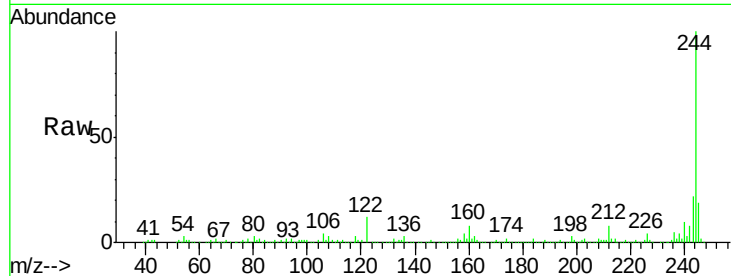
Tot Ion:244 Resp: 306971

Ion Ratio Lower Upper

244 100

212 7.8 7.0 10.4

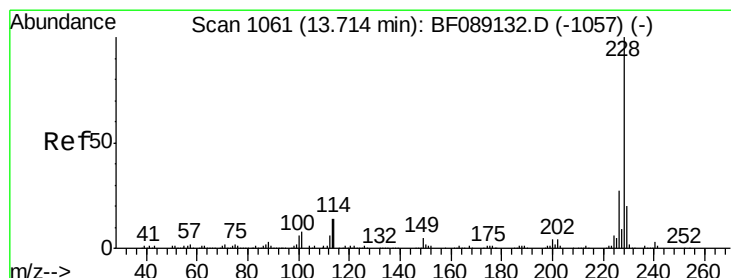
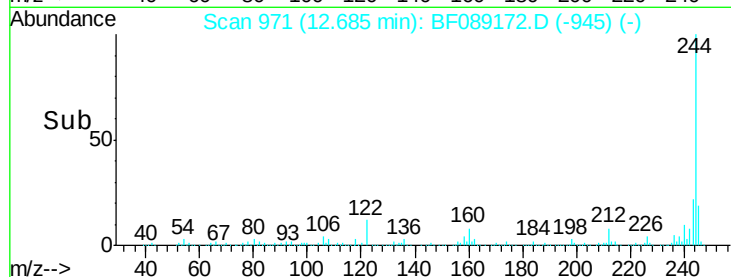
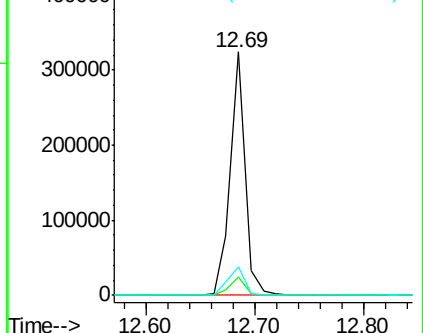
122 12.0 13.8 20.8#



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: 18.60 ng

RT: 13.71 min Scan# 1061

Delta R.T. 0.00 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

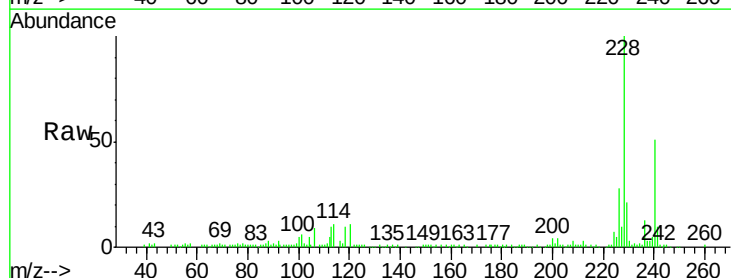
Tgt Ion:228 Resp: 127321

Ion Ratio Lower Upper

228 100

226 27.6 21.8 32.8

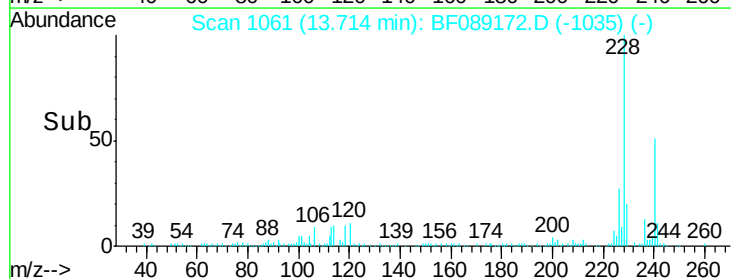
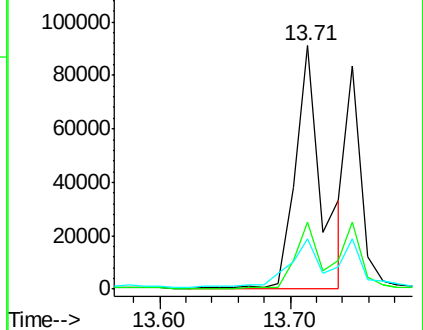
229 20.5 15.8 23.8

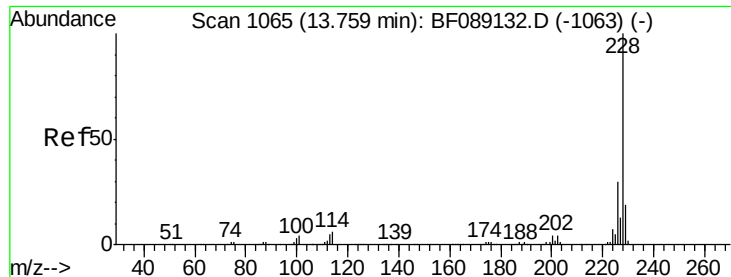


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 19.47 ng

RT: 13.71 min Scan# 1061

Delta R.T. -0.05 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

Instrument :

BNA_F

ClientSampleId :

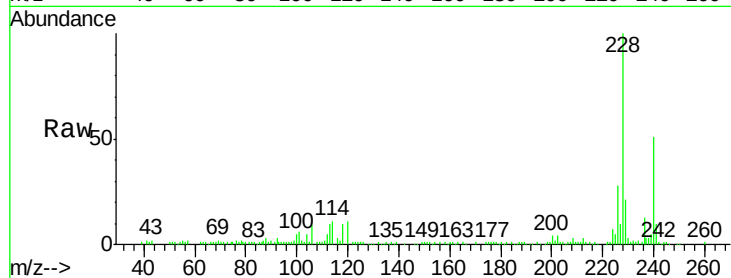
Tot Ion:228 Resp: 127321

Ion Ratio Lower Upper

228 100

226 27.6 23.8 35.8

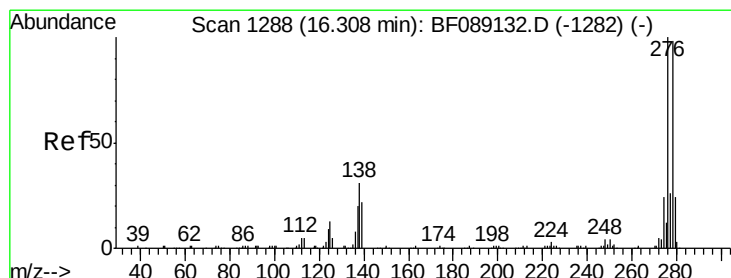
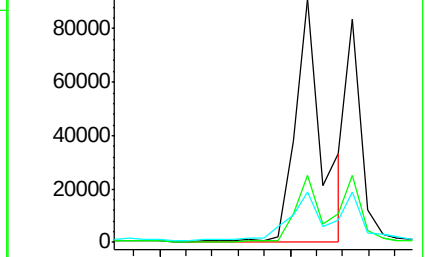
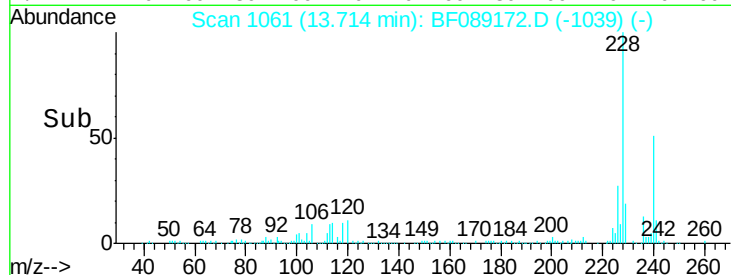
229 20.5 15.4 23.0



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 8.64 ng

RT: 16.30 min Scan# 1287

Delta R.T. -0.01 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

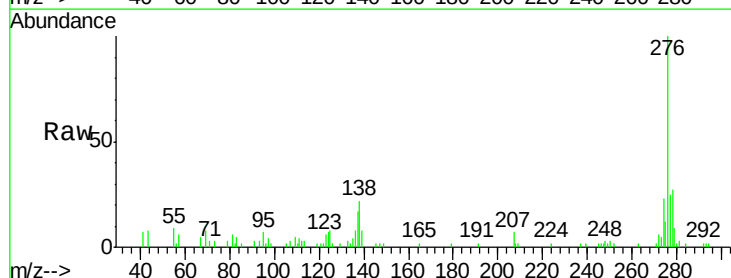
Tgt Ion:276 Resp: 41038

Ion Ratio Lower Upper

276 100

138 21.8 23.7 35.5#

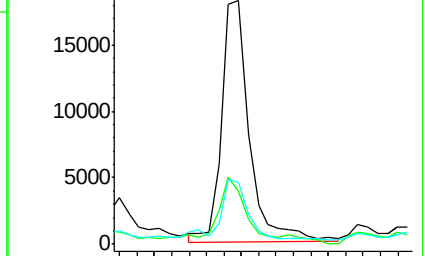
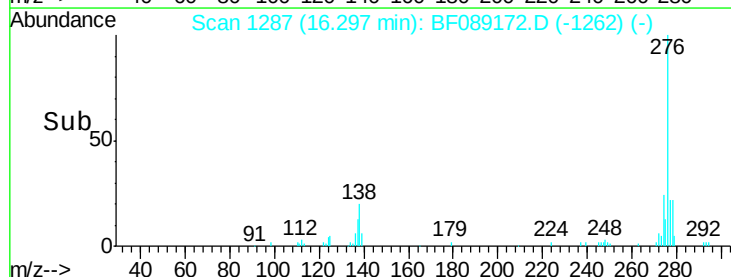
277 23.6 20.6 31.0

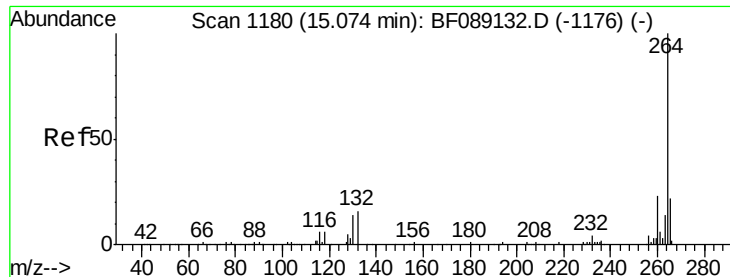


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



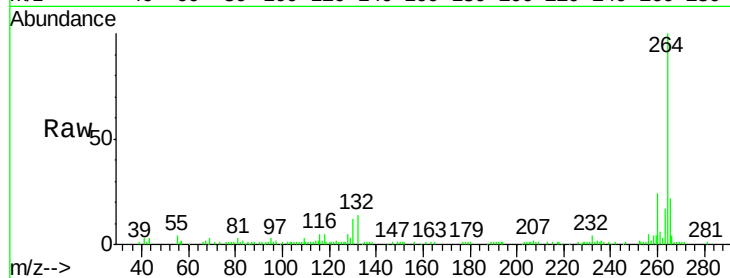


#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.07 min Scan# 1180
Delta R.T. 0.00 min
Lab File: BF089172.D
Acq: 21 Jul 2016 11:14

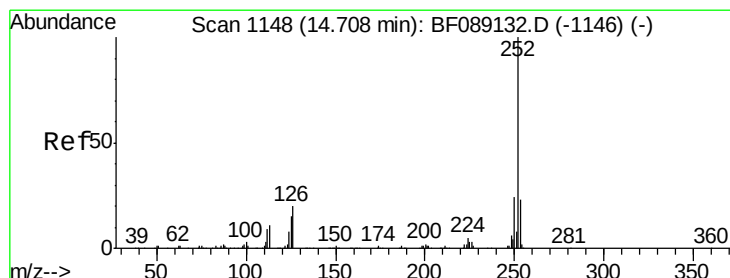
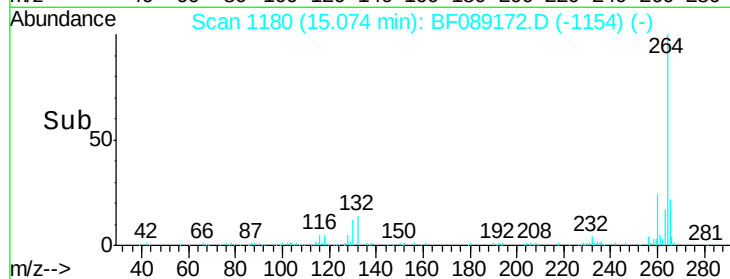
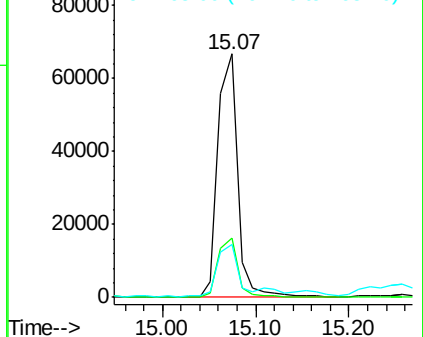
Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 98823

Ion	Ratio	Lower	Upper
264	100		
260	24.4	18.5	27.7
265	21.9	17.3	25.9



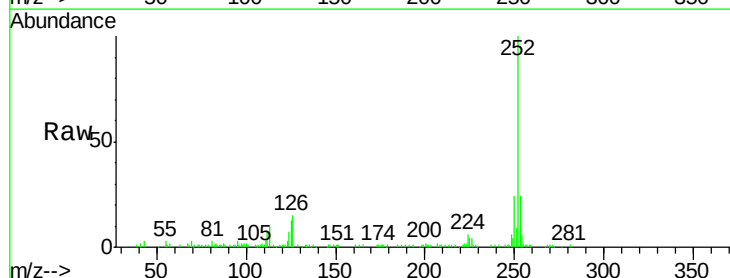
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



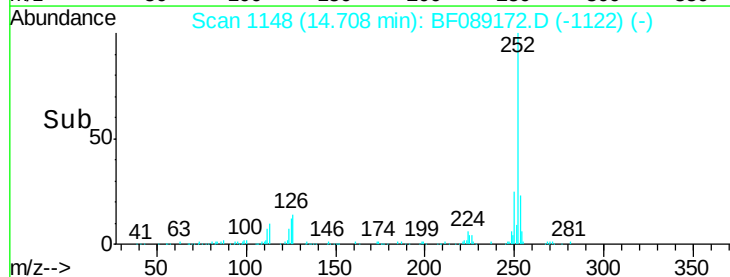
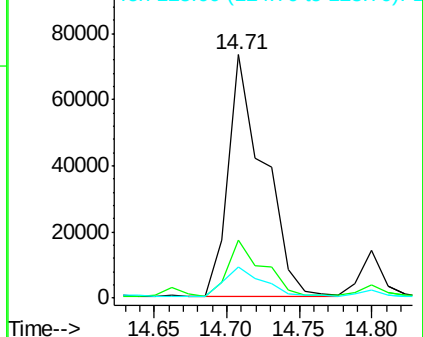
#87
Benzo(b)fluoranthene
Concen: 17.36 ng
RT: 14.71 min Scan# 1148
Delta R.T. 0.00 min
Lab File: BF089172.D
Acq: 21 Jul 2016 11:14

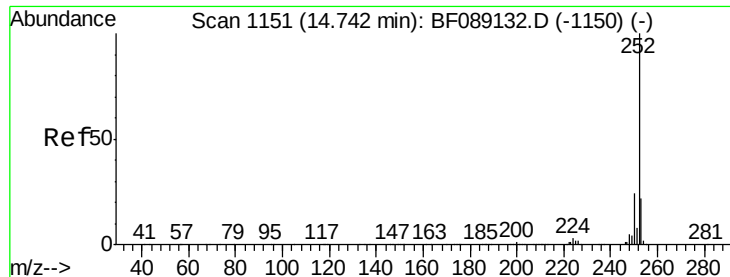
Tgt Ion:252 Resp: 124238

Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.2
125	13.0	11.9	17.9



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

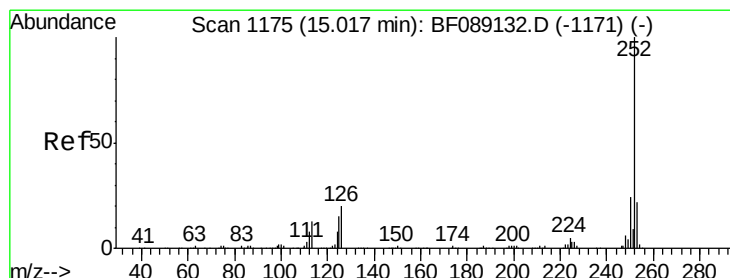
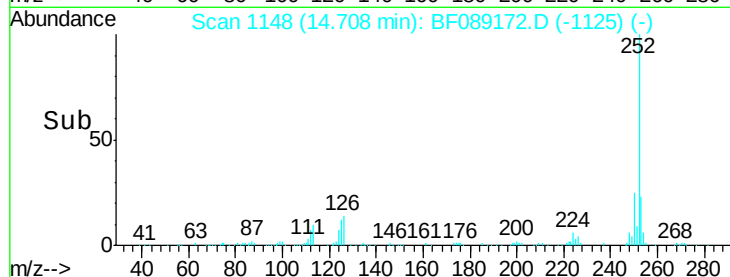
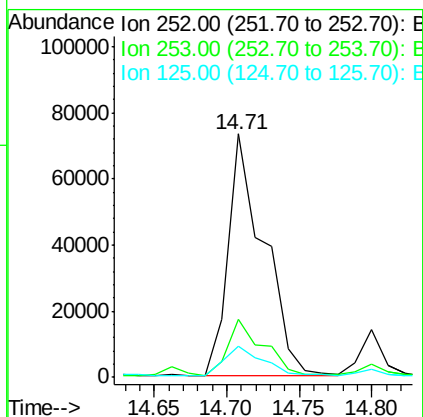
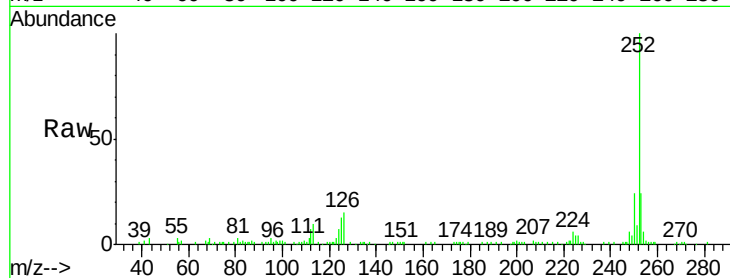




#88
Benzo(k)fluoranthene
Concen: 24.25 ng
RT: 14.71 min Scan# 1148
Delta R.T. -0.03 min
Lab File: BF089172.D
Acq: 21 Jul 2016 11:14

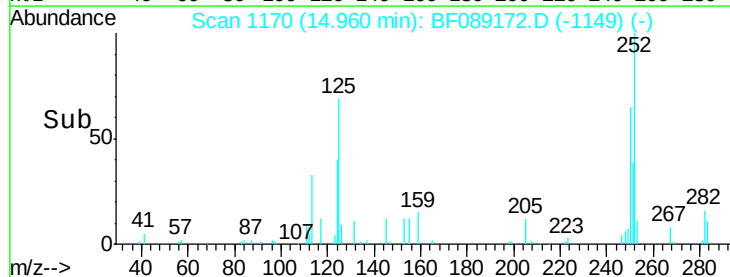
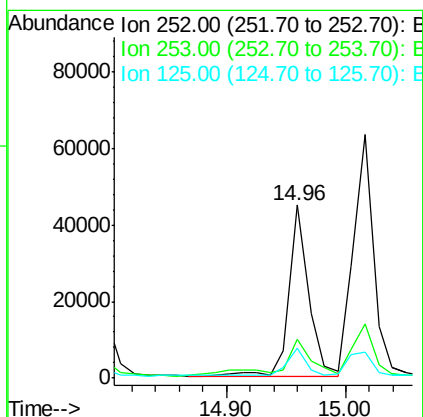
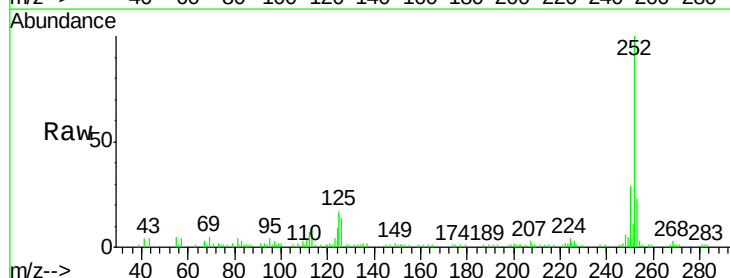
Instrument :
BNA_F
ClientSampled :

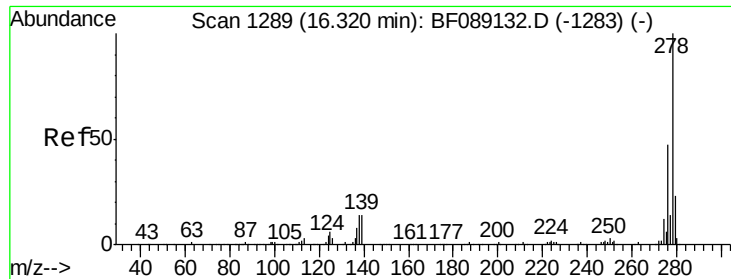
Tot Ion:252 Resp: 124145
Ion Ratio Lower Upper
252 100
253 23.6 17.3 25.9
125 13.0 6.3 9.5#



#89
Benzo(a)pyrene
Concen: 9.22 ng
RT: 14.96 min Scan# 1170
Delta R.T. -0.06 min
Lab File: BF089172.D
Acq: 21 Jul 2016 11:14

Tgt Ion:252 Resp: 51237
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.0
125 17.4 12.4 18.6





#90

Dibenzo(a,h)anthracene

Concen: 3.12 ng

RT: 16.30 min Scan# 1287

Delta R.T. -0.02 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

Instrument :

BNA_F

ClientSampleId :

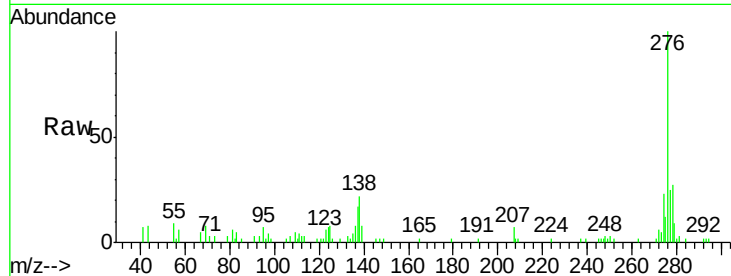
Tot Ion:278 Resp: 13684

Ion Ratio Lower Upper

278 100

139 28.2 11.4 17.2#

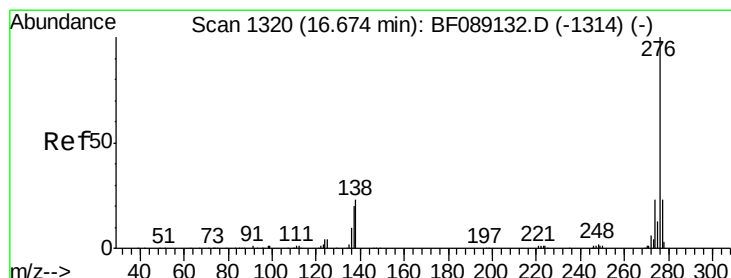
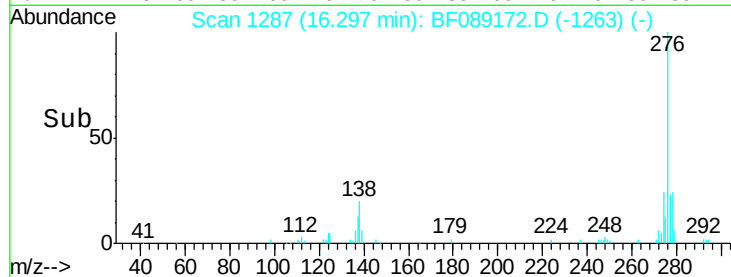
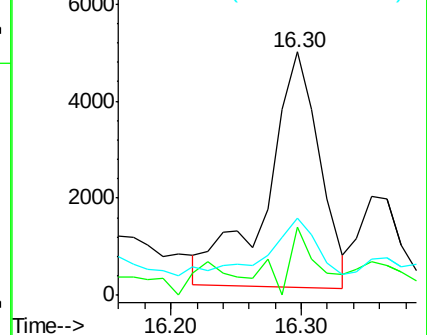
279 31.5 18.4 27.6#



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: 8.61 ng

RT: 16.65 min Scan# 1318

Delta R.T. -0.02 min

Lab File: BF089172.D

Acq: 21 Jul 2016 11:14

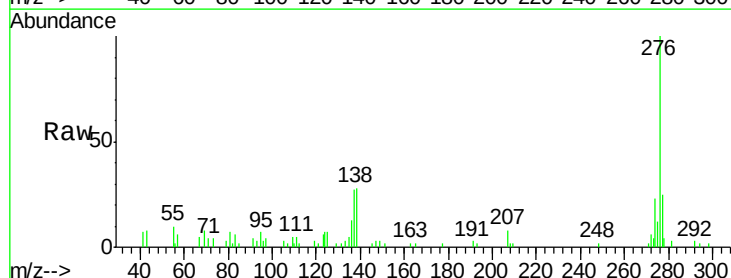
Tgt Ion:276 Resp: 38067

Ion Ratio Lower Upper

276 100

277 25.5 18.5 27.7

138 27.8 18.5 27.7#



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

