

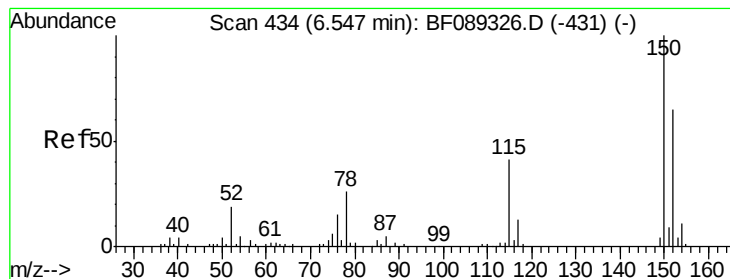
Data Path : Z:\HPCHEM1\BNA F\DATA\BF073116\
 Data File : BF089496.D
 Acq On : 1 Aug 2016 5:31
 Operator : UM/SJ
 Sample : H4215-04
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 01 07:15:44 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 01 04:11:30 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.49	152	52277	20.00	ng	-0.01
21) Naphthalene-d8	7.78	136	197253	20.00	ng	-0.01
38) Acenaphthene-d10	9.52	164	77414	20.00	ng	-0.01
63) Phenanthrene-d10	10.99	188	131218	20.00	ng	-0.01
75) Chrysene-d12	13.61	240	103213	20.00	ng	-0.01
86) Perylene-d12	14.95	264	81157	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	366305	111.88	ng	0.00
7) Phenol-d6	6.16	99	472259	109.15	ng	-0.01
23) Nitrobenzene-d5	7.07	82	304526	91.13	ng	-0.01
41) 2,4,6-Tribromophenol	10.31	330	67442	105.19	ng	-0.01
44) 2-Fluorobiphenyl	8.86	172	437581	82.95	ng	-0.01
78) Terphenyl-d14	12.58	244	313284	71.04	ng	0.00
Target Compounds						
2) 1,4-Dioxane	1.66	88	61542	41.63	ng	# 26
15) Benzyl Alcohol	6.65	79	5511	2.05	ng	# 51
18) Hexachloroethane	7.02	117	11596	7.07	ng	# 9
19) n-Nitroso-di-n-propylamine	7.07	70	39646	15.20	ng	# 78
49) Dimethylphthalate	9.26	163	95395	16.19	ng	# 96
56) 2,4-Dinitrotoluene	9.52	165	9984	6.26	ng	# 13
64) 4,6-Dinitro-2-methylphenol	10.35	198	237	4.61	ng	# 1
66) 4-Bromophenyl-phenylether	10.31	248	5071	4.05	ng	# 1
74) Fluoranthene	12.19	202	20306	2.85	ng	# 94
77) Pyrene	12.42	202	19490	2.49	ng	# 98
80) Benzo(a)anthracene	13.61	228	23389	4.02	ng	# 79
82) Chrysene	13.61	228	23389	3.77	ng	# 84
87) Benzo(b)fluoranthene	14.61	252	18864	3.74	ng	# 88
88) Benzo(k)fluoranthene	14.61	252	19429	4.19	ng	# 90
91) Benzo(a,h,i)perylene	16.48	276	10006	2.86	ng	# 91

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.49 min Scan# 429

Delta R.T. -0.01 min

Lab File: BF089496.D

Acq: 1 Aug 2016 5:31

Instrument :

BNA_F

ClientSampleId :

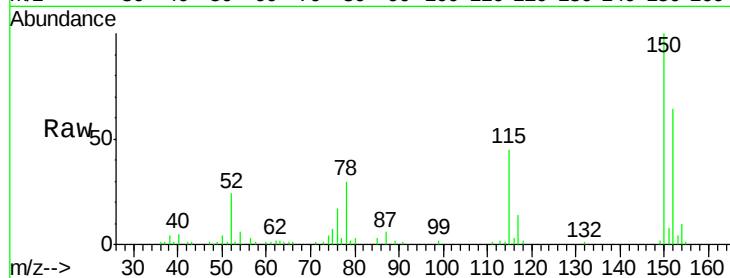
Tot Ion:152 Resp: 52277

Ion Ratio Lower Upper

152 100

150 156.6 129.5 194.3

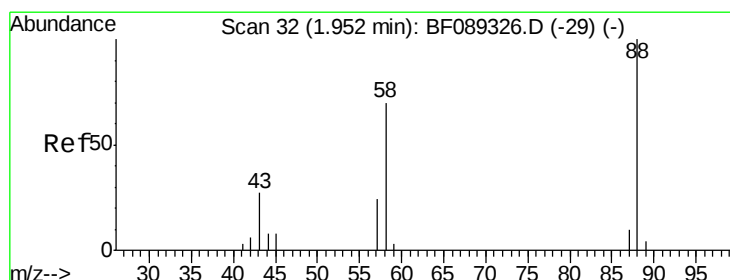
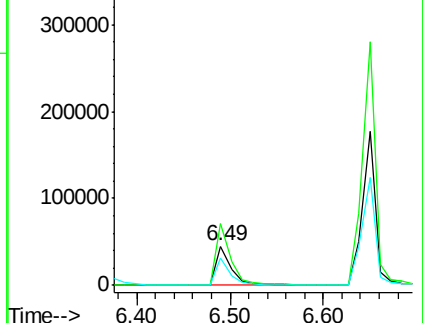
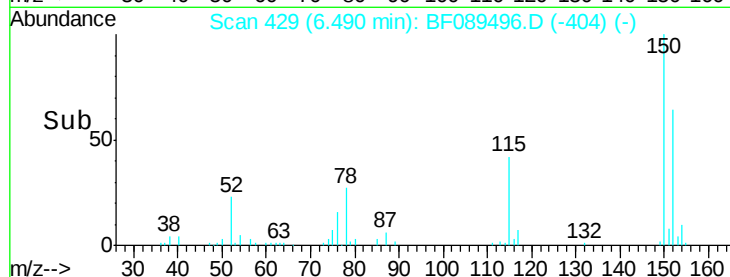
115 70.7 51.4 77.2



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: 41.63 ng

RT: 1.66 min Scan# 6

Delta R.T. -0.24 min

Lab File: BF089496.D

Acq: 1 Aug 2016 5:31

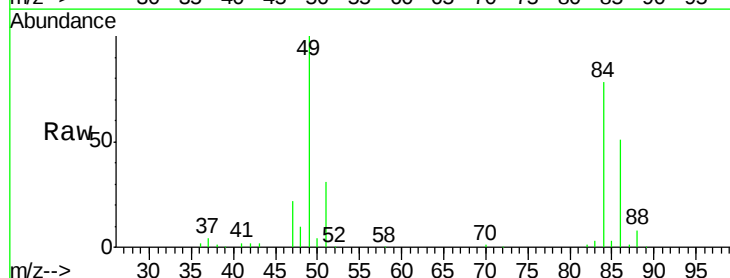
Tgt Ion: 88 Resp: 61542

Ion Ratio Lower Upper

88 100

58 0.0 53.2 79.8#

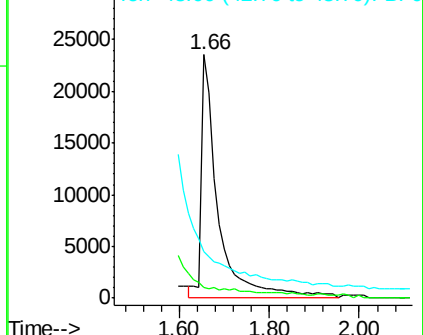
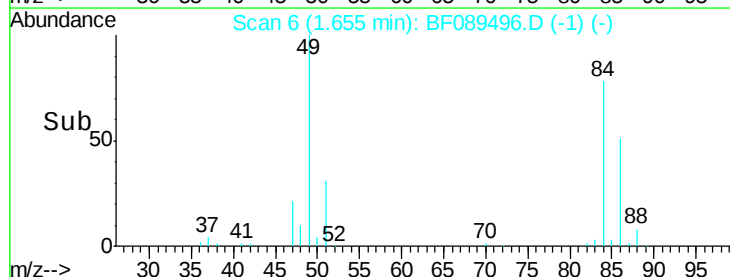
43 0.0 20.6 31.0#

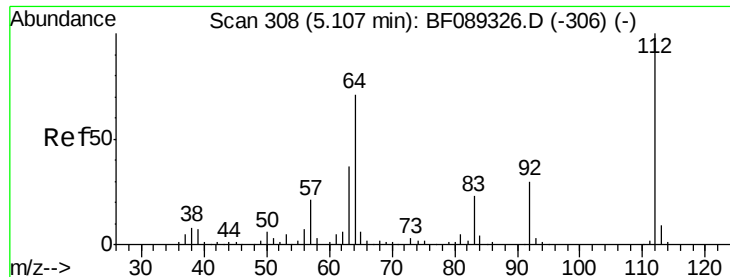


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 111.88 ng

RT: 5.06 min Scan# 304

Delta R.T. -0.00 min

Lab File: BF089496.D

Acq: 1 Aug 2016 5:31

Instrument :

BNA_F

ClientSampleId :

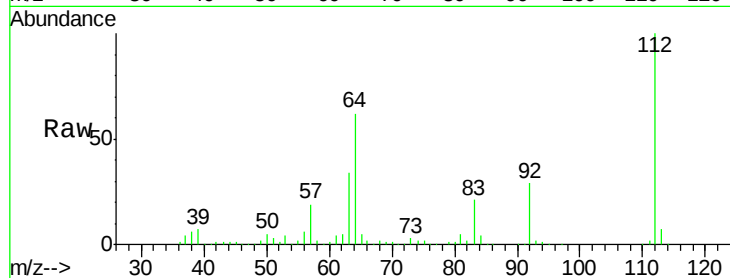
Tot Ion:112 Resp: 366305

Ion Ratio Lower Upper

112 100

64 62.5 55.0 82.6

63 34.3 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

5.06

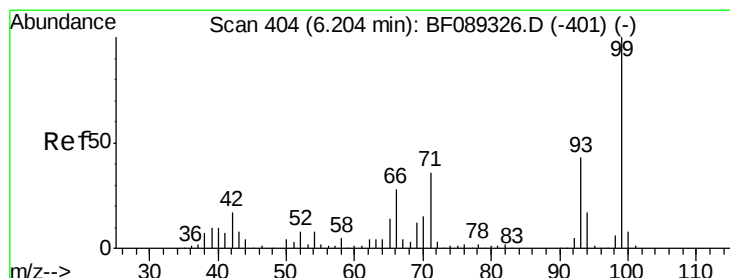
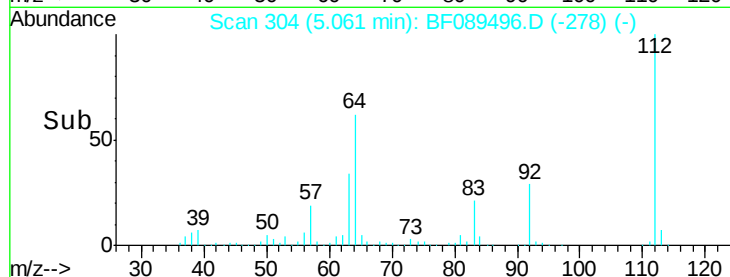
300000

200000

100000

0

Time-->



#7

Phenol-d6

Concen: 109.15 ng

RT: 6.16 min Scan# 400

Delta R.T. -0.01 min

Lab File: BF089496.D

Acq: 1 Aug 2016 5:31

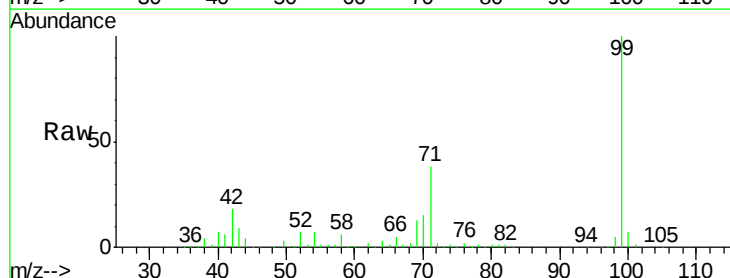
Tgt Ion: 99 Resp: 472259

Ion Ratio Lower Upper

99 100

42 18.4 13.6 20.4

71 38.2 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

6.16

500000

400000

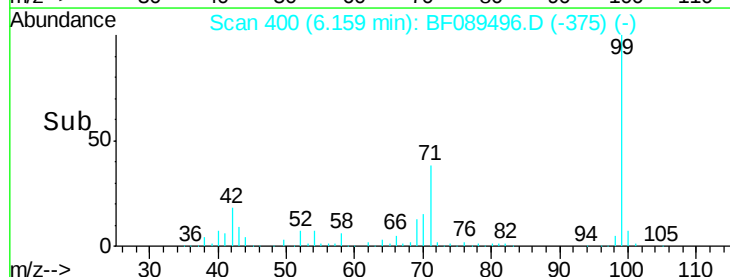
300000

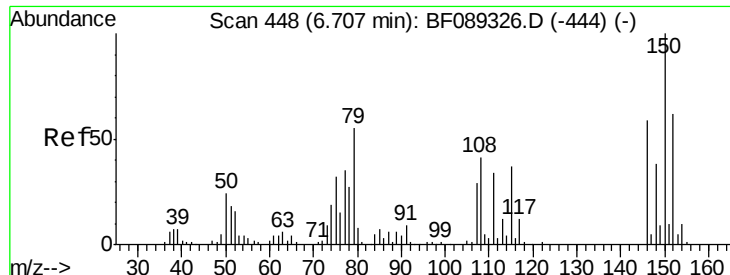
200000

100000

0

Time-->

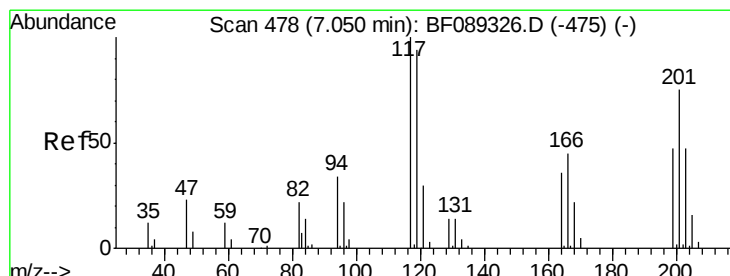
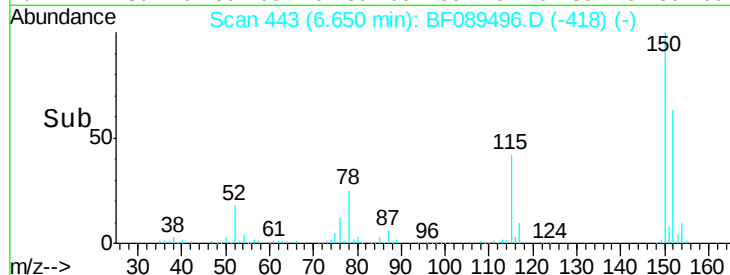
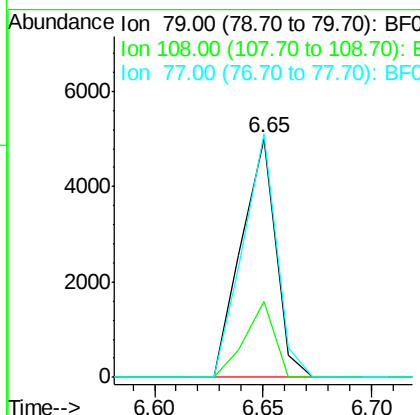
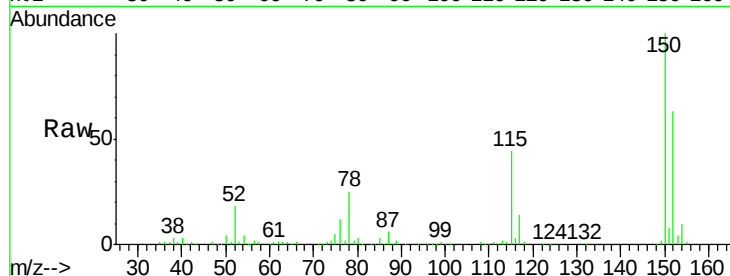




#15
Benzyl Alcohol
Concen: 2.05 ng
RT: 6.65 min Scan# 443
Delta R.T. -0.01 min
Lab File: BF089496.D
Acq: 1 Aug 2016 5:31

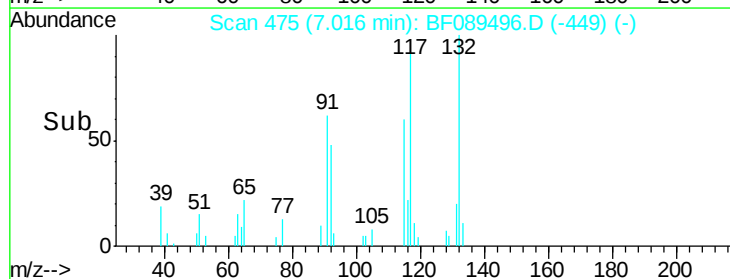
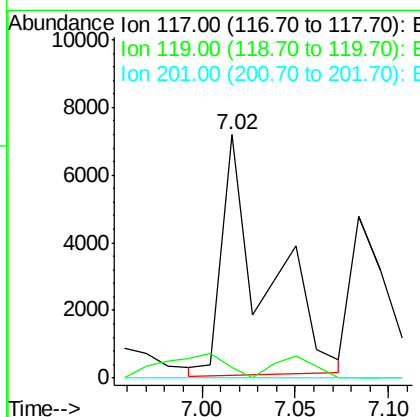
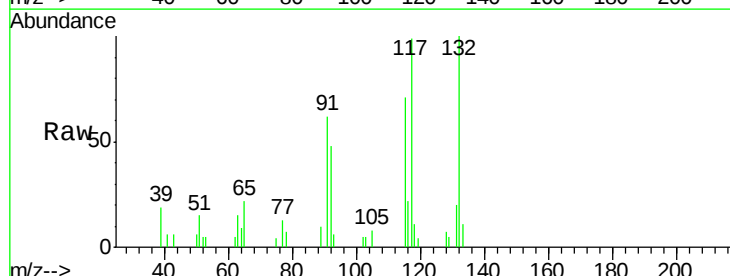
Instrument :
BNA_F
ClientSampleId :

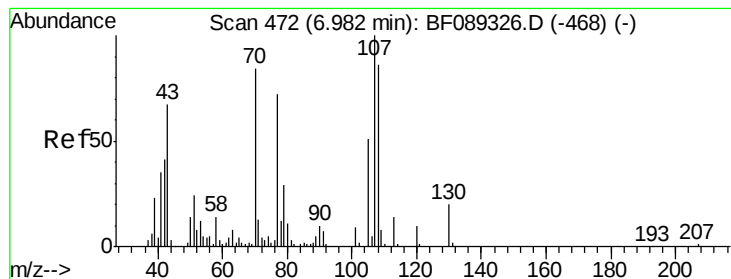
Tot Ion: 79 Resp: 5511
Ion Ratio Lower Upper
79 100
108 31.6 59.8 89.6#
77 102.0 51.7 77.5#



#18
Hexachloroethane
Concen: 7.07 ng
RT: 7.02 min Scan# 475
Delta R.T. -0.00 min
Lab File: BF089496.D
Acq: 1 Aug 2016 5:31

Tgt Ion: 117 Resp: 11596
Ion Ratio Lower Upper
117 100
119 4.3 76.0 114.0#
201 0.0 60.0 90.0#





#19

n-Nitroso-di-n-propylamine

Concen: 15.20 ng

RT: 7.07 min Scan# 480

Delta R.T. 0.14 min

Lab File: BF089496.D

Acq: 1 Aug 2016 5:31

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 70 Resp: 39646

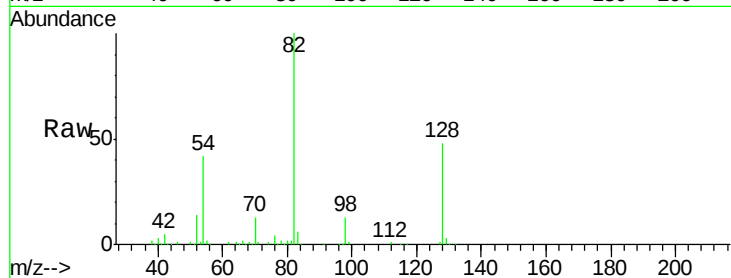
Ion Ratio Lower Upper

70 100

42 41.5 38.6 57.8

101 0.0 8.3 12.5#

130 2.3 19.0 28.4#

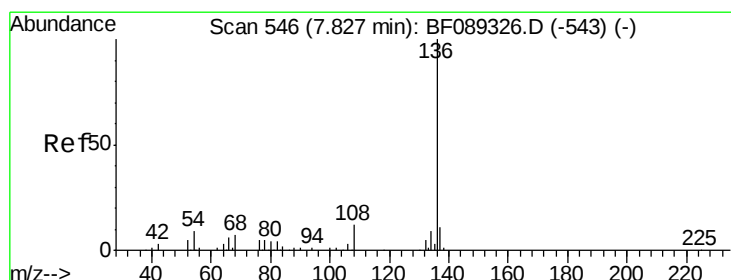
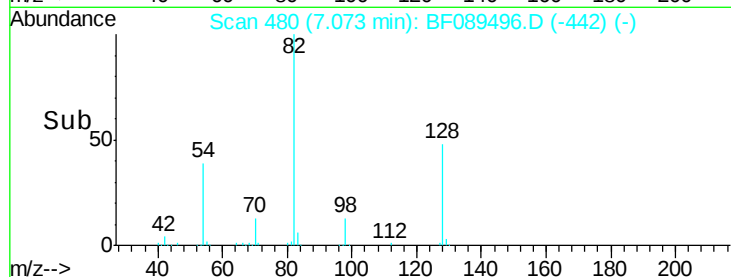
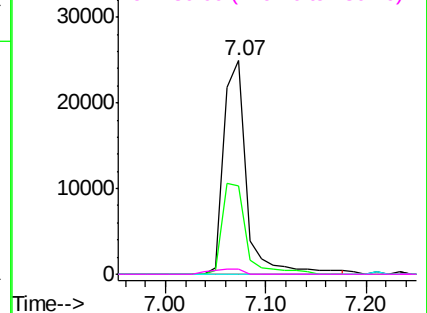


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.78 min Scan# 542

Delta R.T. -0.01 min

Lab File: BF089496.D

Acq: 1 Aug 2016 5:31

Tgt Ion: 136 Resp: 197253

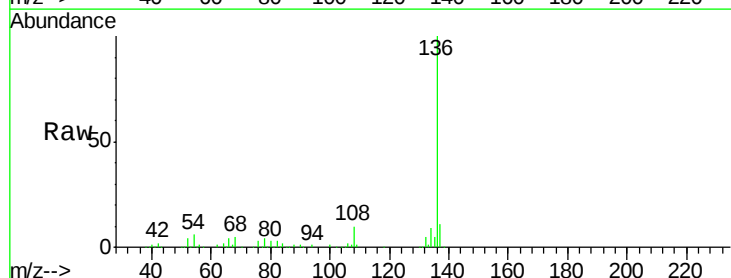
Ion Ratio Lower Upper

136 100

137 10.6 8.6 13.0

54 6.2 7.0 10.4#

68 4.9 4.9 7.3

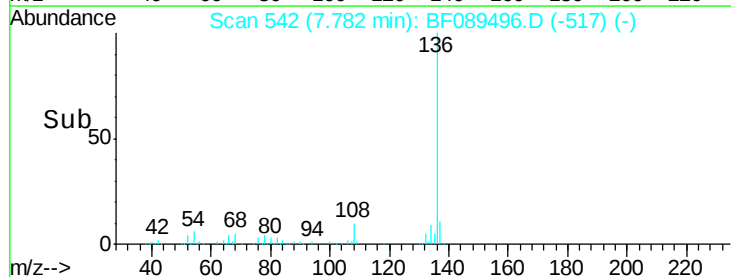
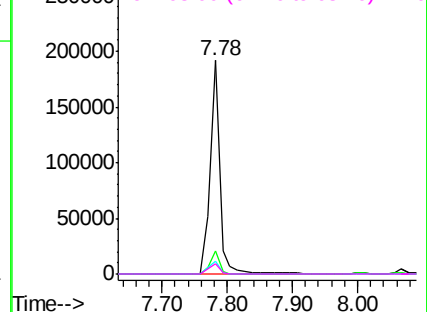


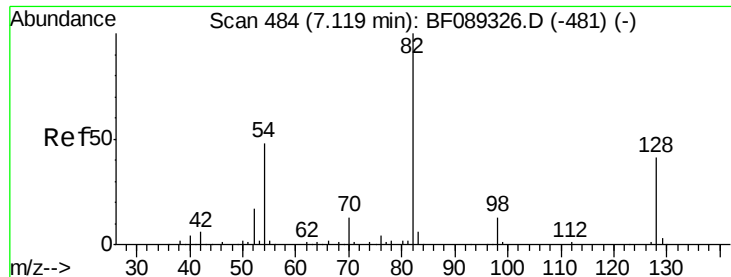
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

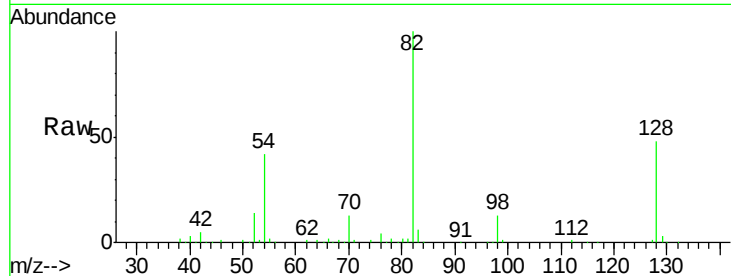




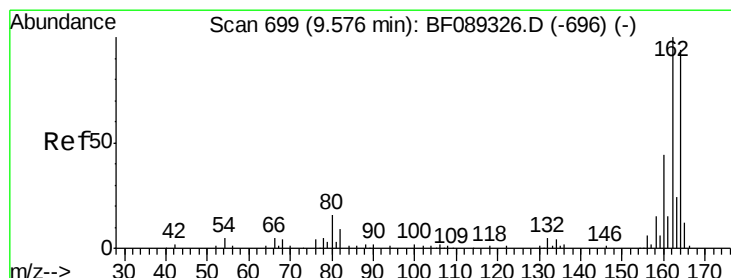
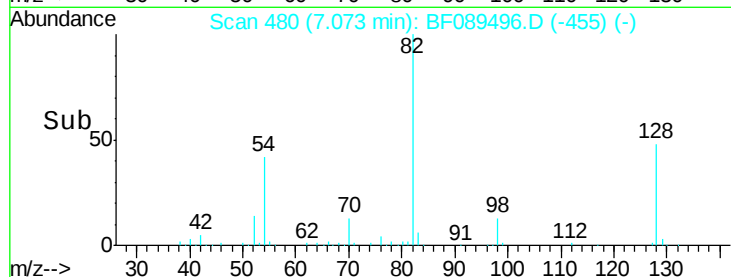
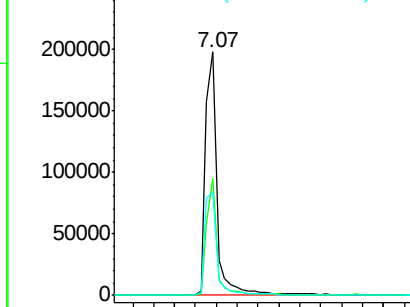
#23
Nitrobenzene-d5
Concen: 91.13 ng
RT: 7.07 min Scan# 480
Delta R.T. -0.01 min
Lab File: BF089496.D
Acq: 1 Aug 2016 5:31

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 304526
Ion Ratio Lower Upper
82 100
128 48.3 32.5 48.7
54 42.3 38.8 58.2

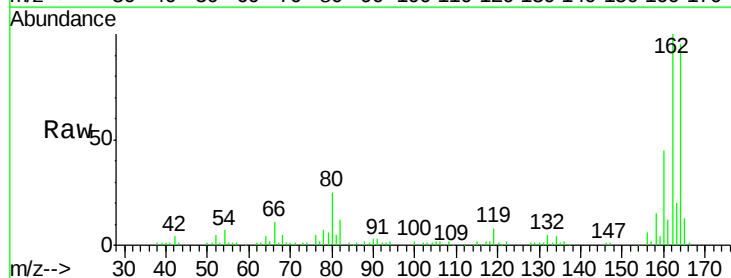


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

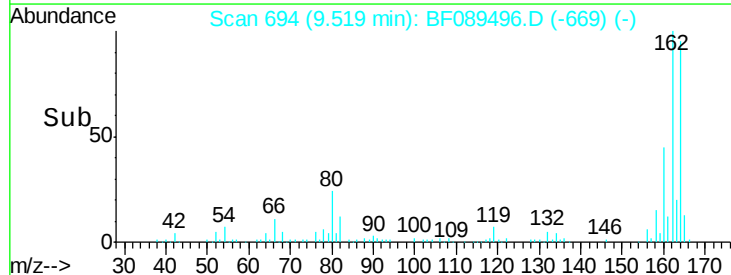
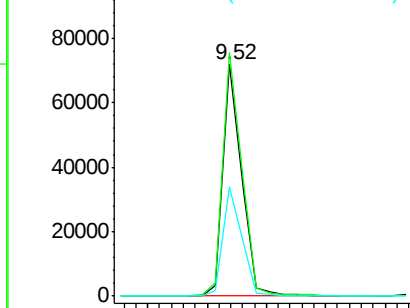


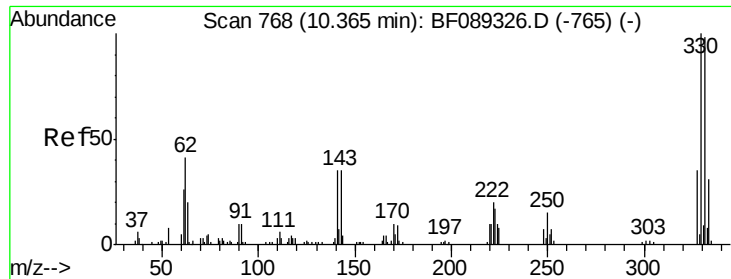
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.52 min Scan# 694
Delta R.T. -0.01 min
Lab File: BF089496.D
Acq: 1 Aug 2016 5:31

Tgt Ion:164 Resp: 77414
Ion Ratio Lower Upper
164 100
162 104.9 83.7 125.5
160 46.8 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

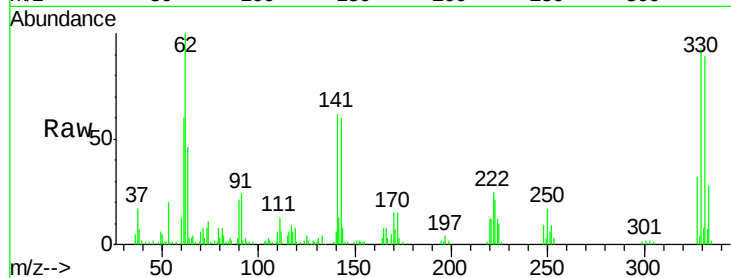




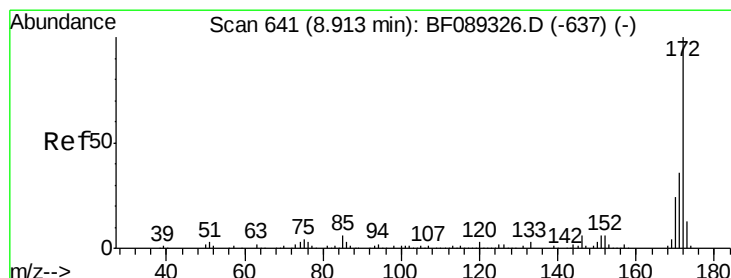
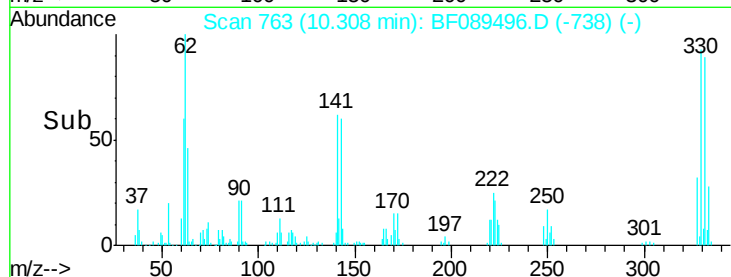
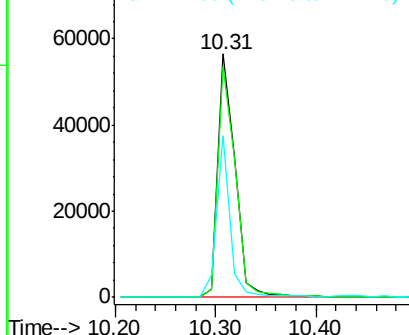
#41
 2,4,6-Tribromophenol
 Concen: 105.19 ng
 RT: 10.31 min Scan# 763
 Delta R.T. -0.01 min
 Lab File: BF089496.D
 Acq: 1 Aug 2016 5:31

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 67442
 Ion Ratio Lower Upper
 330 100
 332 96.7 76.8 115.2
 141 52.6 37.3 55.9

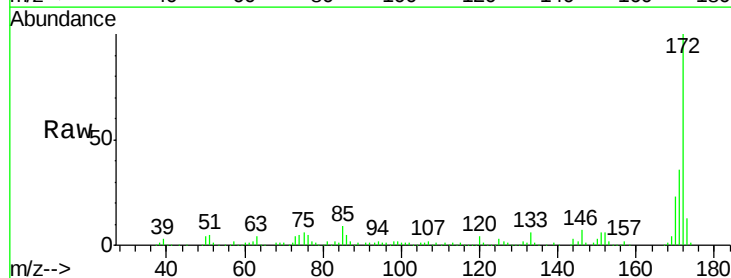


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

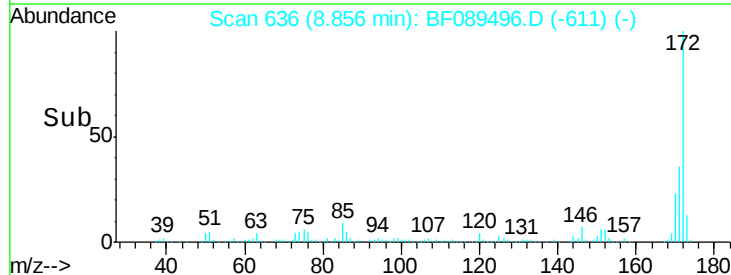
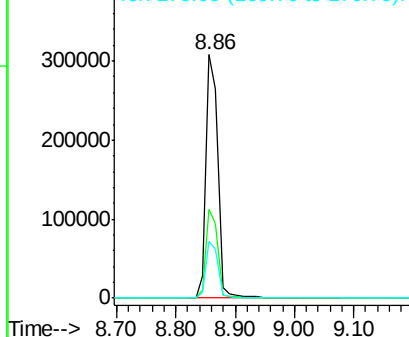


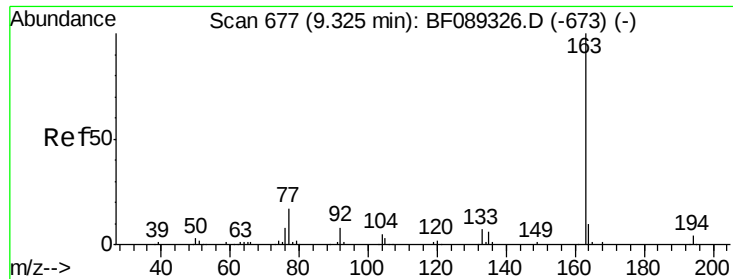
#44
 2-Fluorobiphenyl
 Concen: 82.95 ng
 RT: 8.86 min Scan# 636
 Delta R.T. -0.01 min
 Lab File: BF089496.D
 Acq: 1 Aug 2016 5:31

Tgt Ion:172 Resp: 437581
 Ion Ratio Lower Upper
 172 100
 171 36.2 29.2 43.8
 170 23.4 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

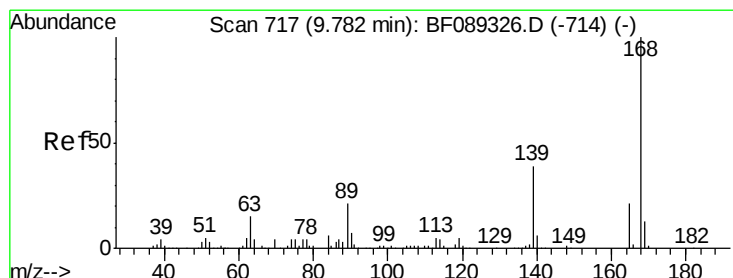
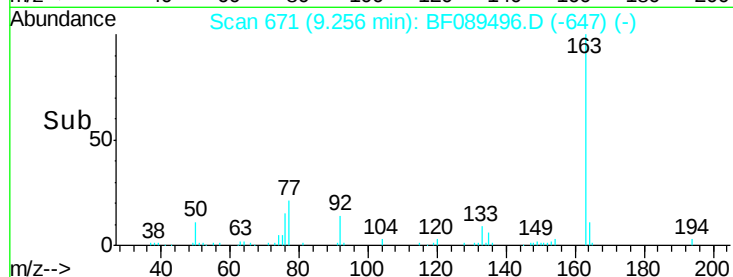
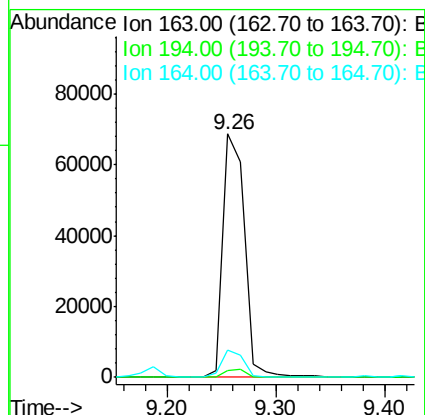
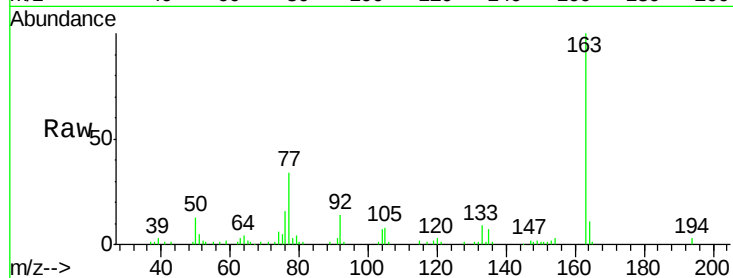




#49
Dimethylphthalate
Concen: 16.19 ng
RT: 9.26 min Scan# 671
Delta R.T. -0.02 min
Lab File: BF089496.D
Acq: 1 Aug 2016 5:31

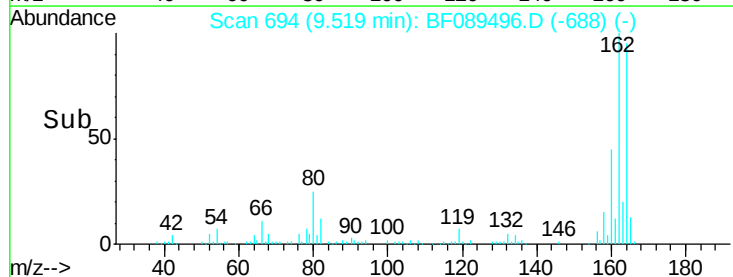
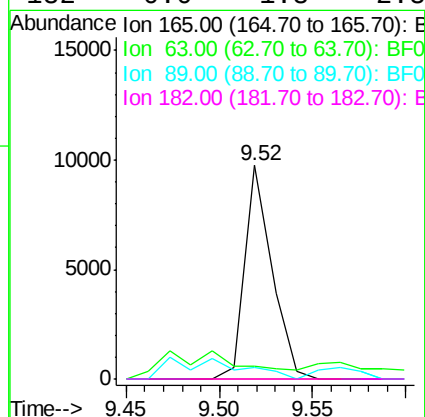
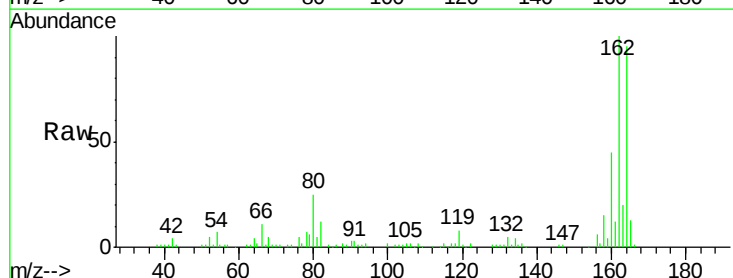
Instrument :
BNA_F
ClientSampleId :

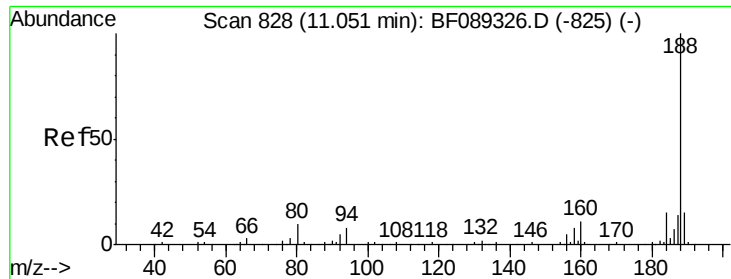
Tot Ion:163 Resp: 95395
Ion Ratio Lower Upper
163 100
194 2.9 2.8 4.2
164 11.3 7.8 11.8



#56
2,4-Dinitrotoluene
Concen: 6.26 ng
RT: 9.52 min Scan# 694
Delta R.T. -0.23 min
Lab File: BF089496.D
Acq: 1 Aug 2016 5:31

Tgt Ion:165 Resp: 9984
Ion Ratio Lower Upper
165 100
63 5.8 58.2 87.2#
89 5.2 79.1 118.7#
182 0.0 1.8 2.8#

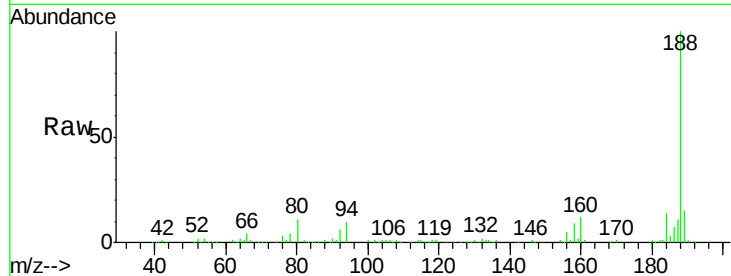




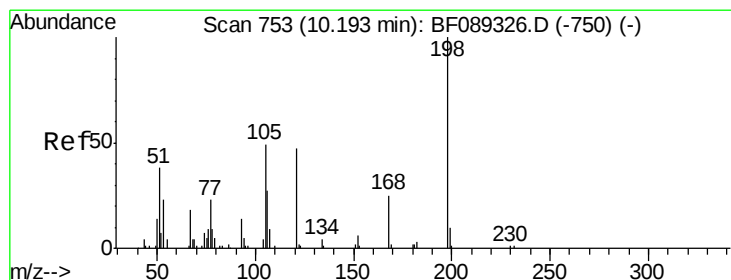
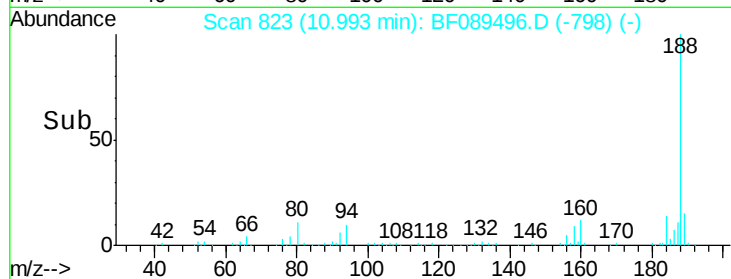
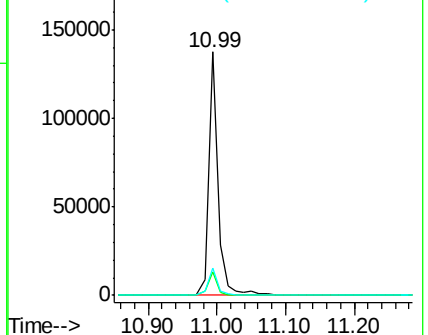
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 10.99 min Scan# 823
Delta R.T. -0.01 min
Lab File: BF089496.D
Acq: 1 Aug 2016 5:31

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 131218
Ion Ratio Lower Upper
188 100
94 9.7 6.5 9.7#
80 11.4 7.2 10.8#

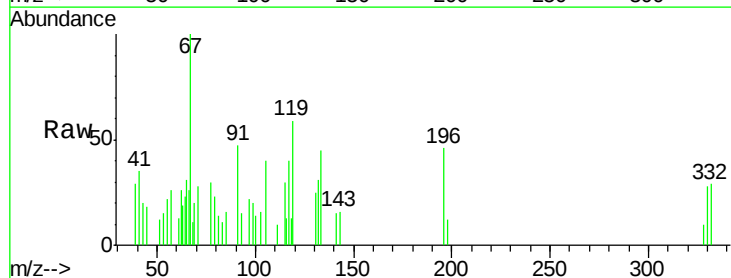


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

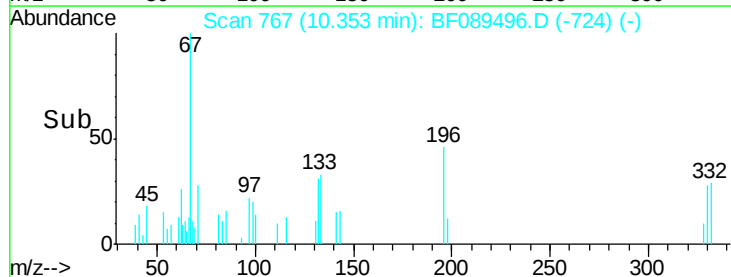
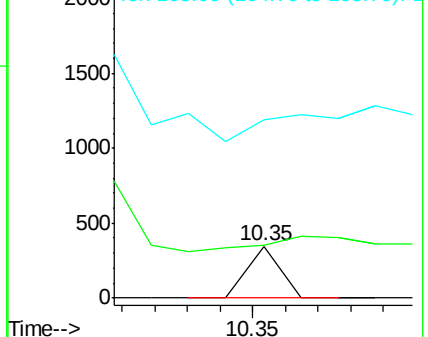


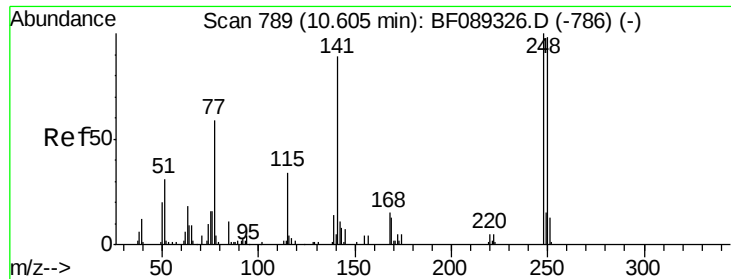
#64
4,6-Dinitro-2-methylphenol
Concen: 4.61 ng
RT: 10.35 min Scan# 767
Delta R.T. 0.19 min
Lab File: BF089496.D
Acq: 1 Aug 2016 5:31

Tgt Ion:198 Resp: 237
Ion Ratio Lower Upper
198 100
51 101.2 23.0 63.0#
105 343.6 28.3 68.3#



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF0
Ion 105.00 (104.70 to 105.70): E





#66

4-Bromophenyl-phenylether

Concen: 4.05 ng

RT: 10.31 min Scan# 763

Delta R.T. -0.25 min

Lab File: BF089496.D

Acq: 1 Aug 2016 5:31

Instrument :

BNA_F

ClientSampleId :

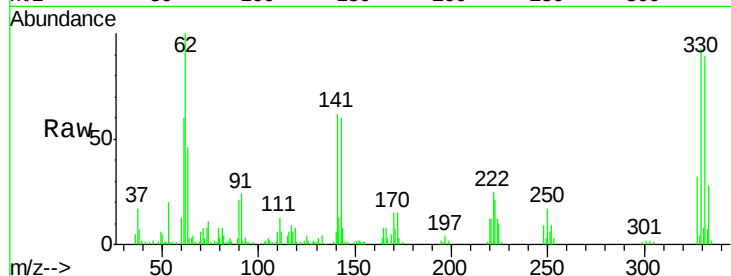
Tot Ion:248 Resp: 5071

Ion Ratio Lower Upper

248 100

250 192.8 78.2 117.2#

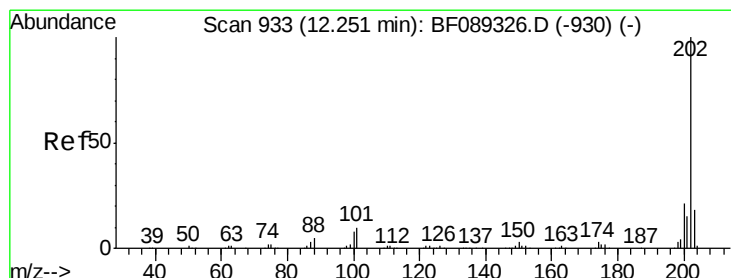
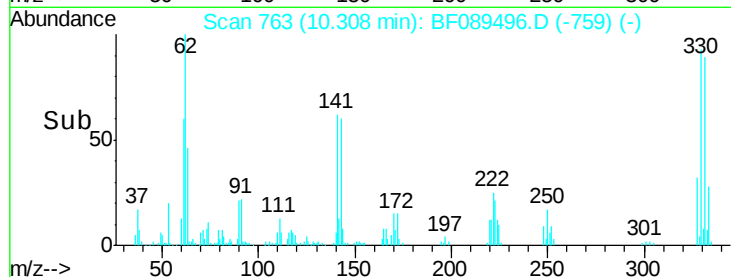
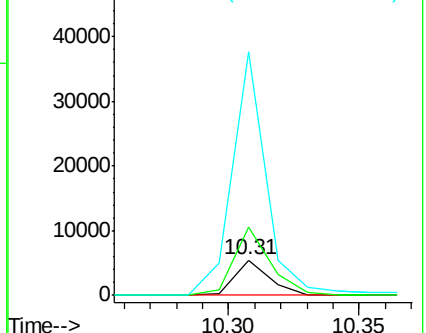
141 692.0 62.0 93.0#



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



#74

Fluoranthene

Concen: 2.85 ng

RT: 12.19 min Scan# 928

Delta R.T. -0.01 min

Lab File: BF089496.D

Acq: 1 Aug 2016 5:31

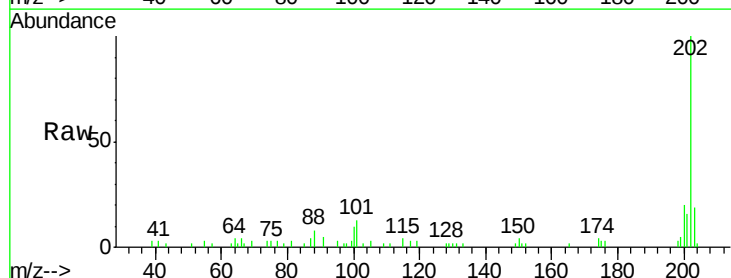
Tgt Ion:202 Resp: 20306

Ion Ratio Lower Upper

202 100

101 13.0 0.0 29.9

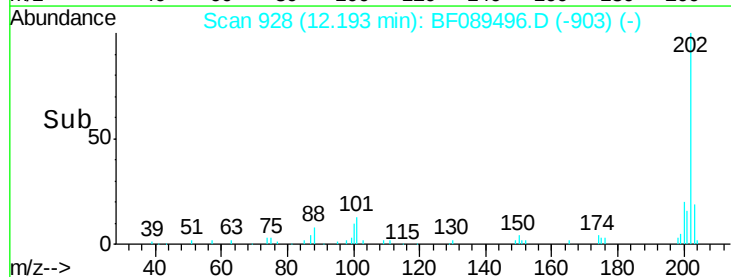
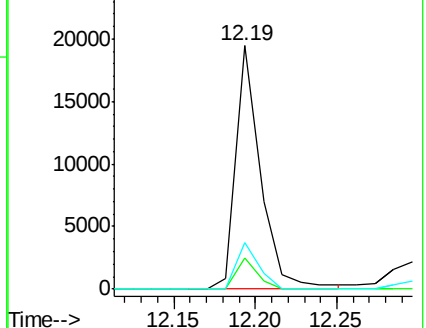
203 19.1 0.0 37.3

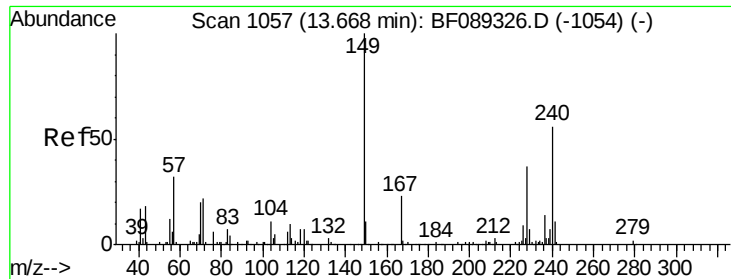


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.61 min Scan# 1052

Delta R.T. -0.01 min

Lab File: BF089496.D

Acq: 1 Aug 2016 5:31

Instrument :

BNA_F

ClientSampled :

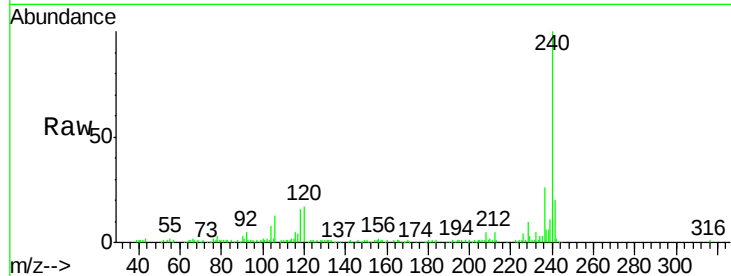
Tot Ion:240 Resp: 103213

Ion Ratio Lower Upper

240 100

120 17.2 9.1 13.7#

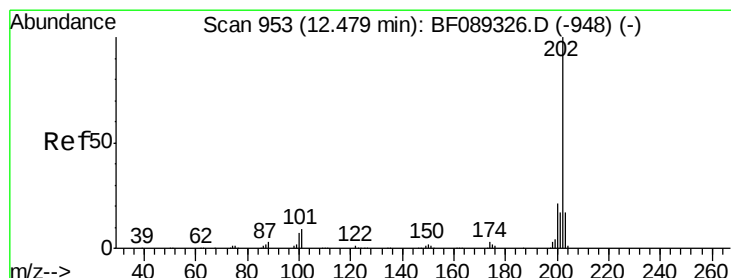
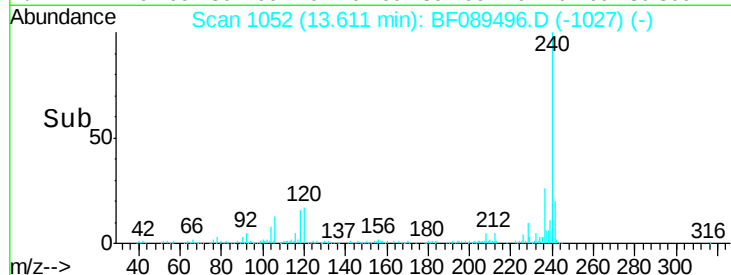
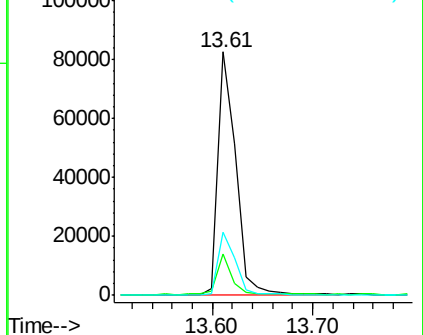
236 25.9 20.6 30.8



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: 2.49 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.01 min

Lab File: BF089496.D

Acq: 1 Aug 2016 5:31

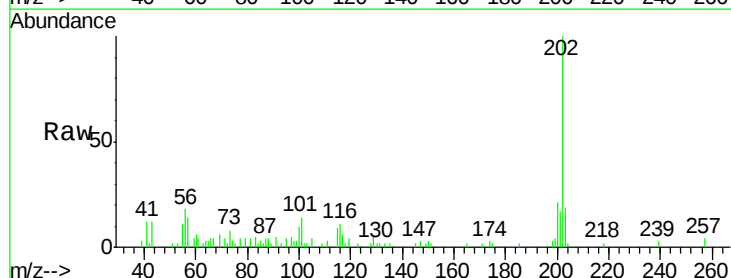
Tgt Ion:202 Resp: 19490

Ion Ratio Lower Upper

202 100

200 21.4 16.9 25.3

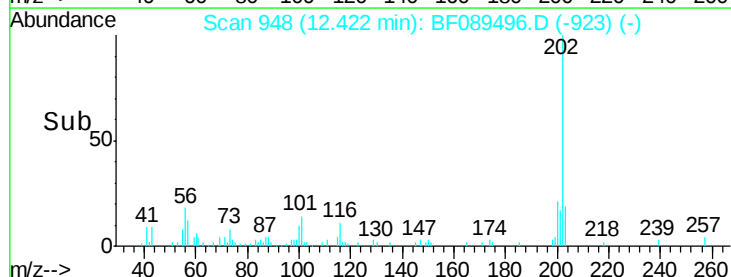
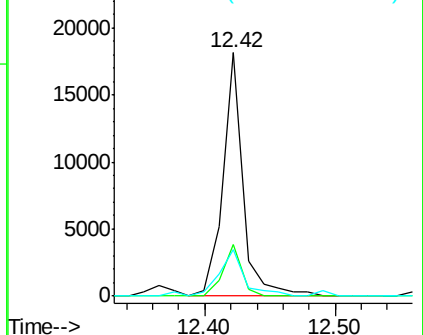
203 19.1 14.0 21.0

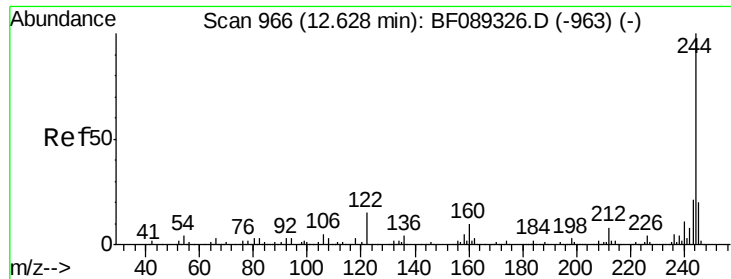


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

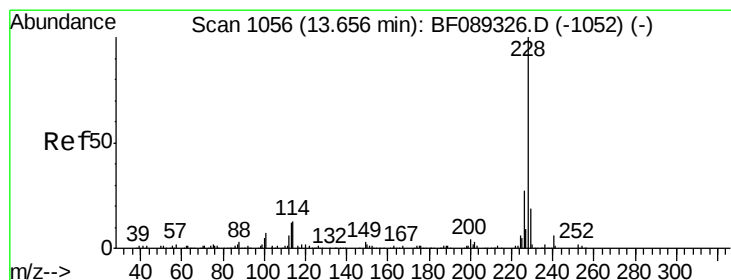
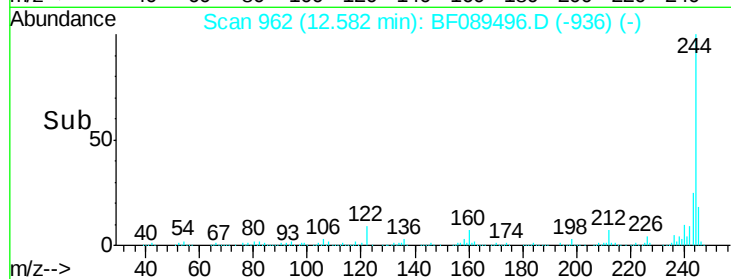
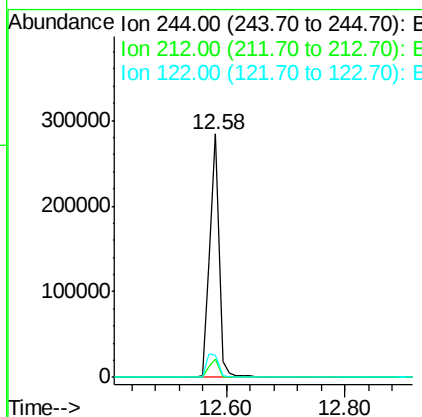
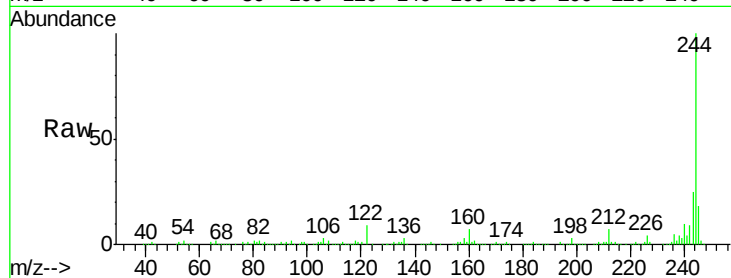




#78
 Terphenyl-d14
 Concen: 71.04 ng
 RT: 12.58 min Scan# 962
 Delta R.T. -0.00 min
 Lab File: BF089496.D
 Acq: 1 Aug 2016 5:31

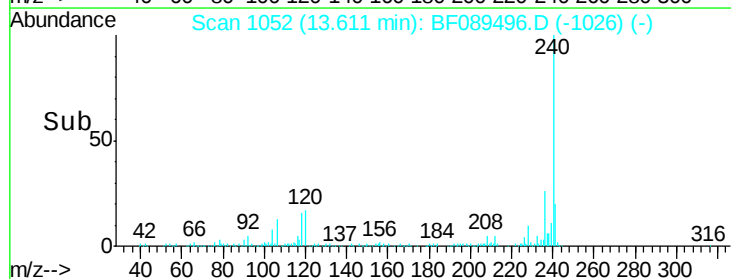
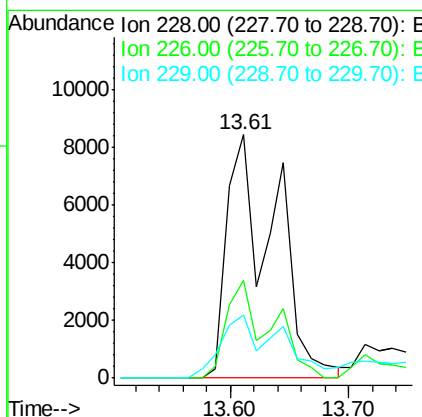
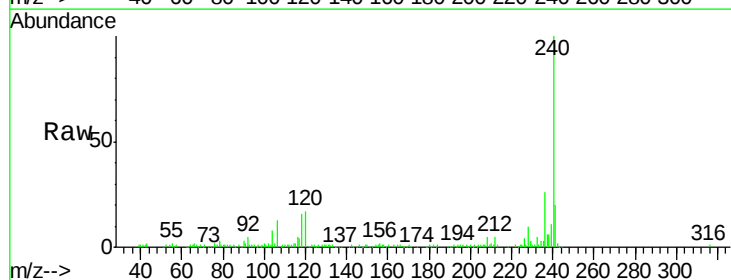
Instrument :
 BNA_F
 ClientSampleId :

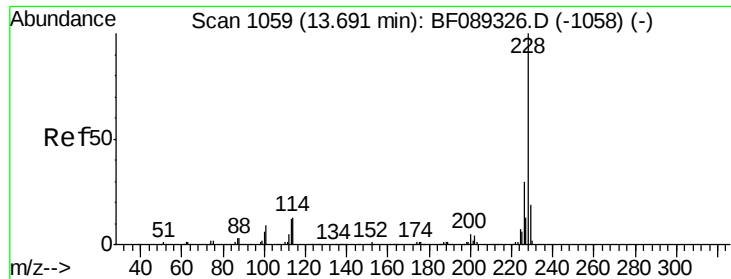
Tot Ion:244 Resp: 313284
 Ion Ratio Lower Upper
 244 100
 212 7.3 6.5 9.7
 122 9.1 11.4 17.0#



#80
 Benzo(a)anthracene
 Concen: 4.02 ng
 RT: 13.61 min Scan# 1052
 Delta R.T. -0.00 min
 Lab File: BF089496.D
 Acq: 1 Aug 2016 5:31

Tgt Ion:228 Resp: 23389
 Ion Ratio Lower Upper
 228 100
 226 40.2 21.4 32.2#
 229 26.0 15.9 23.9#

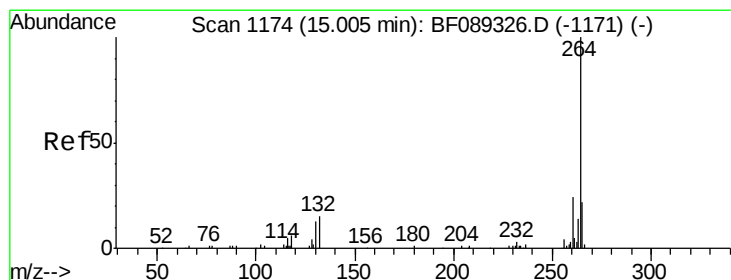
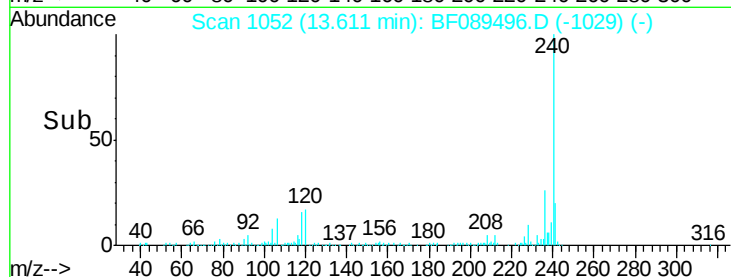
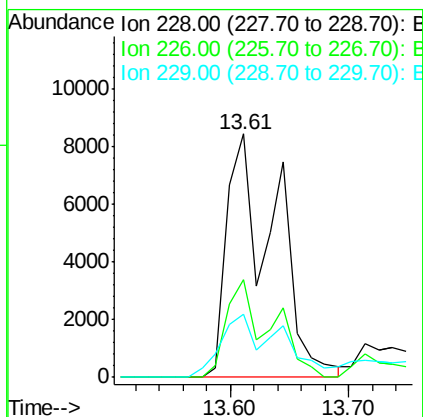
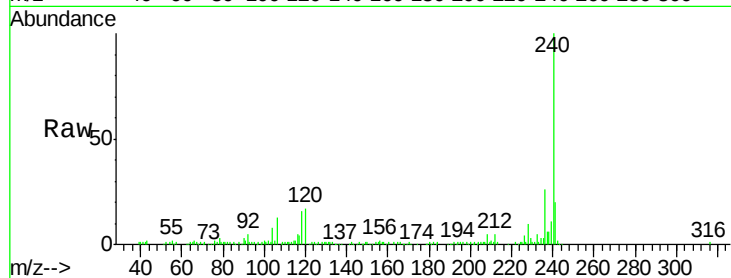




#82
Chrysene
Concen: 3.77 ng
RT: 13.61 min Scan# 1052
Delta R.T. -0.03 min
Lab File: BF089496.D
Acq: 1 Aug 2016 5:31

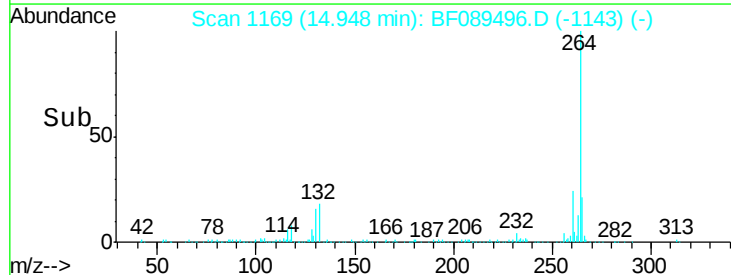
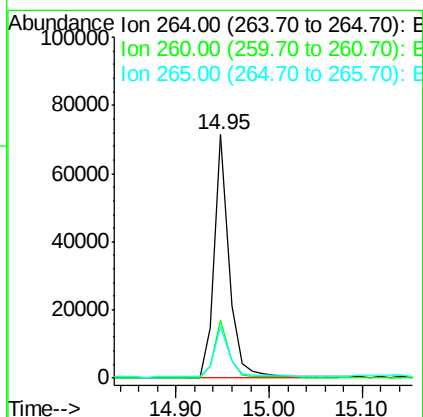
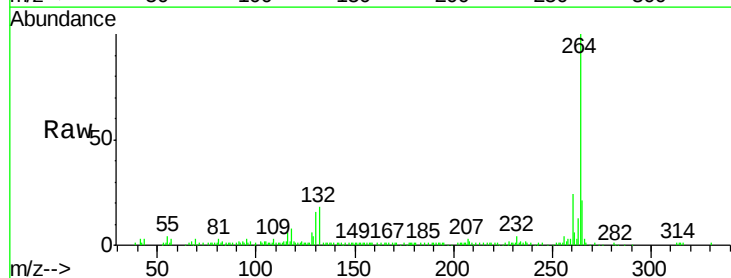
Instrument :
BNA_F
ClientSampleId :

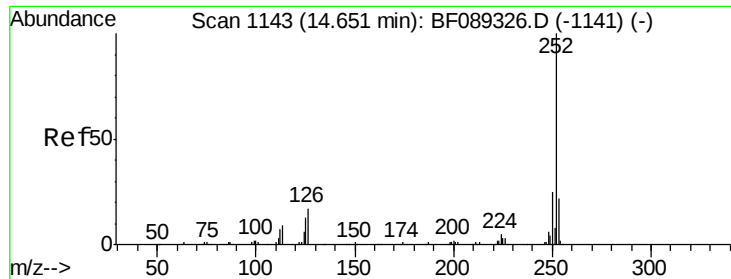
Tot Ion:228 Resp: 23389
Ion Ratio Lower Upper
228 100
226 40.2 24.2 36.2#
229 26.0 15.9 23.9#



#86
Perylene-d12
Concen: 20.00 ng
RT: 14.95 min Scan# 1169
Delta R.T. -0.00 min
Lab File: BF089496.D
Acq: 1 Aug 2016 5:31

Tgt Ion:264 Resp: 81157
Ion Ratio Lower Upper
264 100
260 23.8 19.0 28.4
265 21.4 17.5 26.3

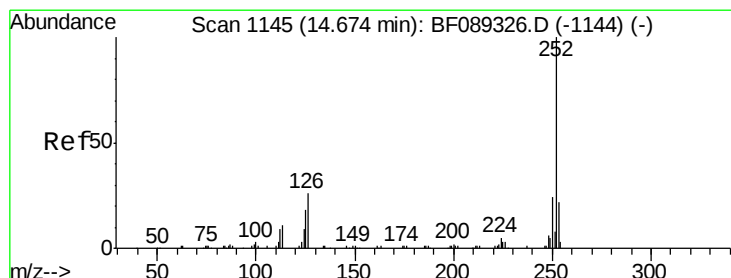
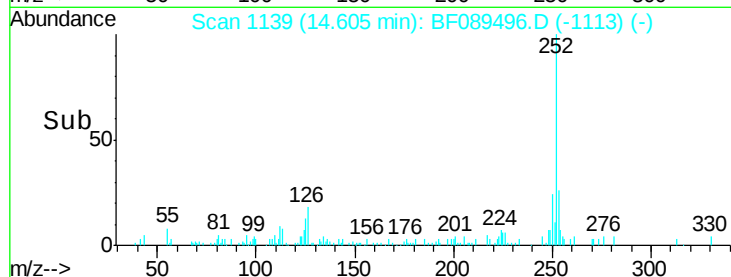
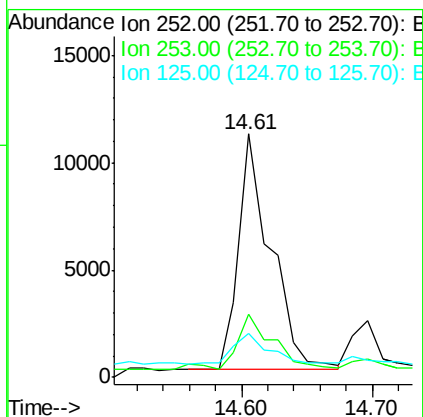
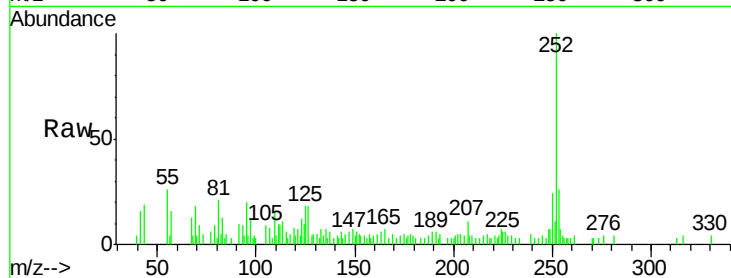




#87
Benzo(b)fluoranthene
Concen: 3.74 ng
RT: 14.61 min Scan# 1139
Delta R.T. -0.00 min
Lab File: BF089496.D
Acq: 1 Aug 2016 5:31

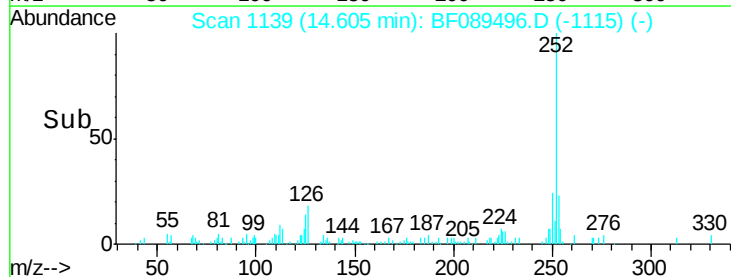
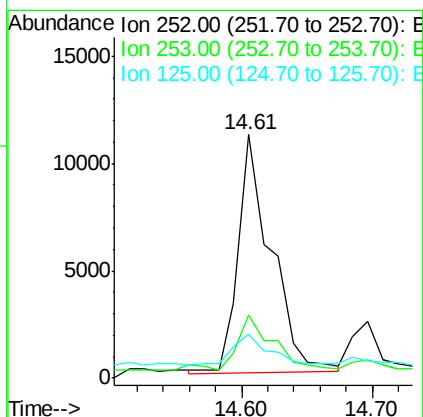
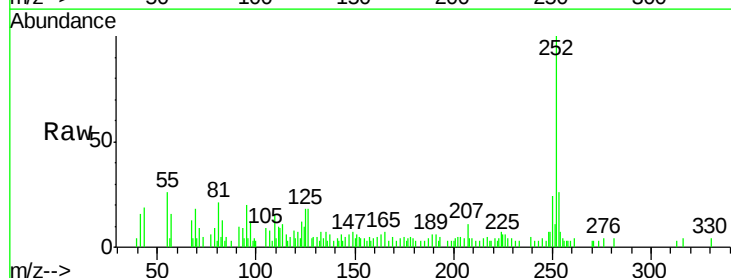
Instrument :
BNA_F
ClientSampled :

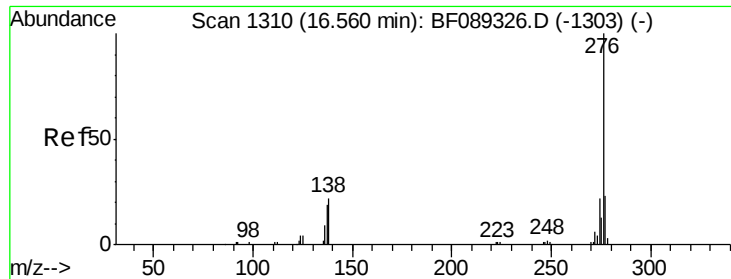
Tot Ion:252 Resp: 18864
Ion Ratio Lower Upper
252 100
253 26.2 17.2 25.8#
125 18.2 9.7 14.5#



#88
Benzo(k)fluoranthene
Concen: 4.19 ng
RT: 14.61 min Scan# 1139
Delta R.T. -0.02 min
Lab File: BF089496.D
Acq: 1 Aug 2016 5:31

Tgt Ion:252 Resp: 19429
Ion Ratio Lower Upper
252 100
253 26.2 17.8 26.8
125 18.2 10.7 16.1#





#91
 Benzo(a,h,i)perylene
 Concen: 2.86 ng
 RT: 16.48 min Scan# 1303
 Delta R.T. -0.00 min
 Lab File: BF089496.D
 Acq: 1 Aug 2016 5:31

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	27.9	18.6	28.0
138	30.8	21.4	32.0

