

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082416\
 Data File : BF089875.D
 Acq On : 24 Aug 2016 15:35
 Operator : UM/SJ
 Sample : H4551-08
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 24 18:42:41 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 16 19:45:04 2016
 Response via : Initial Calibration

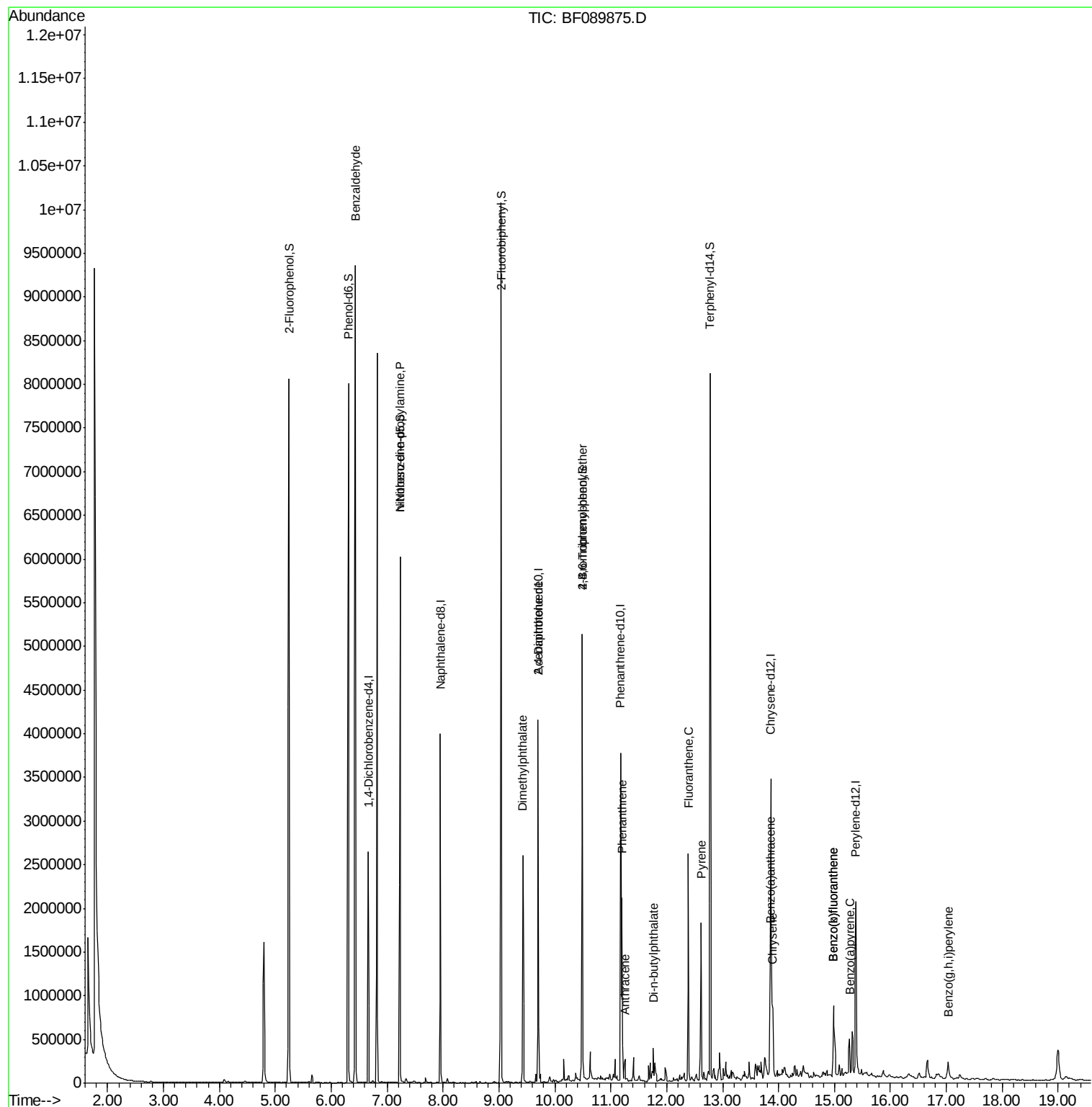
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	426783	20.00	ng	-0.03
21) Naphthalene-d8	7.95	136	1768061	20.00	ng	-0.03
38) Acenaphthene-d10	9.70	164	794676	20.00	ng	-0.03
63) Phenanthrene-d10	11.18	188	1351991	20.00	ng	-0.03
75) Chrysene-d12	13.86	240	1140943	20.00	ng	-0.03
86) Perylene-d12	15.38	264	959022	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	2732735	106.84	ng	-0.03
7) Phenol-d6	6.31	99	3673879	112.92	ng	-0.02
23) Nitrobenzene-d5	7.23	82	2078578	71.79	ng	-0.03
41) 2,4,6-Tribromophenol	10.49	330	743393	96.70	ng	-0.03
44) 2-Fluorobiphenyl	9.04	172	3880484	78.35	ng	-0.03
78) Terphenyl-d14	12.78	244	2765975	72.42	ng	-0.03
Target Compounds						Qvalue
9) Benzaldehyde	6.43	77	65410	3.03	ng	88
19) n-Nitroso-di-n-propylamine	7.23	70	282653	13.27	ng	# 73
49) Dimethylphthalate	9.43	163	1144567	19.91	ng	99
56) 2,4-Dinitrotoluene	9.70	165	103579	6.19	ng	# 35
66) 4-Bromophenyl-phenylether	10.49	248	47233	3.37	ng	# 1
70) Phenanthrene	11.20	178	755972	11.38	ng	99
71) Anthracene	11.26	178	140512	2.02	ng	97
73) Di-n-butylphthalate	11.76	149	172182	2.15	ng	98
74) Fluoranthene	12.39	202	1133249	16.97	ng	98
77) Pyrene	12.62	202	950402	12.73	ng	98
80) Benzo(a)anthracene	13.85	228	485001	7.32	ng	99
82) Chrysene	13.90	228	406608	6.82	ng	97
87) Benzo(b)fluoranthene	14.98	252	615703	10.13	ng	98
88) Benzo(k)fluoranthene	14.98	252	615703	12.31	ng	98
89) Benzo(a)pyrene	15.27	252	214459	4.27	ng	97
91) Benzo(g,h,i)perylene	17.04	276	155346	3.86	ng	94

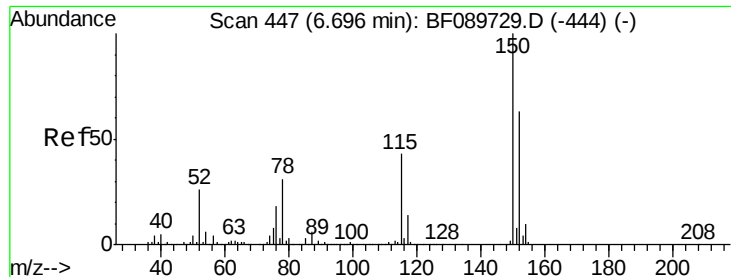
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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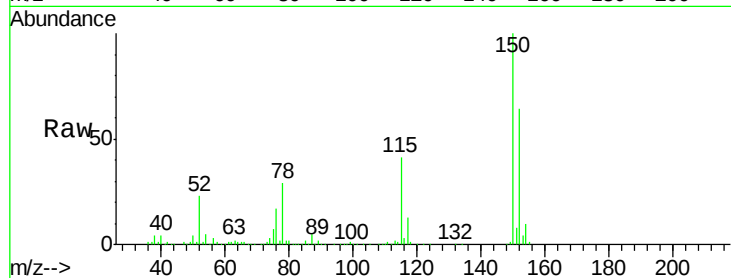


#1

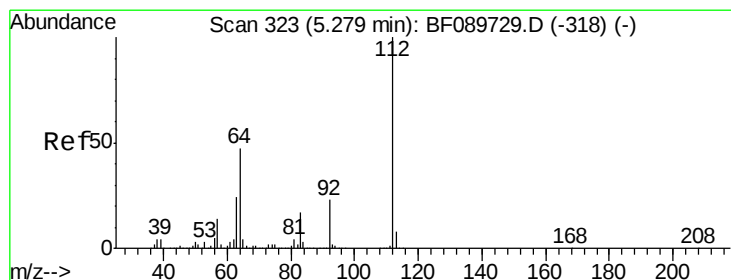
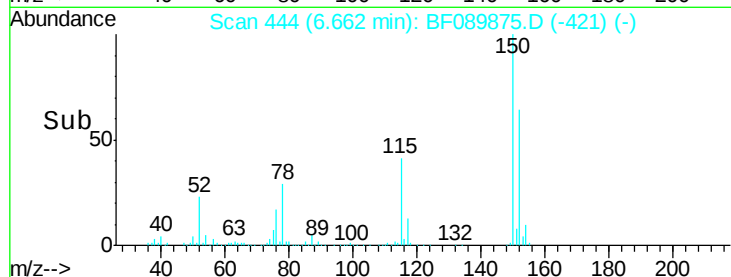
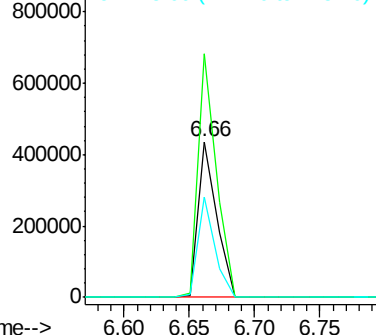
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.66 min Scan# 444
Delta R.T. -0.03 min
Lab File: BF089875.D
Acq: 24 Aug 2016 15:35

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 426783
Ion Ratio Lower Upper
152 100
150 156.8 125.3 187.9
115 64.7 40.9 61.3#



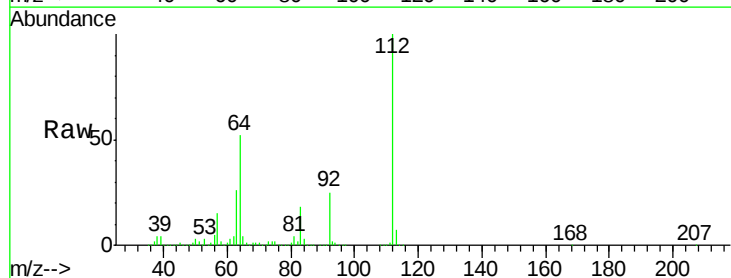
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



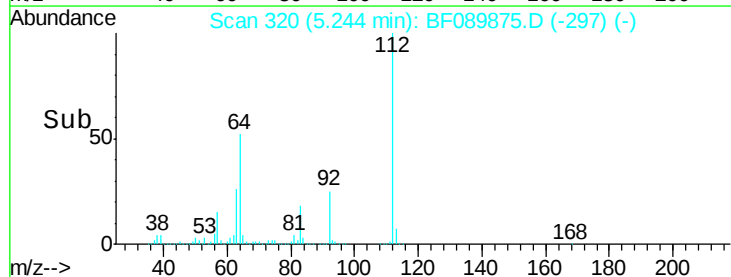
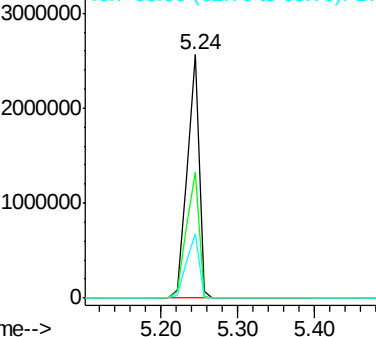
#5

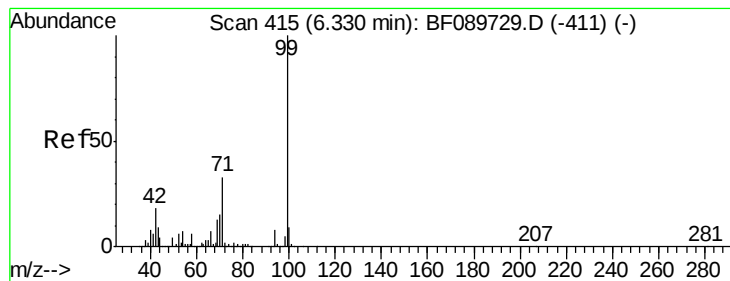
2-Fluorophenol
Concen: 106.84 ng
RT: 5.24 min Scan# 320
Delta R.T. -0.03 min
Lab File: BF089875.D
Acq: 24 Aug 2016 15:35

Tgt Ion:112 Resp: 2732735
Ion Ratio Lower Upper
112 100
64 51.5 45.0 67.4
63 26.4 23.1 34.7



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: 112.92 ng

RT: 6.31 min Scan# 413

Delta R.T. -0.02 min

Lab File: BF089875.D

Acq: 24 Aug 2016 15:35

Instrument :

BNA_F

ClientSampleId :

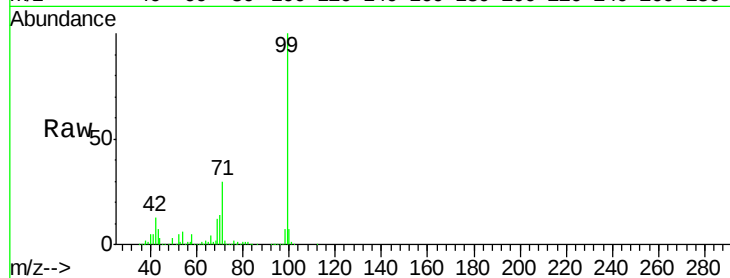
Tot Ion: 99 Resp: 3673879

Ion Ratio Lower Upper

99 100

42 13.5 12.2 18.4

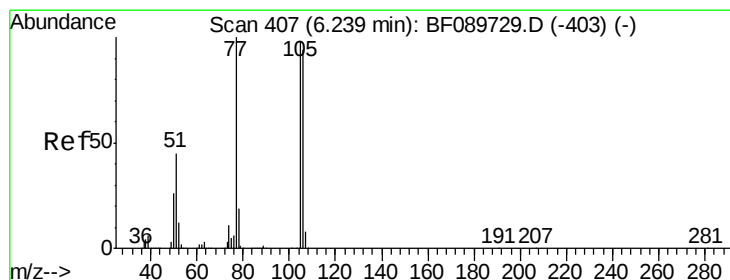
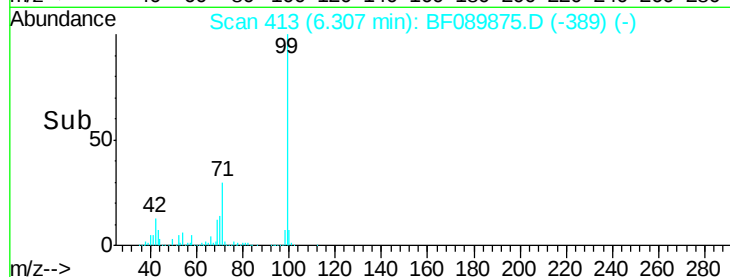
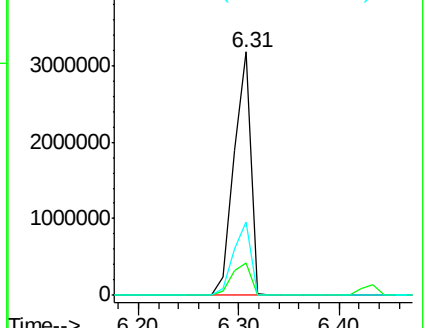
71 30.3 23.8 35.8



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



#9

Benzaldehyde

Concen: 3.03 ng

RT: 6.43 min Scan# 424

Delta R.T. 0.19 min

Lab File: BF089875.D

Acq: 24 Aug 2016 15:35

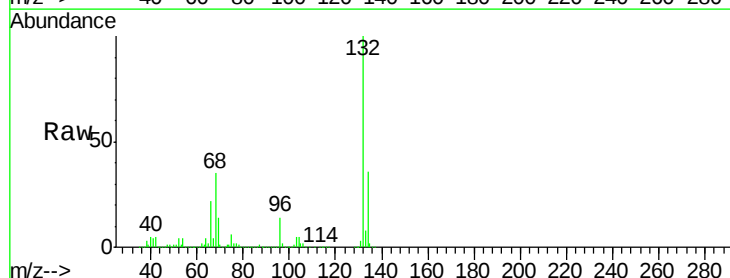
Tgt Ion: 77 Resp: 65410

Ion Ratio Lower Upper

77 100

105 87.0 73.3 113.3

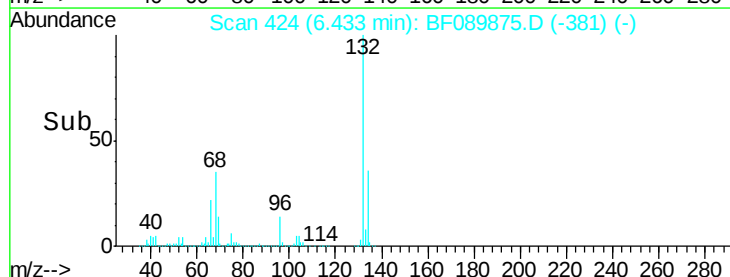
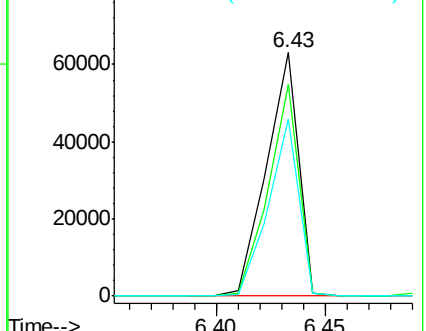
106 72.5 68.6 108.6

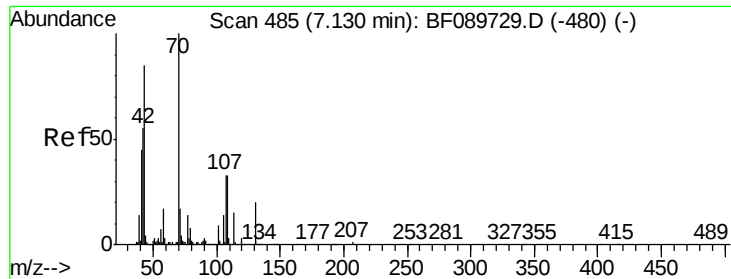


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

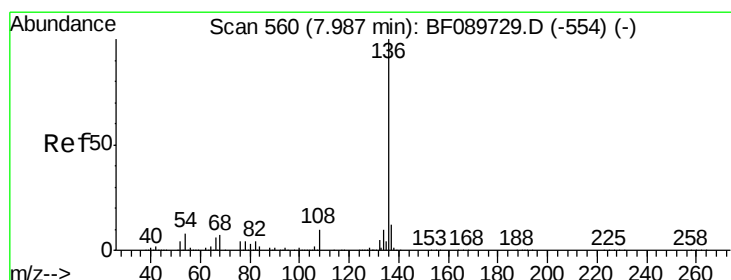
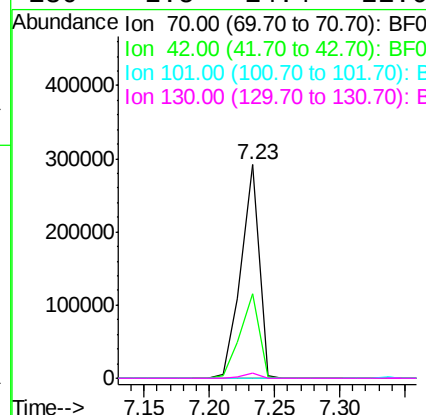
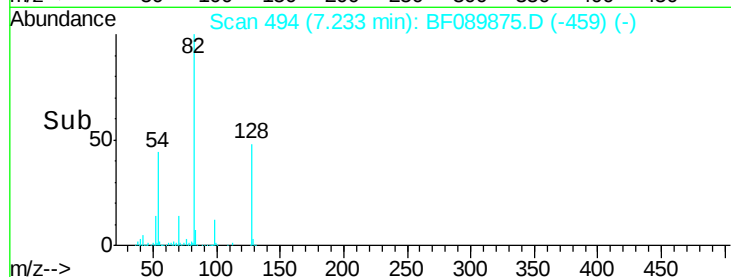
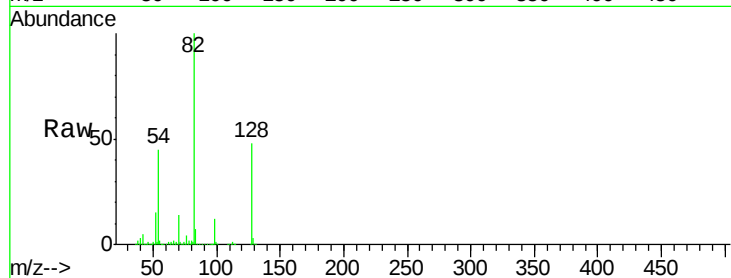




#19
n-Nitroso-di-n-propylamine
Concen: 13.27 ng
RT: 7.23 min Scan# 494
Delta R.T. 0.10 min
Lab File: BF089875.D
Acq: 24 Aug 2016 15:35

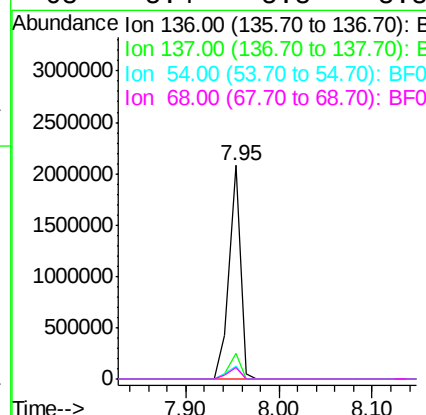
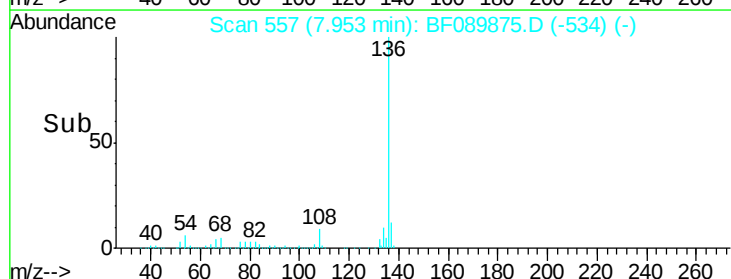
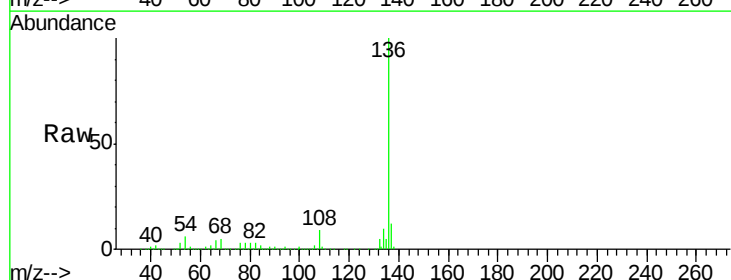
Instrument :
BNA_F
ClientSampleId :

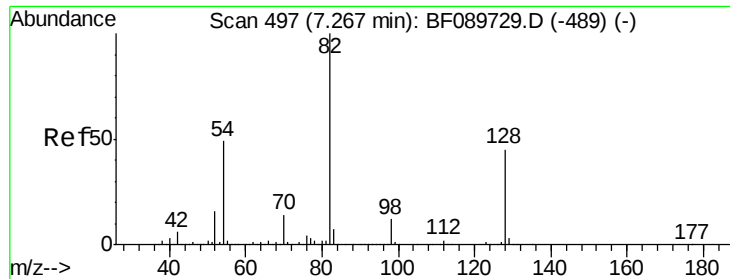
Tot Ion	Ratio	Lower	Upper
70	100		
42	39.4	46.3	69.5#
101	0.0	7.0	10.6#
130	2.5	14.4	21.6#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.95 min Scan# 557
Delta R.T. -0.03 min
Lab File: BF089875.D
Acq: 24 Aug 2016 15:35

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.2	13.8
54	5.8	7.2	10.8#
68	5.4	5.8	8.8#

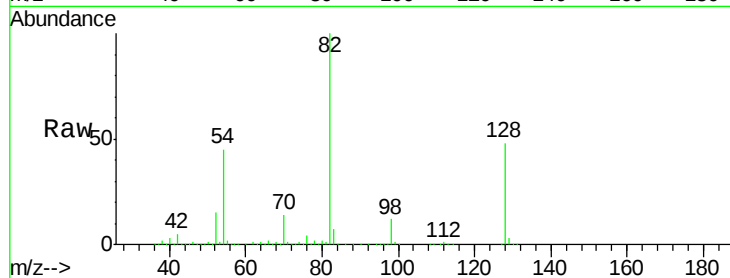




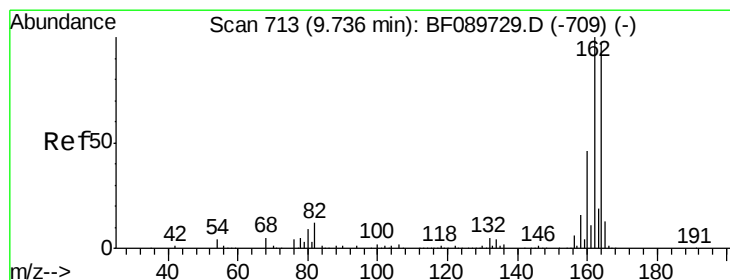
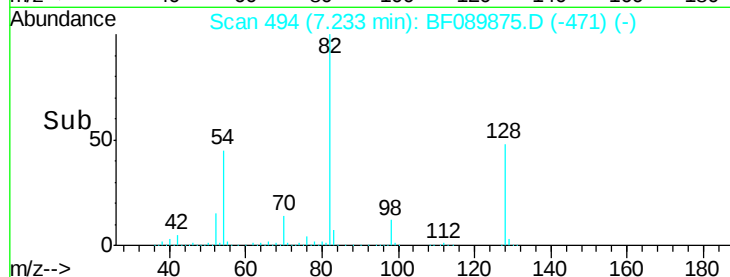
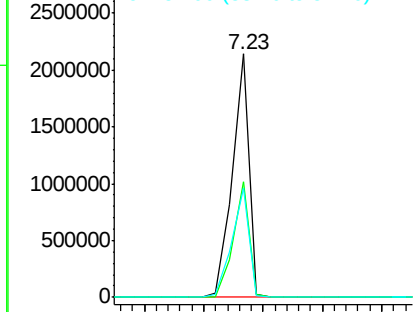
#23
Nitrobenzene-d5
Concen: 71.79 ng
RT: 7.23 min Scan# 494
Delta R.T. -0.03 min
Lab File: BF089875.D
Acq: 24 Aug 2016 15:35

Instrument :
BNA_F
ClientSampled :

Tot Ion: 82 Resp: 2078578
Ion Ratio Lower Upper
82 100
128 47.7 34.4 51.6
54 44.7 40.3 60.5

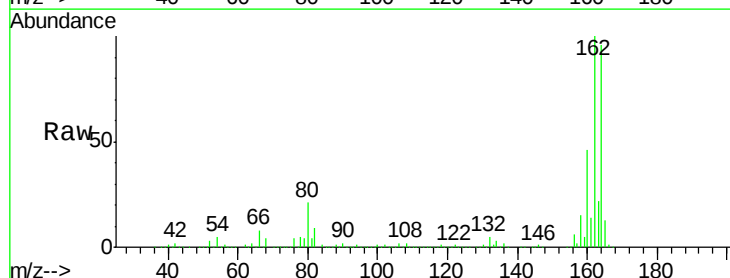


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): BF0
Ion 54.00 (53.70 to 54.70): BF0

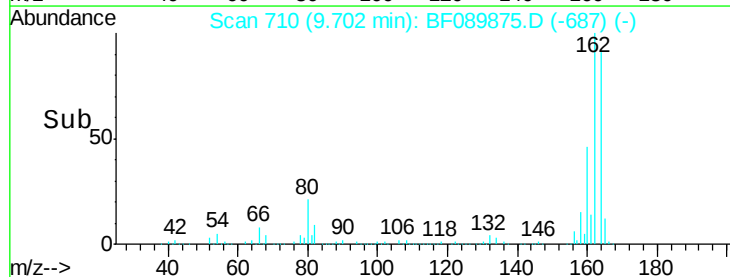
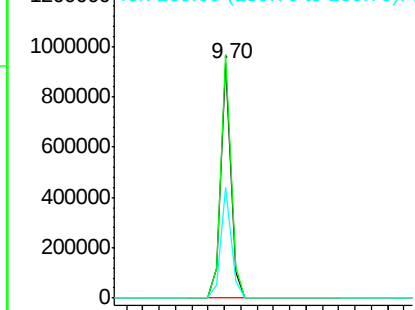


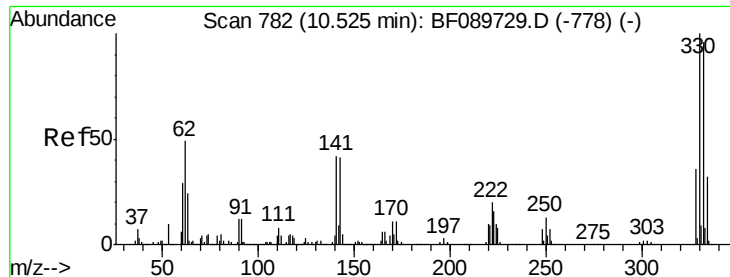
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.70 min Scan# 710
Delta R.T. -0.03 min
Lab File: BF089875.D
Acq: 24 Aug 2016 15:35

Tgt Ion:164 Resp: 794676
Ion Ratio Lower Upper
164 100
162 103.8 81.4 122.2
160 47.3 37.8 56.6



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

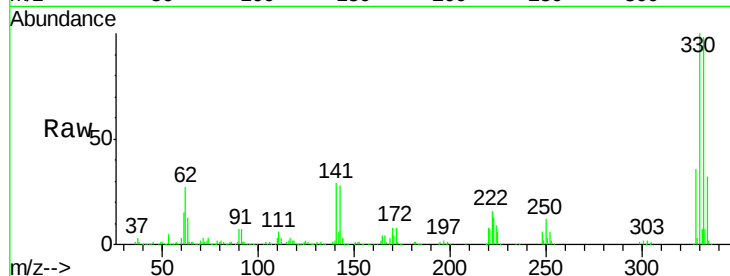




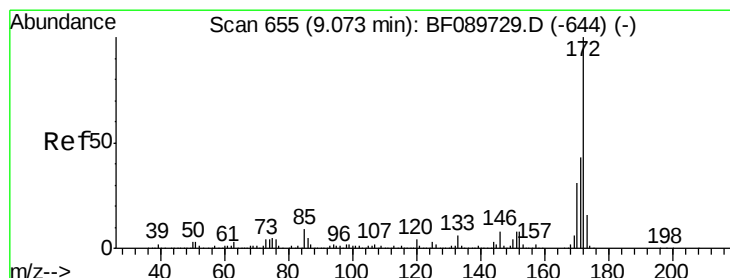
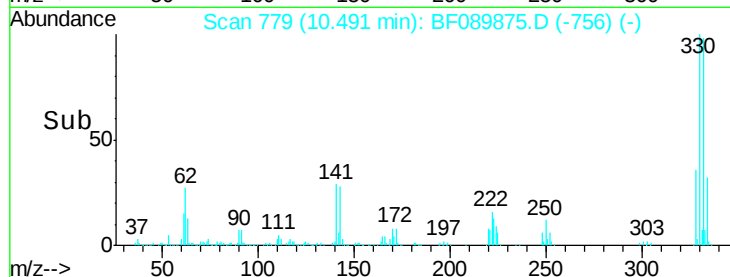
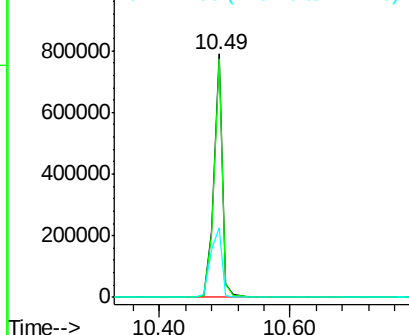
#41
 2,4,6-Tribromophenol
 Concen: 96.70 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.03 min
 Lab File: BF089875.D
 Acq: 24 Aug 2016 15:35

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.7	115.1
141	37.4	30.2	45.2

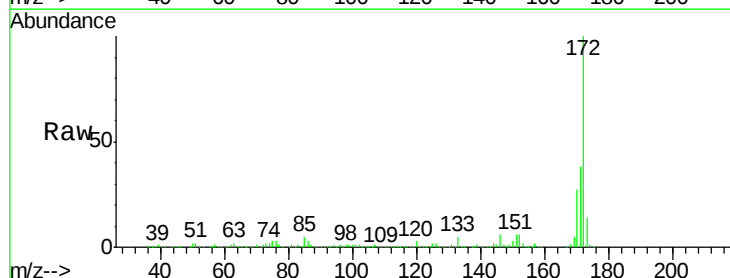


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

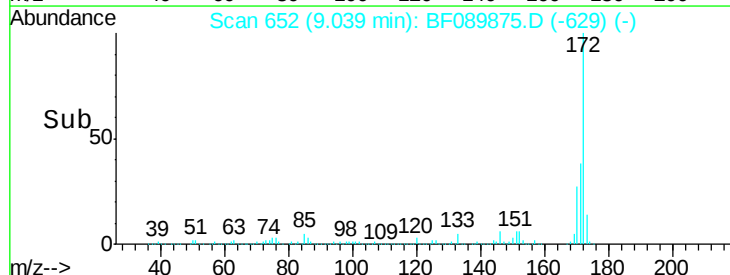
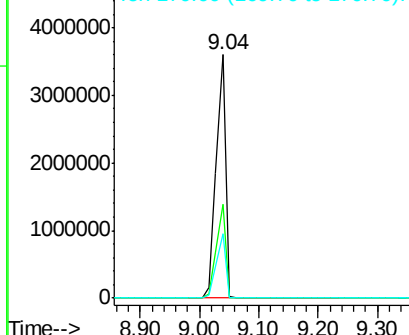


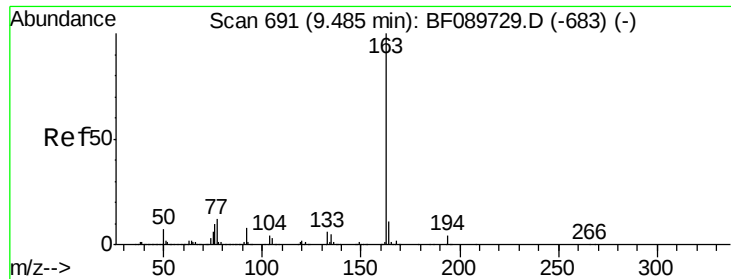
#44
 2-Fluorobiphenyl
 Concen: 78.35 ng
 RT: 9.04 min Scan# 652
 Delta R.T. -0.03 min
 Lab File: BF089875.D
 Acq: 24 Aug 2016 15:35

Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.3	30.5	45.7
170	26.6	20.6	31.0



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: 19.91 ng

RT: 9.43 min Scan# 686

Delta R.T. -0.06 min

Lab File: BF089875.D

Acq: 24 Aug 2016 15:35

Instrument :

BNA_F

ClientSampled :

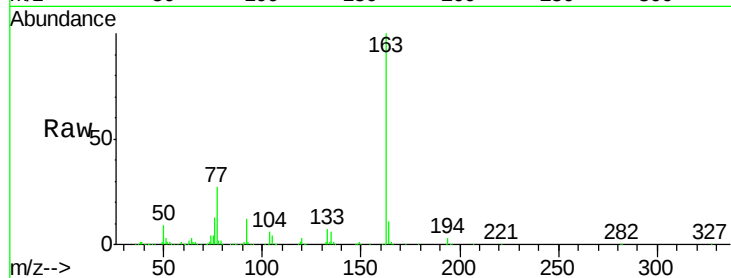
Tot Ion:163 Resp: 1144567

Ion Ratio Lower Upper

163 100

194 2.8 2.6 3.8

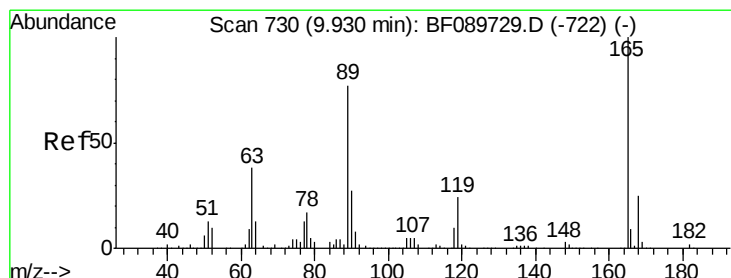
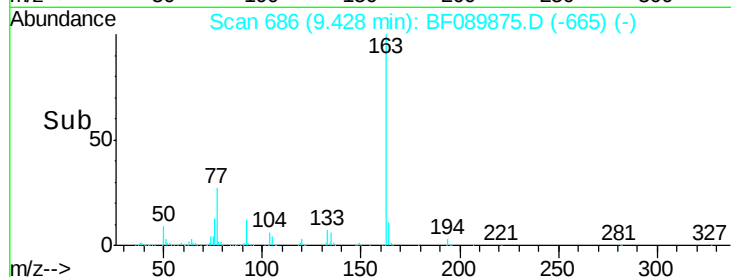
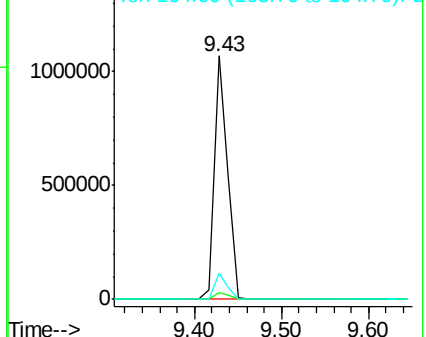
164 10.9 8.6 12.8



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: 6.19 ng

RT: 9.70 min Scan# 710

Delta R.T. -0.23 min

Lab File: BF089875.D

Acq: 24 Aug 2016 15:35

Tgt Ion:165 Resp: 103579

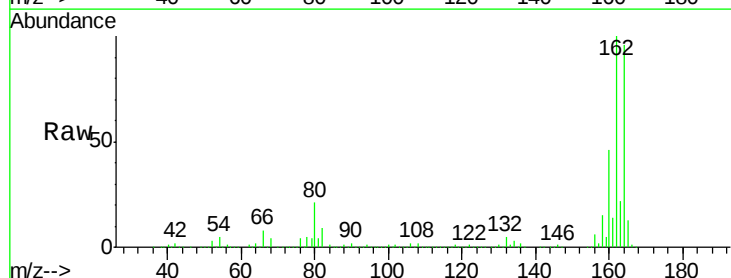
Ion Ratio Lower Upper

165 100

63 1.2 23.7 35.5#

89 1.0 44.0 66.0#

182 0.0 2.0 3.0#

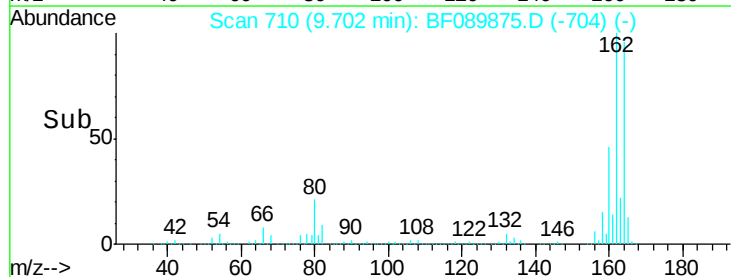
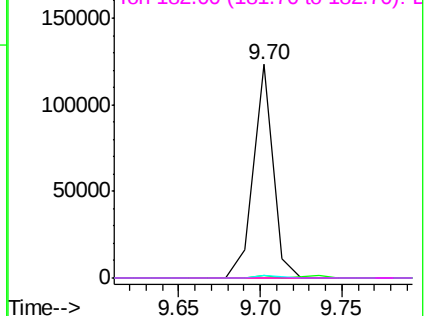


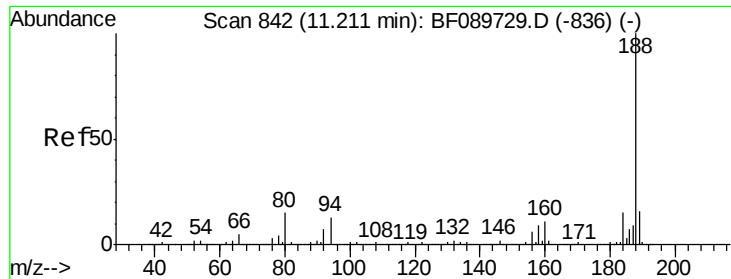
Abundance Ion 165.00 (164.70 to 165.70): E

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

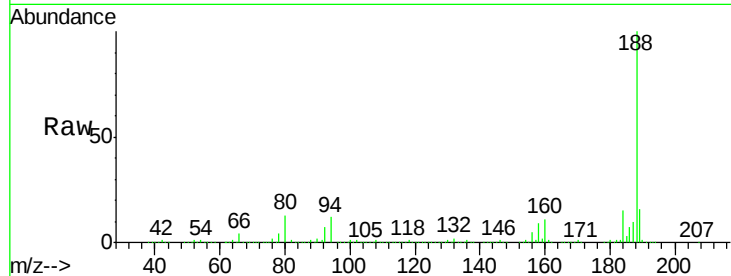




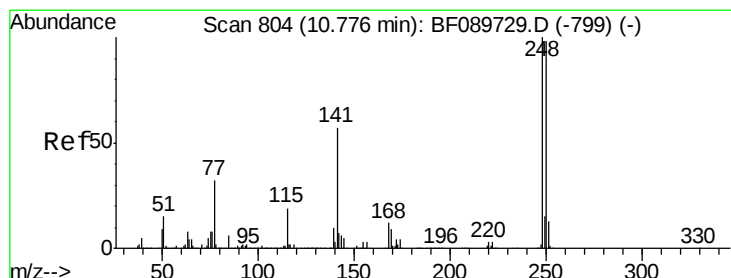
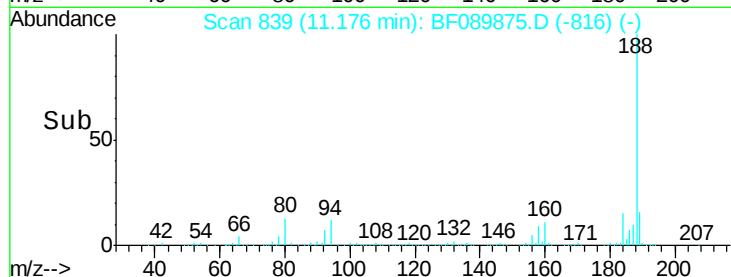
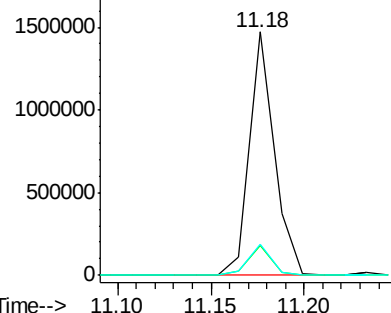
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.18 min Scan# 839
 Delta R.T. -0.03 min
 Lab File: BF089875.D
 Acq: 24 Aug 2016 15:35

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:188 Resp: 1351991
 Ion Ratio Lower Upper
 188 100
 94 12.2 10.2 15.2
 80 12.6 10.9 16.3

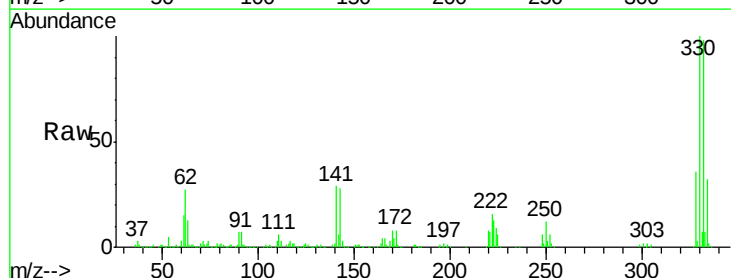


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

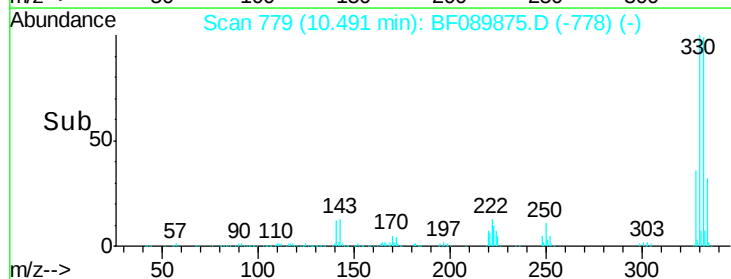
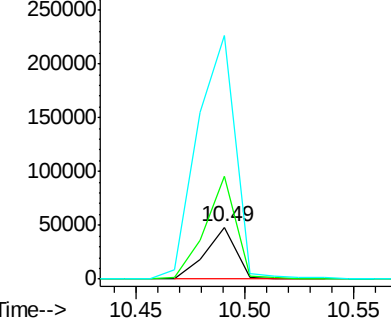


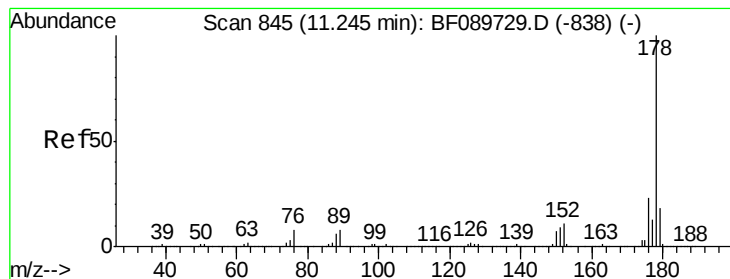
#66
 4-Bromophenyl-phenylether
 Concen: 3.37 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.29 min
 Lab File: BF089875.D
 Acq: 24 Aug 2016 15:35

Tgt Ion:248 Resp: 47233
 Ion Ratio Lower Upper
 248 100
 250 200.5 78.6 117.8#
 141 471.9 31.4 47.2#



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: 11.38 ng

RT: 11.20 min Scan# 841

Delta R.T. -0.04 min

Lab File: BF089875.D

Acq: 24 Aug 2016 15:35

Instrument :

BNA_F

ClientSampleId :

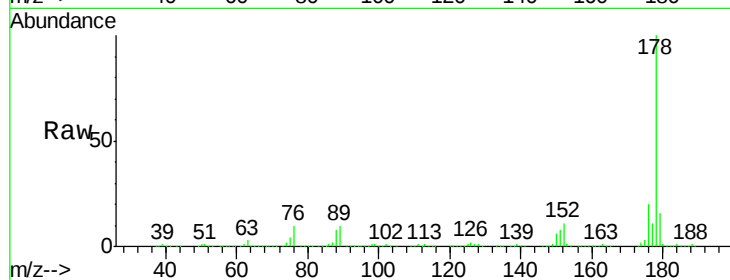
Tot Ion:178 Resp: 755972

Ion Ratio Lower Upper

178 100

176 19.8 16.4 24.6

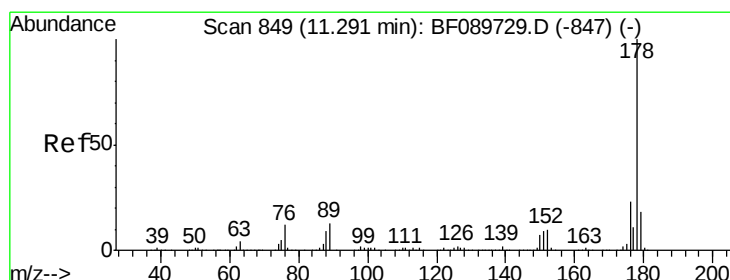
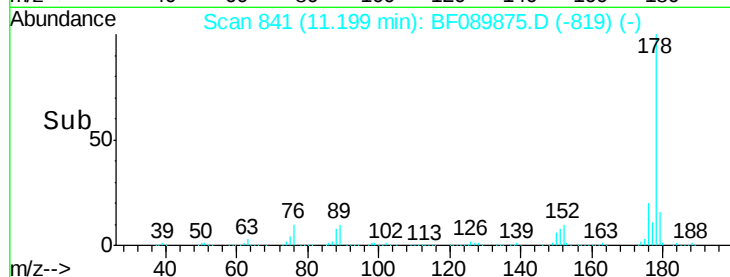
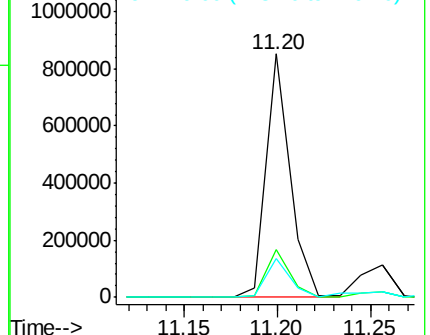
179 16.0 12.5 18.7



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: 2.02 ng

RT: 11.26 min Scan# 846

Delta R.T. -0.03 min

Lab File: BF089875.D

Acq: 24 Aug 2016 15:35

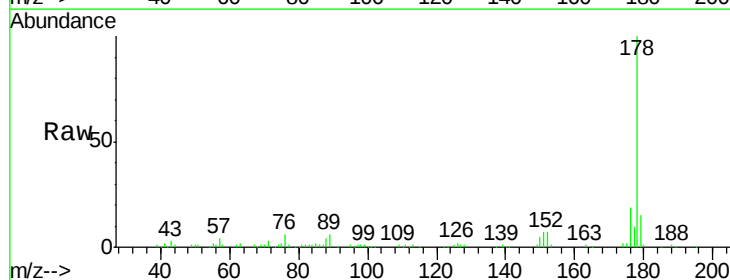
Tgt Ion:178 Resp: 140512

Ion Ratio Lower Upper

178 100

176 18.7 16.4 24.6

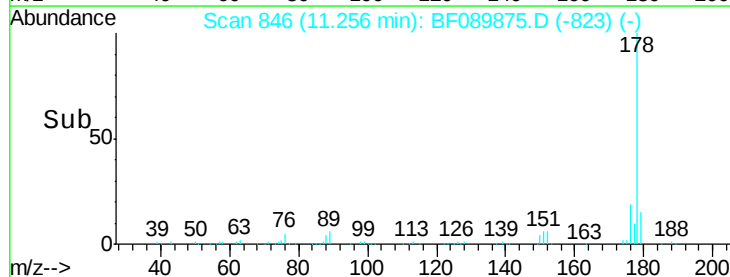
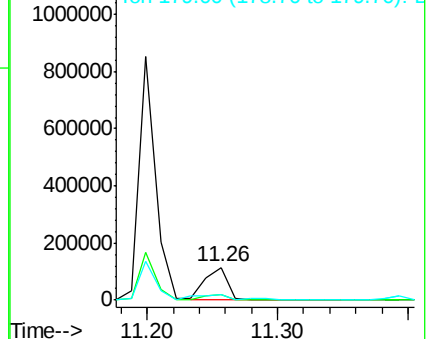
179 15.1 13.1 19.7

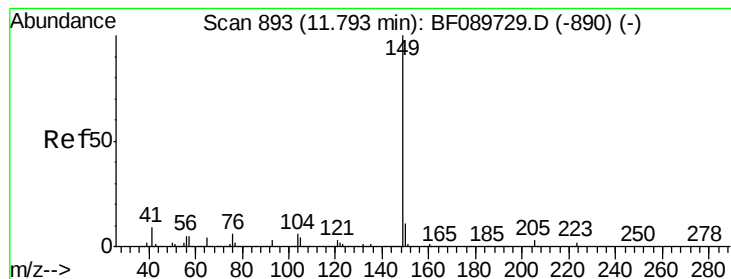


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Di-n-butylphthalate

Concen: 2.15 ng

RT: 11.76 min Scan# 890

Delta R.T. -0.03 min

Lab File: BF089875.D

Acq: 24 Aug 2016 15:35

Instrument :

BNA_F

ClientSampled :

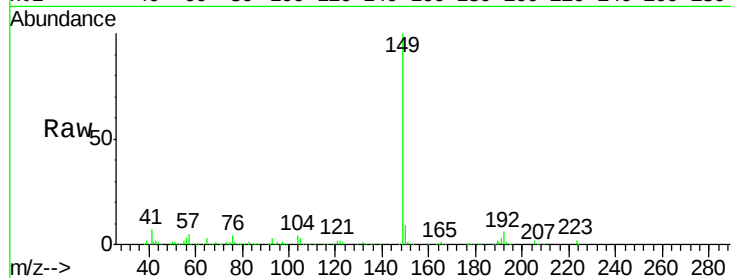
Tot Ion:149 Resp: 172182

Ion Ratio Lower Upper

149 100

150 9.1 7.9 11.9

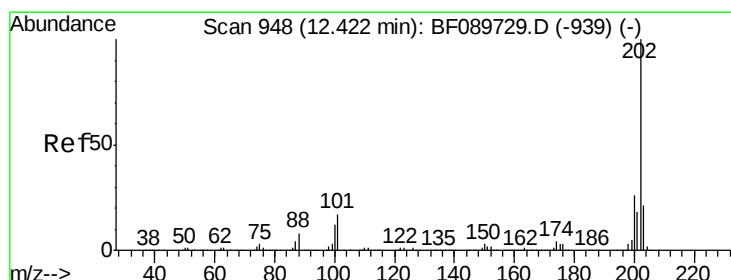
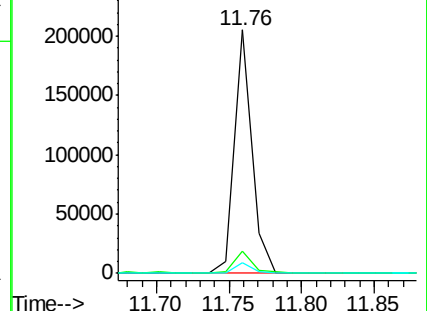
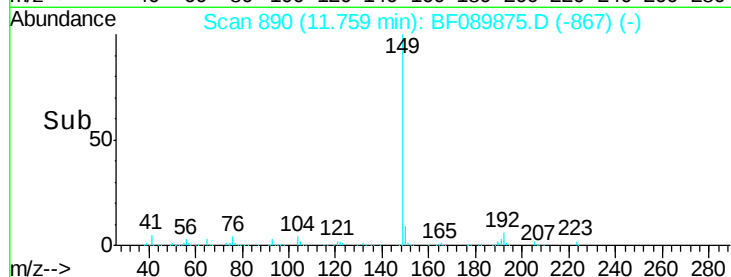
104 4.5 4.3 6.5



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 16.97 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.03 min

Lab File: BF089875.D

Acq: 24 Aug 2016 15:35

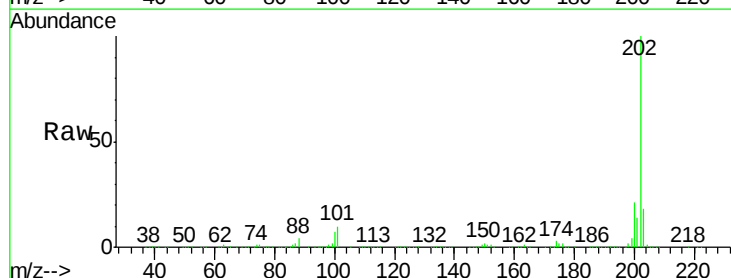
Tgt Ion:202 Resp: 1133249

Ion Ratio Lower Upper

202 100

101 10.0 0.0 31.2

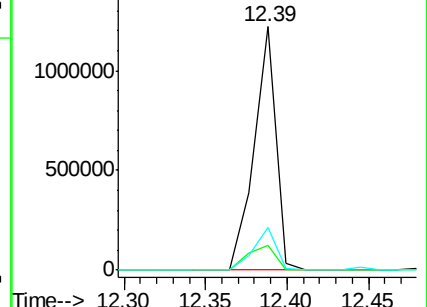
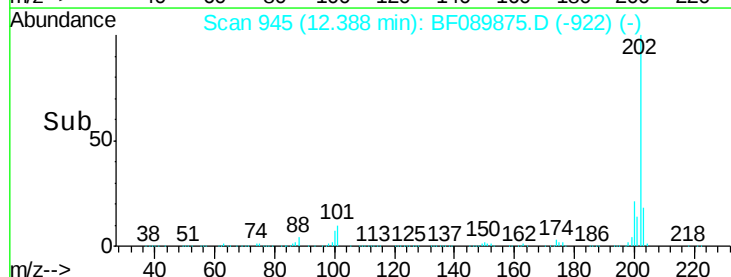
203 17.7 0.0 38.1

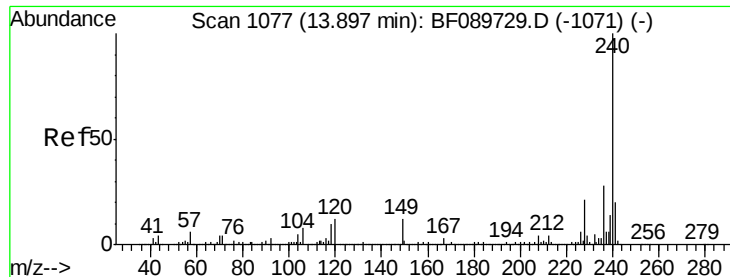


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.86 min Scan# 1074

Delta R.T. -0.03 min

Lab File: BF089875.D

Acq: 24 Aug 2016 15:35

Instrument :

BNA_F

ClientSampleId :

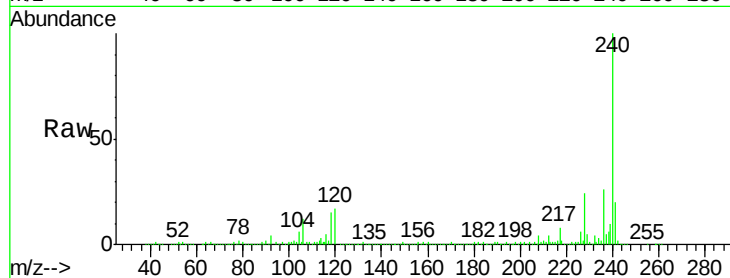
Tot Ion:240 Resp: 1140943

Ion Ratio Lower Upper

240 100

120 17.4 8.3 12.5#

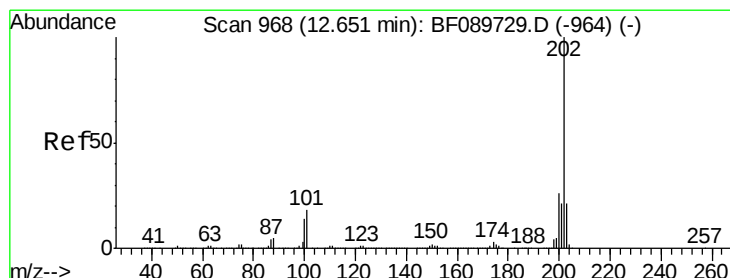
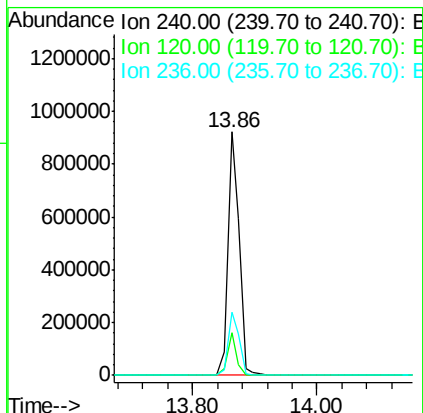
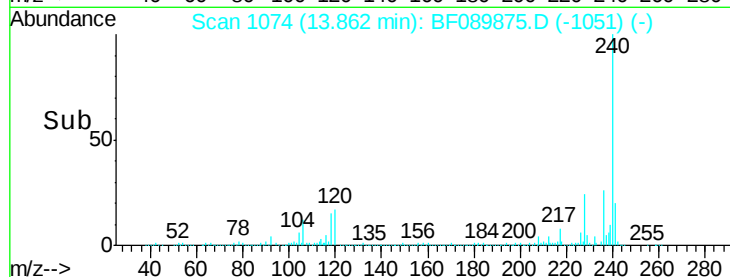
236 26.2 21.3 31.9



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: 12.73 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF089875.D

Acq: 24 Aug 2016 15:35

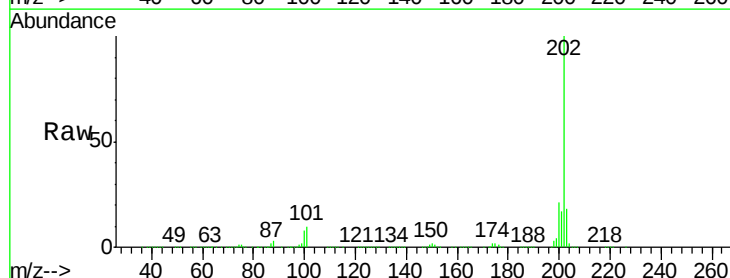
Tgt Ion:202 Resp: 950402

Ion Ratio Lower Upper

202 100

200 20.9 17.8 26.6

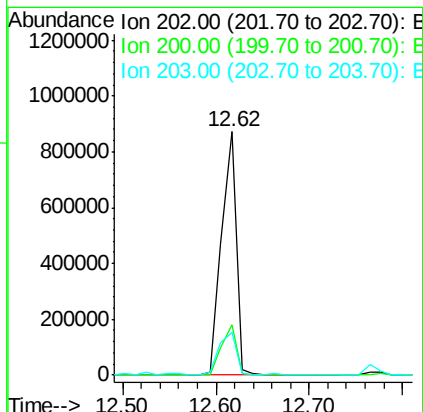
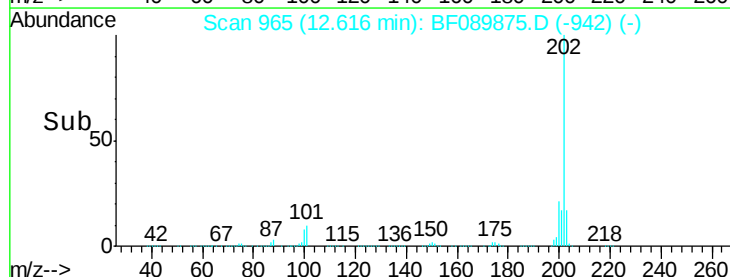
203 17.6 14.2 21.4

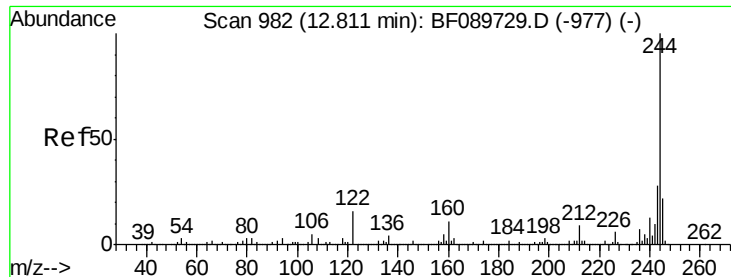


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 72.42 ng

RT: 12.78 min Scan# 979

Delta R.T. -0.03 min

Lab File: BF089875.D

Acq: 24 Aug 2016 15:35

Instrument :

BNA_F

ClientSampleId :

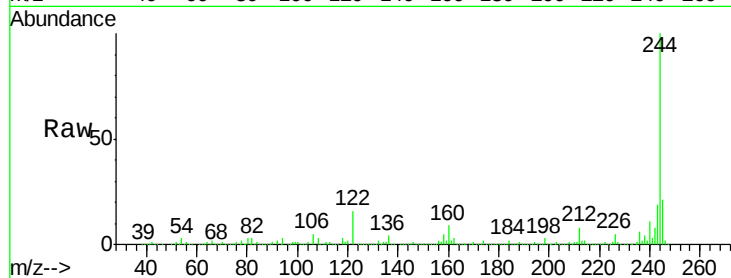
Tot Ion:244 Resp: 2765975

Ion Ratio Lower Upper

244 100

212 8.1 6.3 9.5

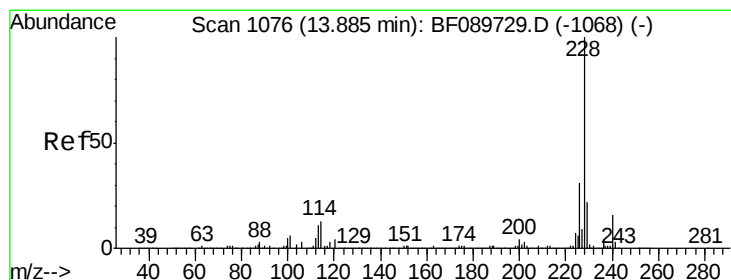
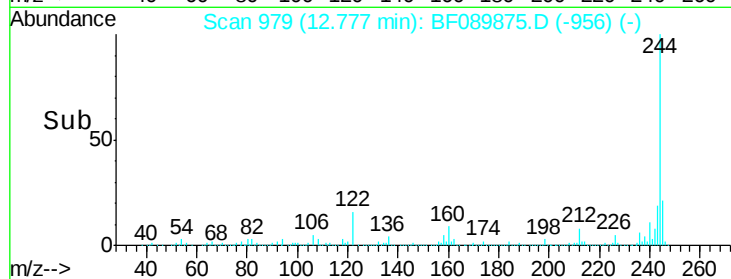
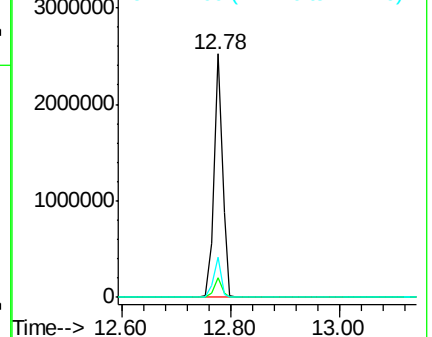
122 16.2 12.0 18.0



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: 7.32 ng

RT: 13.85 min Scan# 1073

Delta R.T. -0.03 min

Lab File: BF089875.D

Acq: 24 Aug 2016 15:35

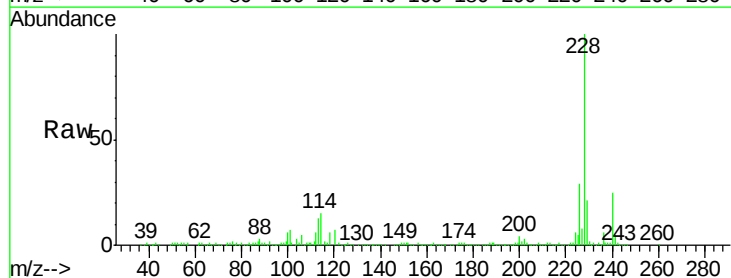
Tgt Ion:228 Resp: 485001

Ion Ratio Lower Upper

228 100

226 29.0 23.2 34.8

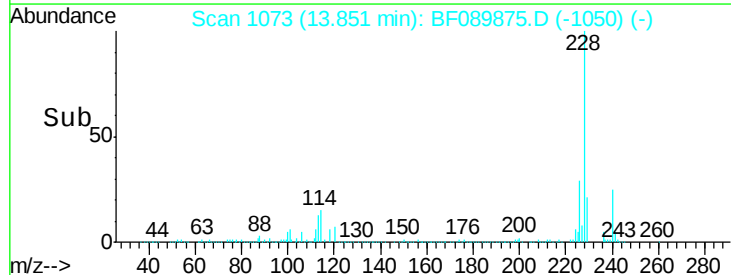
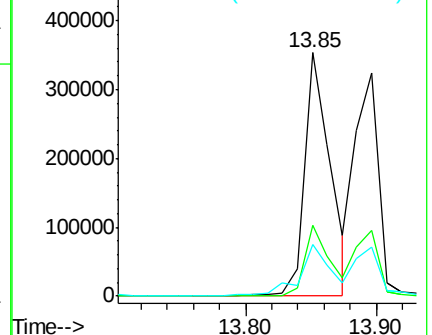
229 21.2 16.2 24.4

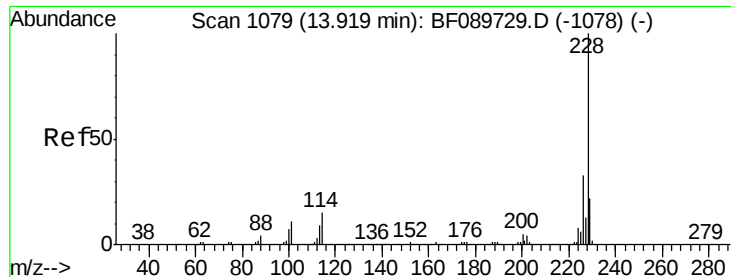


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

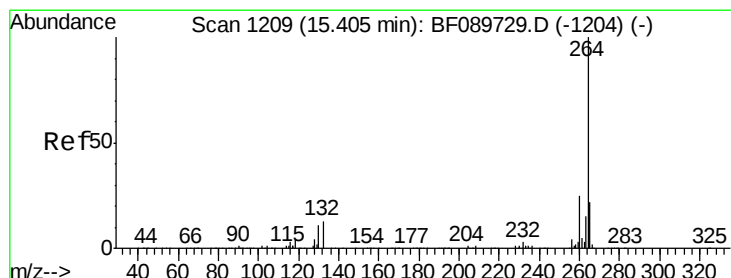
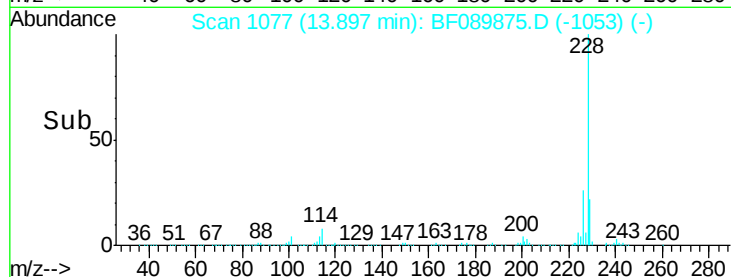
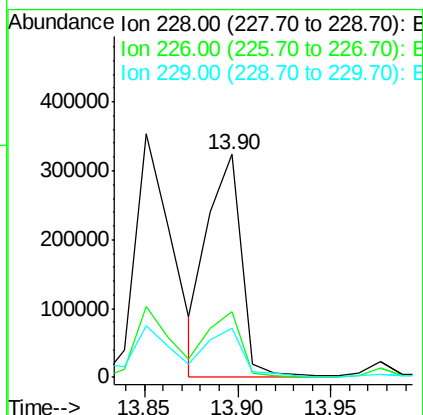
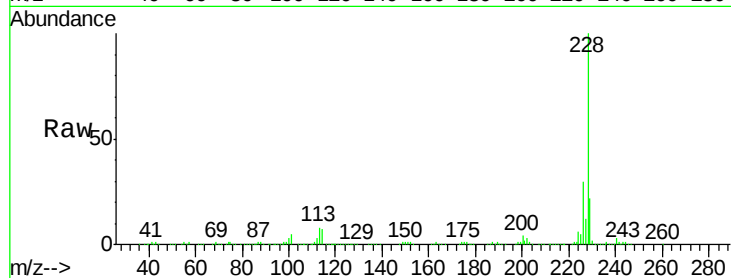




#82
Chrysene
Concen: 6.82 ng
RT: 13.90 min Scan# 1077
Delta R.T. -0.02 min
Lab File: BF089875.D
Acq: 24 Aug 2016 15:35

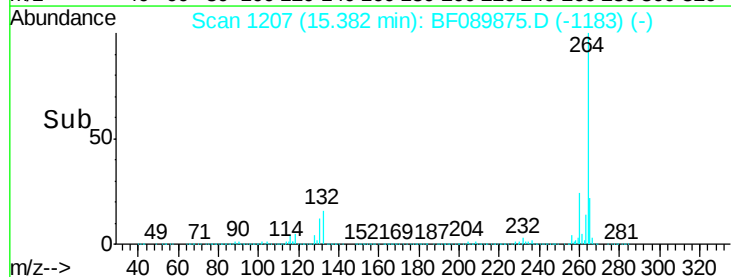
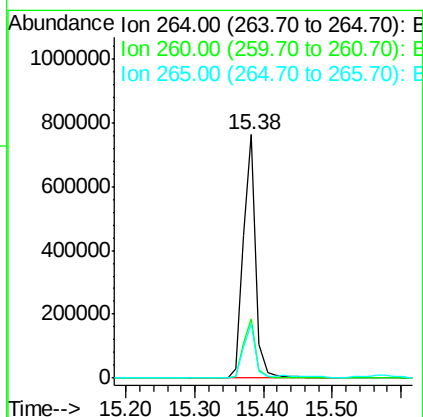
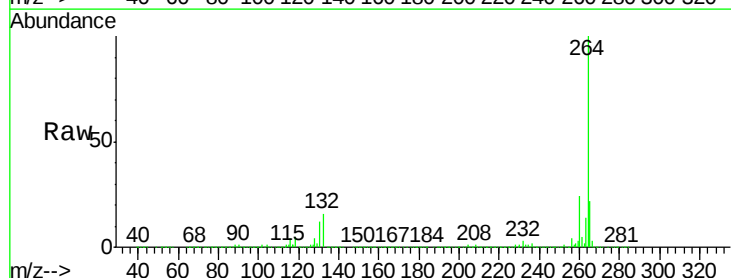
Instrument :
BNA_F
ClientSampleId :

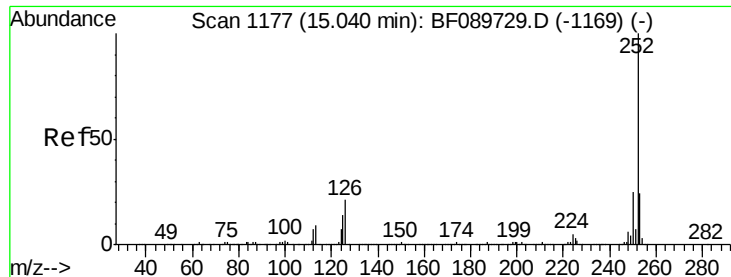
Tot Ion:228 Resp: 406608
Ion Ratio Lower Upper
228 100
226 29.6 25.4 38.0
229 21.8 16.5 24.7



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.38 min Scan# 1207
Delta R.T. -0.02 min
Lab File: BF089875.D
Acq: 24 Aug 2016 15:35

Tgt Ion:264 Resp: 959022
Ion Ratio Lower Upper
264 100
260 24.2 20.2 30.2
265 22.0 17.4 26.2

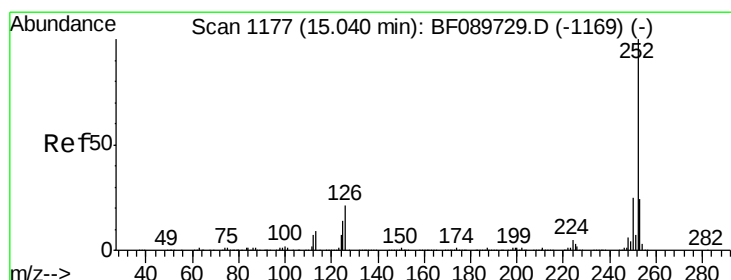
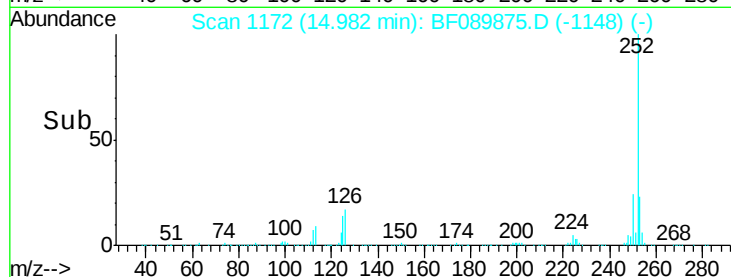
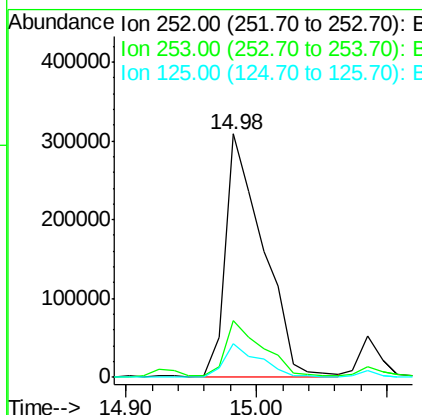
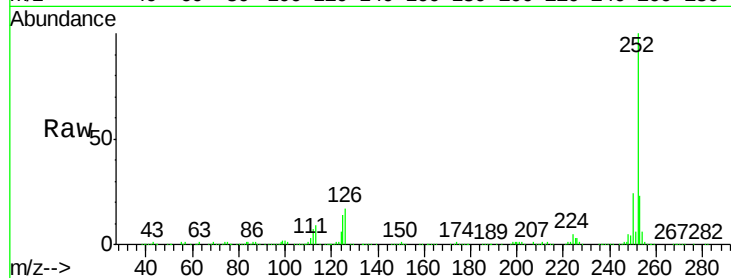




#87
Benzo(b)fluoranthene
Concen: 10.13 ng
RT: 14.98 min Scan# 1172
Delta R.T. -0.02 min
Lab File: BF089875.D
Acq: 24 Aug 2016 15:35

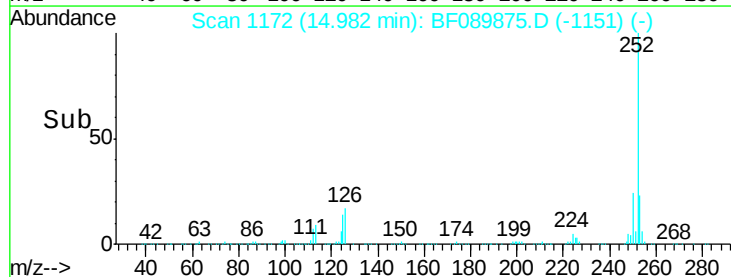
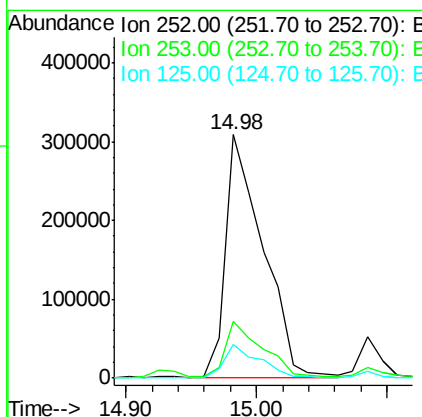
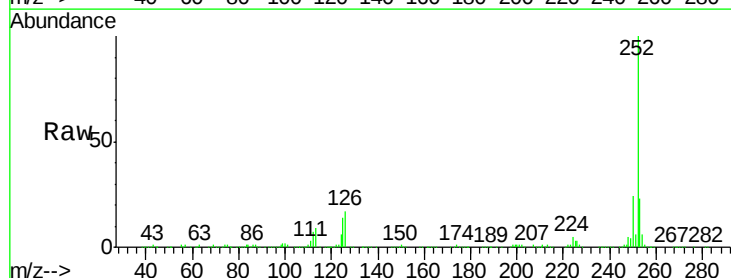
Instrument :
BNA_F
ClientSampleId :

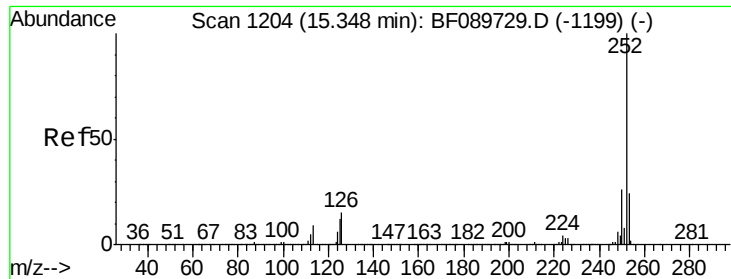
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.8
125	13.7	11.4	17.2



#88
Benzo(k)fluoranthene
Concen: 12.31 ng
RT: 14.98 min Scan# 1172
Delta R.T. -0.06 min
Lab File: BF089875.D
Acq: 24 Aug 2016 15:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.4	27.6
125	13.7	9.8	14.6





#89

Benzo(a)pyrene

Concen: 4.27 ng

RT: 15.27 min Scan# 1197

Delta R.T. -0.08 min

Lab File: BF089875.D

Acq: 24 Aug 2016 15:35

Instrument :

BNA_F

ClientSampleId :

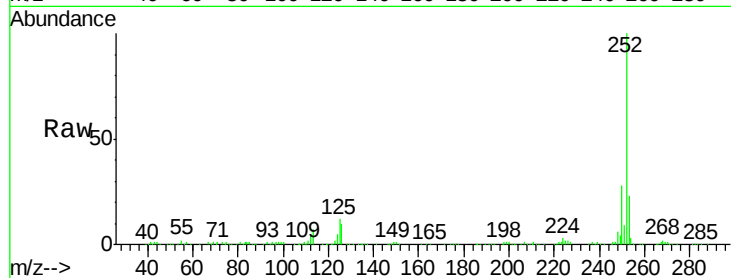
Tot Ion:252 Resp: 214459

Ion Ratio Lower Upper

252 100

253 22.7 17.8 26.8

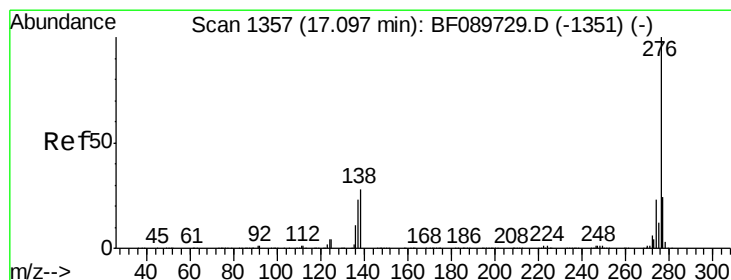
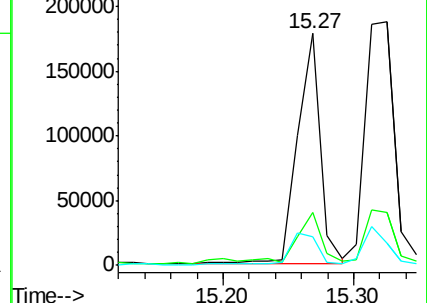
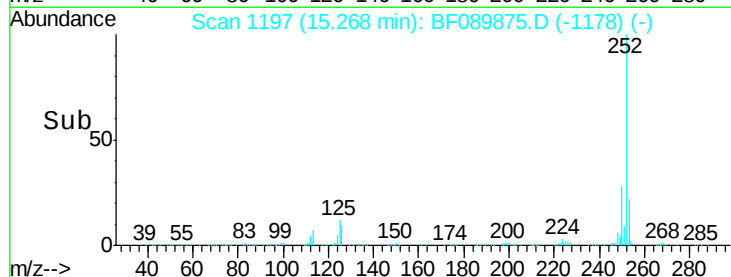
125 12.4 11.7 17.5



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 3.86 ng

RT: 17.04 min Scan# 1352

Delta R.T. -0.06 min

Lab File: BF089875.D

Acq: 24 Aug 2016 15:35

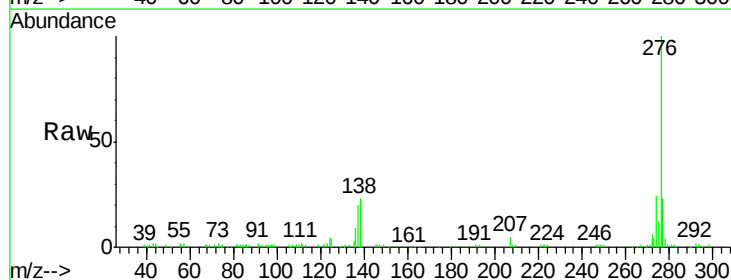
Tgt Ion:276 Resp: 155346

Ion Ratio Lower Upper

276 100

277 23.1 19.2 28.8

138 22.5 22.1 33.1



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

