

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073116\
 Data File : BF089502.D
 Acq On : 1 Aug 2016 9:13
 Operator : UM/SJ
 Sample : H4215-06DL 5X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 01 13:55:14 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 28 16:02:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.49	152	41430	20.00	ng	-0.06
21) Naphthalene-d8	7.78	136	163146	20.00	ng	-0.05
38) Acenaphthene-d10	9.52	164	62493	20.00	ng	-0.06
63) Phenanthrene-d10	10.99	188	120383	20.00	ng	-0.06
75) Chrysene-d12	13.62	240	92539	20.00	ng	-0.05
86) Perylene-d12	14.95	264	72230	20.00	ng	-0.06

System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	38977	15.02	ng	-0.05
7) Phenol-d6	6.16	99	57366	16.73	ng	-0.05
23) Nitrobenzene-d5	7.06	82	37634	13.62	ng	-0.06
41) 2,4,6-Tribromophenol	10.31	330	8745	16.90	ng	-0.06
44) 2-Fluorobiphenyl	8.86	172	70789	16.62	ng	-0.06
78) Terphenyl-d14	12.58	244	53806	13.61	ng	-0.05

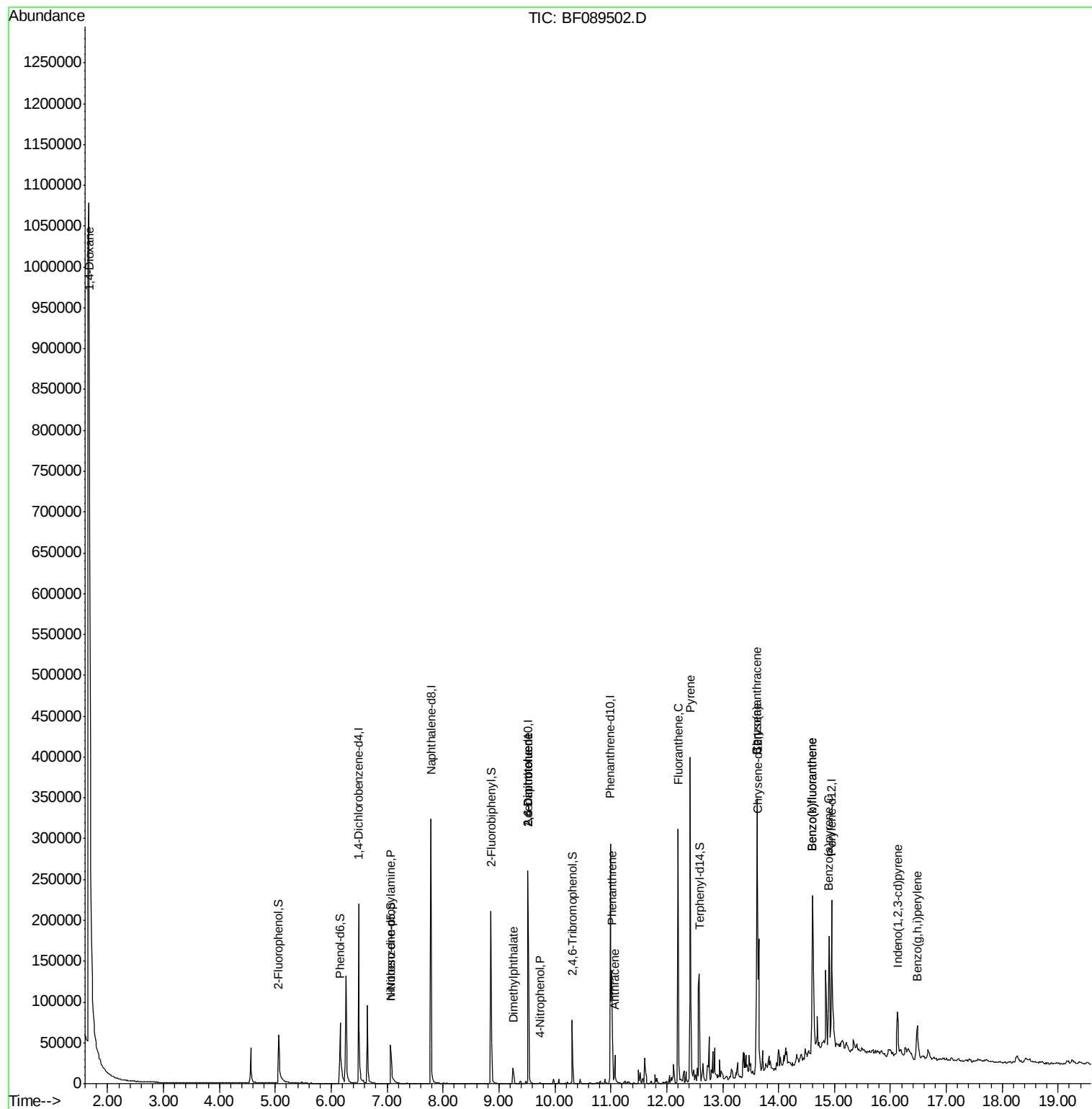
Target Compounds						Qvalue
2) 1,4-Dioxane	1.67	88	66550	58.21	ng	# 26
19) n-Nitroso-di-n-propylamine	7.06	70	4536	2.19	ng	# 81
49) Dimethylphthalate	9.26	163	11265	2.37	ng	# 92
50) 2,6-Dinitrotoluene	9.52	165	7988	8.17	ng	# 24
55) 4-Nitrophenol	9.74	139	330	6.79	ng	# 4
56) 2,4-Dinitrotoluene	9.52	165	7988	6.21	ng	# 7
70) Phenanthrene	11.02	178	56199	9.05	ng	99
71) Anthracene	11.07	178	22040	3.19	ng	98
74) Fluoranthene	12.21	202	186057	28.49	ng	98
77) Pyrene	12.42	202	159001	22.67	ng	99
80) Benzo(a)anthracene	13.61	228	98177	18.80	ng	98
82) Chrysene	13.61	228	98177	17.66	ng	98
85) Indeno(1,2,3-cd)pyrene	16.13	276	36462	9.23	ng	# 89
87) Benzo(b)fluoranthene	14.61	252	115017	25.64	ng	97
88) Benzo(k)fluoranthene	14.61	252	115017	27.89	ng	99
89) Benzo(a)pyrene	14.90	252	55344	13.75	ng	96
91) Benzo(a,h,i)perylene	16.48	276	32815	10.53	ng	97

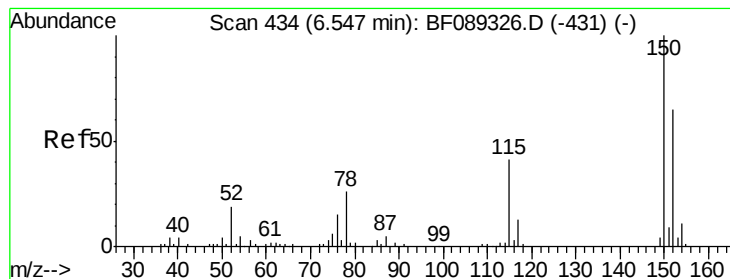
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.49 min Scan# 429

Delta R.T. -0.06 min

Lab File: BF089502.D

Acq: 1 Aug 2016 9:13

Instrument :

BNA_F

ClientSampleId :

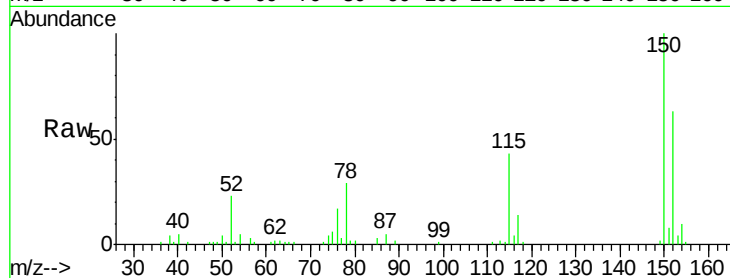
Tot Ion:152 Resp: 41430

Ion Ratio Lower Upper

152 100

150 159.3 129.5 194.3

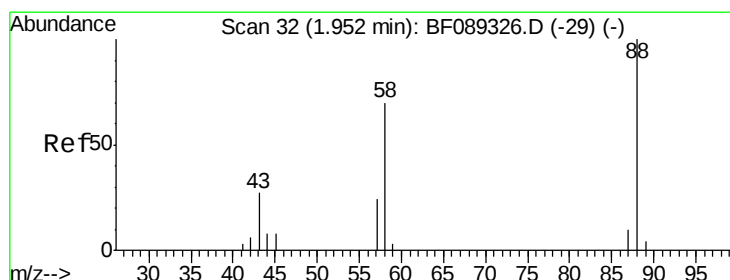
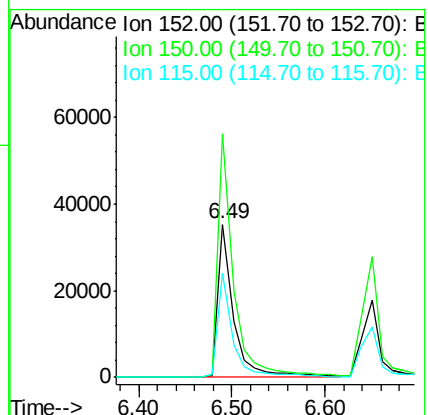
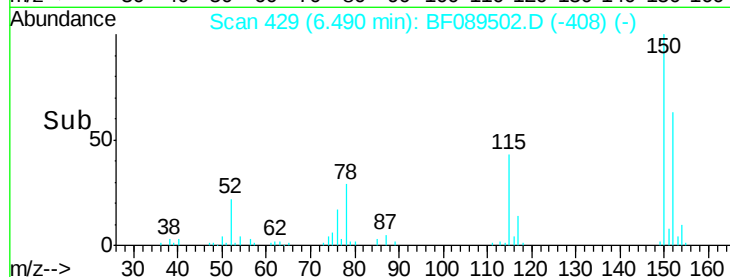
115 67.8 51.4 77.2



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



#2

1,4-Dioxane

Concen: 58.21 ng

RT: 1.67 min Scan# 7

Delta R.T. -0.29 min

Lab File: BF089502.D

Acq: 1 Aug 2016 9:13

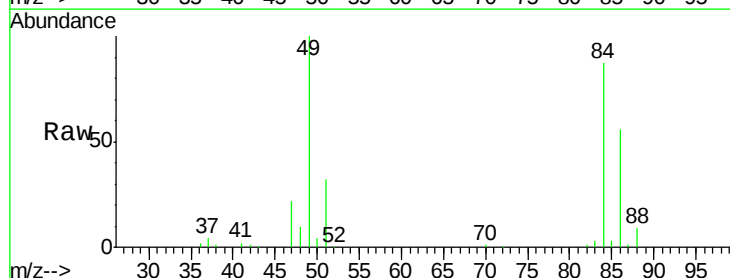
Tgt Ion: 88 Resp: 66550

Ion Ratio Lower Upper

88 100

58 0.0 53.2 79.8#

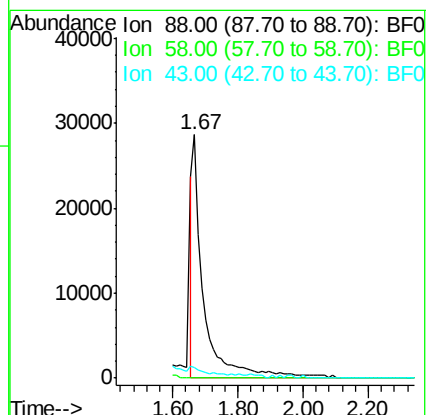
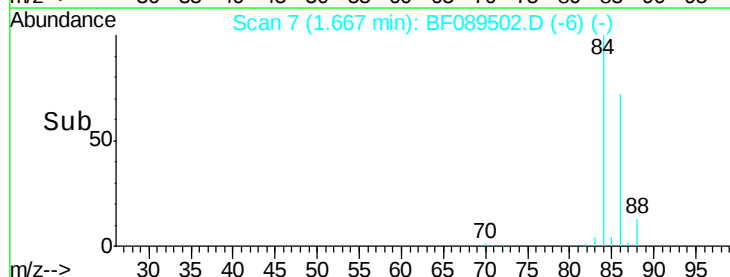
43 0.0 20.6 31.0#

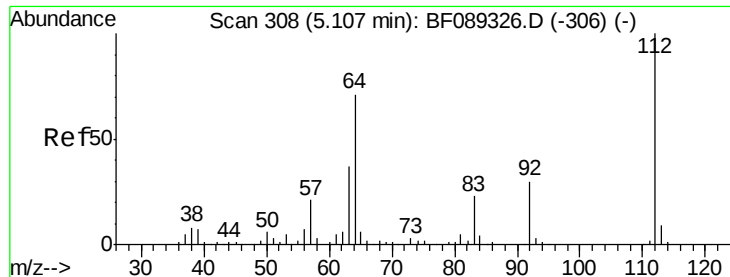


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 15.02 ng

RT: 5.06 min Scan# 304

Delta R.T. -0.05 min

Lab File: BF089502.D

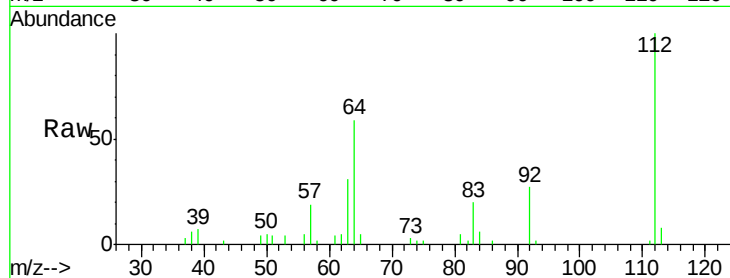
Acq: 1 Aug 2016 9:13

Instrument :

BNA_F

ClientSampleId :

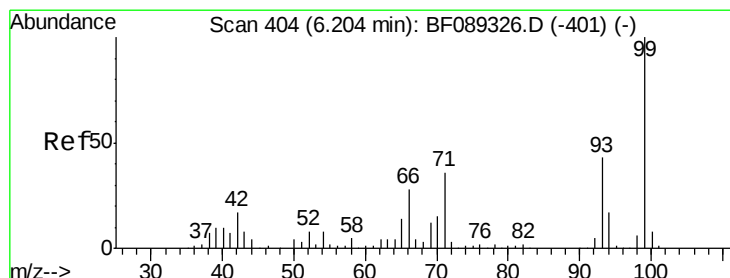
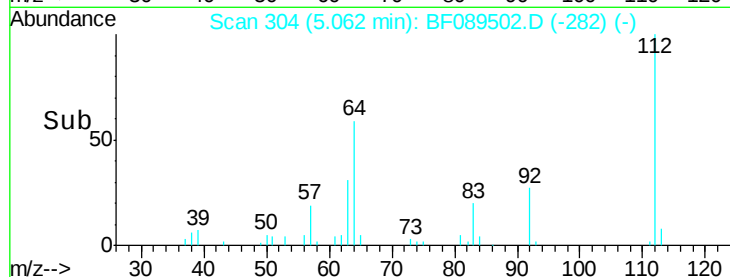
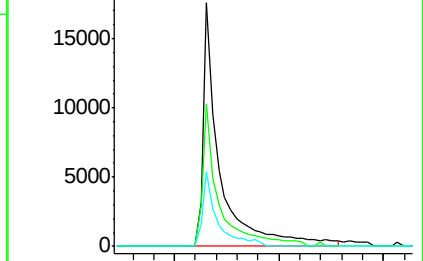
Tot Ion:	112	Resp:	38977
Ion	Ratio	Lower	Upper
112	100		
64	58.5	55.0	82.6
63	30.7	29.4	44.2



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: 16.73 ng

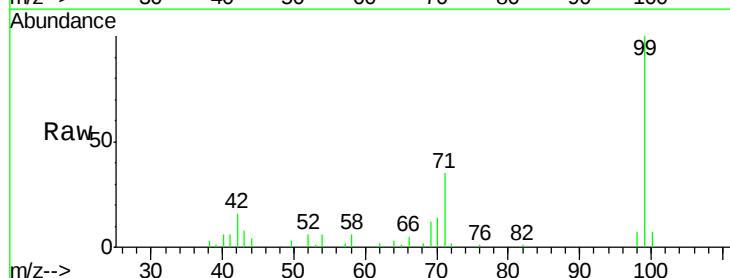
RT: 6.16 min Scan# 400

Delta R.T. -0.05 min

Lab File: BF089502.D

Acq: 1 Aug 2016 9:13

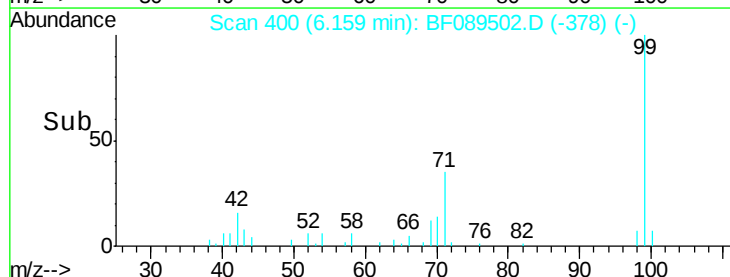
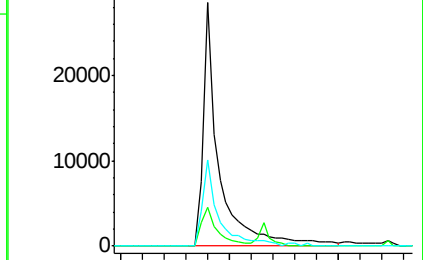
Tgt Ion:	99	Resp:	57366
Ion	Ratio	Lower	Upper
99	100		
42	16.1	13.6	20.4
71	35.2	29.4	44.2

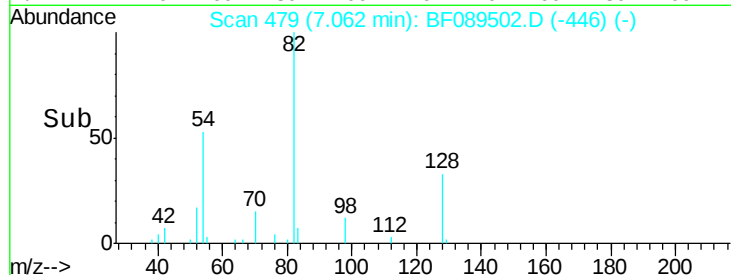
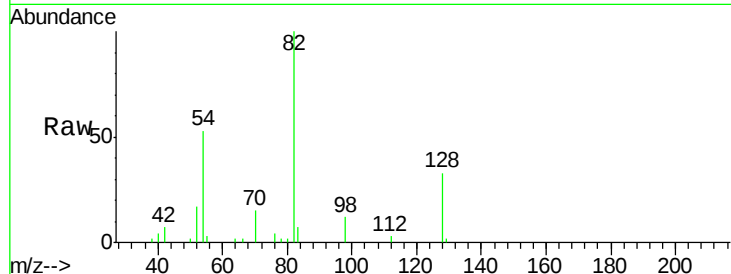
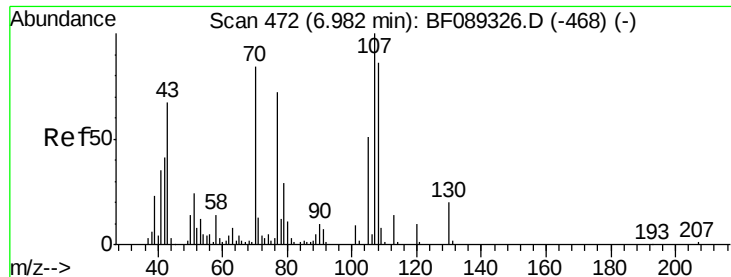


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

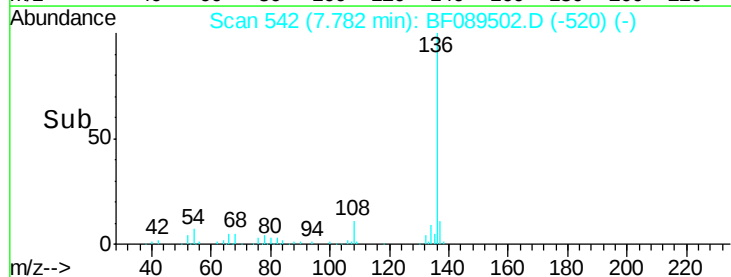
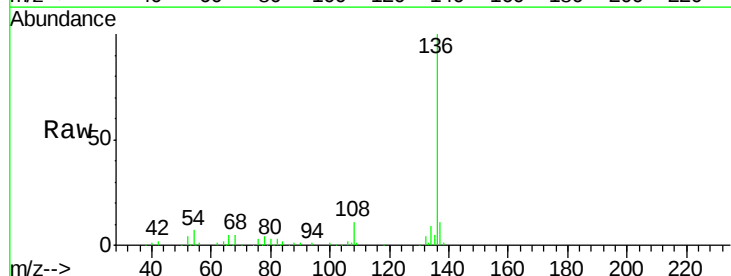
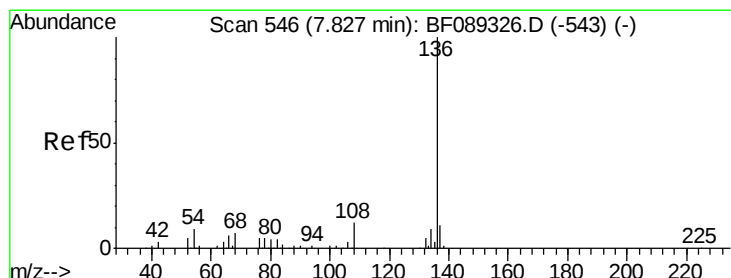
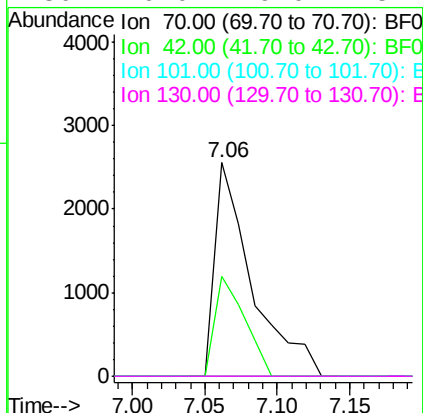




#19
n-Nitroso-di-n-propylamine
Concen: 2.19 ng
RT: 7.06 min Scan# 479
Delta R.T. 0.08 min
Lab File: BF089502.D
Acq: 1 Aug 2016 9:13

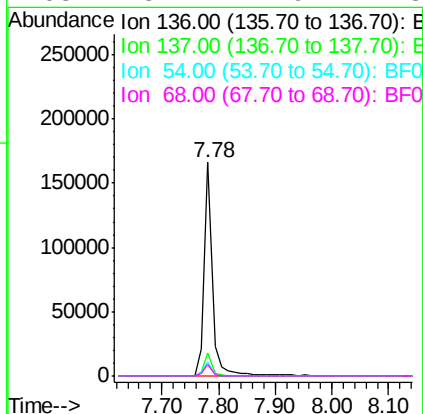
Instrument :
BNA_F
ClientSampleId :

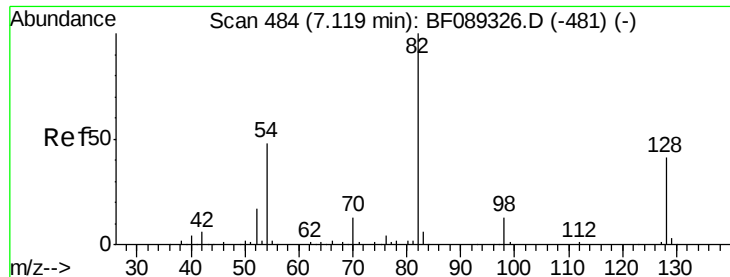
Tot Ion	Ratio	Lower	Upper
70	100		
42	46.7	38.6	57.8
101	0.0	8.3	12.5#
130	0.0	19.0	28.4#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.78 min Scan# 542
Delta R.T. -0.05 min
Lab File: BF089502.D
Acq: 1 Aug 2016 9:13

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.6	13.0
54	6.5	7.0	10.4#
68	5.1	4.9	7.3

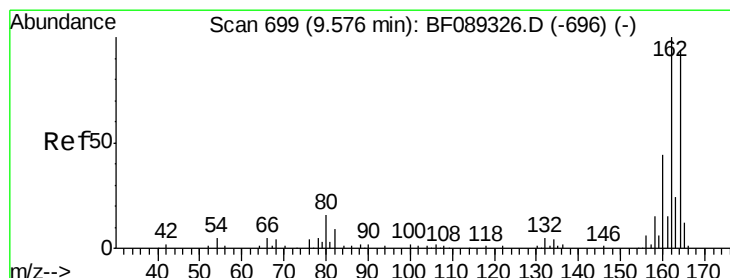
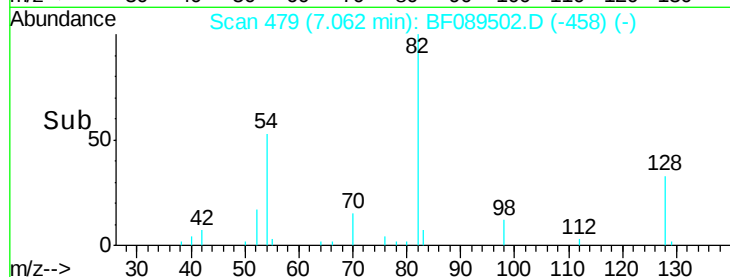
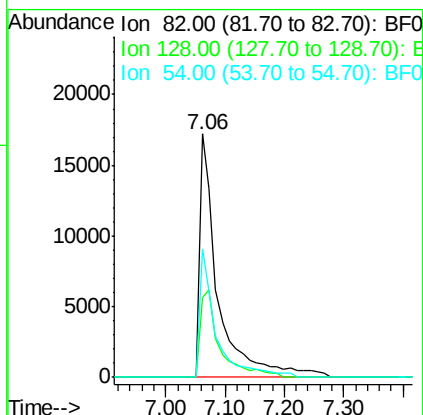
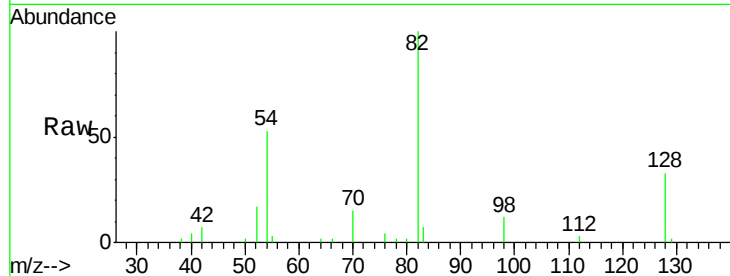




#23
 Nitrobenzene-d5
 Concen: 13.62 ng
 RT: 7.06 min Scan# 479
 Delta R.T. -0.06 min
 Lab File: BF089502.D
 Acq: 1 Aug 2016 9:13

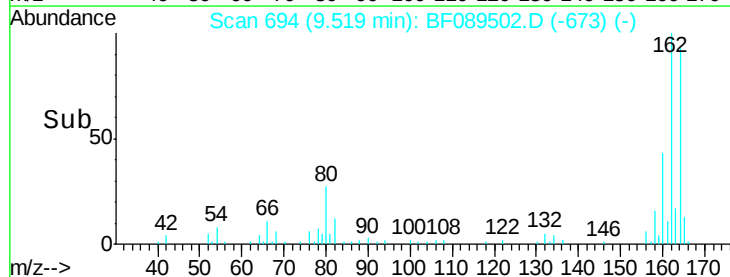
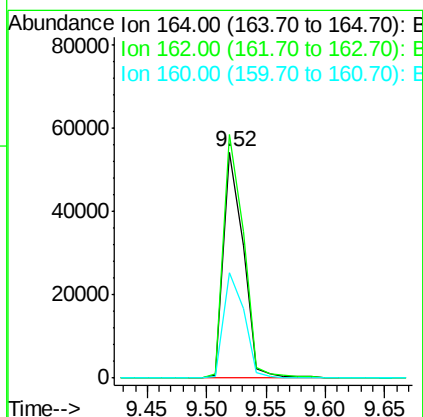
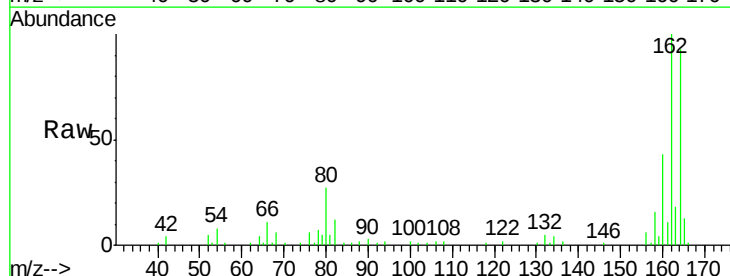
Instrument :
 BNA_F
 ClientSampled :

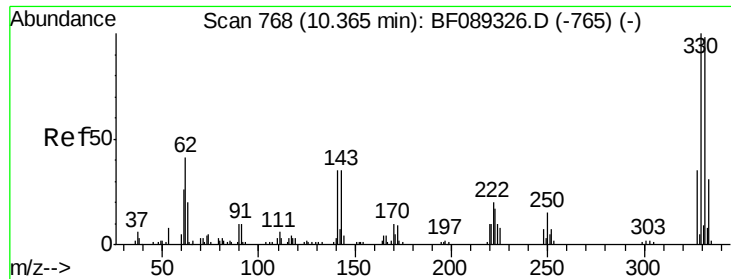
Tot Ion: 82 Resp: 37634
 Ion Ratio Lower Upper
 82 100
 128 32.6 32.5 48.7
 54 52.5 38.8 58.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.52 min Scan# 694
 Delta R.T. -0.06 min
 Lab File: BF089502.D
 Acq: 1 Aug 2016 9:13

Tgt Ion: 164 Resp: 62493
 Ion Ratio Lower Upper
 164 100
 162 107.7 83.7 125.5
 160 46.7 37.8 56.6

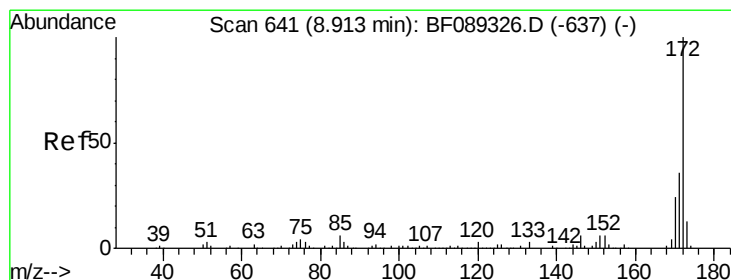
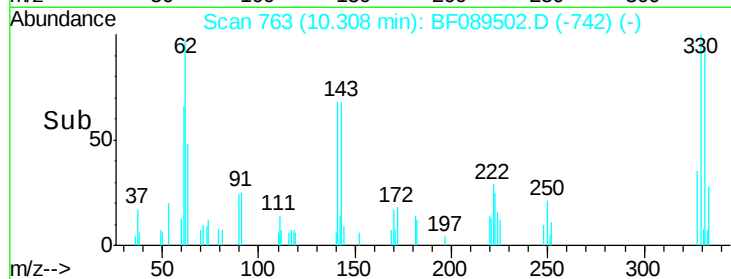
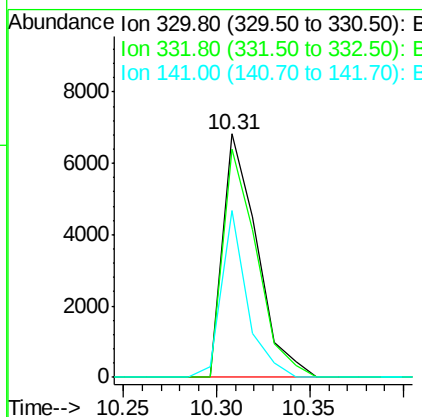
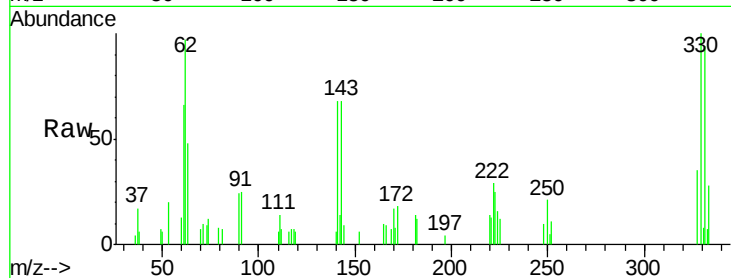




#41
 2,4,6-Tribromophenol
 Concen: 16.90 ng
 RT: 10.31 min Scan# 763
 Delta R.T. -0.06 min
 Lab File: BF089502.D
 Acq: 1 Aug 2016 9:13

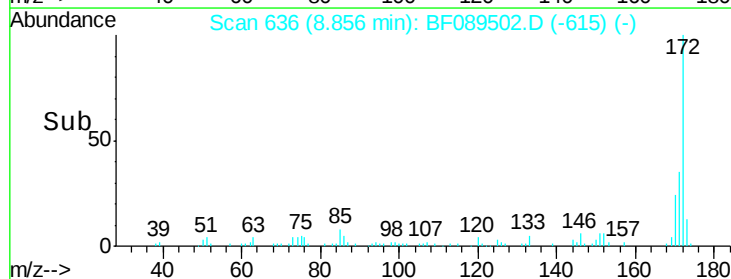
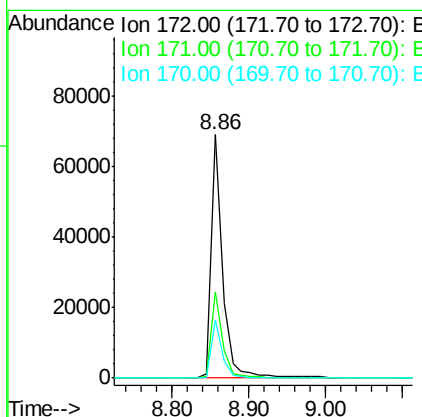
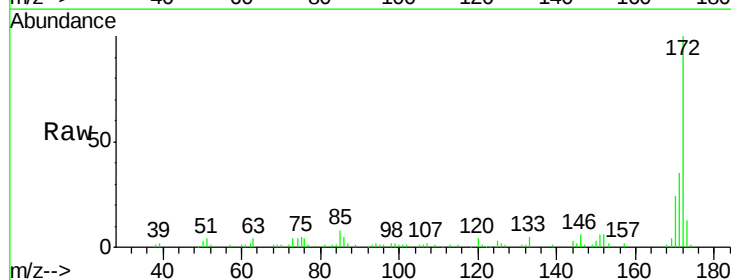
Instrument :
 BNA_F
 ClientSampleId :

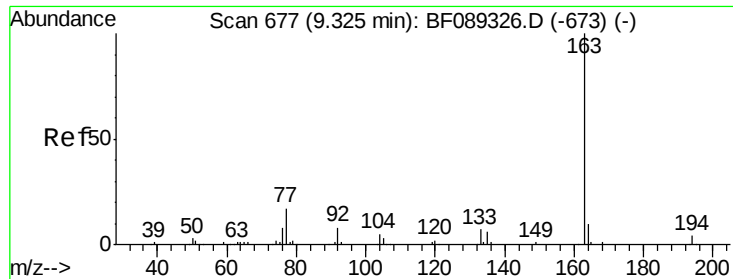
Tot Ion:330 Resp: 8745
 Ion Ratio Lower Upper
 330 100
 332 92.5 76.8 115.2
 141 51.9 37.3 55.9



#44
 2-Fluorobiphenyl
 Concen: 16.62 ng
 RT: 8.86 min Scan# 636
 Delta R.T. -0.06 min
 Lab File: BF089502.D
 Acq: 1 Aug 2016 9:13

Tgt Ion:172 Resp: 70789
 Ion Ratio Lower Upper
 172 100
 171 35.5 29.2 43.8
 170 23.6 19.2 28.8

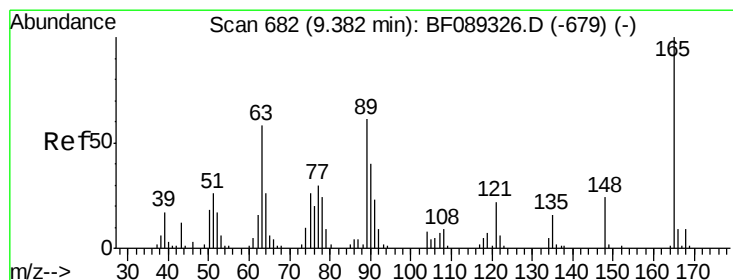
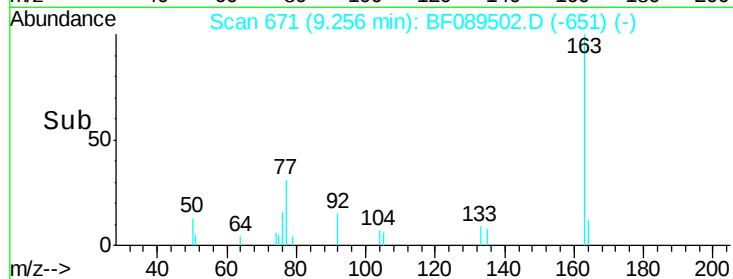
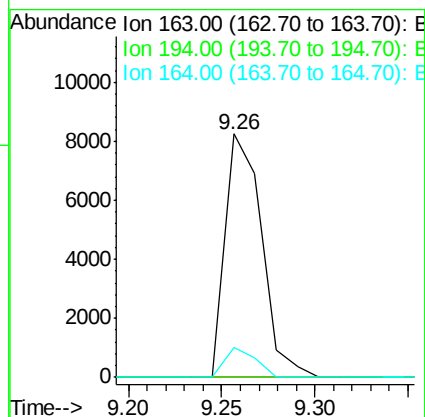
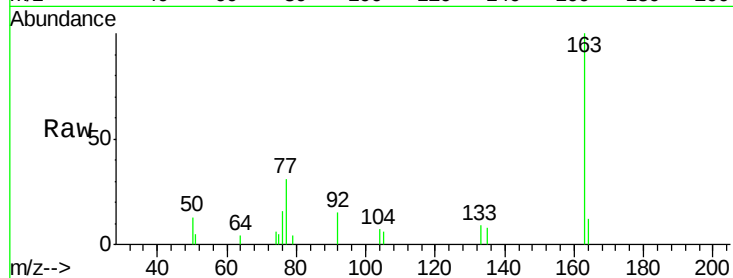




#49
Dimethylphthalate
Concen: 2.37 ng
RT: 9.26 min Scan# 671
Delta R.T. -0.07 min
Lab File: BF089502.D
Acq: 1 Aug 2016 9:13

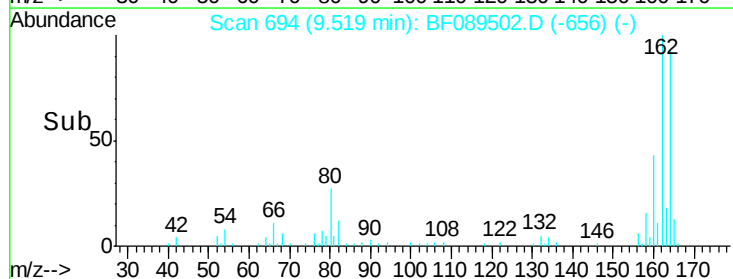
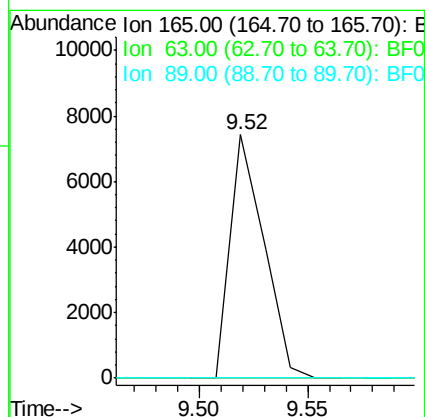
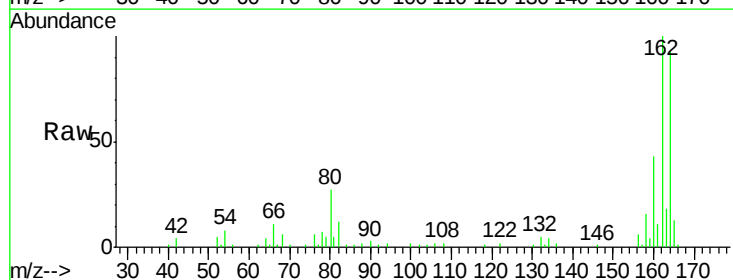
Instrument :
BNA_F
ClientSampled :

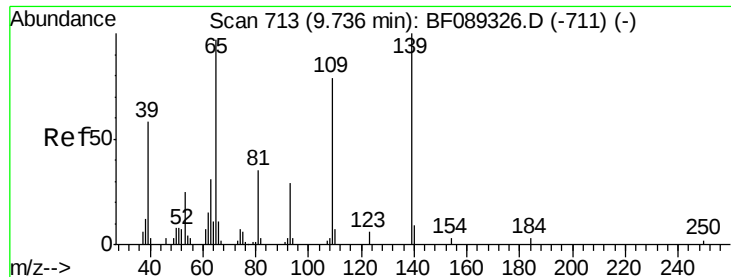
Tot Ion:163 Resp: 11265
Ion Ratio Lower Upper
163 100
194 0.0 2.8 4.2#
164 12.4 7.8 11.8#



#50
2,6-Dinitrotoluene
Concen: 8.17 ng
RT: 9.52 min Scan# 694
Delta R.T. 0.14 min
Lab File: BF089502.D
Acq: 1 Aug 2016 9:13

Tgt Ion:165 Resp: 7988
Ion Ratio Lower Upper
165 100
63 0.0 43.5 65.3#
89 0.0 45.0 67.4#

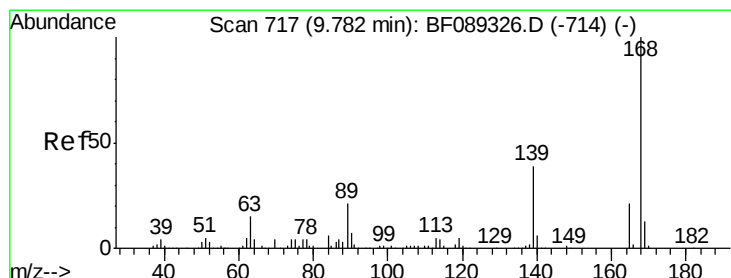
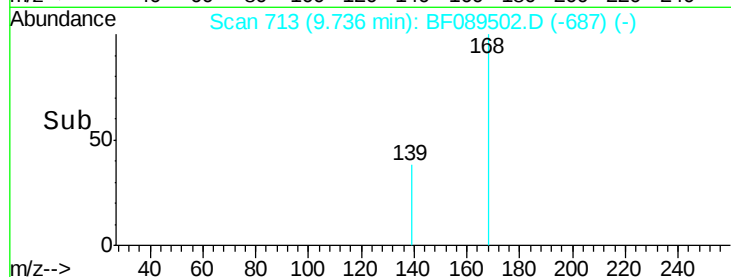
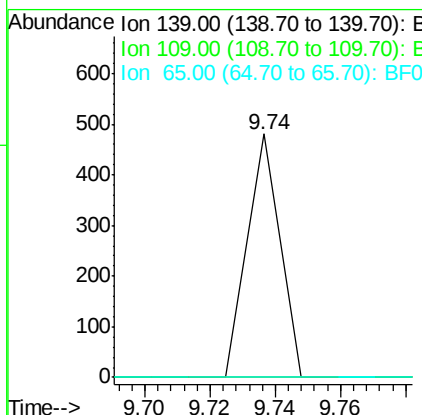
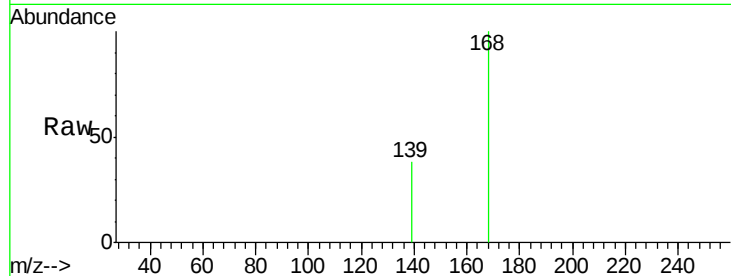




#55
4-Nitrophenol
Concen: 6.79 ng
RT: 9.74 min Scan# 713
Delta R.T. 0.00 min
Lab File: BF089502.D
Acq: 1 Aug 2016 9:13

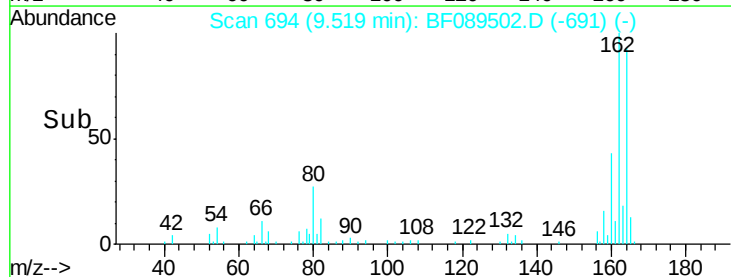
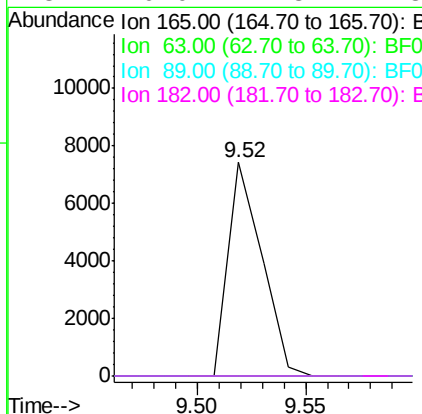
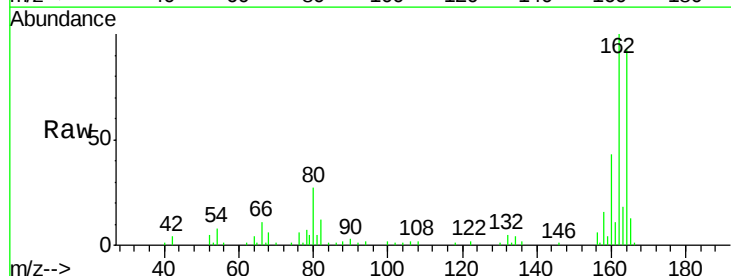
Instrument :
BNA_F
ClientSampleId :

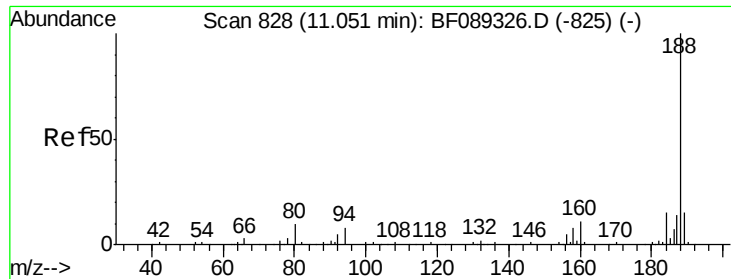
Tot Ion:139 Resp: 330
Ion Ratio Lower Upper
139 100
109 0.0 57.8 97.8#
65 0.0 81.7 121.7#



#56
2,4-Dinitrotoluene
Concen: 6.21 ng
RT: 9.52 min Scan# 694
Delta R.T. -0.26 min
Lab File: BF089502.D
Acq: 1 Aug 2016 9:13

Tgt Ion:165 Resp: 7988
Ion Ratio Lower Upper
165 100
63 0.0 58.2 87.2#
89 0.0 79.1 118.7#
182 0.0 1.8 2.8#

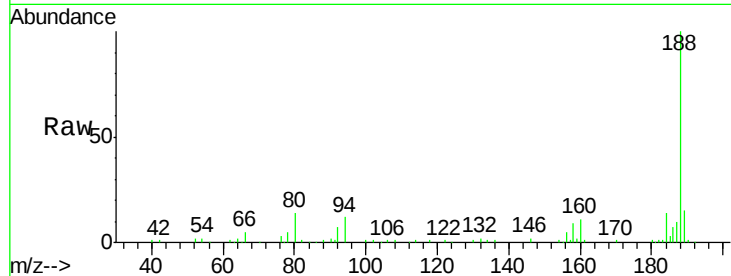




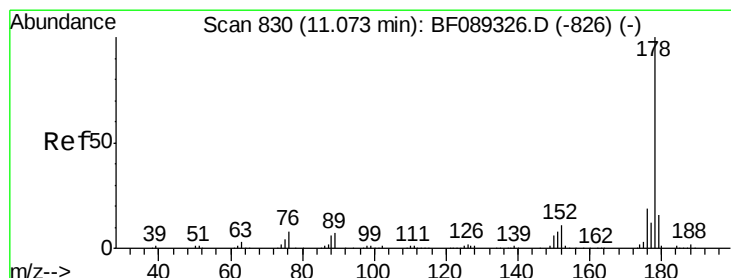
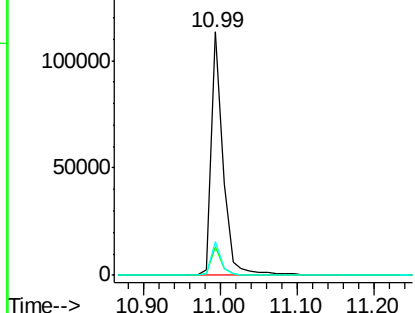
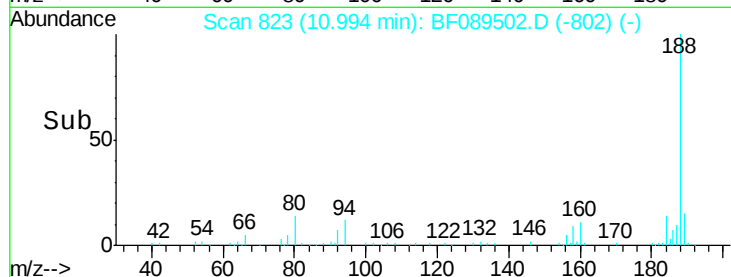
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 10.99 min Scan# 823
Delta R.T. -0.06 min
Lab File: BF089502.D
Acq: 1 Aug 2016 9:13

Instrument :
BNA_F
ClientSampled :

Tot Ion:188 Resp: 120383
Ion Ratio Lower Upper
188 100
94 11.6 6.5 9.7#
80 13.6 7.2 10.8#

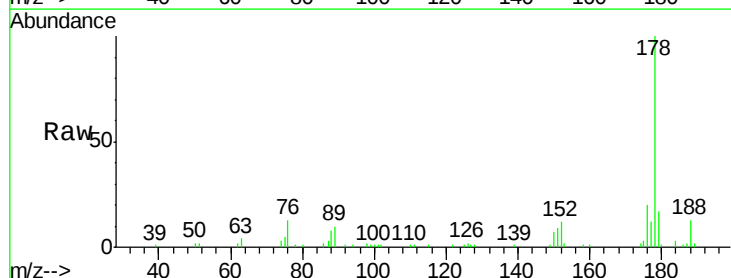


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

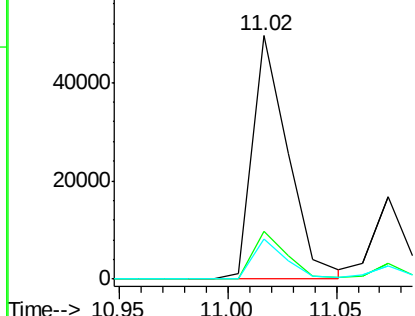
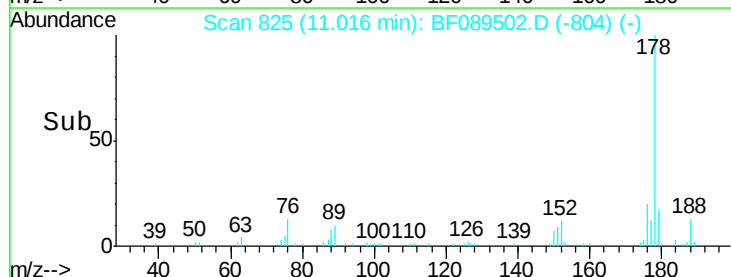


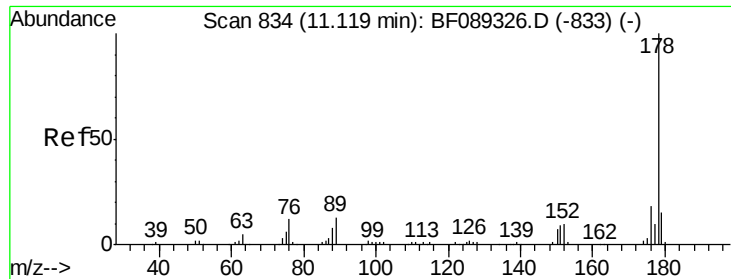
#70
Phenanthrene
Concen: 9.05 ng
RT: 11.02 min Scan# 825
Delta R.T. -0.06 min
Lab File: BF089502.D
Acq: 1 Aug 2016 9:13

Tgt Ion:178 Resp: 56199
Ion Ratio Lower Upper
178 100
176 19.5 15.5 23.3
179 16.6 12.3 18.5



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

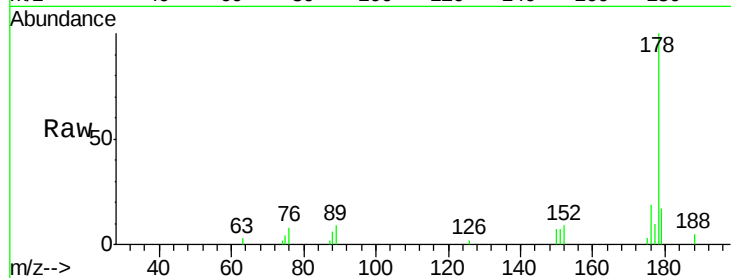




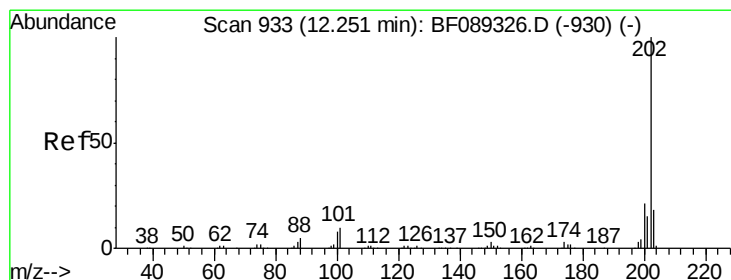
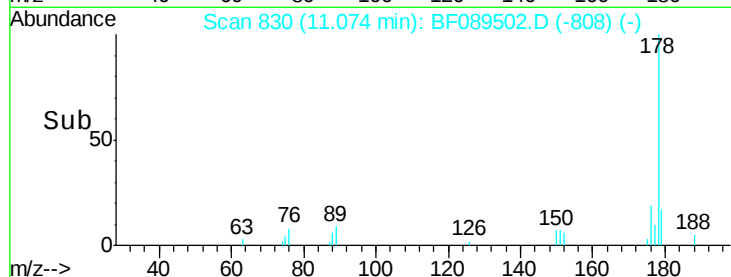
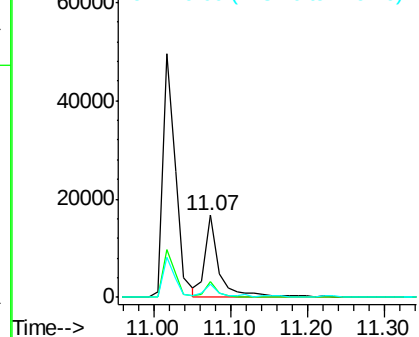
#71
 Anthracene
 Concen: 3.19 ng
 RT: 11.07 min Scan# 830
 Delta R.T. -0.05 min
 Lab File: BF089502.D
 Acq: 1 Aug 2016 9:13

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 22040
 Ion Ratio Lower Upper
 178 100
 176 19.3 14.8 22.2
 179 16.8 12.6 18.8

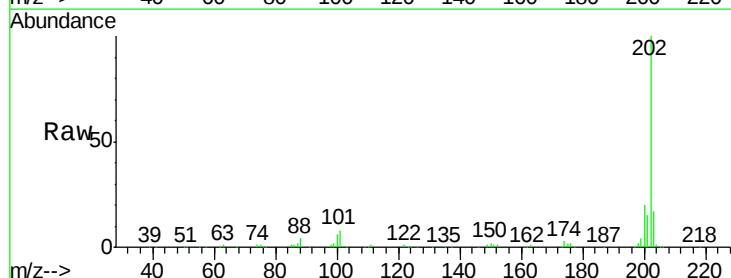


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

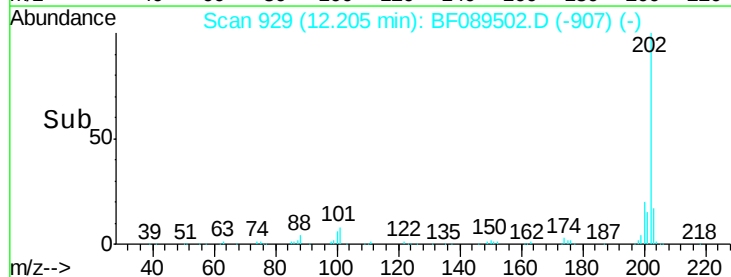
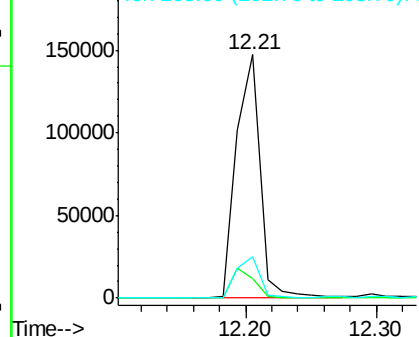


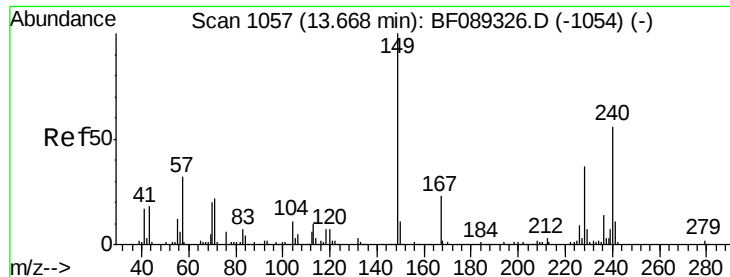
#74
 Fluoranthene
 Concen: 28.49 ng
 RT: 12.21 min Scan# 929
 Delta R.T. -0.05 min
 Lab File: BF089502.D
 Acq: 1 Aug 2016 9:13

Tgt Ion:202 Resp: 186057
 Ion Ratio Lower Upper
 202 100
 101 8.2 0.0 29.9
 203 17.1 0.0 37.3



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: 13.62 min Scan# 1053

Delta R.T. -0.05 min

Lab File: BF089502.D

Acq: 1 Aug 2016 9:13

Instrument :

BNA_F

ClientSampleId :

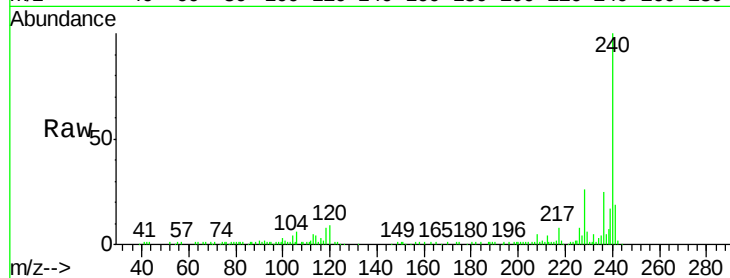
Tot Ion:240 Resp: 92539

Ion Ratio Lower Upper

240 100

120 9.2 9.1 13.7

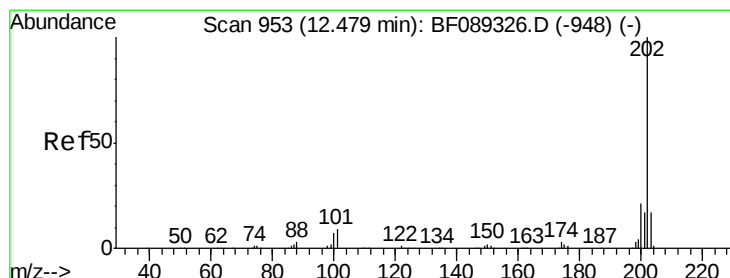
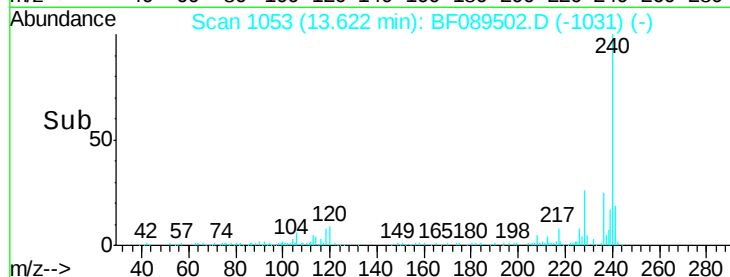
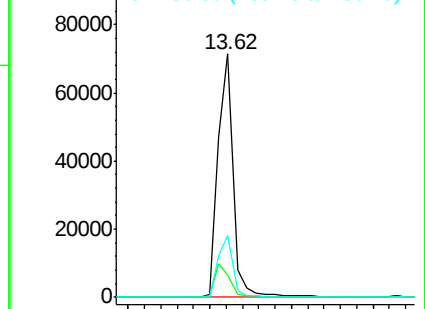
236 25.4 20.6 30.8



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: 22.67 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.05 min

Lab File: BF089502.D

Acq: 1 Aug 2016 9:13

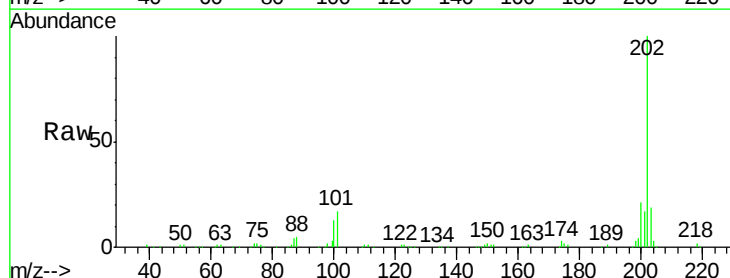
Tgt Ion:202 Resp: 159001

Ion Ratio Lower Upper

202 100

200 21.0 16.9 25.3

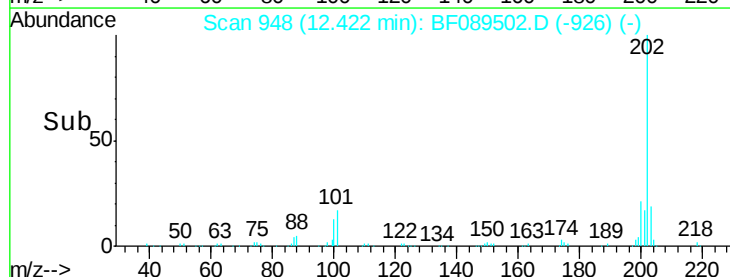
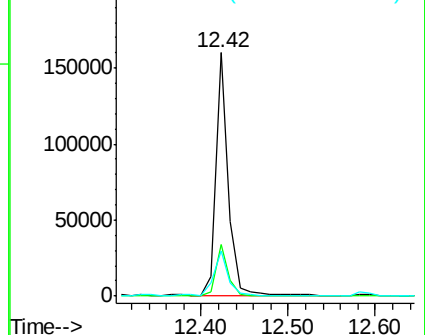
203 18.6 14.0 21.0

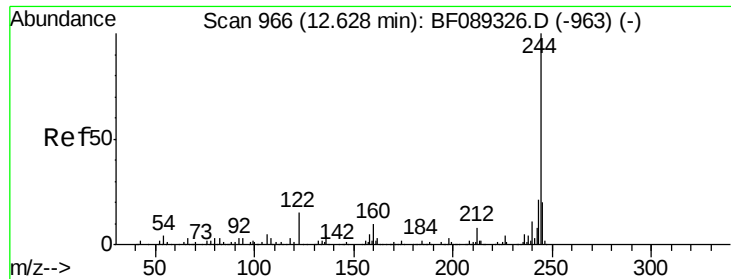


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 13.61 ng

RT: 12.58 min Scan# 962

Delta R.T. -0.05 min

Lab File: BF089502.D

Acq: 1 Aug 2016 9:13

Instrument :

BNA_F

ClientSampled :

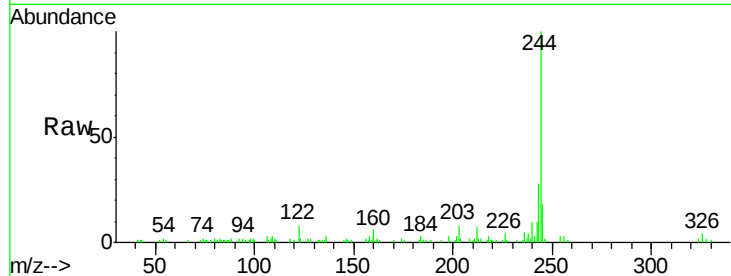
Tot Ion:244 Resp: 53806

Ion Ratio Lower Upper

244 100

212 7.3 6.5 9.7

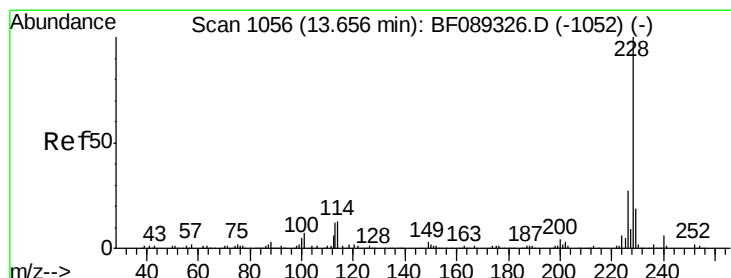
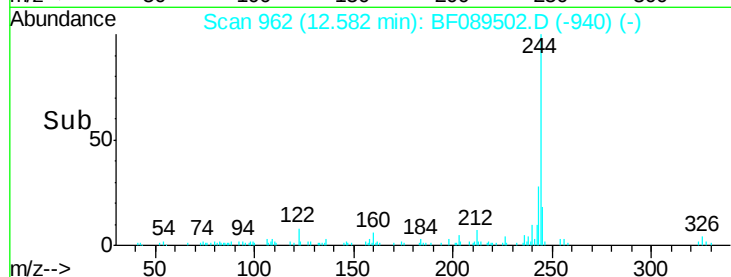
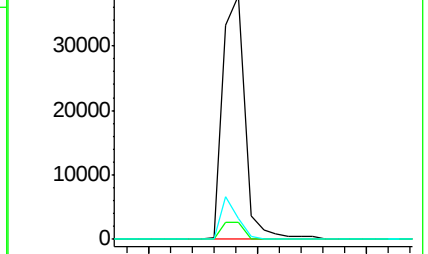
122 8.4 11.4 17.0#



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: 18.80 ng

RT: 13.61 min Scan# 1052

Delta R.T. -0.05 min

Lab File: BF089502.D

Acq: 1 Aug 2016 9:13

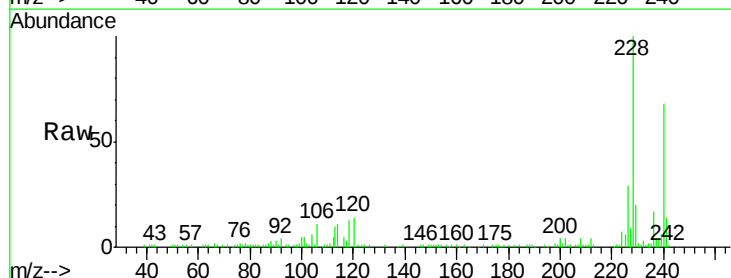
Tgt Ion:228 Resp: 98177

Ion Ratio Lower Upper

228 100

226 28.5 21.4 32.2

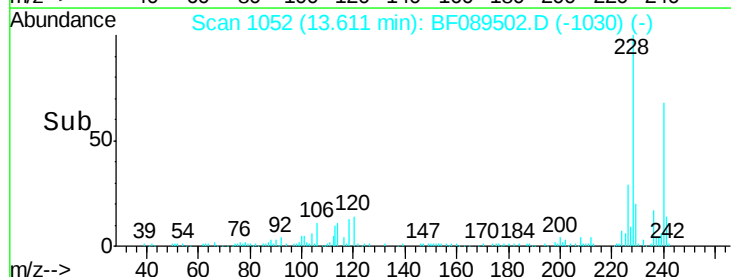
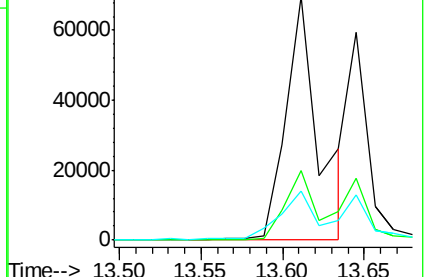
229 20.3 15.9 23.9

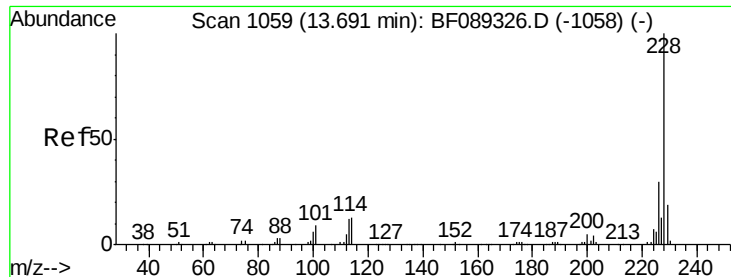


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 17.66 ng

RT: 13.61 min Scan# 1052

Delta R.T. -0.08 min

Lab File: BF089502.D

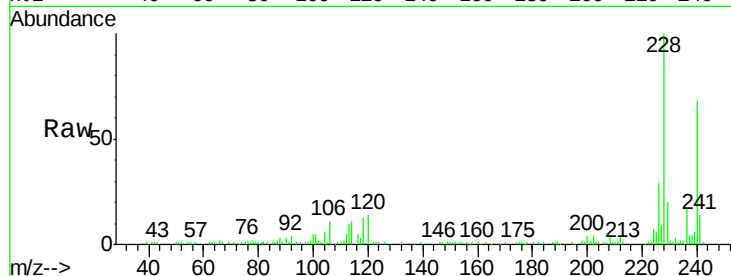
Acq: 1 Aug 2016 9:13

Instrument :

BNA_F

ClientSampled :

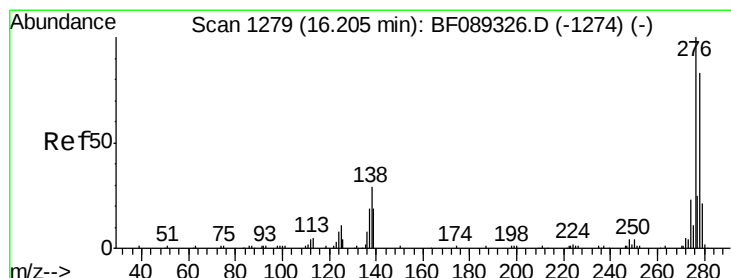
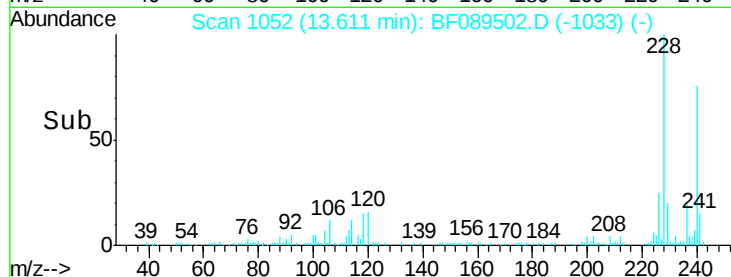
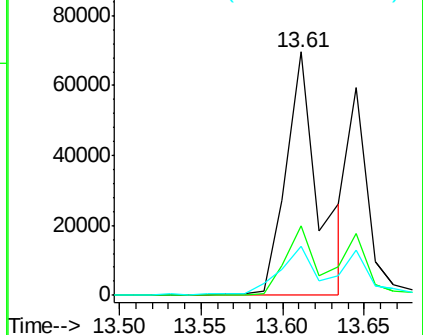
Tot Ion:228	Resp:	98177
Ion Ratio	Lower	Upper
228	100	
226	28.5	24.2 36.2
229	20.3	15.9 23.9



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: 9.23 ng

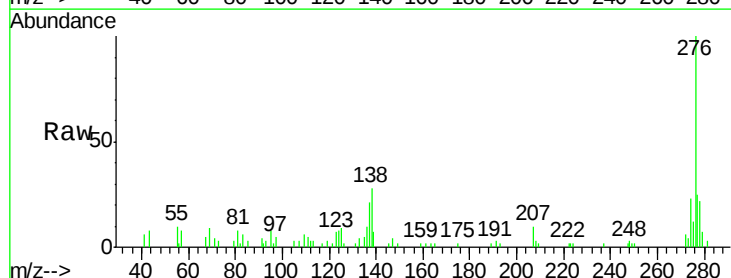
RT: 16.13 min Scan# 1272

Delta R.T. -0.08 min

Lab File: BF089502.D

Acq: 1 Aug 2016 9:13

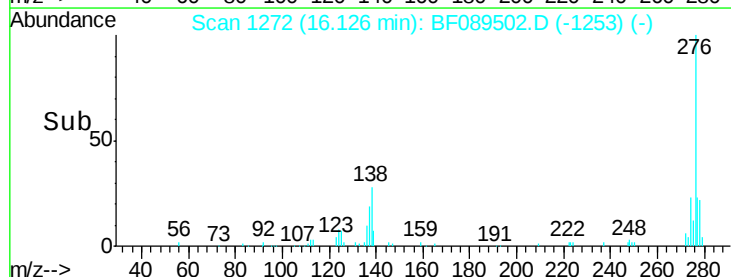
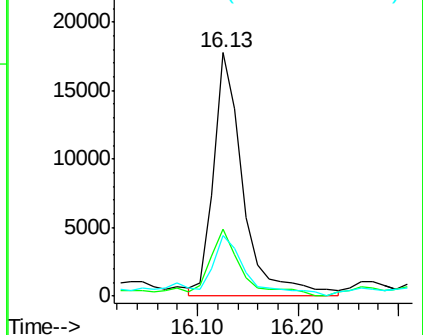
Tgt Ion:276	Resp:	36462
Ion Ratio	Lower	Upper
276	100	
138	31.6	23.0 34.4
277	34.3	20.2 30.4#

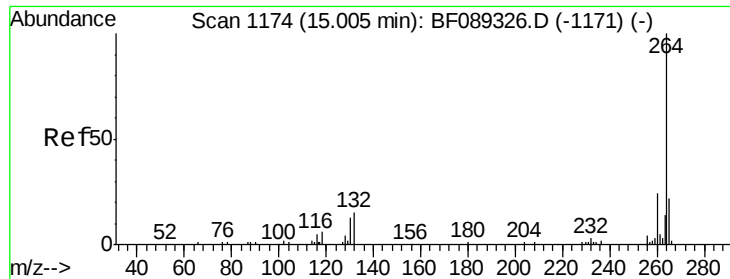


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

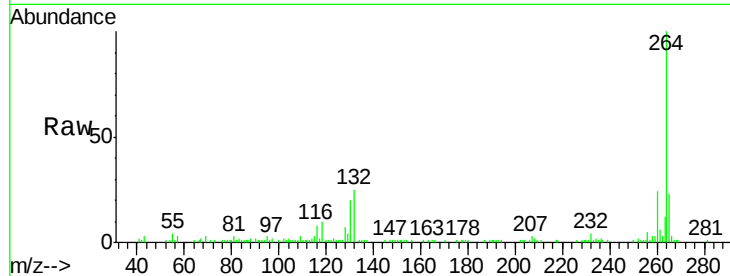




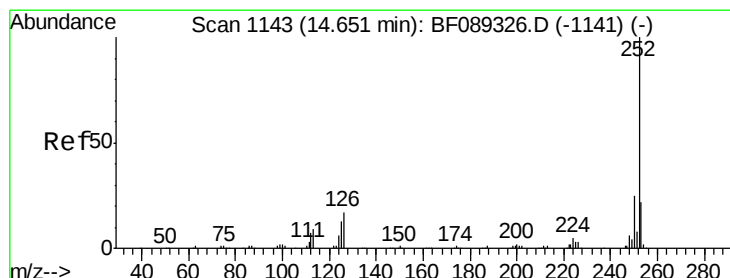
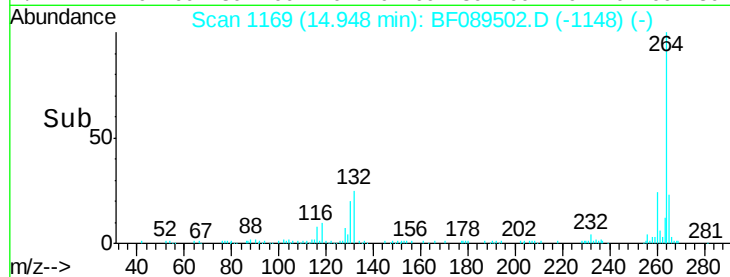
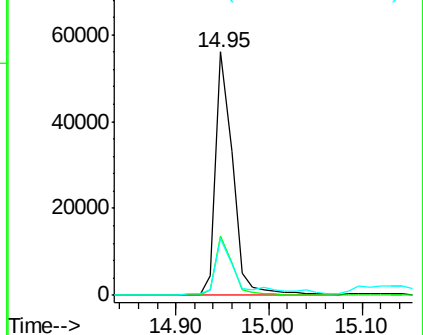
#86
 Pervlene-d12
 Concen: 20.00 ng
 RT: 14.95 min Scan# 1169
 Delta R.T. -0.06 min
 Lab File: BF089502.D
 Acq: 1 Aug 2016 9:13

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:264 Resp: 72230
 Ion Ratio Lower Upper
 264 100
 260 24.1 19.0 28.4
 265 23.3 17.5 26.3

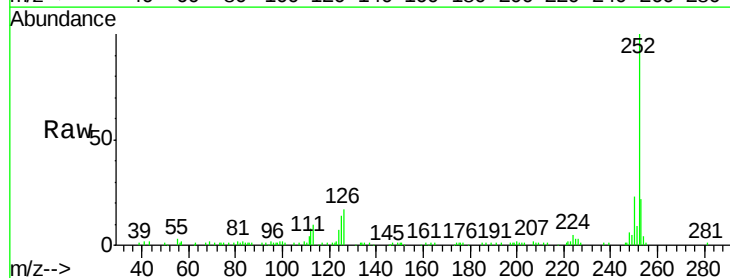


Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

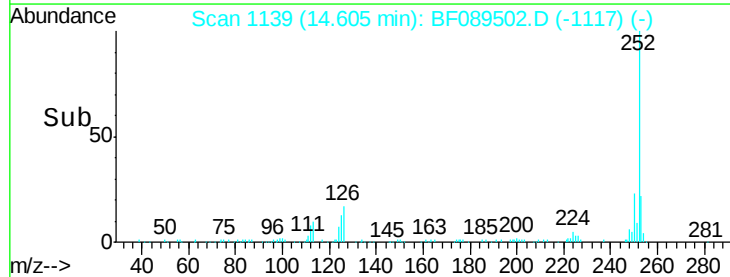
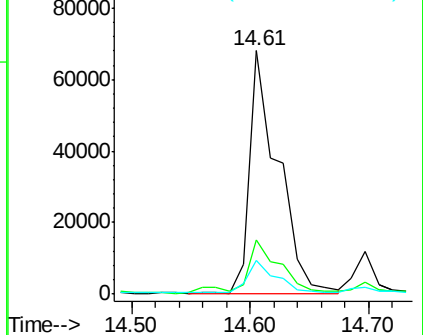


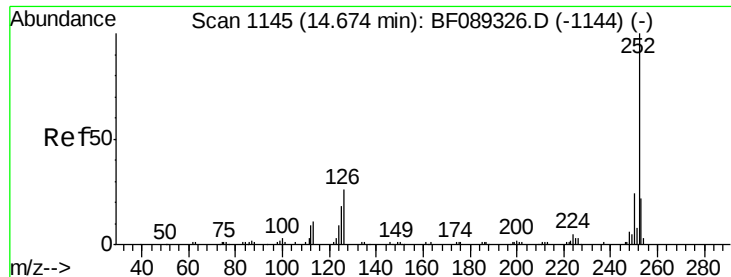
#87
 Benzo(b)fluoranthene
 Concen: 25.64 ng
 RT: 14.61 min Scan# 1139
 Delta R.T. -0.05 min
 Lab File: BF089502.D
 Acq: 1 Aug 2016 9:13

Tgt Ion:252 Resp: 115017
 Ion Ratio Lower Upper
 252 100
 253 22.4 17.2 25.8
 125 13.8 9.7 14.5



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

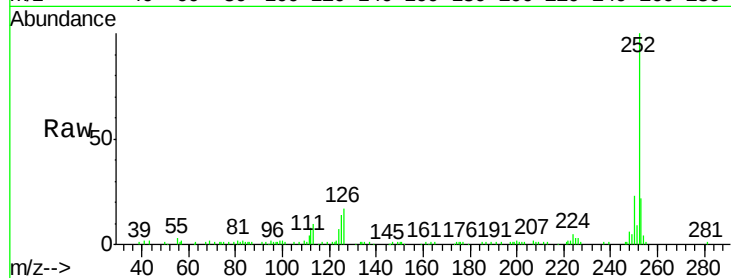




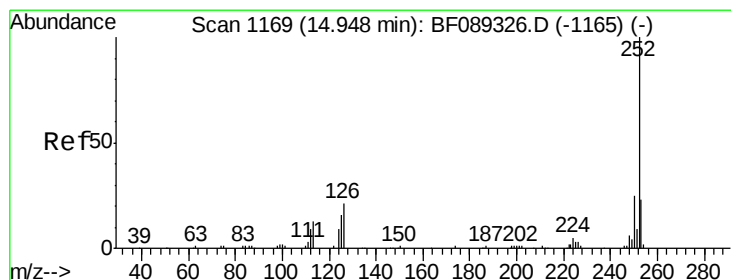
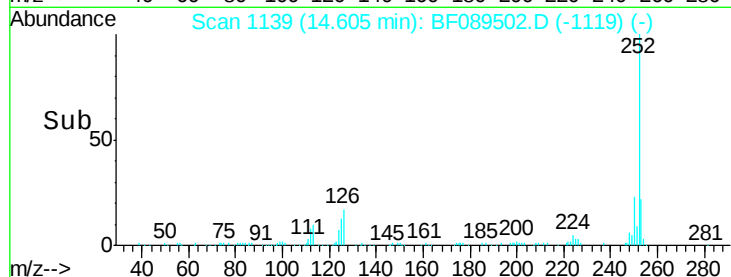
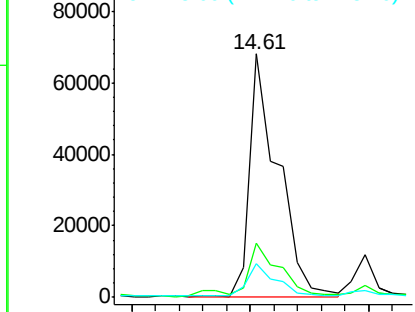
#88
Benzo(k)fluoranthene
Concen: 27.89 ng
RT: 14.61 min Scan# 1139
Delta R.T. -0.07 min
Lab File: BF089502.D
Acq: 1 Aug 2016 9:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 115017
Ion Ratio Lower Upper
252 100
253 22.4 17.8 26.8
125 13.8 10.7 16.1

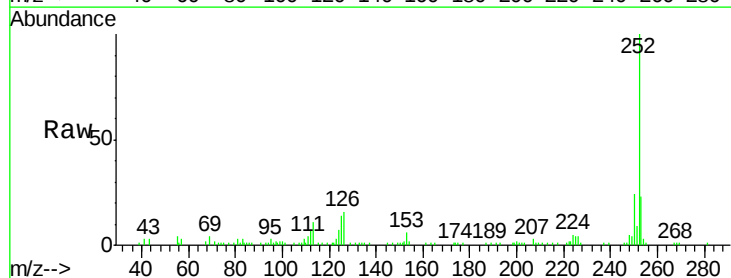


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

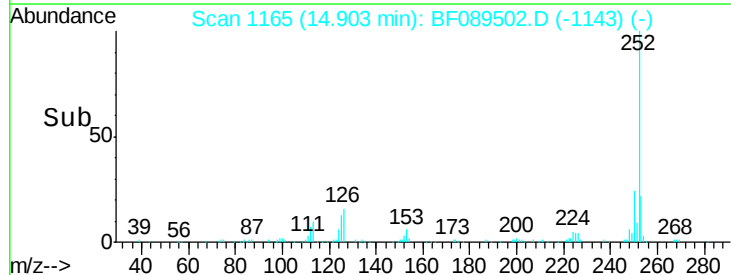
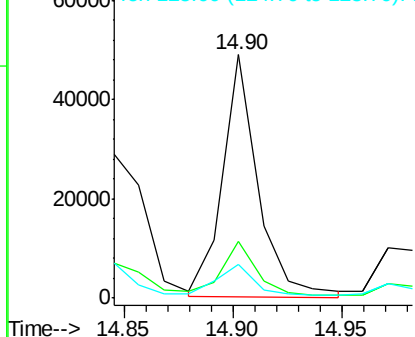


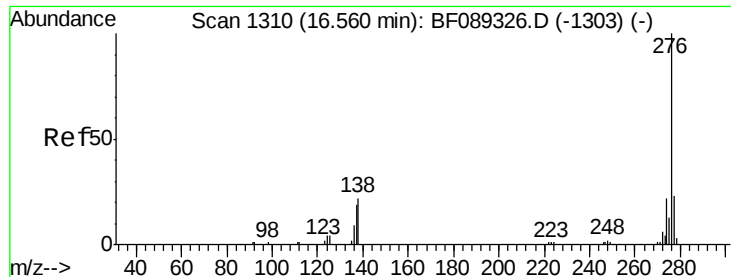
#89
Benzo(a)pyrene
Concen: 13.75 ng
RT: 14.90 min Scan# 1165
Delta R.T. -0.05 min
Lab File: BF089502.D
Acq: 1 Aug 2016 9:13

Tgt Ion:252 Resp: 55344
Ion Ratio Lower Upper
252 100
253 23.3 17.4 26.2
125 13.7 12.4 18.6



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

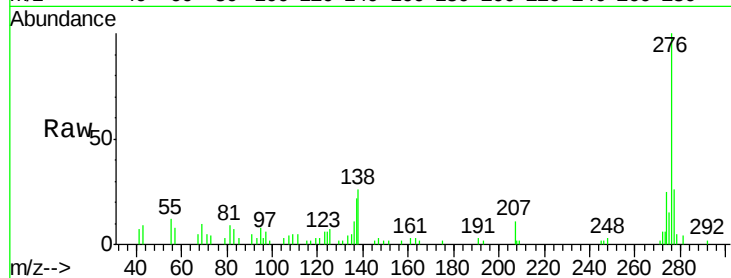




#91
 Benzo(a,h,i)perylene
 Concen: 10.53 ng
 RT: 16.48 min Scan# 1303
 Delta R.T. -0.07 min
 Lab File: BF089502.D
 Acq: 1 Aug 2016 9:13

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.9	18.6	28.0
138	26.1	21.4	32.0



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

