

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073116\
 Data File : BF089500.D
 Acq On : 1 Aug 2016 7:29
 Operator : UM/SJ
 Sample : H4205-17DL 5X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 01 07:58:26 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	45727	20.00	ng	-0.06
21) Naphthalene-d8	7.78	136	178183	20.00	ng	-0.05
38) Acenaphthene-d10	9.52	164	65134	20.00	ng	-0.06
63) Phenanthrene-d10	10.99	188	108092	20.00	ng	-0.06
75) Chrysene-d12	13.62	240	87214	20.00	ng	-0.05
86) Perylene-d12	14.95	264	72499	20.00	ng	-0.06

System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	75414	26.33	ng	-0.05
7) Phenol-d6	6.16	99	98393	26.00	ng	-0.05
23) Nitrobenzene-d5	7.06	82	60325	19.98	ng	-0.06
41) 2,4,6-Tribromophenol	10.31	330	12773	23.68	ng	-0.06
44) 2-Fluorobiphenyl	8.86	172	103616	23.35	ng	-0.06
78) Terphenyl-d14	12.58	244	64527	17.32	ng	-0.05

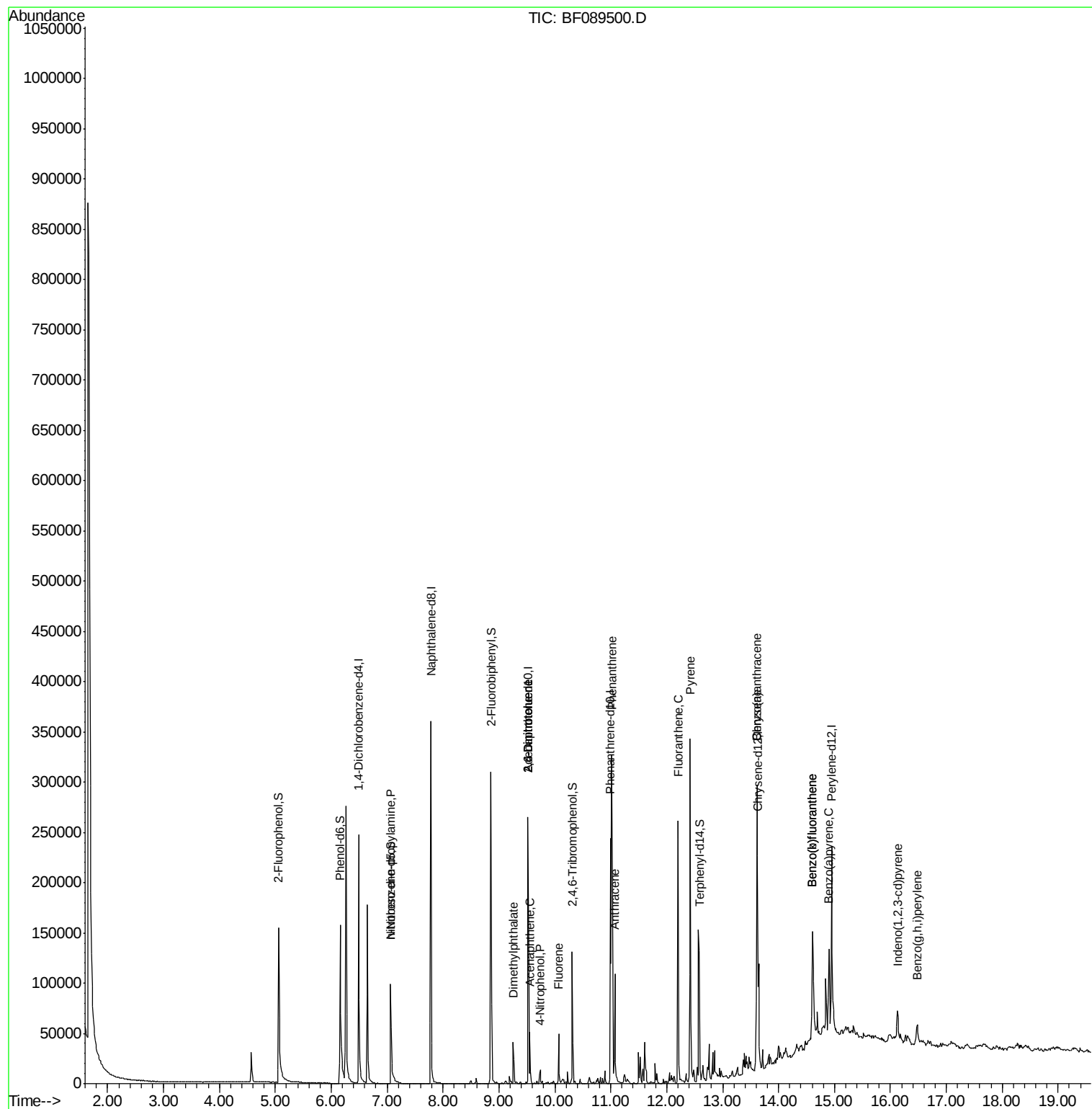
Target Compounds				Qvalue		
2) 1,4-Dioxane	1.99	88	634	Below Cal	#	26
19) n-Nitroso-di-n-propylamine	7.06	70	7286	3.19	ng	82
49) Dimethylphthalate	9.26	163	22162	4.47	ng	98
50) 2,6-Dinitrotoluene	9.52	165	8081	7.93	ng	24
51) Acenaphthene	9.55	154	11427	2.98	ng	97
55) 4-Nitrophenol	9.74	139	3830	12.93	ng	# 4
56) 2,4-Dinitrotoluene	9.52	165	8081	6.03	ng	# 7
57) Fluorene	10.07	166	15078	3.31	ng	# 97
70) Phenanthrene	11.02	178	152041	27.27	ng	99
71) Anthracene	11.07	178	58857	9.50	ng	99
74) Fluoranthene	12.21	202	168363	28.71	ng	98
77) Pyrene	12.42	202	136549	20.66	ng	98
80) Benzo(a)anthracene	13.61	228	66966	13.61	ng	97
82) Chrysene	13.61	228	66966	12.78	ng	98
85) Indeno(1,2,3-cd)pyrene	16.13	276	19037	5.11	ng	# 87
87) Benzo(b)fluoranthene	14.61	252	63910	14.19	ng	# 96
88) Benzo(k)fluoranthene	14.61	252	63910	15.44	ng	98
89) Benzo(a)pyrene	14.90	252	33624	8.33	ng	96
91) Benzo(a,h,i)perylene	16.48	276	16732	5.35	ng	96

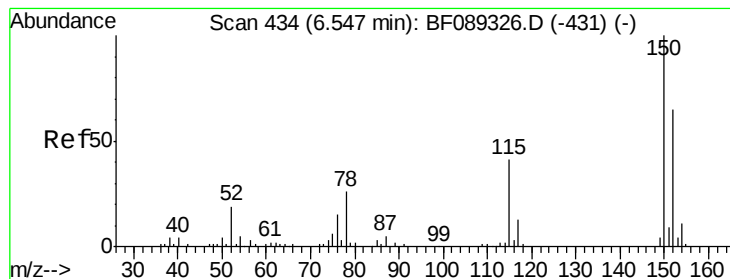
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073116\
Data File : BF089500.D
Acq On : 1 Aug 2016 7:29
Operator : UM/SJ
Sample : H4205-17DL 5X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :

Quant Time: Aug 01 07:58:26 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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.49 min Scan# 429

Delta R.T. -0.06 min

Lab File: BF089500.D

Acq: 1 Aug 2016 7:29

Instrument :

BNA_F

ClientSampled :

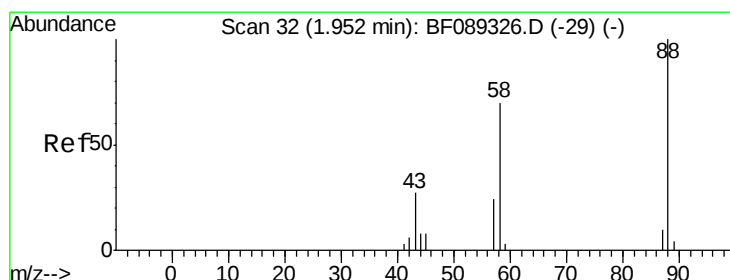
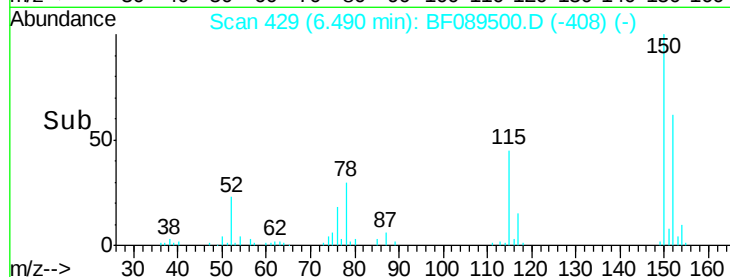
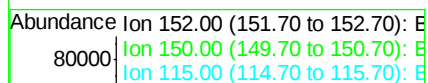
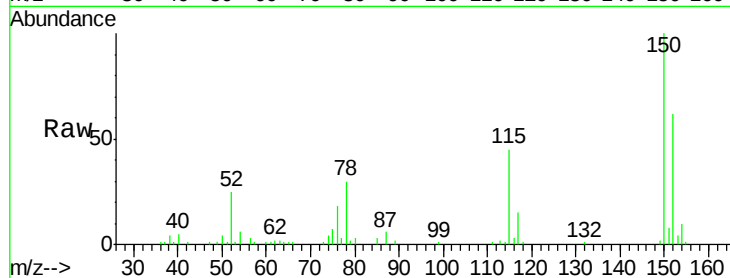
Tot Ion:152 Resp: 45727

Ion Ratio Lower Upper

152 100

150 160.4 129.5 194.3

115 72.3 51.4 77.2



#2

1,4-Dioxane

Concen: Below Cal

RT: 1.99 min Scan# 35

Delta R.T. 0.03 min

Lab File: BF089500.D

Acq: 1 Aug 2016 7:29

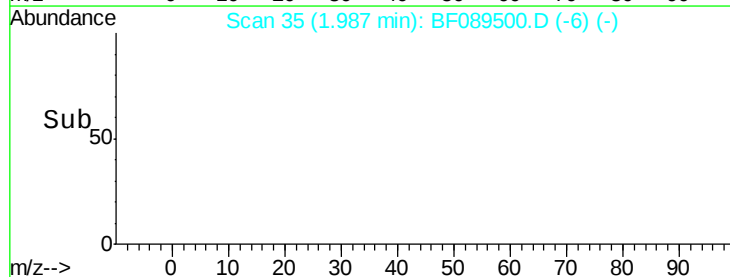
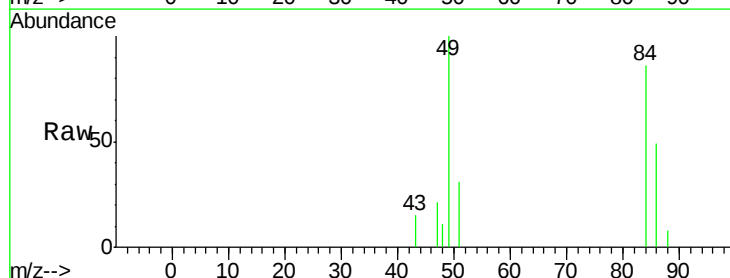
Tgt Ion: 88 Resp: 634

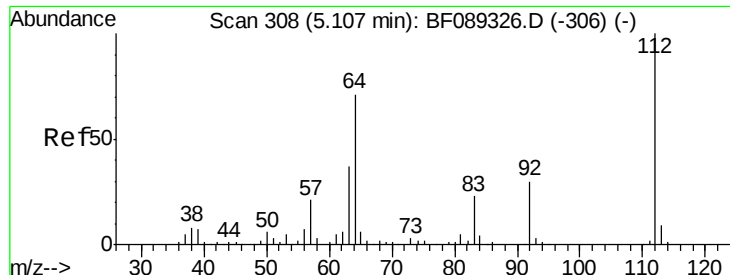
Ion Ratio Lower Upper

88 100

58 0.0 53.2 79.8#

43 0.0 20.6 31.0#





#5

2-Fluorophenol

Concen: 26.33 ng

RT: 5.06 min Scan# 304

Delta R.T. -0.05 min

Lab File: BF089500.D

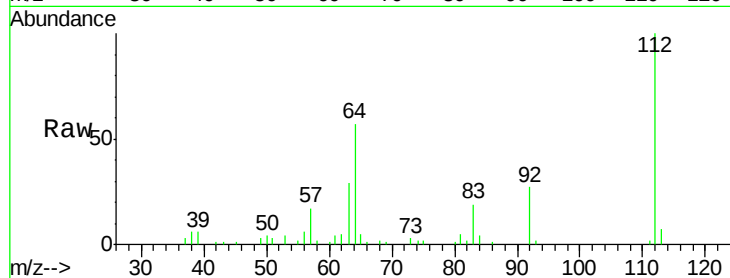
Acq: 1 Aug 2016 7:29

Instrument :

BNA_F

ClientSampled :

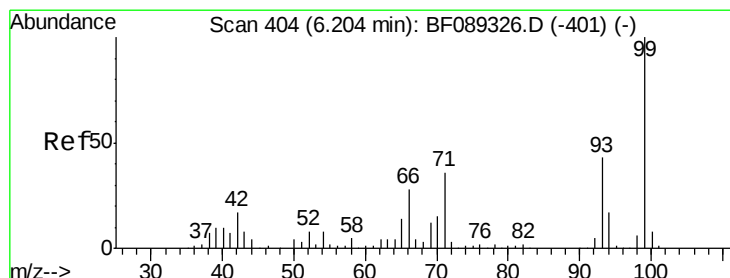
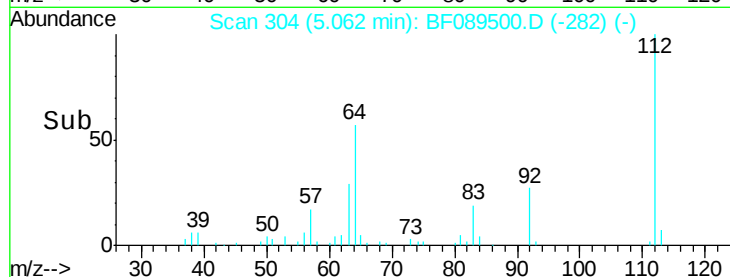
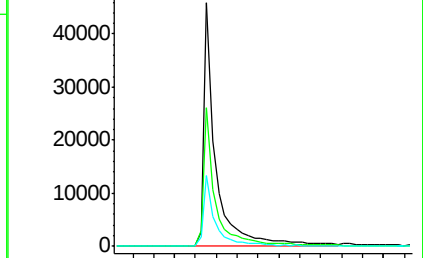
Tot Ion:	112	Resp:	75414
Ion	Ratio	Lower	Upper
112	100		
64	56.8	55.0	82.6
63	29.2	29.4	44.2#



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: 26.00 ng

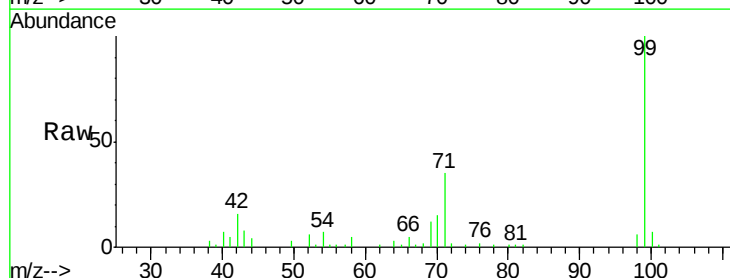
RT: 6.16 min Scan# 400

Delta R.T. -0.05 min

Lab File: BF089500.D

Acq: 1 Aug 2016 7:29

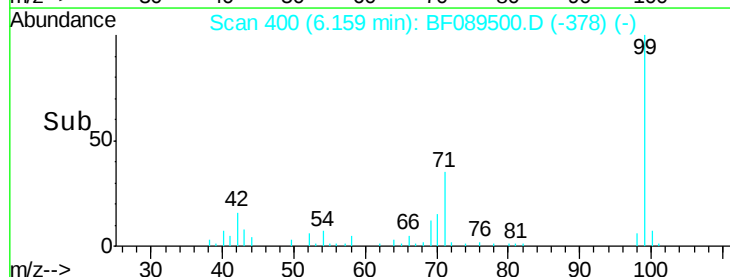
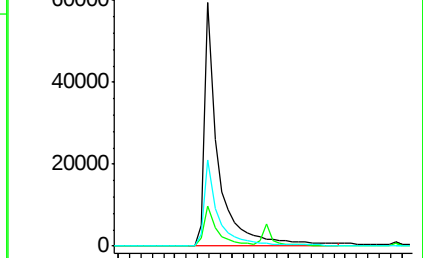
Tgt Ion:	99	Resp:	98393
Ion	Ratio	Lower	Upper
99	100		
42	16.4	13.6	20.4
71	35.5	29.4	44.2

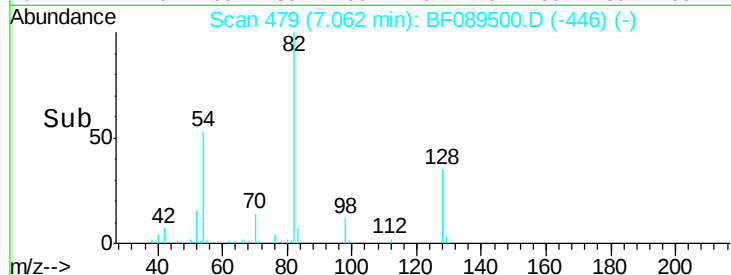
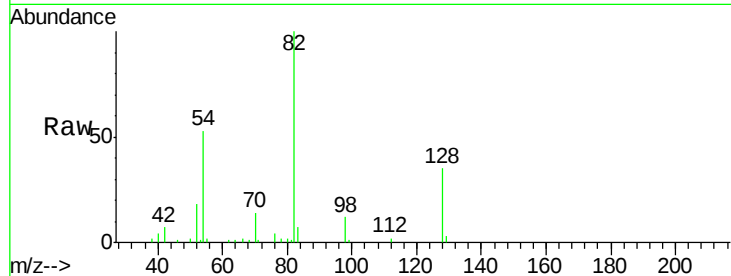
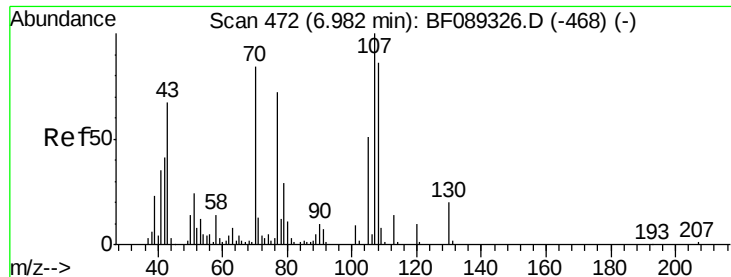


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

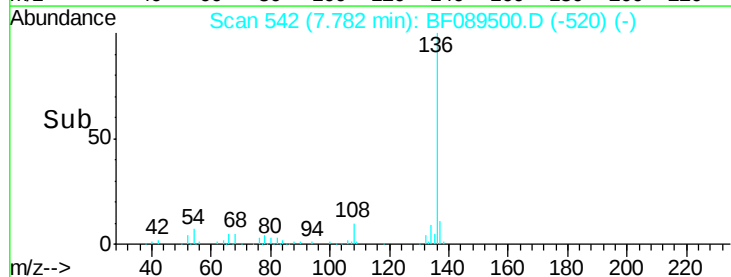
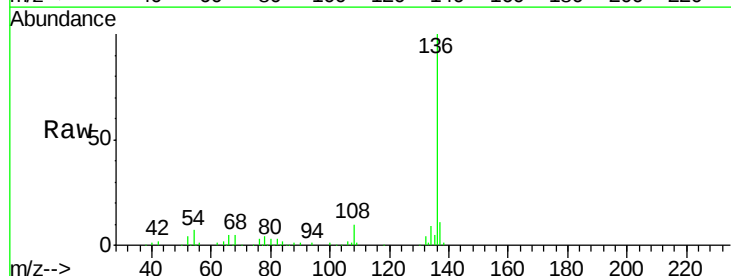
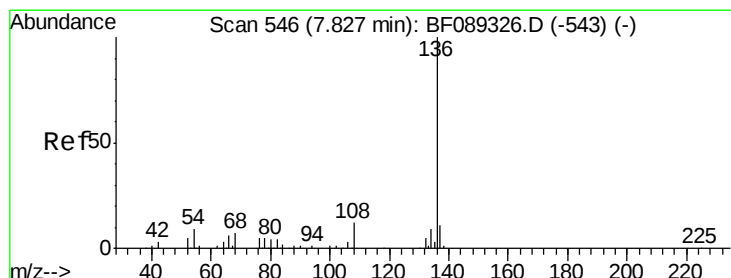
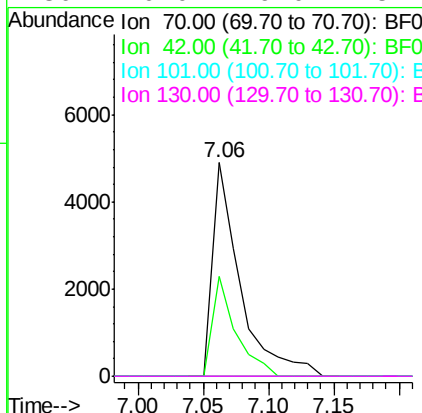




#19
n-Nitroso-di-n-propylamine
Concen: 3.19 ng
RT: 7.06 min Scan# 479
Delta R.T. 0.08 min
Lab File: BF089500.D
Acq: 1 Aug 2016 7:29

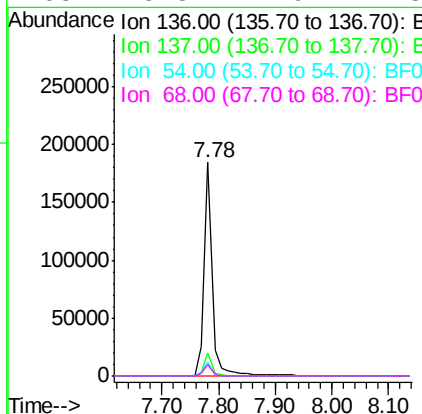
Instrument :
BNA_F
ClientSampleId :

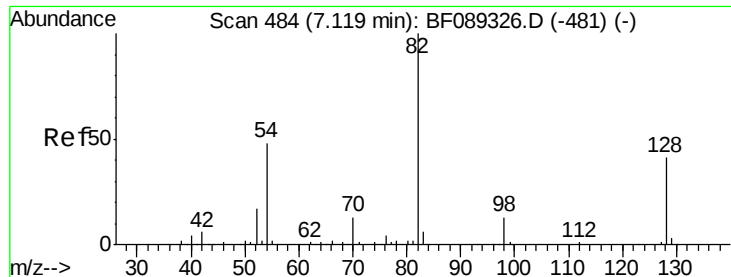
Tot Ion: 70 Resp: 7286
Ion Ratio Lower Upper
70 100
42 47.0 38.6 57.8
101 0.0 8.3 12.5#
130 0.0 19.0 28.4#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.78 min Scan# 542
Delta R.T. -0.05 min
Lab File: BF089500.D
Acq: 1 Aug 2016 7:29

Tgt Ion: 136 Resp: 178183
Ion Ratio Lower Upper
136 100
137 10.6 8.6 13.0
54 6.5 7.0 10.4#
68 5.3 4.9 7.3

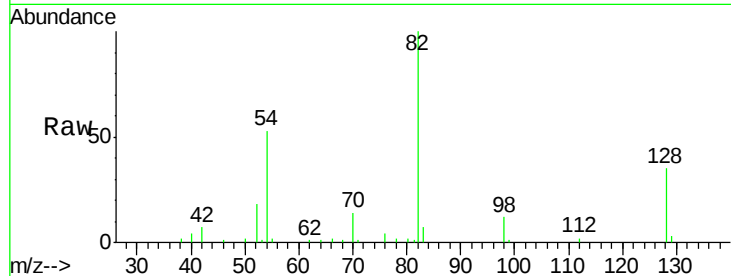




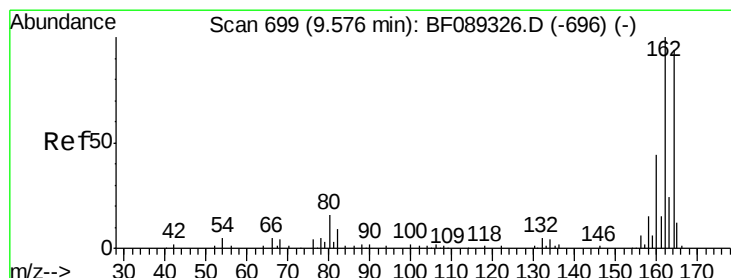
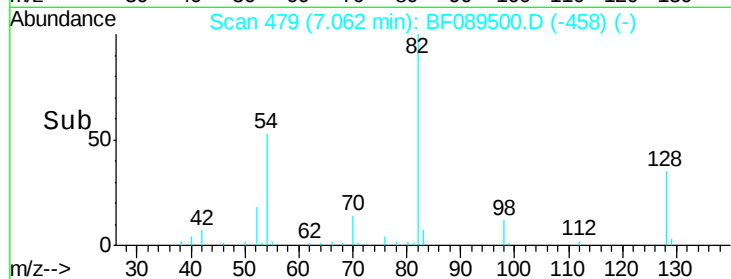
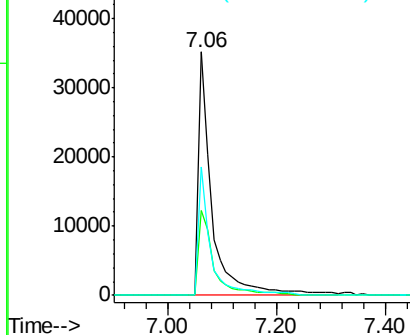
#23
 Nitrobenzene-d5
 Concen: 19.98 ng
 RT: 7.06 min Scan# 479
 Delta R.T. -0.06 min
 Lab File: BF089500.D
 Acq: 1 Aug 2016 7:29

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	82	Resp	60325
Ion Ratio	100	Lower	Upper
128	35.1	32.5	48.7
54	52.9	38.8	58.2

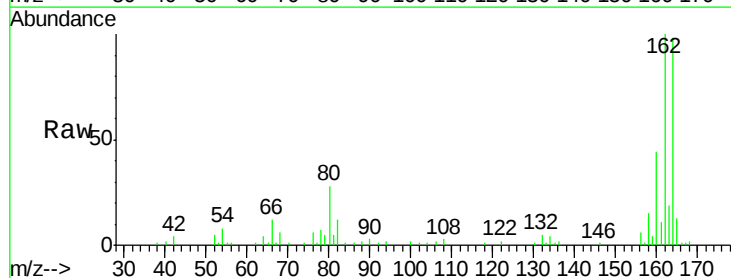


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

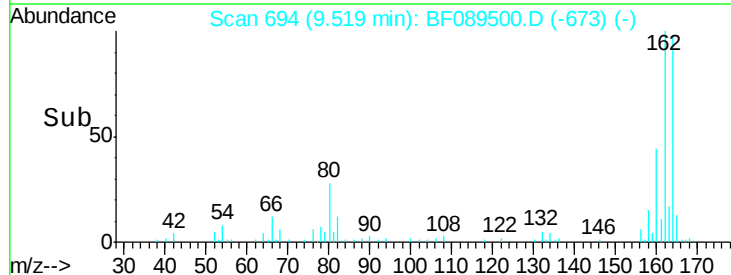
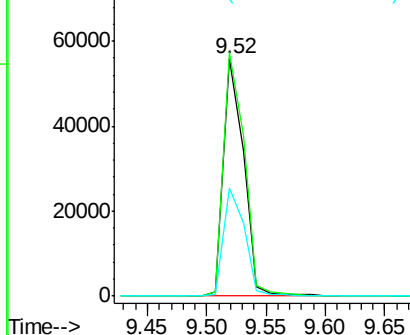


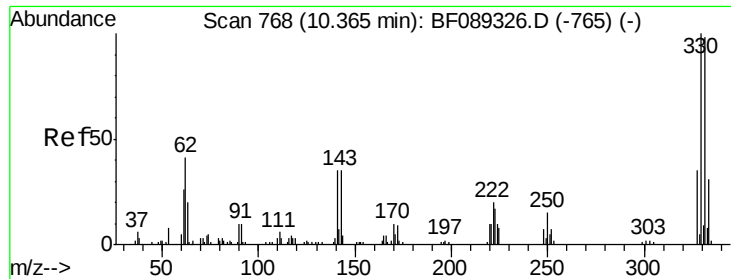
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.52 min Scan# 694
 Delta R.T. -0.06 min
 Lab File: BF089500.D
 Acq: 1 Aug 2016 7:29

Tgt Ion	164	Resp	65134
Ion Ratio	100	Lower	Upper
162	102.5	83.7	125.5
160	45.5	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

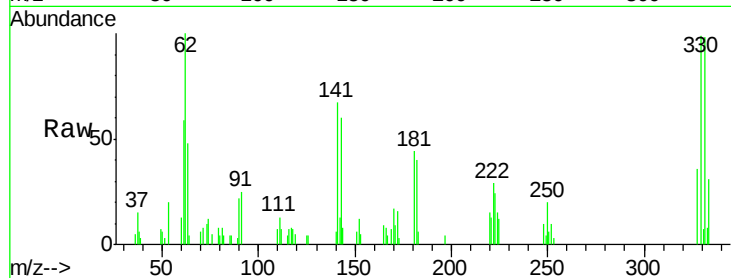




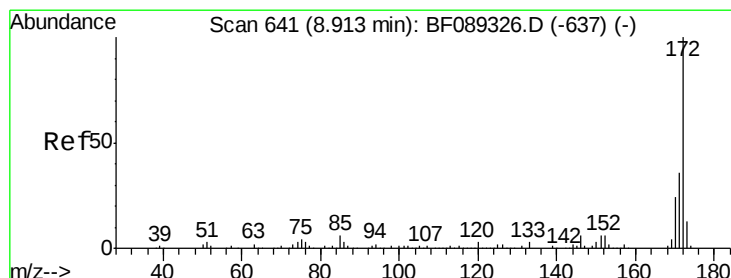
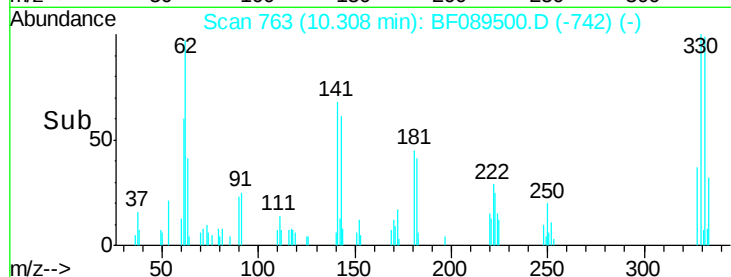
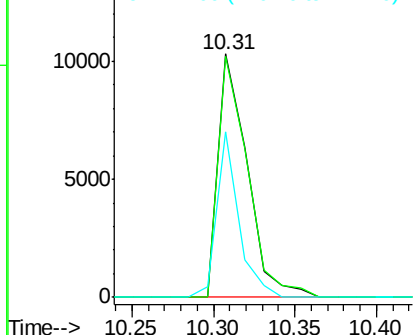
#41
 2,4,6-Tribromophenol
 Concen: 23.68 ng
 RT: 10.31 min Scan# 763
 Delta R.T. -0.06 min
 Lab File: BF089500.D
 Acq: 1 Aug 2016 7:29

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 12773
 Ion Ratio Lower Upper
 330 100
 332 99.4 76.8 115.2
 141 51.5 37.3 55.9

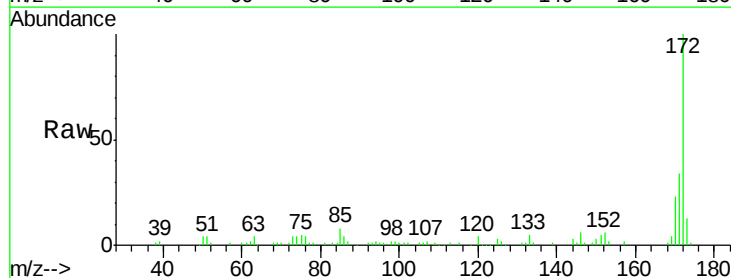


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

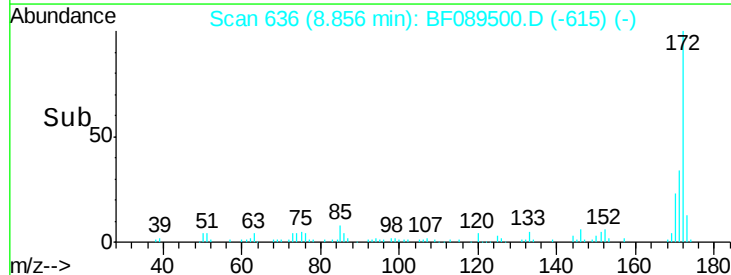
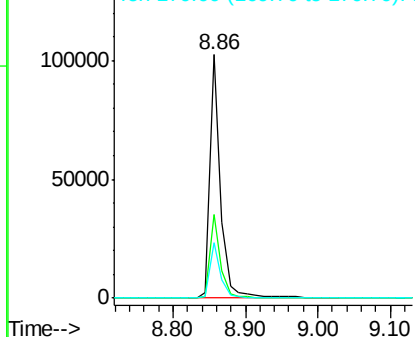


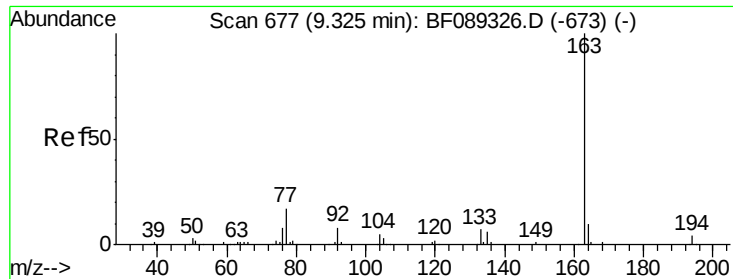
#44
 2-Fluorobiphenyl
 Concen: 23.35 ng
 RT: 8.86 min Scan# 636
 Delta R.T. -0.06 min
 Lab File: BF089500.D
 Acq: 1 Aug 2016 7:29

Tgt Ion:172 Resp: 103616
 Ion Ratio Lower Upper
 172 100
 171 34.4 29.2 43.8
 170 22.6 19.2 28.8



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

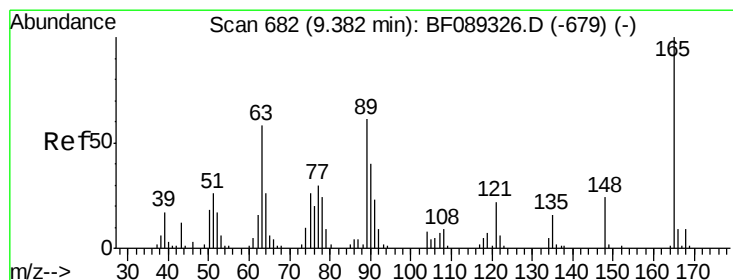
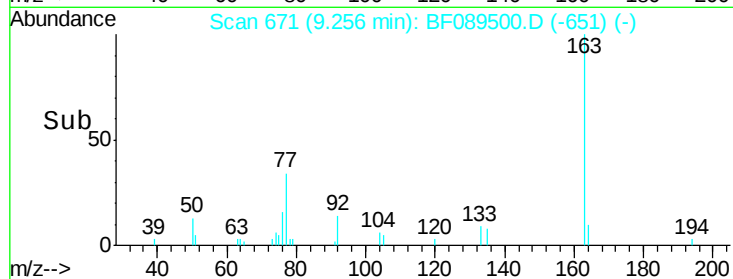
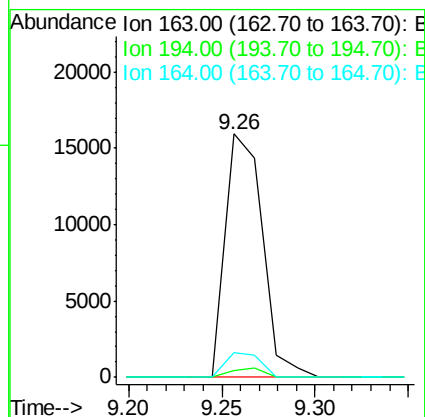
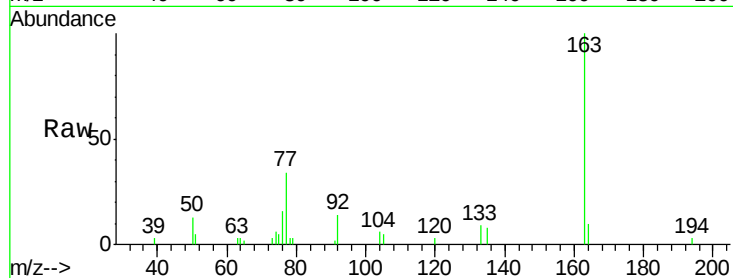




#49
Dimethylphthalate
Concen: 4.47 ng
RT: 9.26 min Scan# 671
Delta R.T. -0.07 min
Lab File: BF089500.D
Acq: 1 Aug 2016 7:29

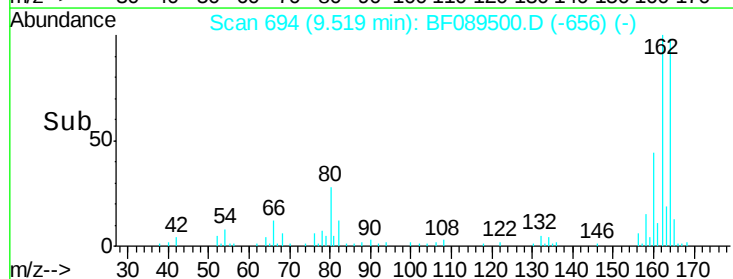
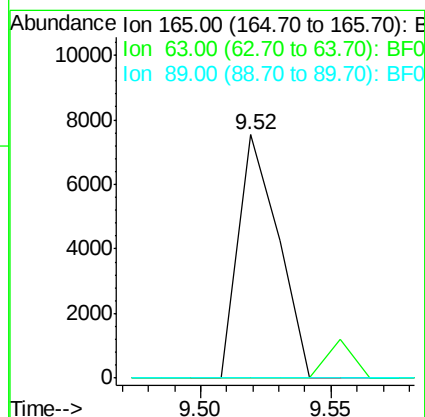
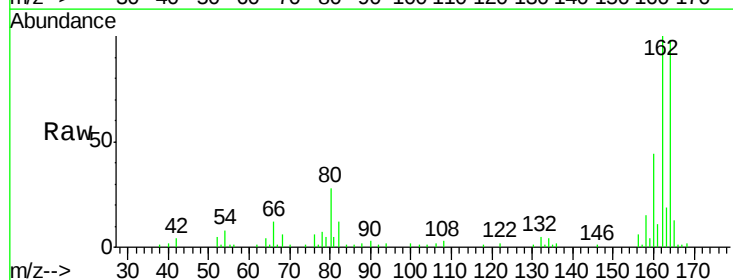
Instrument :
BNA_F
ClientSampleId :

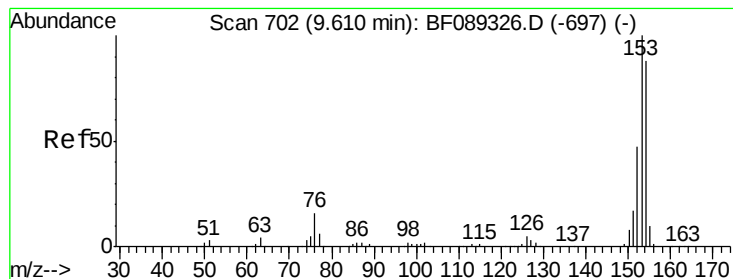
Tot Ion:163 Resp: 22162
Ion Ratio Lower Upper
163 100
194 2.7 2.8 4.2#
164 10.3 7.8 11.8



#50
2,6-Dinitrotoluene
Concen: 7.93 ng
RT: 9.52 min Scan# 694
Delta R.T. 0.14 min
Lab File: BF089500.D
Acq: 1 Aug 2016 7:29

Tgt Ion:165 Resp: 8081
Ion Ratio Lower Upper
165 100
63 0.0 43.5 65.3#
89 0.0 45.0 67.4#





#51

Acenaphthene

Concen: 2.98 ng

RT: 9.55 min Scan# 697

Delta R.T. -0.06 min

Lab File: BF089500.D

Acq: 1 Aug 2016 7:29

Instrument :

BNA_F

ClientSampleId :

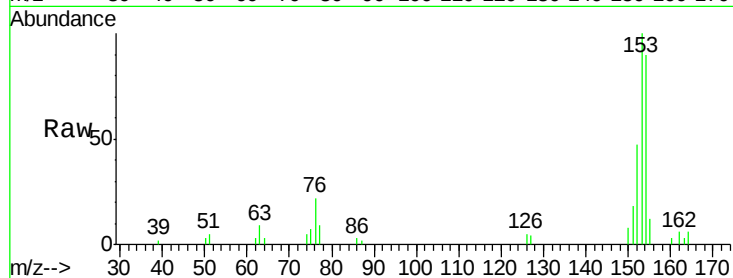
Tot Ion:154 Resp: 11427

Ion Ratio Lower Upper

154 100

153 111.3 91.4 137.2

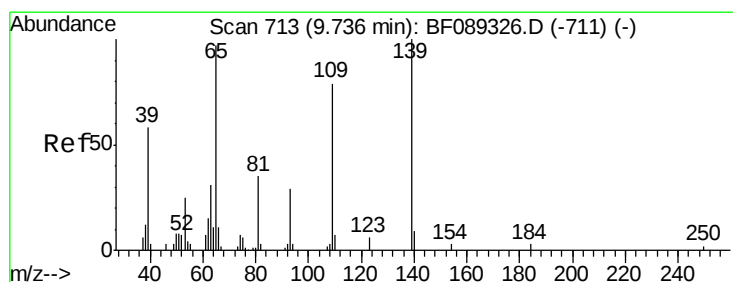
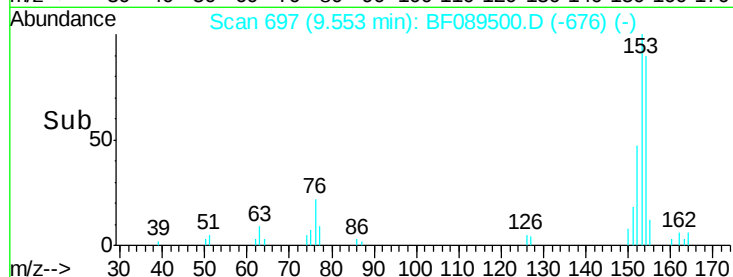
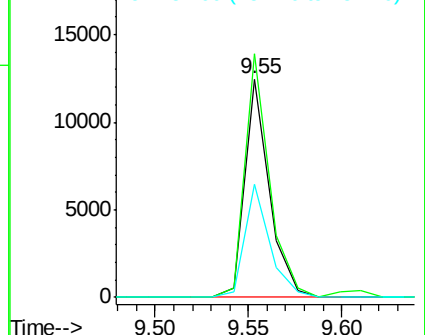
152 51.9 43.8 65.6



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

4-Nitrophenol

Concen: 12.93 ng

RT: 9.74 min Scan# 713

Delta R.T. 0.00 min

Lab File: BF089500.D

Acq: 1 Aug 2016 7:29

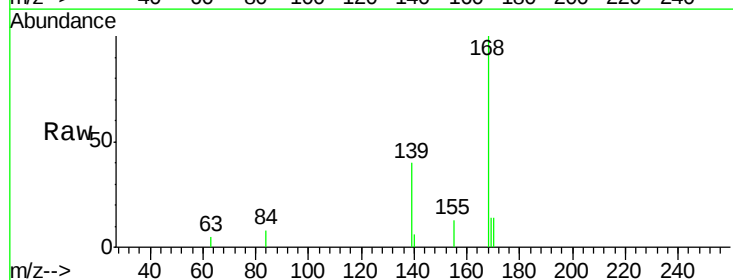
Tgt Ion:139 Resp: 3830

Ion Ratio Lower Upper

139 100

109 0.0 57.8 97.8#

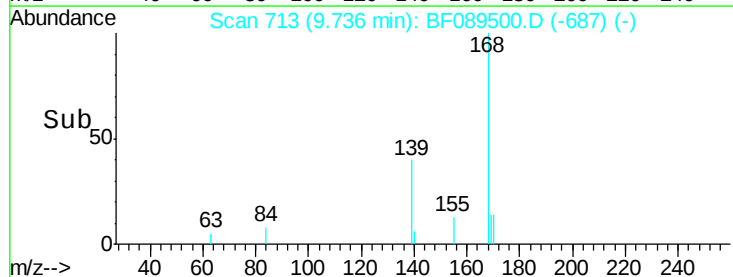
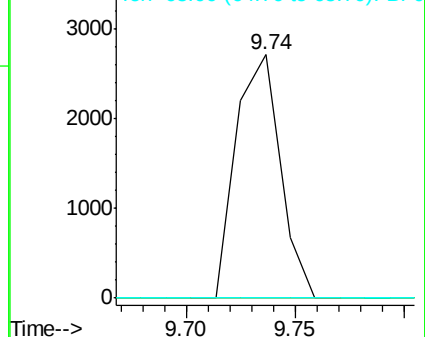
65 0.0 81.7 121.7#

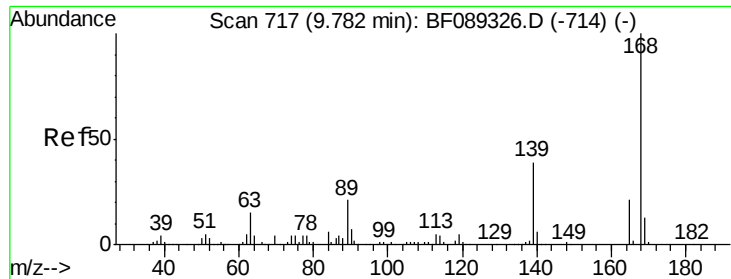


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

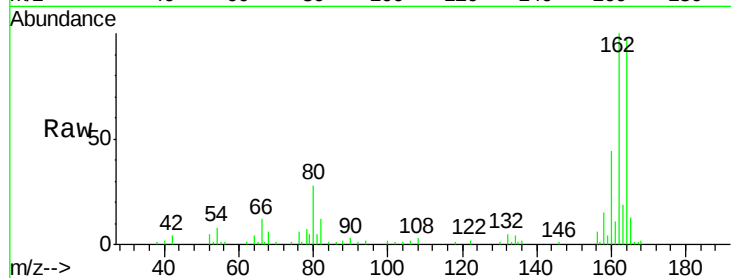




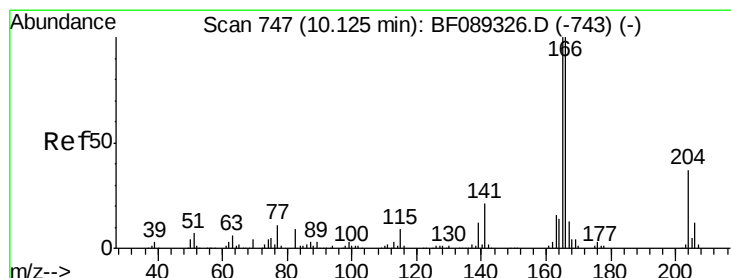
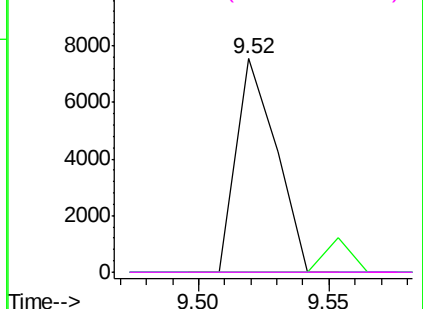
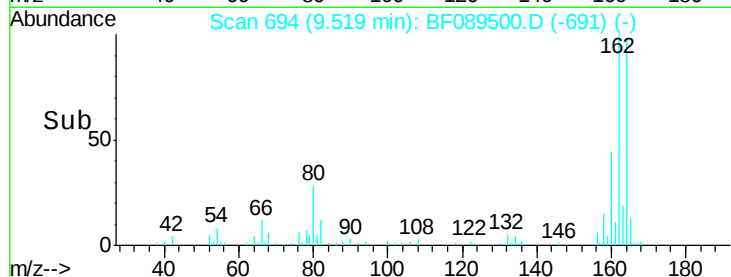
#56
2,4-Dinitrotoluene
Concen: 6.03 ng
RT: 9.52 min Scan# 694
Delta R.T. -0.26 min
Lab File: BF089500.D
Acq: 1 Aug 2016 7:29

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 8081
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#

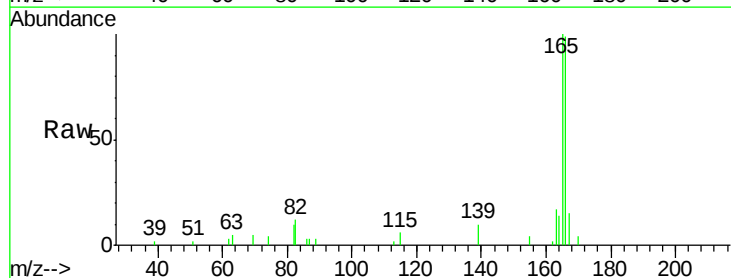


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0
Ion 182.00 (181.70 to 182.70): E

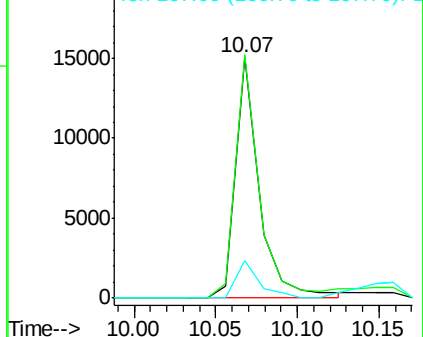
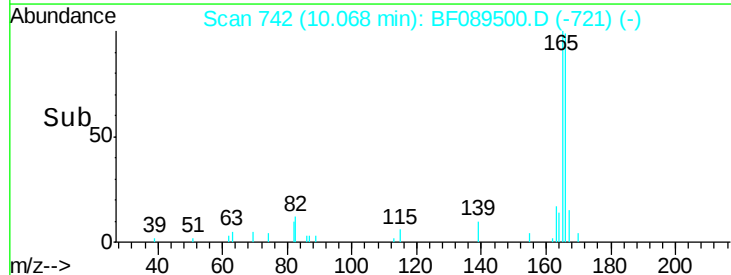


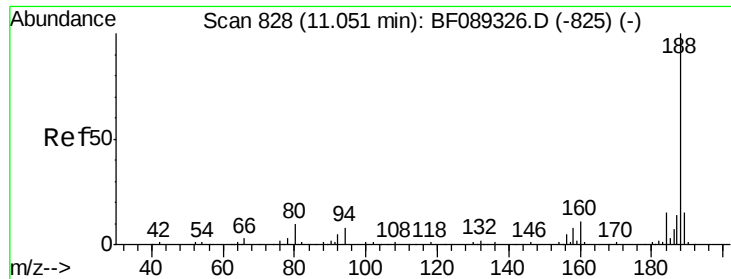
#57
Fluorene
Concen: 3.31 ng
RT: 10.07 min Scan# 742
Delta R.T. -0.06 min
Lab File: BF089500.D
Acq: 1 Aug 2016 7:29

Tgt Ion:166 Resp: 15078
Ion Ratio Lower Upper
166 100
165 101.1 79.0 118.4
167 15.4 10.2 15.2#



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

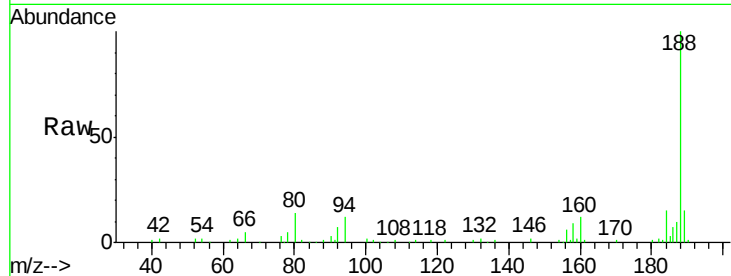




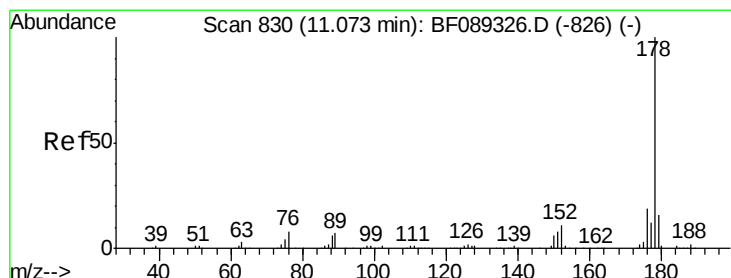
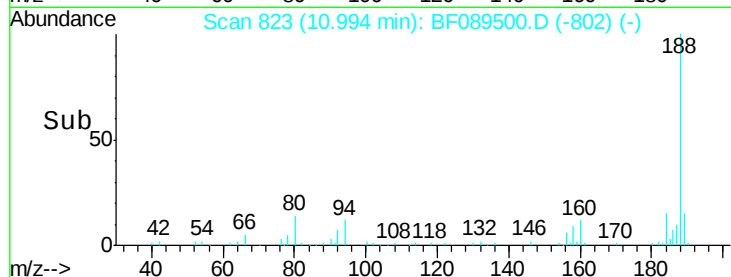
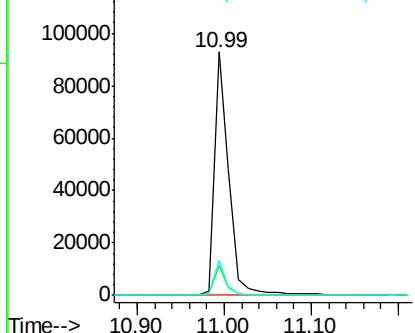
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 10.99 min Scan# 823
Delta R.T. -0.06 min
Lab File: BF089500.D
Acq: 1 Aug 2016 7:29

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 108092
Ion Ratio Lower Upper
188 100
94 12.4 6.5 9.7#
80 14.3 7.2 10.8#

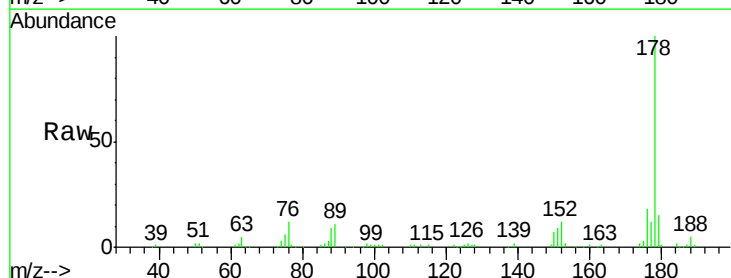


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

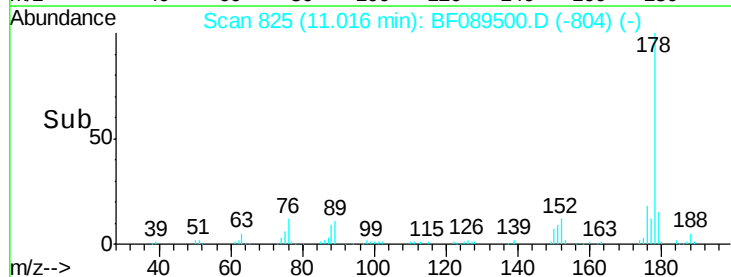
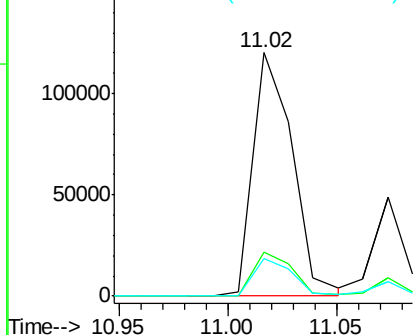


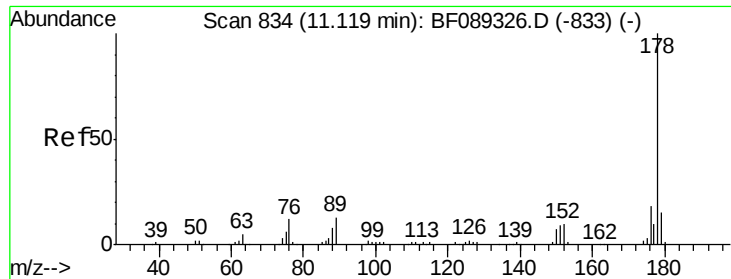
#70
Phenanthrene
Concen: 27.27 ng
RT: 11.02 min Scan# 825
Delta R.T. -0.06 min
Lab File: BF089500.D
Acq: 1 Aug 2016 7:29

Tgt Ion:178 Resp: 152041
Ion Ratio Lower Upper
178 100
176 18.3 15.5 23.3
179 15.4 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

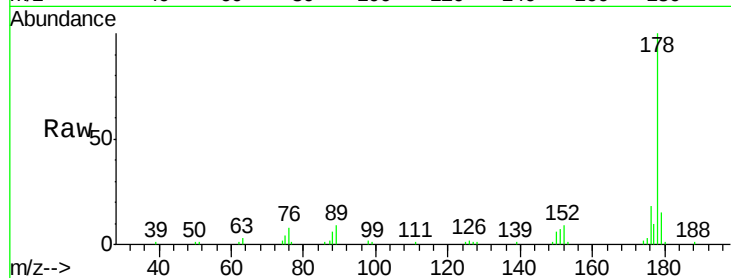




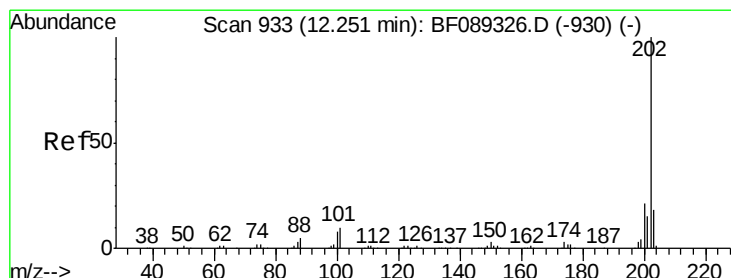
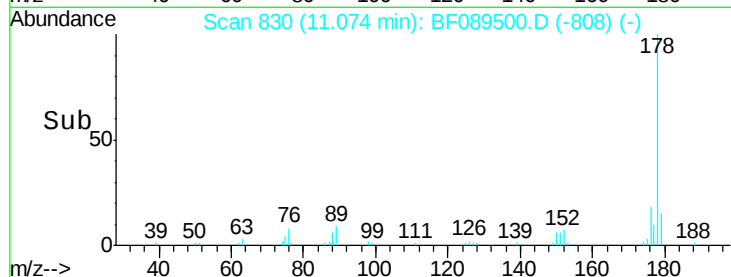
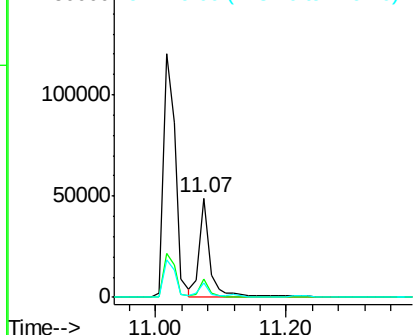
#71
 Anthracene
 Concen: 9.50 ng
 RT: 11.07 min Scan# 830
 Delta R.T. -0.05 min
 Lab File: BF089500.D
 Acq: 1 Aug 2016 7:29

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 58857
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.8 22.2
 179 15.0 12.6 18.8

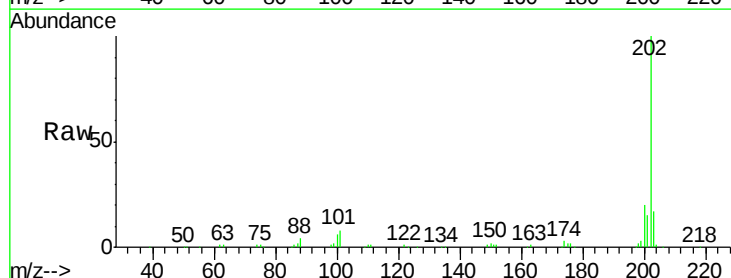


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

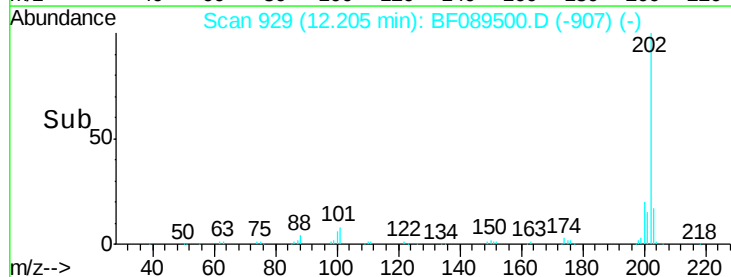
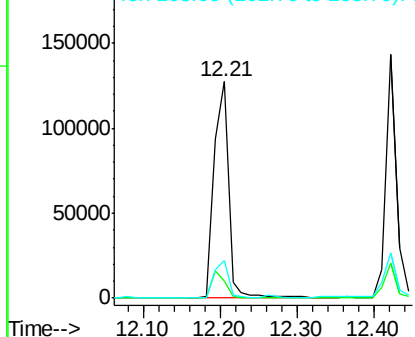


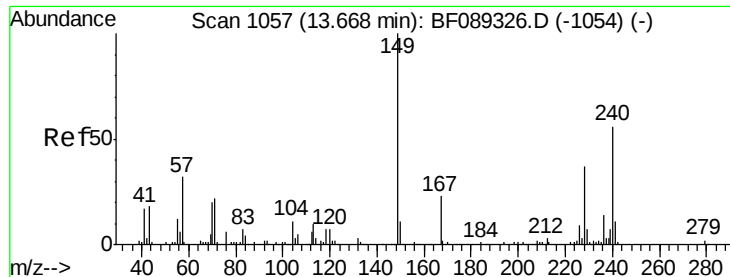
#74
 Fluoranthene
 Concen: 28.71 ng
 RT: 12.21 min Scan# 929
 Delta R.T. -0.05 min
 Lab File: BF089500.D
 Acq: 1 Aug 2016 7:29

Tgt Ion:202 Resp: 168363
 Ion Ratio Lower Upper
 202 100
 101 7.6 0.0 29.9
 203 17.3 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: BF089500.D

Acq: 1 Aug 2016 7:29

Instrument :

BNA_F

ClientSampleId :

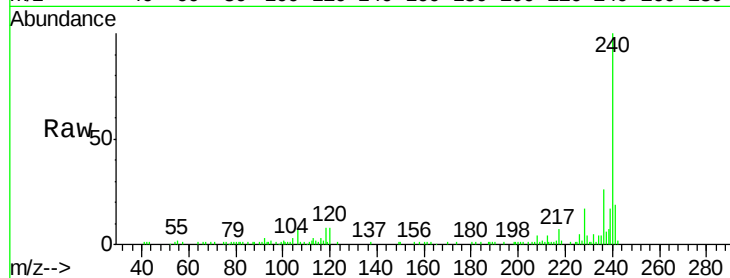
Tot Ion:240 Resp: 87214

Ion Ratio Lower Upper

240 100

120 8.3 9.1 13.7#

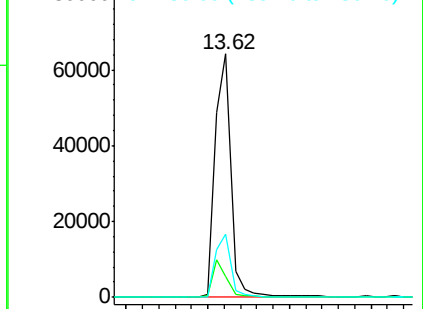
236 25.7 20.6 30.8



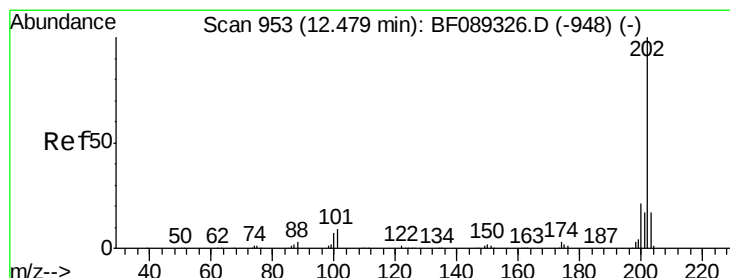
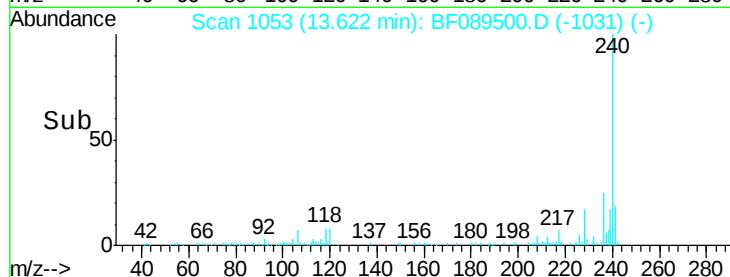
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time--> 13.50 13.60 13.70 13.80



#77

Pyrene

Concen: 20.66 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.05 min

Lab File: BF089500.D

Acq: 1 Aug 2016 7:29

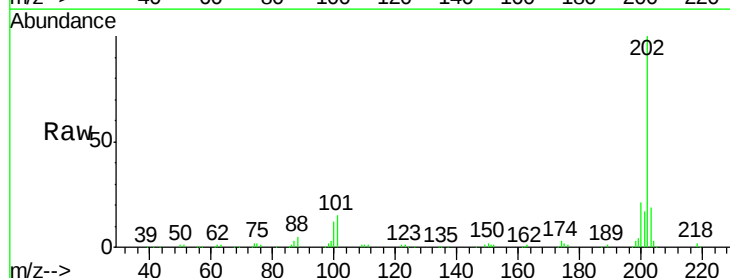
Tgt Ion:202 Resp: 136549

Ion Ratio Lower Upper

202 100

200 20.6 16.9 25.3

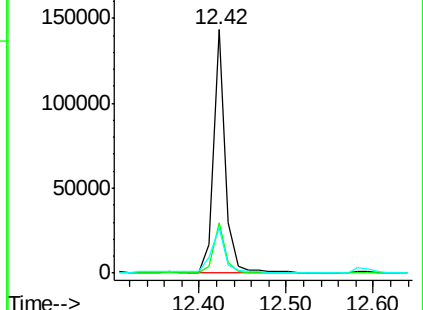
203 18.6 14.0 21.0



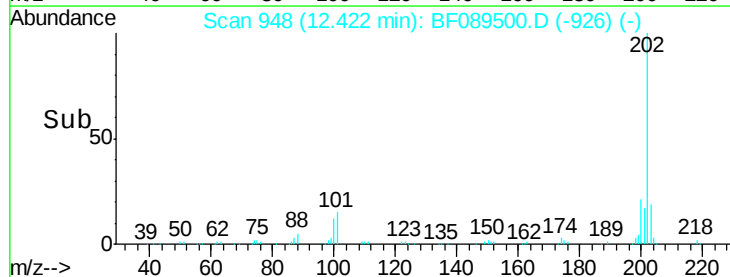
Abundance Ion 202.00 (201.70 to 202.70): E

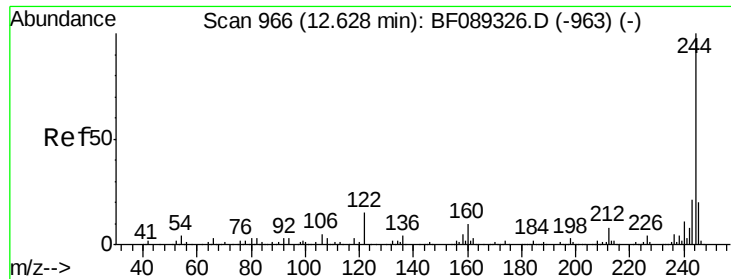
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time--> 12.40 12.50 12.60

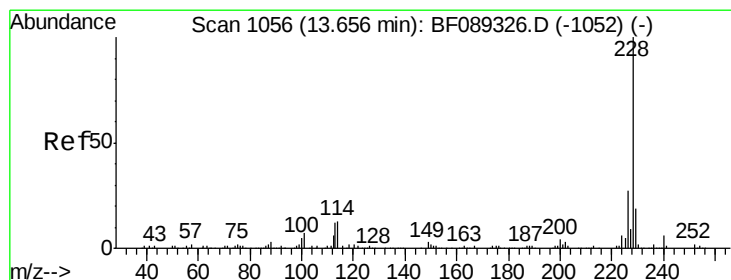
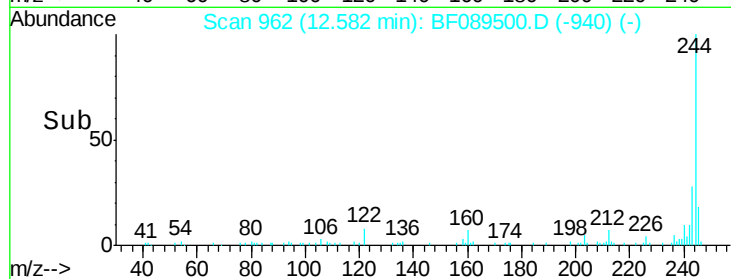
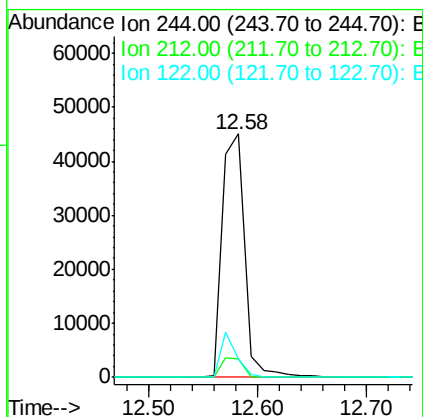
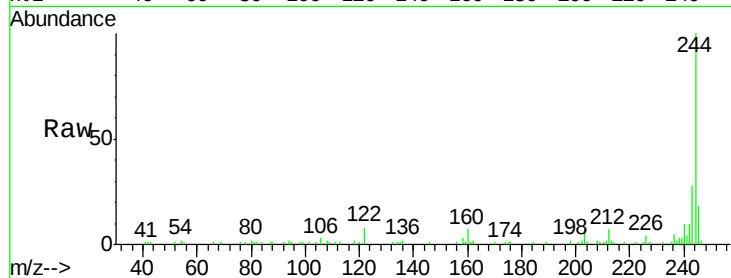




#78
 Terphenyl-d14
 Concen: 17.32 ng
 RT: 12.58 min Scan# 962
 Delta R.T. -0.05 min
 Lab File: BF089500.D
 Acq: 1 Aug 2016 7:29

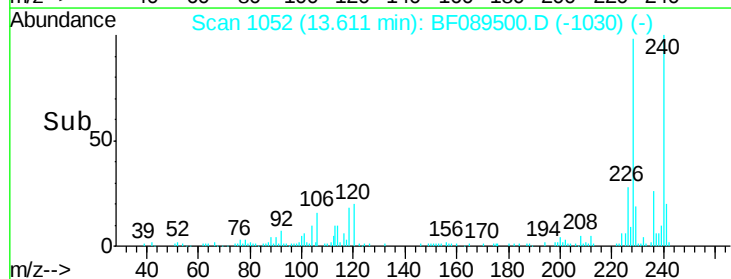
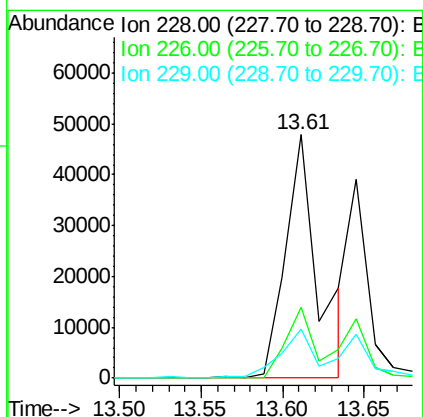
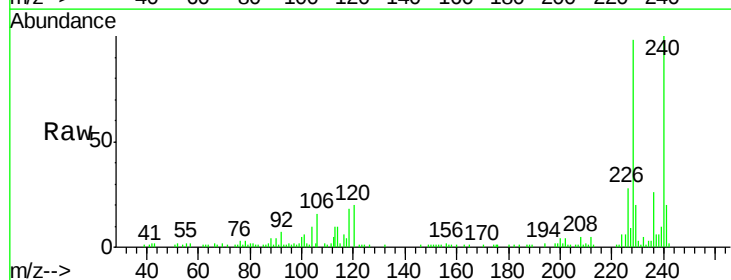
Instrument :
 BNA_F
 ClientSampleId :

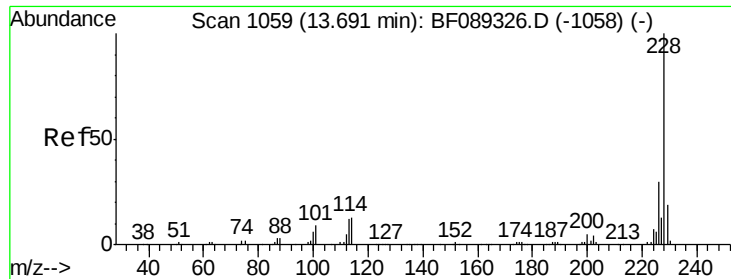
Tot Ion:244 Resp: 64527
 Ion Ratio Lower Upper
 244 100
 212 7.4 6.5 9.7
 122 7.7 11.4 17.0#



#80
 Benzo(a)anthracene
 Concen: 13.61 ng
 RT: 13.61 min Scan# 1052
 Delta R.T. -0.05 min
 Lab File: BF089500.D
 Acq: 1 Aug 2016 7:29

Tgt Ion:228 Resp: 66966
 Ion Ratio Lower Upper
 228 100
 226 28.8 21.4 32.2
 229 20.3 15.9 23.9





#82

Chrysene

Concen: 12.78 ng

RT: 13.61 min Scan# 1052

Delta R.T. -0.08 min

Lab File: BF089500.D

Acq: 1 Aug 2016 7:29

Instrument :

BNA_F

ClientSampleId :

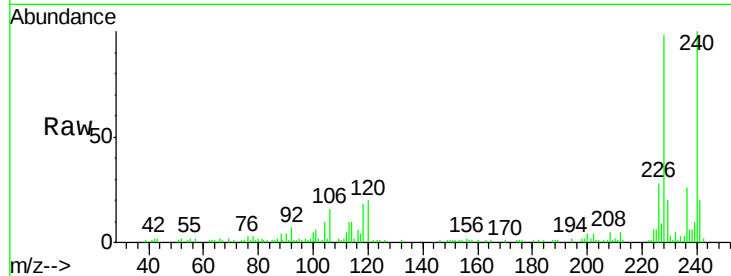
Tot Ion:228 Resp: 66966

Ion Ratio Lower Upper

228 100

226 28.8 24.2 36.2

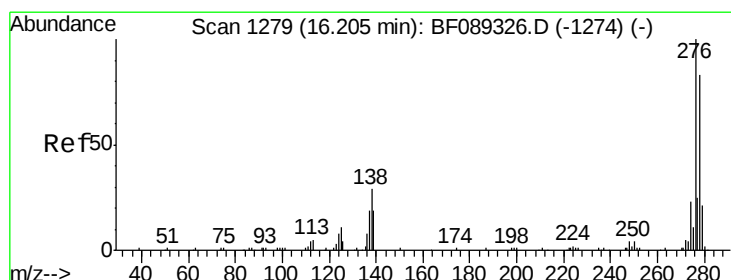
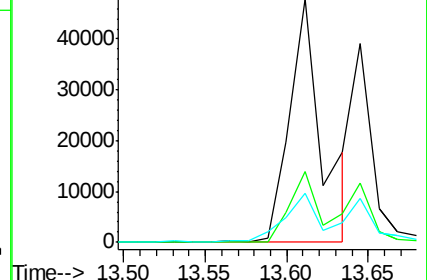
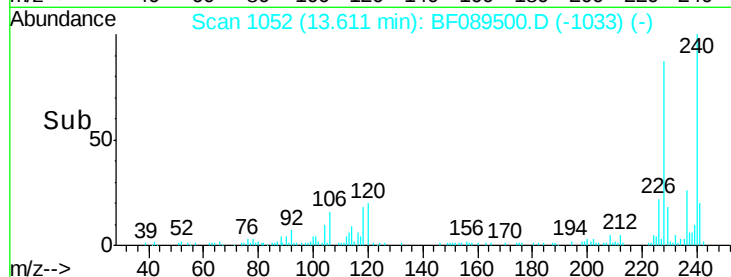
229 20.3 15.9 23.9



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: 5.11 ng

RT: 16.13 min Scan# 1272

Delta R.T. -0.08 min

Lab File: BF089500.D

Acq: 1 Aug 2016 7:29

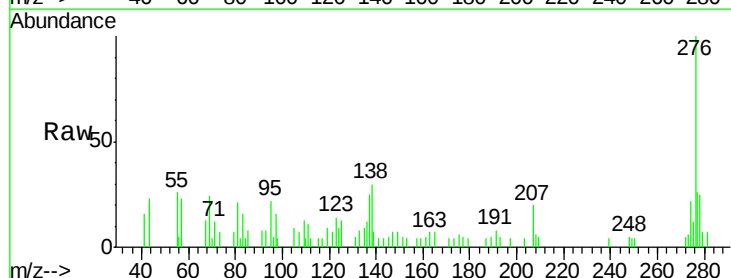
Tgt Ion:276 Resp: 19037

Ion Ratio Lower Upper

276 100

138 34.6 23.0 34.4#

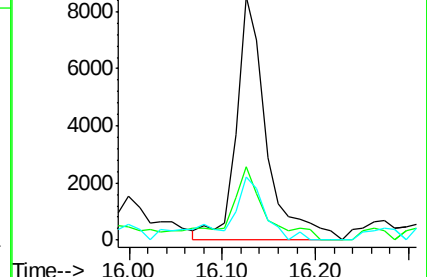
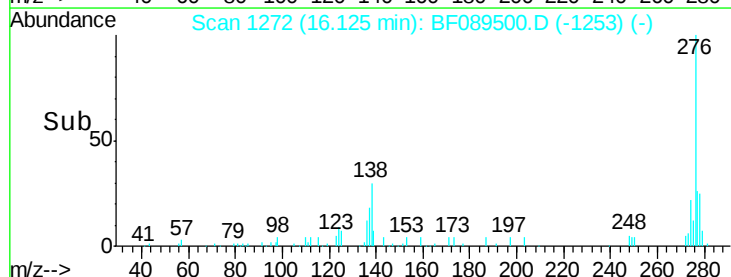
277 33.1 20.2 30.4#

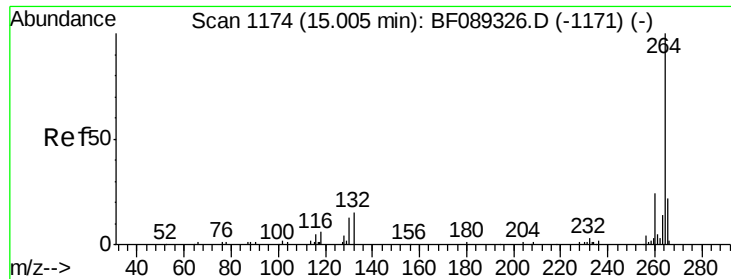


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

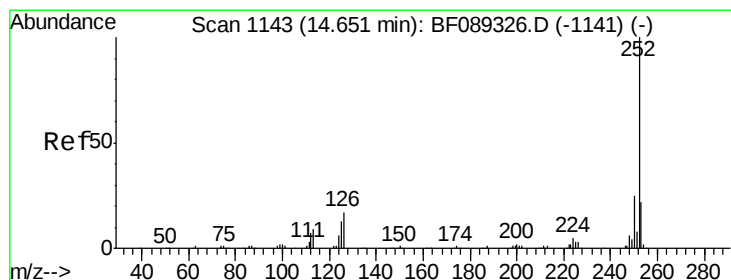
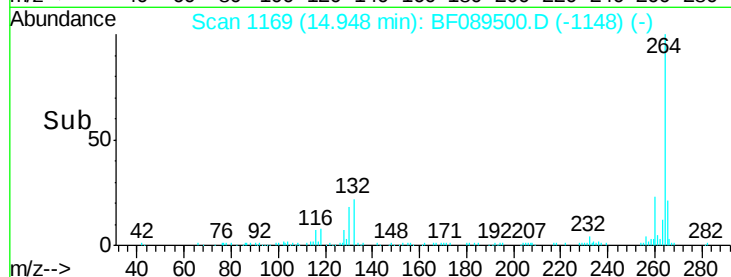
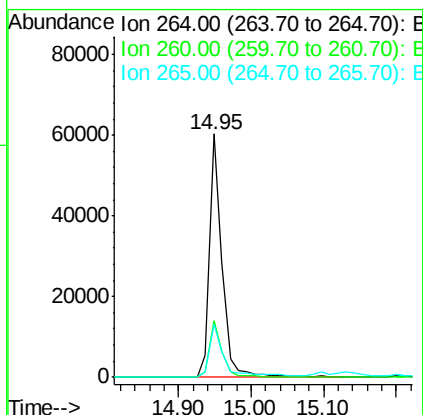
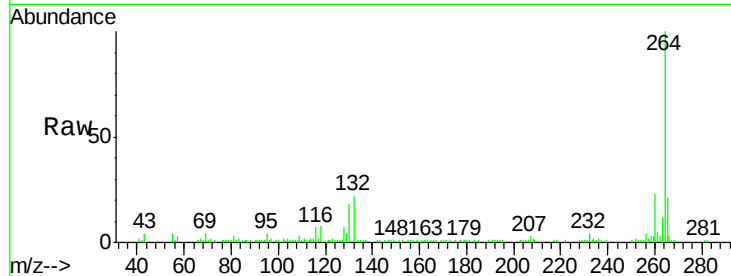




#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.95 min Scan# 1169
Delta R.T. -0.06 min
Lab File: BF089500.D
Acq: 1 Aug 2016 7:29

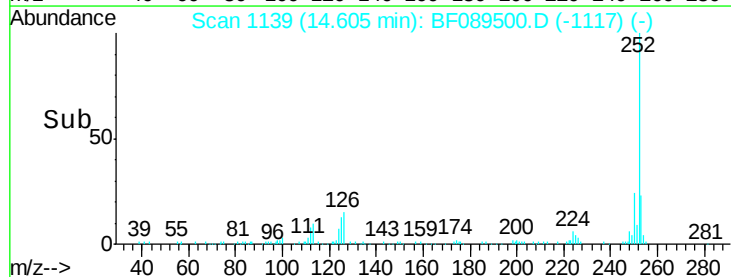
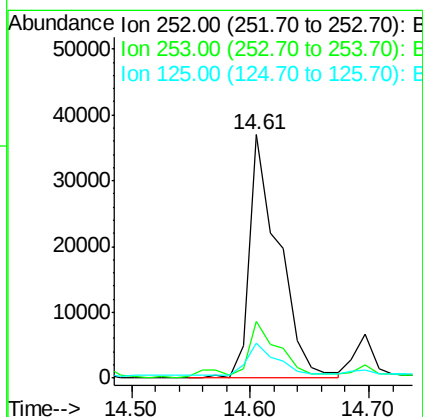
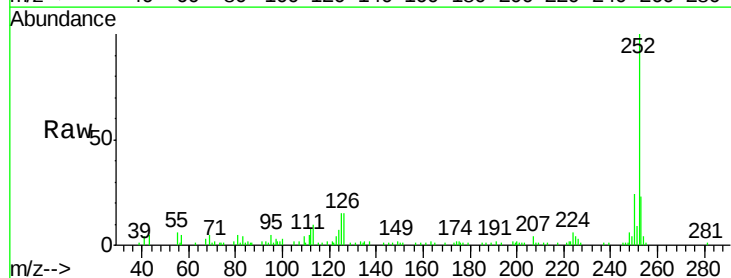
Instrument :
BNA_F
ClientSampleId :

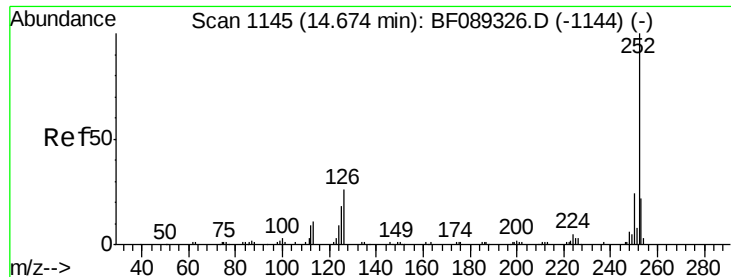
Tot Ion:264 Resp: 72499
Ion Ratio Lower Upper
264 100
260 23.1 19.0 28.4
265 21.5 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 14.19 ng
RT: 14.61 min Scan# 1139
Delta R.T. -0.05 min
Lab File: BF089500.D
Acq: 1 Aug 2016 7:29

Tgt Ion:252 Resp: 63910
Ion Ratio Lower Upper
252 100
253 23.1 17.2 25.8
125 14.6 9.7 14.5#

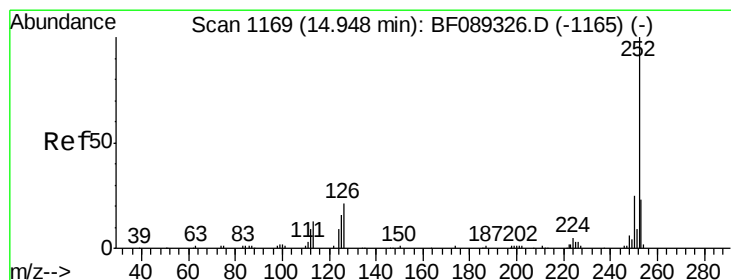
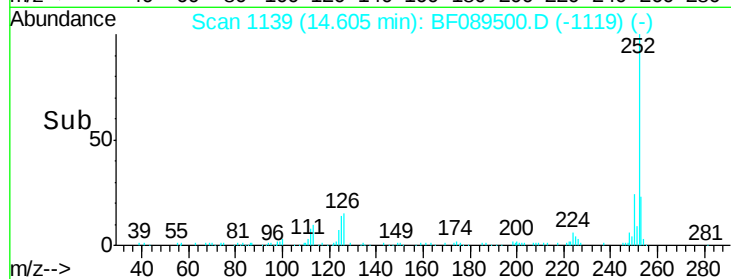
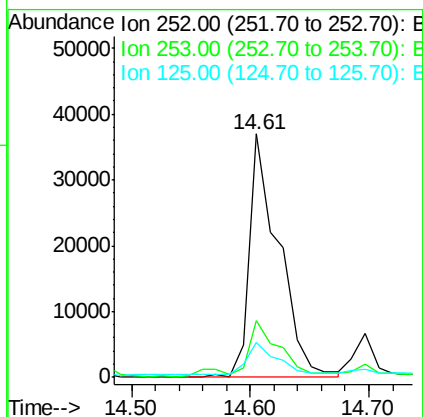
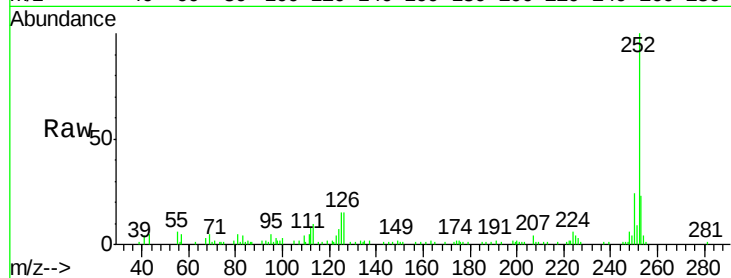




#88
Benzo(k)fluoranthene
Concen: 15.44 ng
RT: 14.61 min Scan# 1139
Delta R.T. -0.07 min
Lab File: BF089500.D
Acq: 1 Aug 2016 7:29

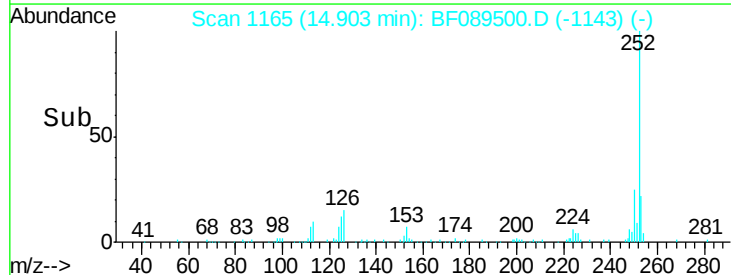
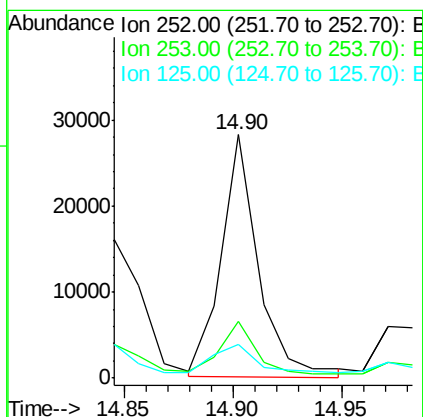
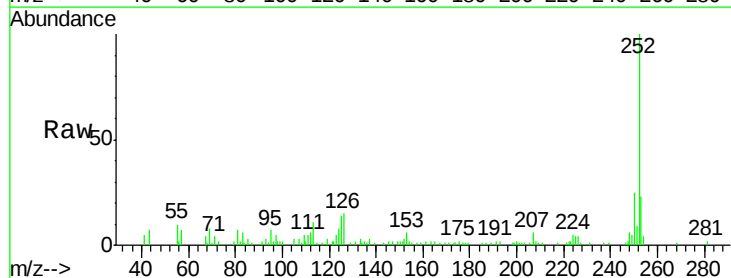
Instrument :
BNA_F
ClientSampled :

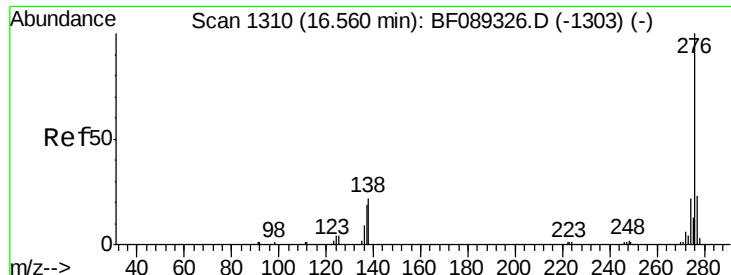
Tot Ion:252 Resp: 63910
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.8
125 14.6 10.7 16.1



#89
Benzo(a)pyrene
Concen: 8.33 ng
RT: 14.90 min Scan# 1165
Delta R.T. -0.05 min
Lab File: BF089500.D
Acq: 1 Aug 2016 7:29

Tgt Ion:252 Resp: 33624
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.2
125 13.8 12.4 18.6





#91

Benzo(a,h,i)perylene

Concen: 5.35 ng

RT: 16.48 min Scan# 1303

Delta R.T. -0.07 min

Lab File: BF089500.D

Acq: 1 Aug 2016 7:29

Instrument :

BNA_F

ClientSampleId :

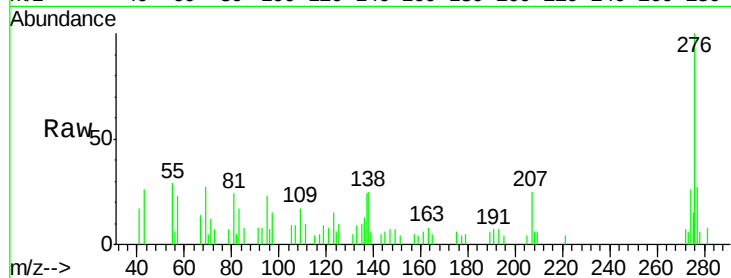
Tot Ion:276 Resp: 16732

Ion Ratio Lower Upper

276 100

277 26.5 18.6 28.0

138 25.4 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

