

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072916\
 Data File : BF089386.D
 Acq On : 29 Jul 2016 2:35
 Operator : UM/SJ
 Sample : H4216-10
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-4(LOT112)0-1

Quant Time: Jul 29 03:23:34 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	6.52	152	45871	20.00	ng	-0.02
21) Naphthalene-d8	7.82	136	172401	20.00	ng	-0.01
38) Acenaphthene-d10	9.55	164	77091	20.00	ng	-0.02
63) Phenanthrene-d10	11.03	188	122481	20.00	ng	-0.02
75) Chrysene-d12	13.65	240	95654	20.00	ng	-0.02
86) Perylene-d12	14.98	264	81315	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.10	112	252196	87.79	ng	-0.01
7) Phenol-d6	6.18	99	323712	85.26	ng	-0.02
23) Nitrobenzene-d5	7.10	82	215008	73.61	ng	-0.02
41) 2,4,6-Tribromophenol	10.34	330	52151	81.68	ng	-0.02
44) 2-Fluorobiphenyl	8.89	172	367862	70.03	ng	-0.02
78) Terphenyl-d14	12.60	244	234146	57.29	ng	-0.02

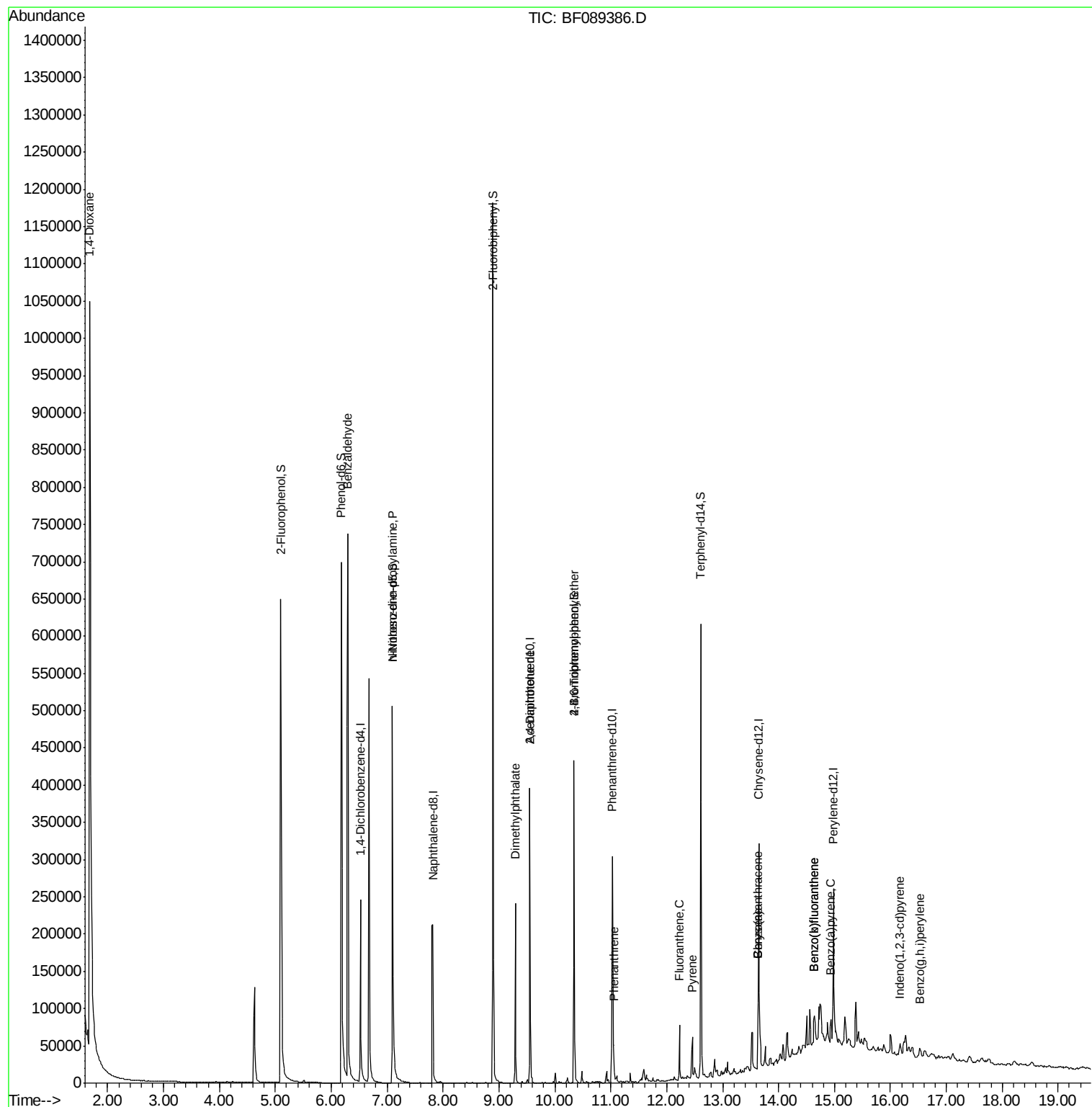
Target Compounds						Qvalue
2) 1,4-Dioxane	1.68	88	52525	40.39	ng	# 26
9) Benzaldehyde	6.30	77	6468	3.49	ng	90
19) n-Nitroso-di-n-propylamine	7.10	70	27945	12.21	ng	# 82
49) Dimethylphthalate	9.29	163	94568	16.12	ng	99
56) 2,4-Dinitrotoluene	9.55	165	9779	6.16	ng	# 7
66) 4-Bromophenyl-phenylether	10.34	248	3753	3.21	ng	# 1
70) Phenanthrene	11.05	178	17468	2.77	ng	98
74) Fluoranthene	12.23	202	32457	4.88	ng	98
77) Pyrene	12.46	202	30771	4.24	ng	99
80) Benzo(a)anthracene	13.63	228	15727	2.91	ng	# 87
82) Chrysene	13.63	228	15727	2.74	ng	91
85) Indeno(1,2,3-cd)pyrene	16.17	276	8784	2.15	ng	99
87) Benzo(b)fluoranthene	14.64	252	26428	5.23	ng	# 90
88) Benzo(k)fluoranthene	14.64	252	26428	5.69	ng	# 93
89) Benzo(a)pyrene	14.94	252	14055	3.10	ng	96
91) Benzo(g,h,i)perylene	16.53	276	8558	2.44	ng	96

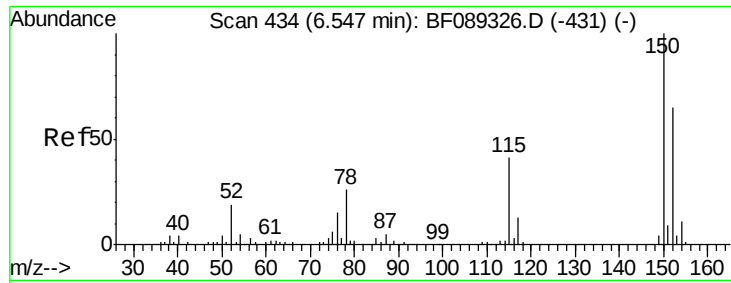
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.52 min Scan# 432

Delta R.T. -0.02 min

Lab File: BF089386.D

Acq: 29 Jul 2016 2:35

Instrument :

BNA_F

ClientSampleId :

SP-4(LOT112)0-1

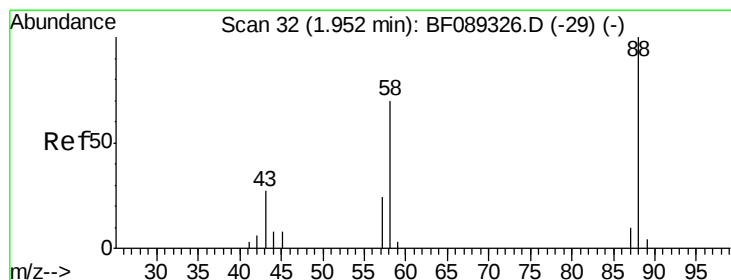
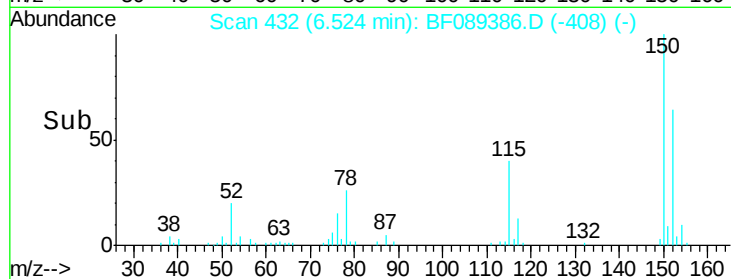
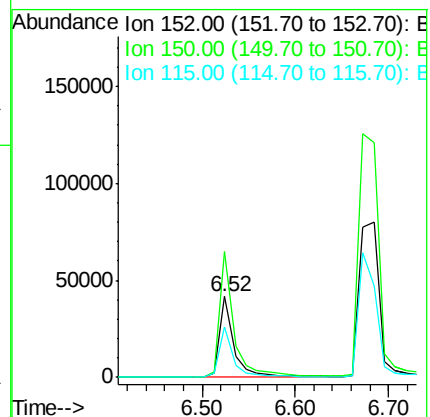
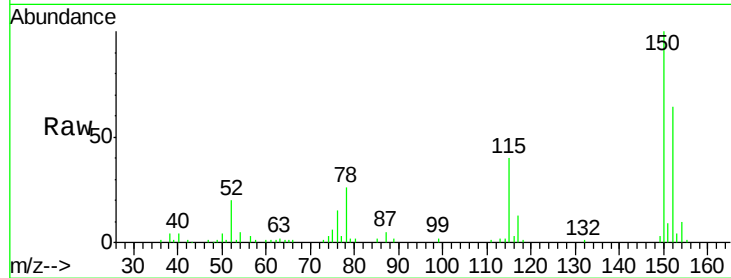
Tgt Ion:152 Resp: 45871

Ion Ratio Lower Upper

152 100

150 155.7 129.5 194.3

115 63.0 51.4 77.2



#2

1,4-Dioxane

Concen: 40.39 ng

RT: 1.68 min Scan# 8

Delta R.T. -0.27 min

Lab File: BF089386.D

Acq: 29 Jul 2016 2:35

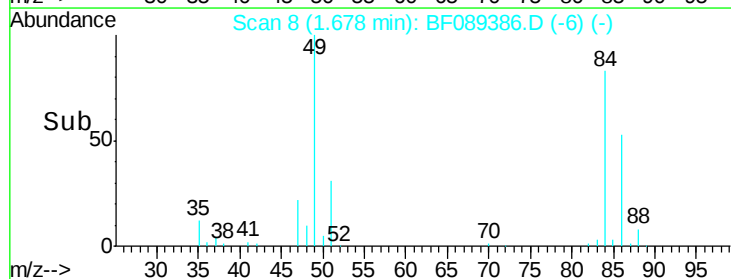
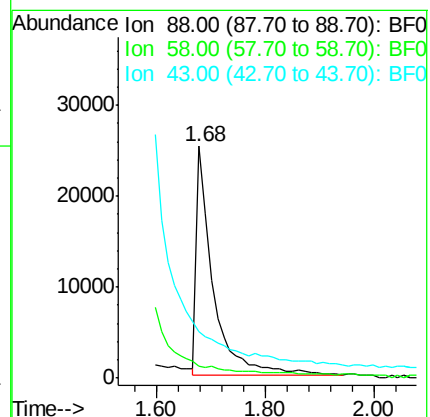
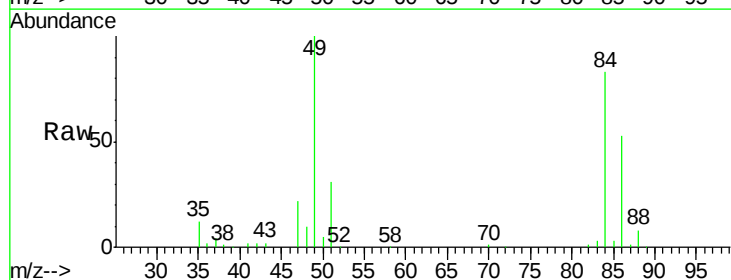
Tgt Ion: 88 Resp: 52525

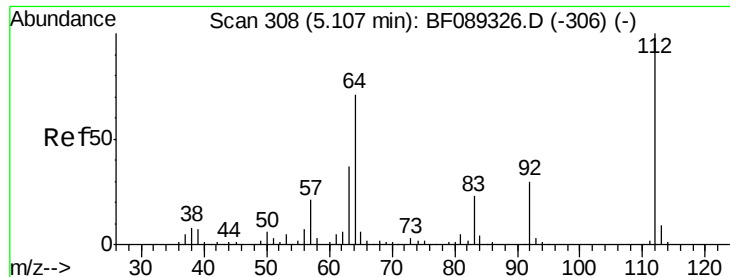
Ion Ratio Lower Upper

88 100

58 0.0 53.2 79.8#

43 0.0 20.6 31.0#





#5

2-Fluorophenol

Concen: 87.79 ng

RT: 5.10 min Scan# 307

Delta R.T. -0.01 min

Lab File: BF089386.D

Acq: 29 Jul 2016 2:35

Instrument :

BNA_F

ClientSampleId :

SP-4(LOT112)0-1

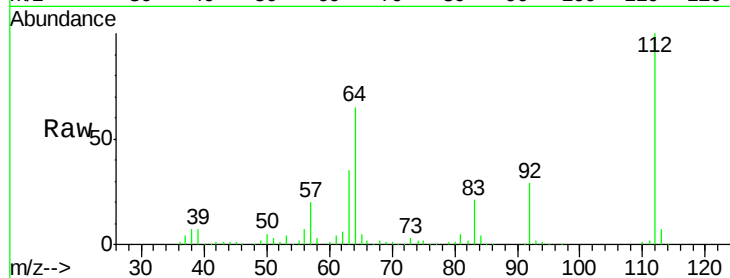
Tgt Ion: 112 Resp: 252196

Ion Ratio Lower Upper

112 100

64 64.6 55.0 82.6

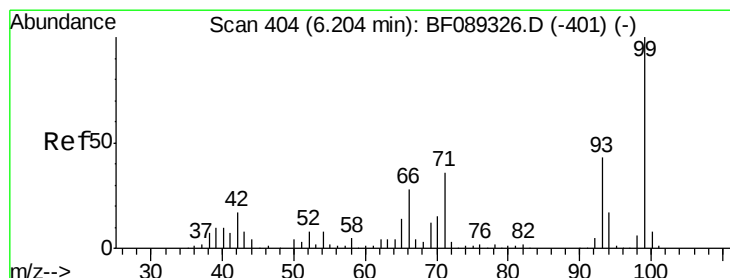
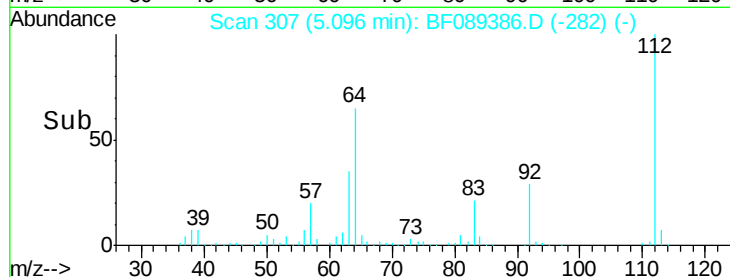
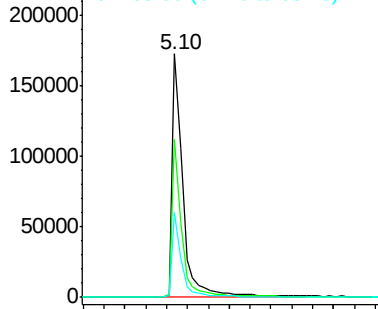
63 34.9 29.4 44.2



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: 85.26 ng

RT: 6.18 min Scan# 402

Delta R.T. -0.02 min

Lab File: BF089386.D

Acq: 29 Jul 2016 2:35

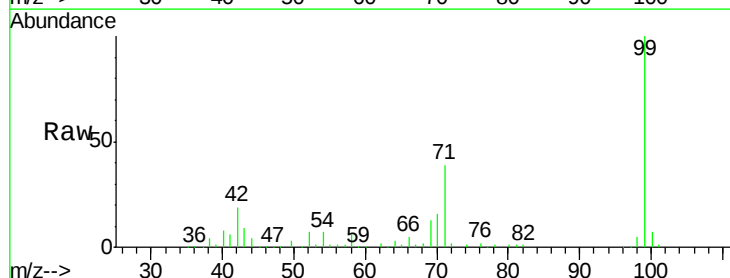
Tgt Ion: 99 Resp: 323712

Ion Ratio Lower Upper

99 100

42 19.1 13.6 20.4

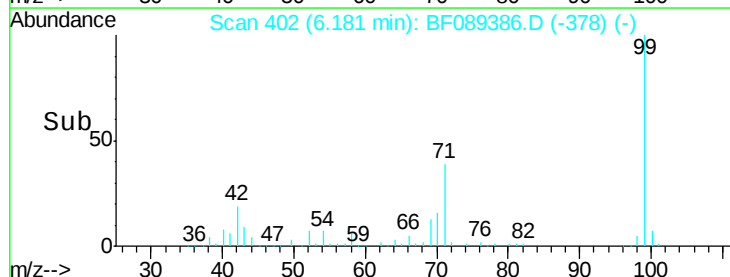
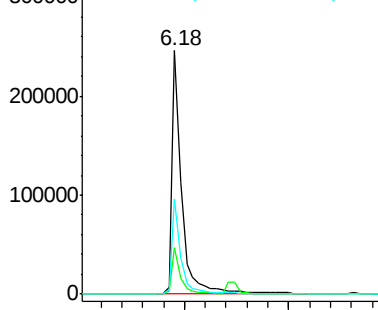
71 39.1 29.4 44.2

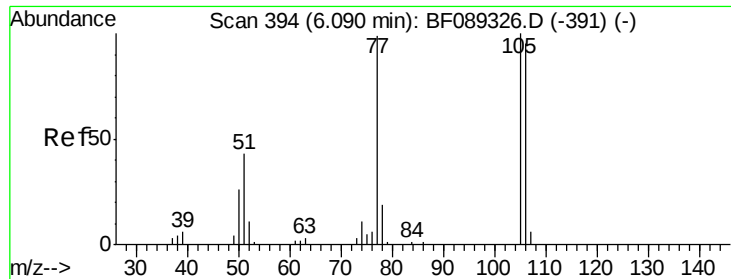


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#9

Benzaldehyde

Concen: 3.49 ng

RT: 6.30 min Scan# 412

Delta R.T. 0.21 min

Lab File: BF089386.D

Acq: 29 Jul 2016 2:35

Instrument :

BNA_F

ClientSampleId :

SP-4(LOT112)0-1

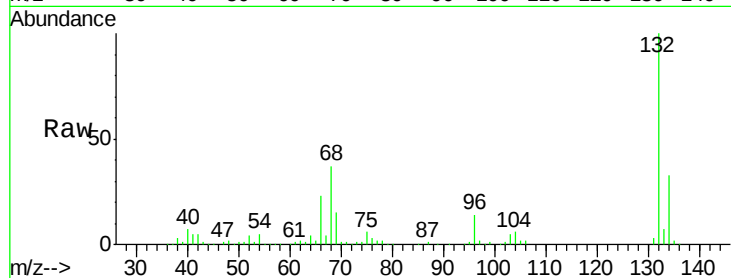
Tgt Ion: 77 Resp: 6468

Ion Ratio Lower Upper

77 100

105 90.0 82.9 122.9

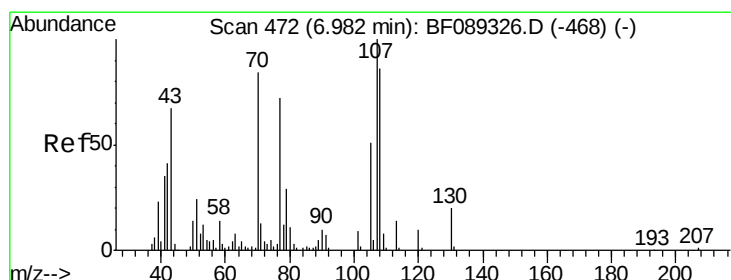
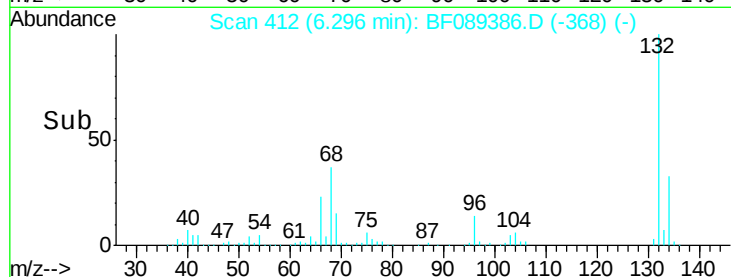
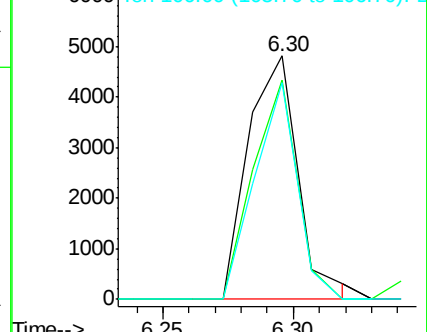
106 88.9 75.9 115.9



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E



#19

n-Nitroso-di-n-propylamine

Concen: 12.21 ng

RT: 7.10 min Scan# 482

Delta R.T. 0.11 min

Lab File: BF089386.D

Acq: 29 Jul 2016 2:35

Tgt Ion: 70 Resp: 27945

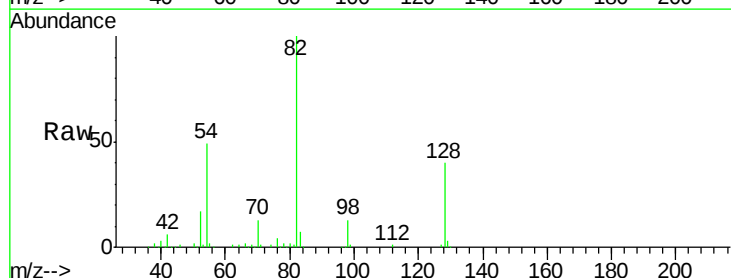
Ion Ratio Lower Upper

70 100

42 46.0 38.6 57.8

101 0.0 8.3 12.5#

130 2.1 19.0 28.4#

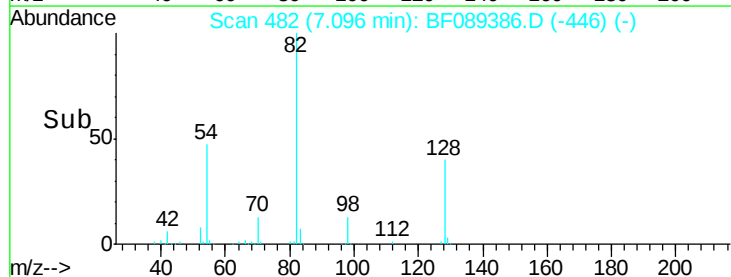
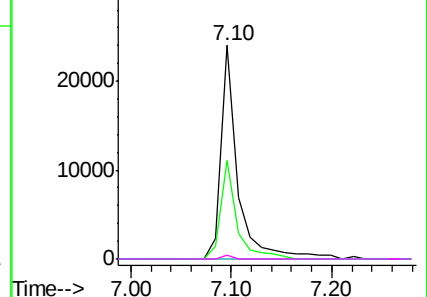


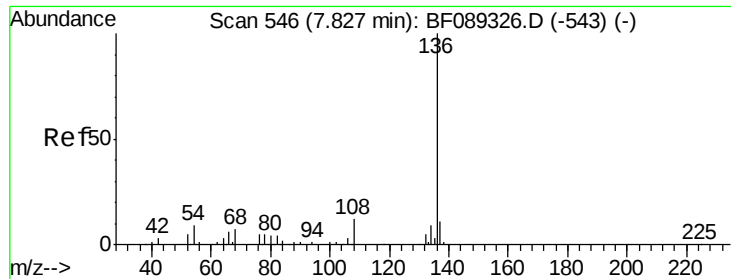
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

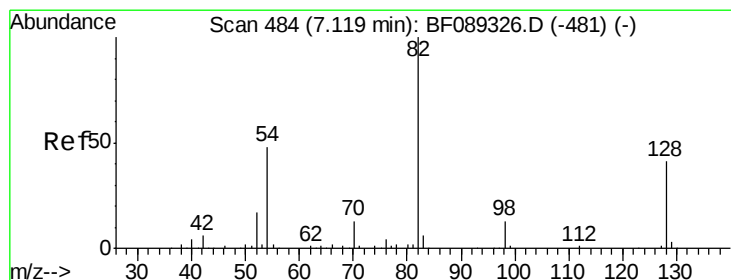
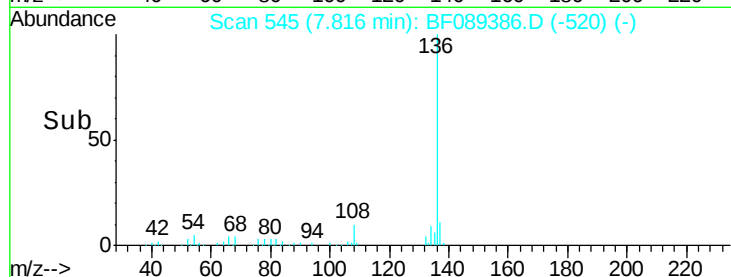
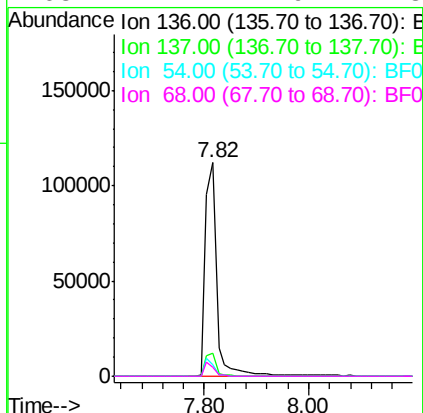
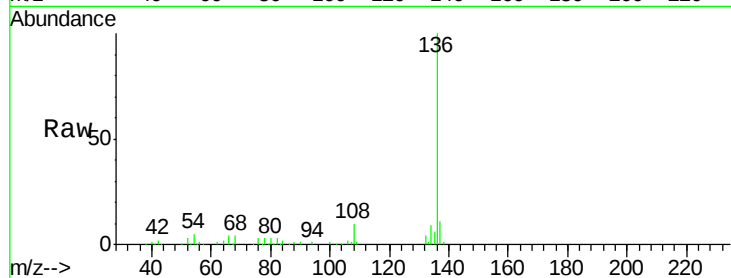




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.82 min Scan# 545
Delta R.T. -0.01 min
Lab File: BF089386.D
Acq: 29 Jul 2016 2:35

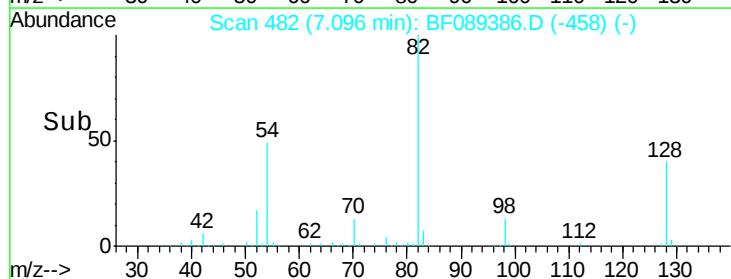
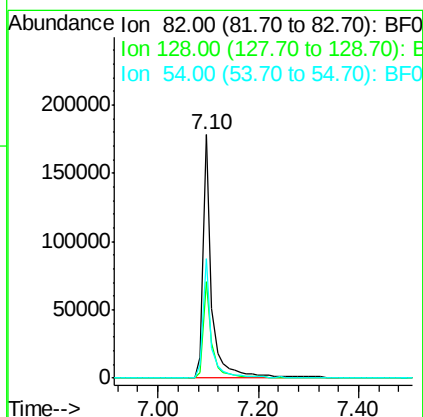
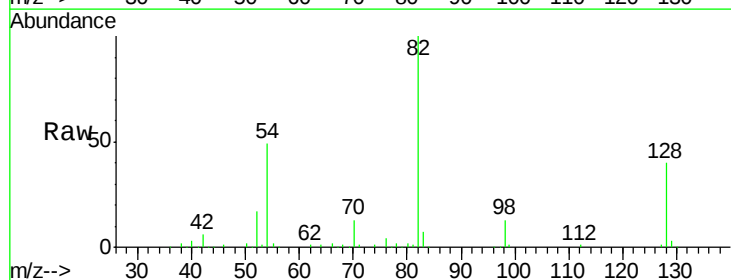
Instrument :
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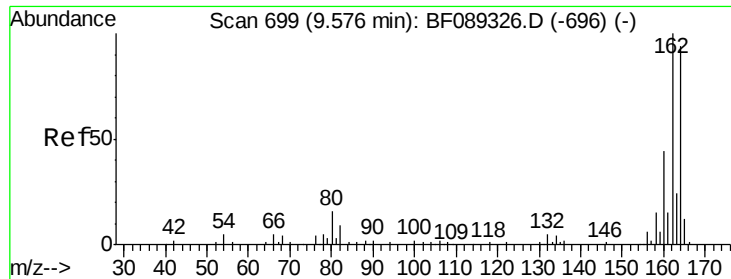
Tgt Ion:	136	Resp:	172401
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	5.2	7.0	10.4#
68	4.4	4.9	7.3#



#23
Nitrobenzene-d5
Concen: 73.61 ng
RT: 7.10 min Scan# 482
Delta R.T. -0.02 min
Lab File: BF089386.D
Acq: 29 Jul 2016 2:35

Tgt Ion:	82	Resp:	215008
Ion	Ratio	Lower	Upper
82	100		
128	39.8	32.5	48.7
54	49.2	38.8	58.2

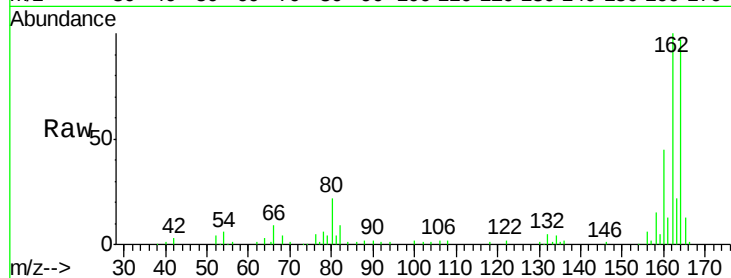




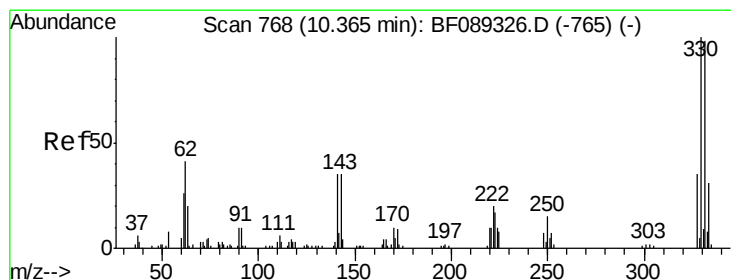
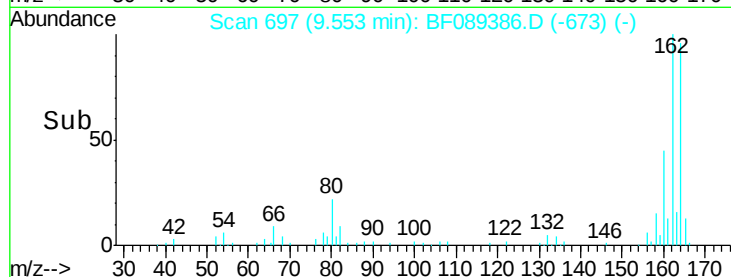
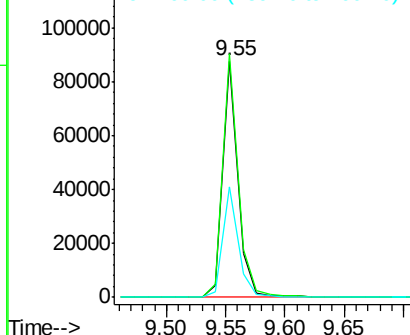
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.55 min Scan# 697
 Delta R.T. -0.02 min
 Lab File: BF089386.D
 Acq: 29 Jul 2016 2:35

Instrument :
 BNA_F
 ClientSampleId :
 SP-4(LOT112)0-1

Tgt Ion:164 Resp: 77091
 Ion Ratio Lower Upper
 164 100
 162 103.2 83.7 125.5
 160 46.9 37.8 56.6

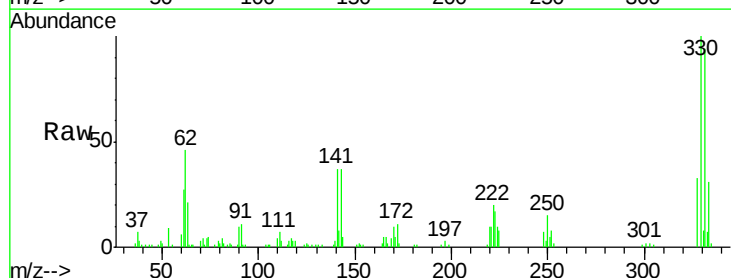


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

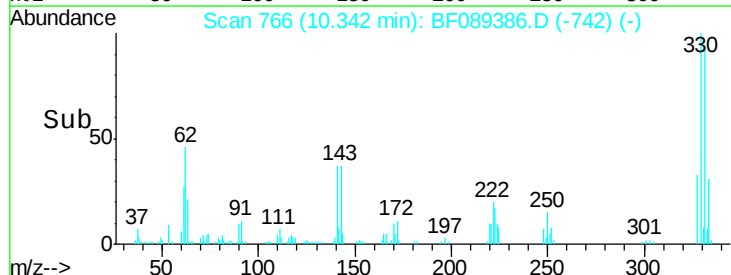
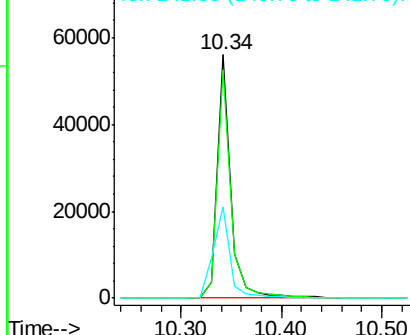


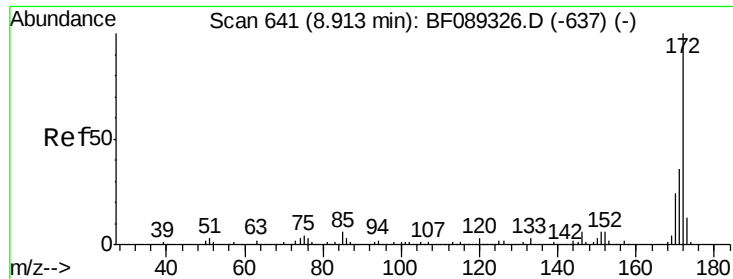
#41
 2,4,6-Tribromophenol
 Concen: 81.68 ng
 RT: 10.34 min Scan# 766
 Delta R.T. -0.02 min
 Lab File: BF089386.D
 Acq: 29 Jul 2016 2:35

Tgt Ion:330 Resp: 52151
 Ion Ratio Lower Upper
 330 100
 332 94.9 76.8 115.2
 141 46.2 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

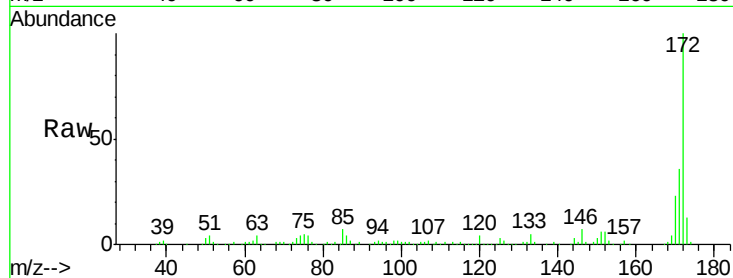




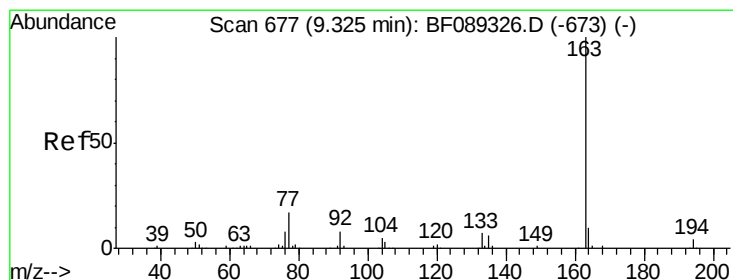
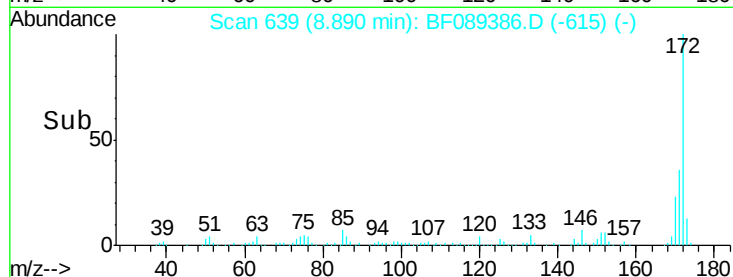
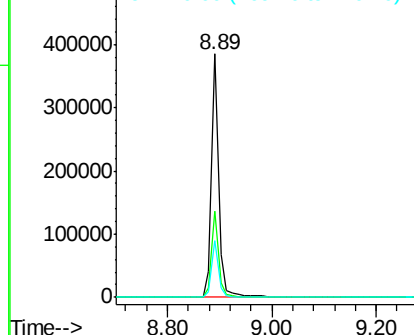
#44
 2-Fluorobiphenyl
 Concen: 70.03 ng
 RT: 8.89 min Scan# 639
 Delta R.T. -0.02 min
 Lab File: BF089386.D
 Acq: 29 Jul 2016 2:35

Instrument :
 BNA_F
 ClientSampleId :
 SP-4(LOT112)0-1

Tgt Ion:172 Resp: 367862
 Ion Ratio Lower Upper
 172 100
 171 35.6 29.2 43.8
 170 23.3 19.2 28.8

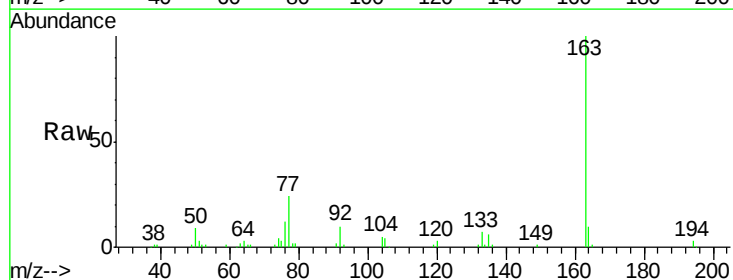


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

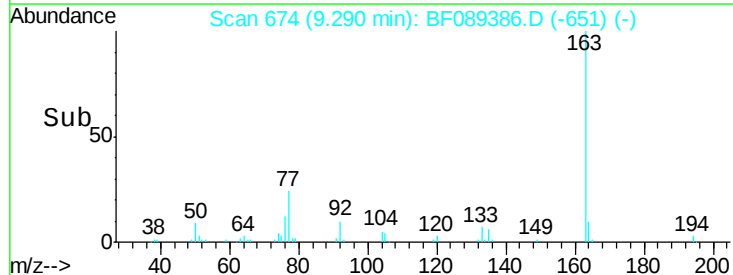
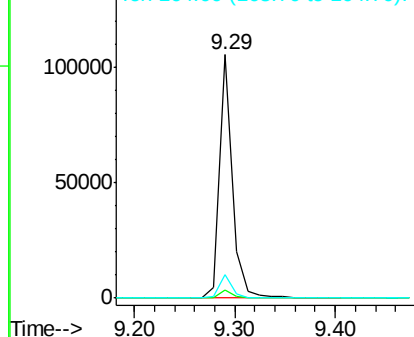


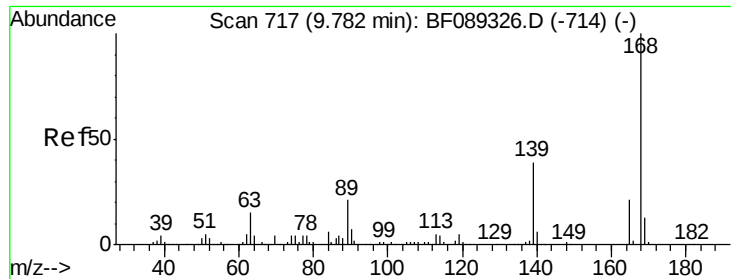
#49
 Dimethylphthalate
 Concen: 16.12 ng
 RT: 9.29 min Scan# 674
 Delta R.T. -0.03 min
 Lab File: BF089386.D
 Acq: 29 Jul 2016 2:35

Tgt Ion:163 Resp: 94568
 Ion Ratio Lower Upper
 163 100
 194 3.1 2.8 4.2
 164 9.9 7.8 11.8



Abundance Ion 163.00 (162.70 to 163.70): E
 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E

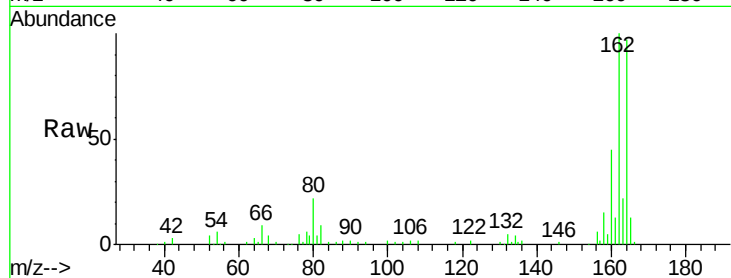




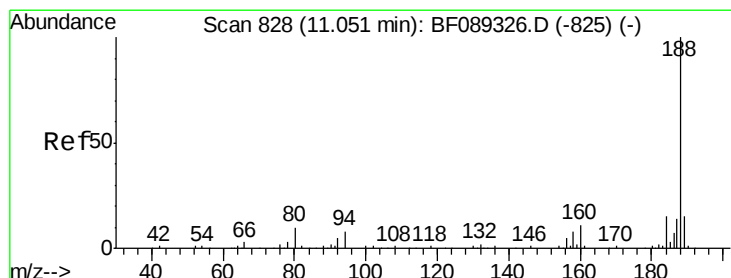
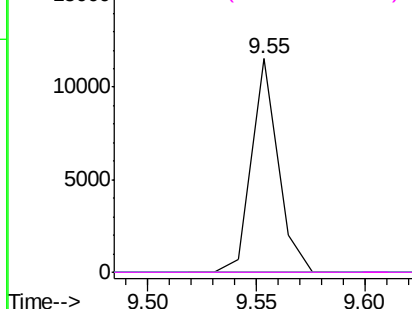
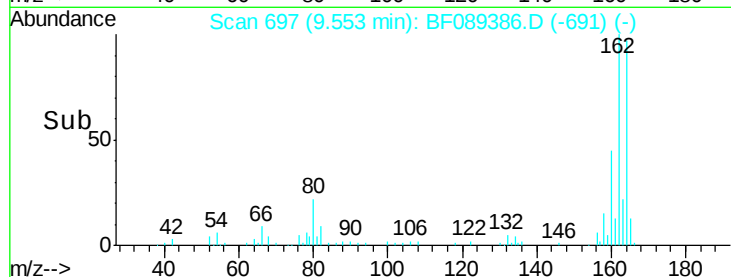
#56
 2,4-Dinitrotoluene
 Concen: 6.16 ng
 RT: 9.55 min Scan# 697
 Delta R.T. -0.23 min
 Lab File: BF089386.D
 Acq: 29 Jul 2016 2:35

Instrument :
 BNA_F
 ClientSampleId :
 SP-4(LOT112)0-1

Tgt Ion:165 Resp: 9779
 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#

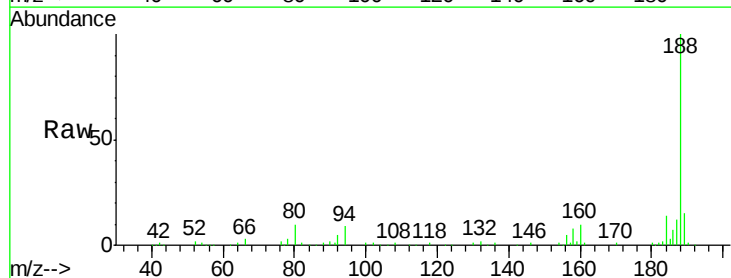


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0
 Ion 182.00 (181.70 to 182.70): E

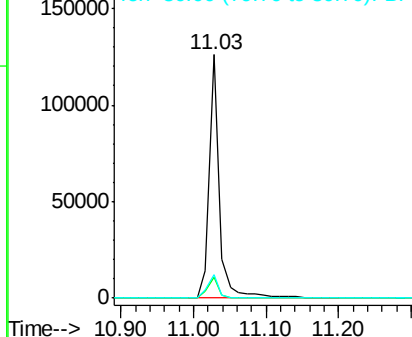
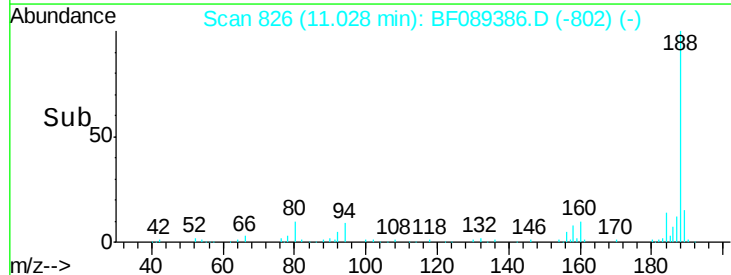


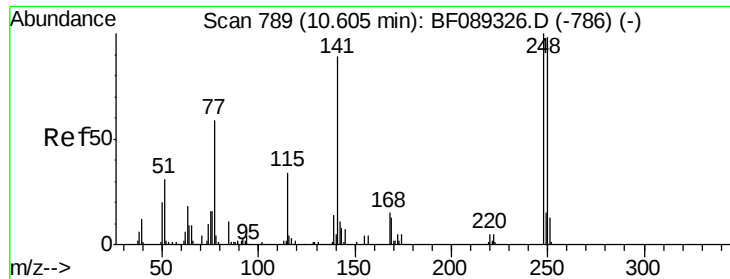
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.03 min Scan# 826
 Delta R.T. -0.02 min
 Lab File: BF089386.D
 Acq: 29 Jul 2016 2:35

Tgt Ion:188 Resp: 122481
 Ion Ratio Lower Upper
 188 100
 94 8.7 6.5 9.7
 80 9.5 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

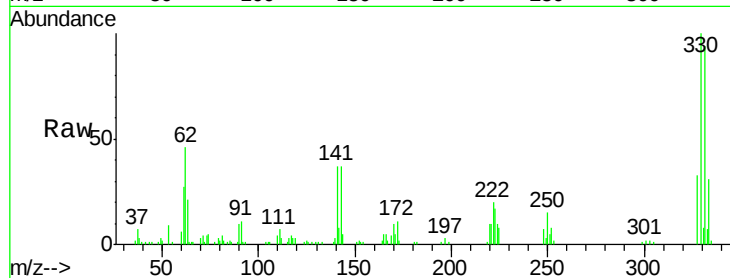




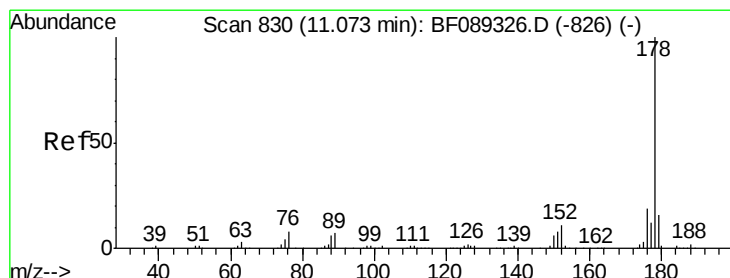
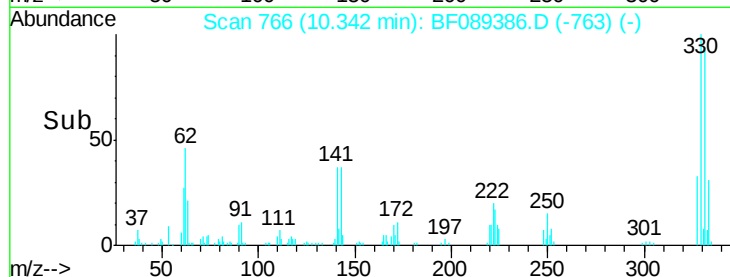
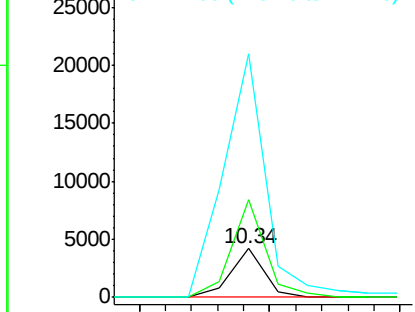
#66
4-Bromophenyl-phenylether
Concen: 3.21 ng
RT: 10.34 min Scan# 766
Delta R.T. -0.26 min
Lab File: BF089386.D
Acq: 29 Jul 2016 2:35

Instrument :
BNA_F
ClientSampleId :
SP-4(LOT112)0-1

Tgt Ion: 248 Resp: 3753
Ion Ratio Lower Upper
248 100
250 199.0 78.2 117.2#
141 498.5 62.0 93.0#

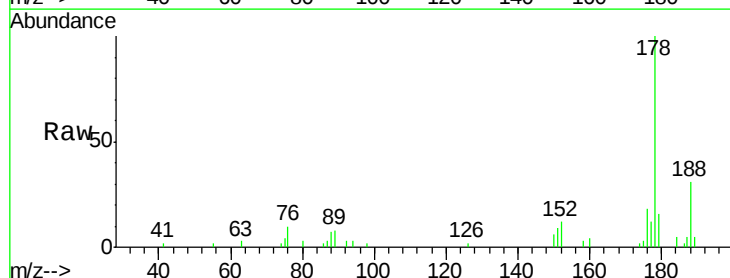


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

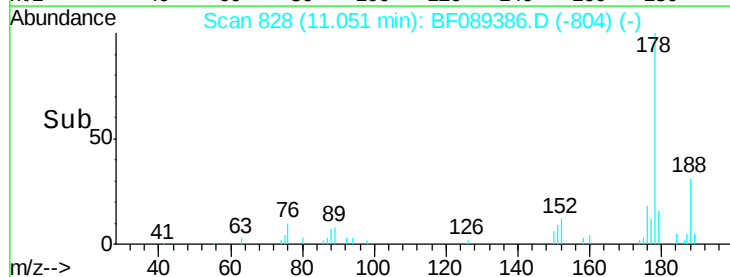
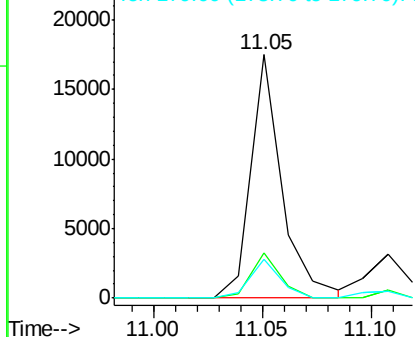


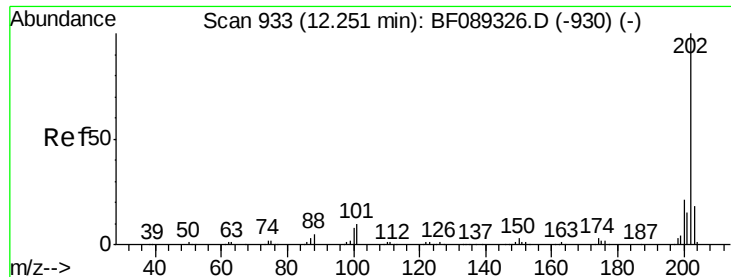
#70
Phenanthrene
Concen: 2.77 ng
RT: 11.05 min Scan# 828
Delta R.T. -0.02 min
Lab File: BF089386.D
Acq: 29 Jul 2016 2:35

Tgt Ion: 178 Resp: 17468
Ion Ratio Lower Upper
178 100
176 18.3 15.5 23.3
179 15.7 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

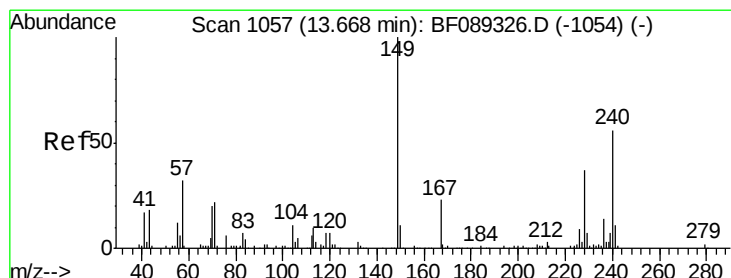
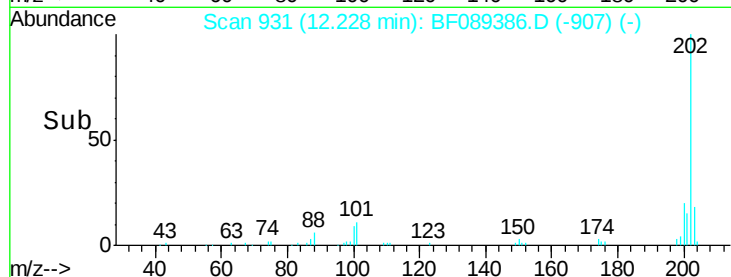
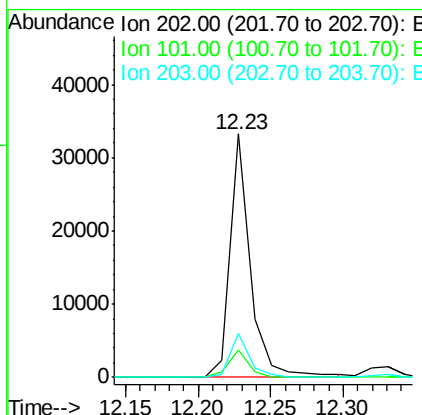
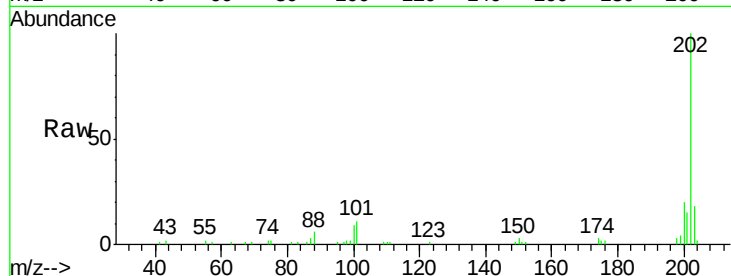




#74
 Fluoranthene
 Concen: 4.88 ng
 RT: 12.23 min Scan# 931
 Delta R.T. -0.02 min
 Lab File: BF089386.D
 Acq: 29 Jul 2016 2:35

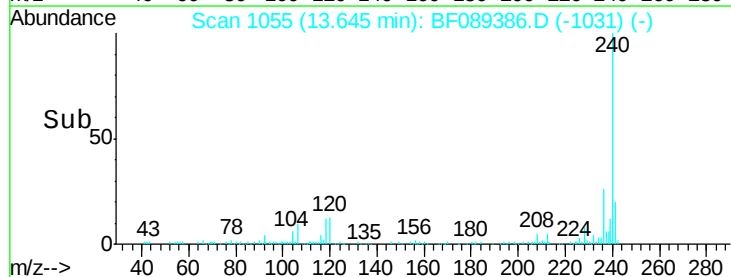
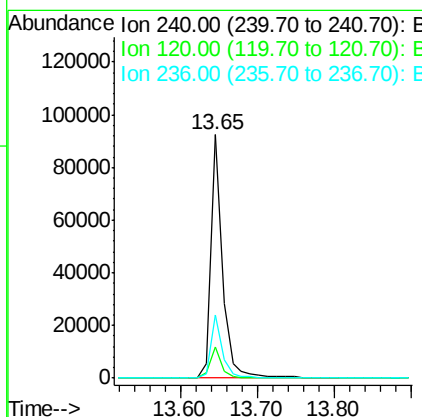
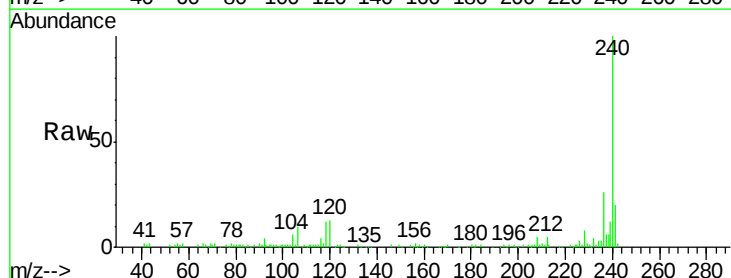
Instrument :
 BNA_F
 ClientSampleId :
 SP-4(LOT112)0-1

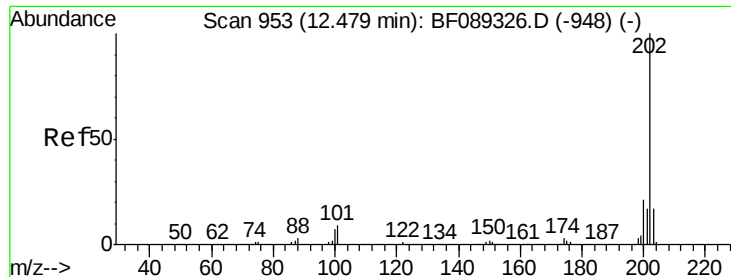
Tgt Ion: 202 Resp: 32457
 Ion Ratio Lower Upper
 202 100
 101 11.5 0.0 29.9
 203 17.8 0.0 37.3



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.65 min Scan# 1055
 Delta R.T. -0.02 min
 Lab File: BF089386.D
 Acq: 29 Jul 2016 2:35

Tgt Ion: 240 Resp: 95654
 Ion Ratio Lower Upper
 240 100
 120 13.0 9.1 13.7
 236 26.0 20.6 30.8





#77

Pyrene

Concen: 4.24 ng

RT: 12.46 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF089386.D

Acq: 29 Jul 2016 2:35

Instrument :

BNA_F

ClientSampleId :

SP-4(LOT112)0-1

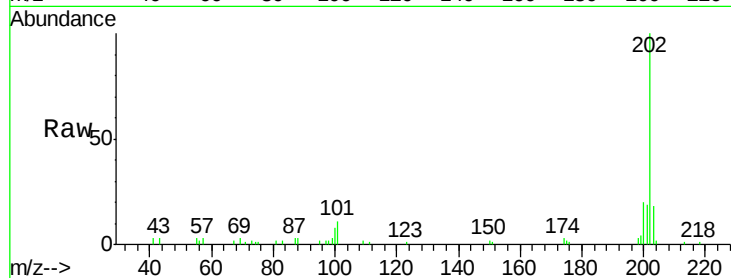
Tgt Ion:202 Resp: 30771

Ion Ratio Lower Upper

202 100

200 20.2 16.9 25.3

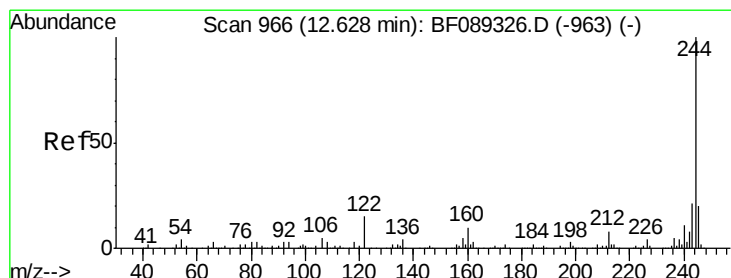
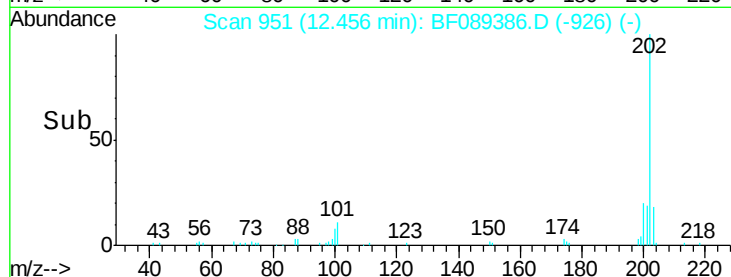
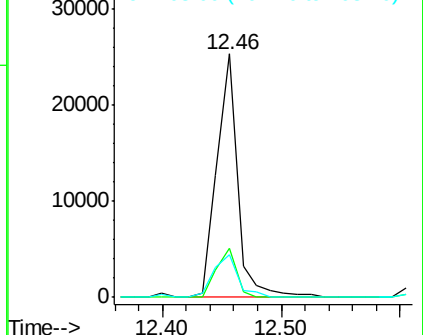
203 17.5 14.0 21.0



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: 57.29 ng

RT: 12.60 min Scan# 964

Delta R.T. -0.02 min

Lab File: BF089386.D

Acq: 29 Jul 2016 2:35

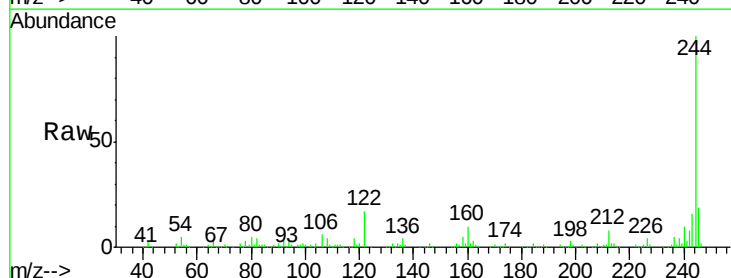
Tgt Ion:244 Resp: 234146

Ion Ratio Lower Upper

244 100

212 8.1 6.5 9.7

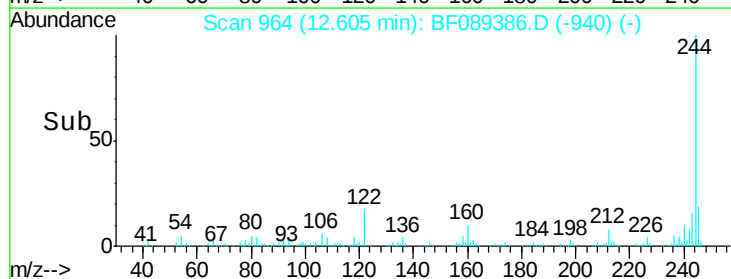
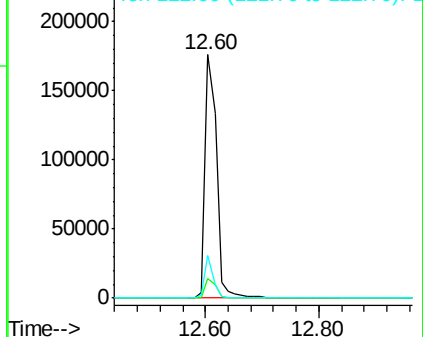
122 17.4 11.4 17.0#

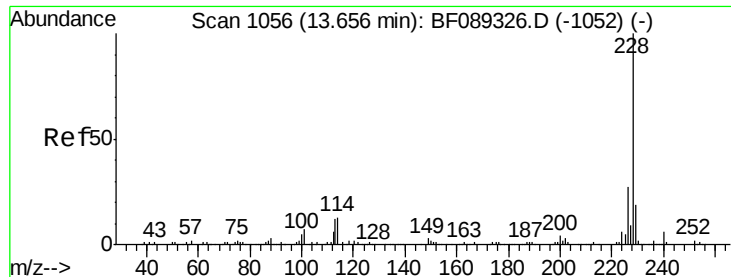


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.91 ng

RT: 13.63 min Scan# 1054

Delta R.T. -0.02 min

Lab File: BF089386.D

Acq: 29 Jul 2016 2:35

Instrument :

BNA_F

ClientSampleId :

SP-4(LOT112)0-1

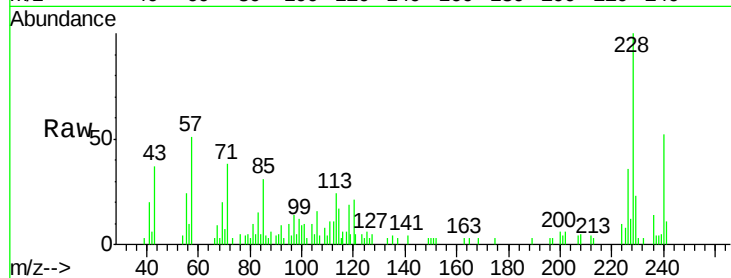
Tgt Ion:228 Resp: 15727

Ion Ratio Lower Upper

228 100

226 35.7 21.4 32.2#

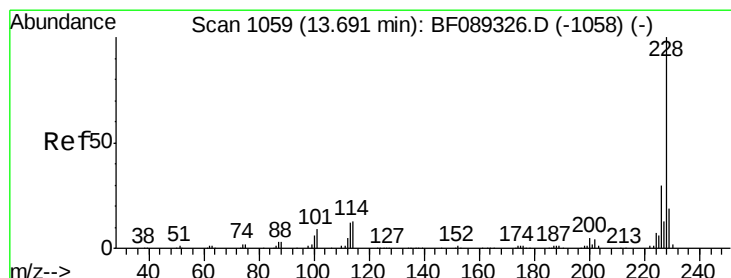
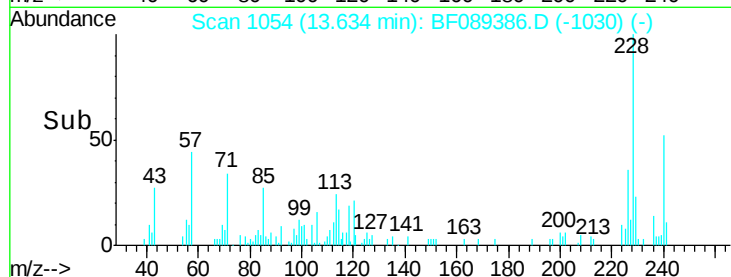
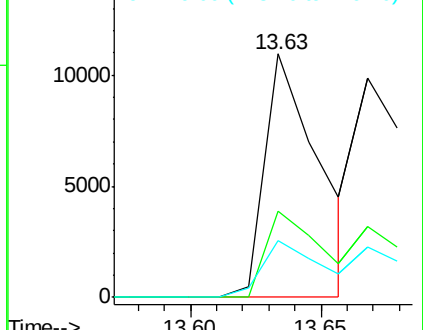
229 23.4 15.9 23.9



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: 2.74 ng

RT: 13.63 min Scan# 1054

Delta R.T. -0.06 min

Lab File: BF089386.D

Acq: 29 Jul 2016 2:35

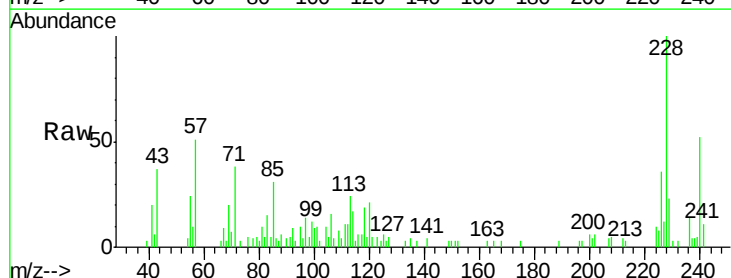
Tgt Ion:228 Resp: 15727

Ion Ratio Lower Upper

228 100

226 35.7 24.2 36.2

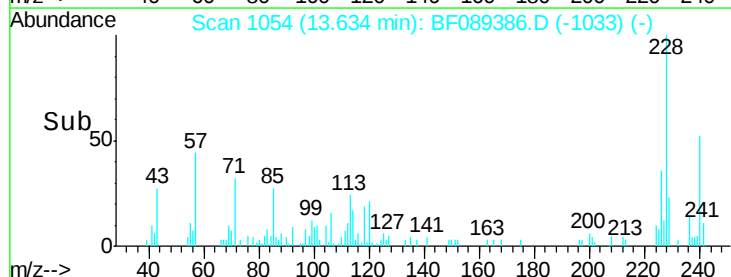
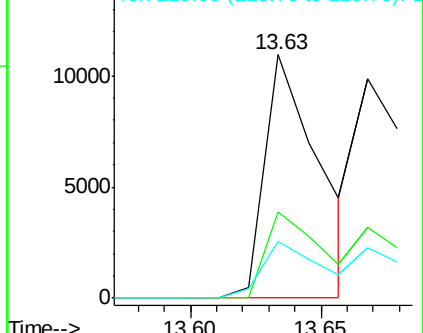
229 23.4 15.9 23.9

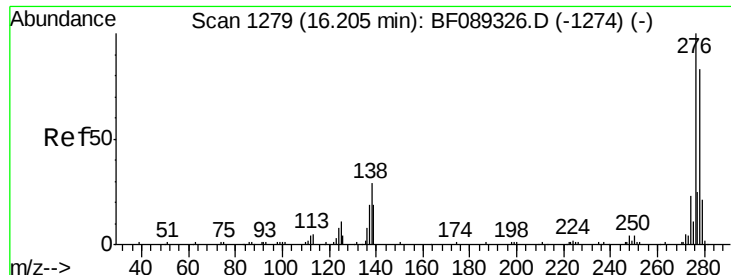


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

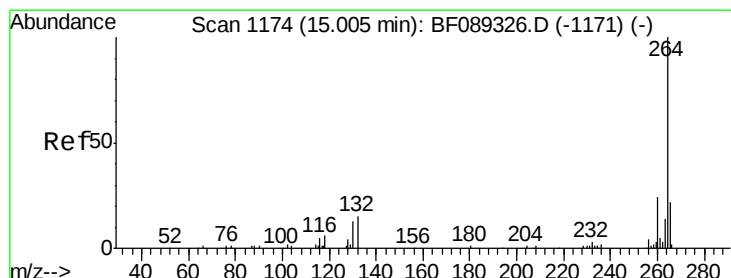
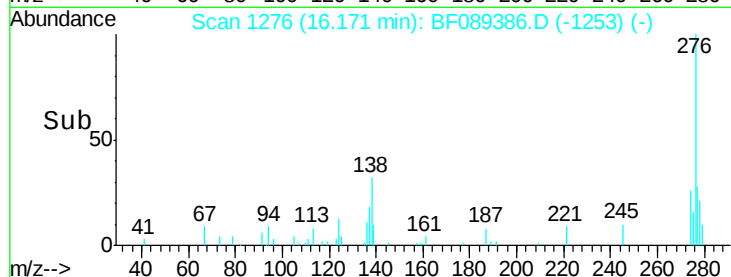
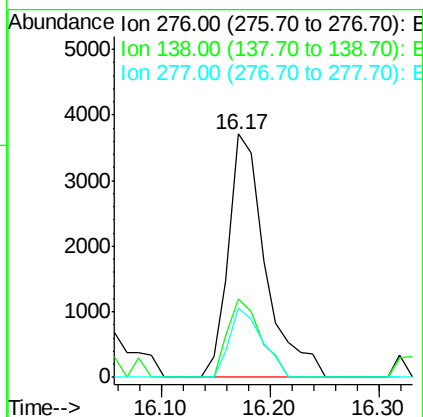
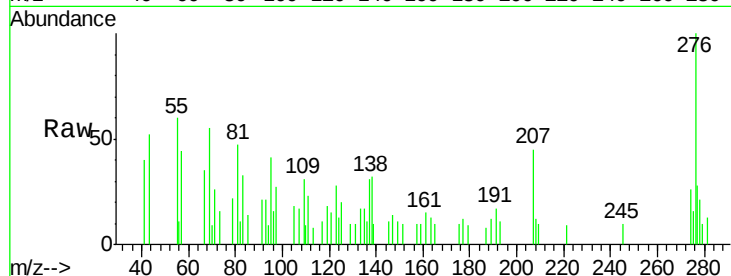




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.15 ng
 RT: 16.17 min Scan# 1276
 Delta R.T. -0.03 min
 Lab File: BF089386.D
 Acq: 29 Jul 2016 2:35

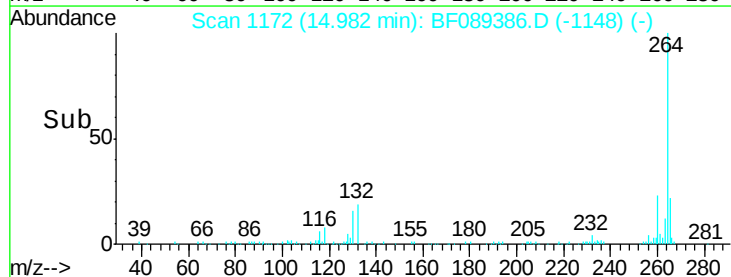
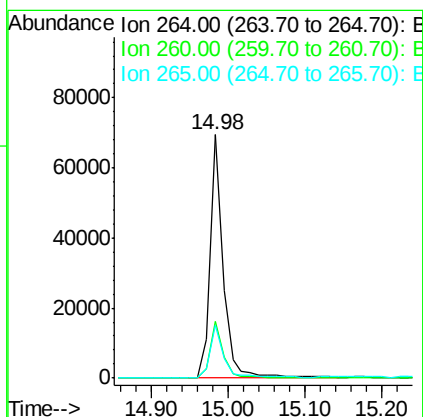
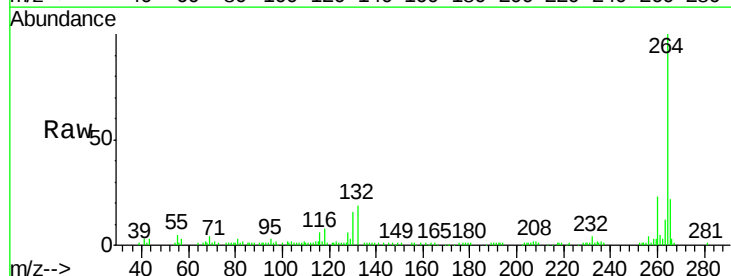
Instrument :
 BNA_F
 ClientSampleId :
 SP-4(LOT112)0-1

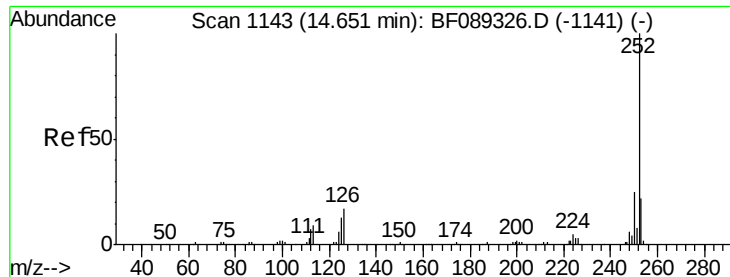
Tgt Ion: 276 Resp: 8784
 Ion Ratio Lower Upper
 276 100
 138 28.4 23.0 34.4
 277 24.8 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.98 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: BF089386.D
 Acq: 29 Jul 2016 2:35

Tgt Ion: 264 Resp: 81315
 Ion Ratio Lower Upper
 264 100
 260 23.4 19.0 28.4
 265 21.7 17.5 26.3





#87

Benzo(b)fluoranthene

Concen: 5.23 ng

RT: 14.64 min Scan# 1142

Delta R.T. -0.01 min

Lab File: BF089386.D

Acq: 29 Jul 2016 2:35

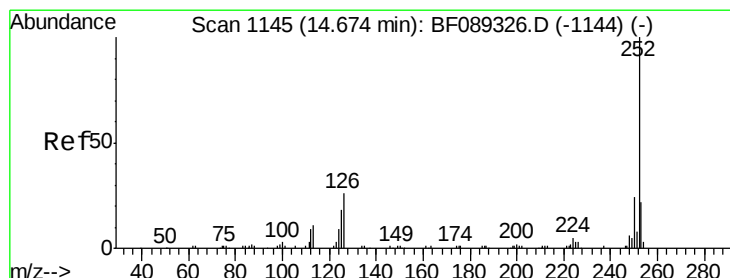
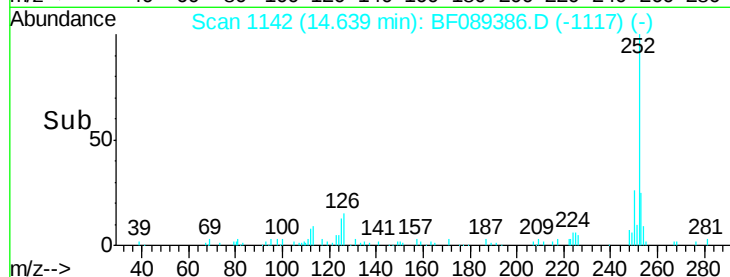
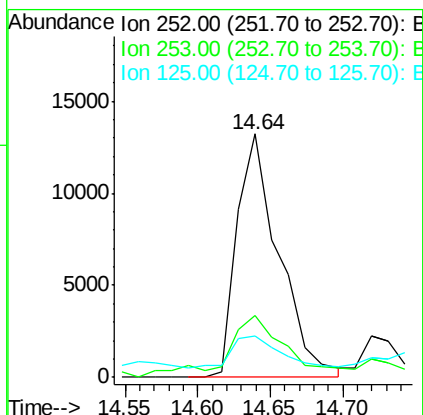
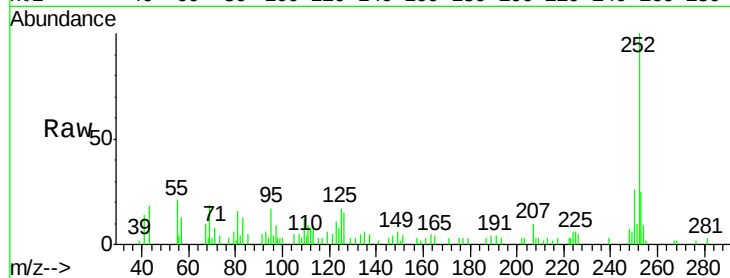
Instrument :

BNA_F

ClientSampleId :

SP-4(LOT112)0-1

Tgt Ion:	252	Resp:	26428
Ion Ratio	Lower	Upper	
252	100		
253	25.4	17.2	25.8
125	16.9	9.7	14.5#



#88

Benzo(k)fluoranthene

Concen: 5.69 ng

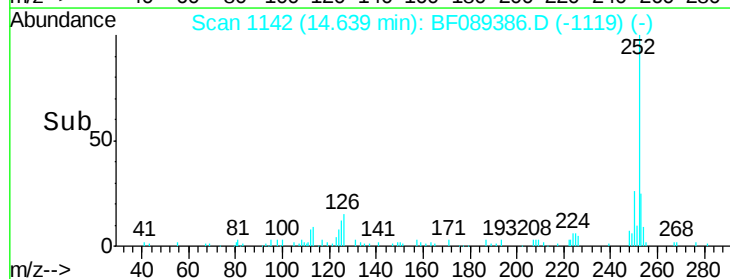
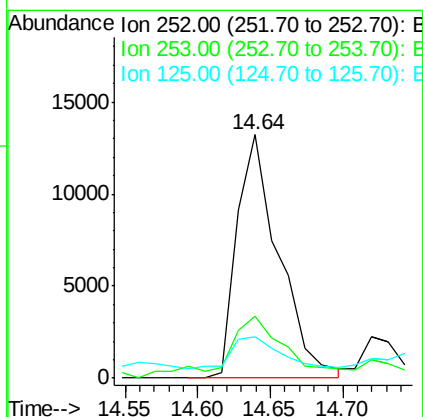
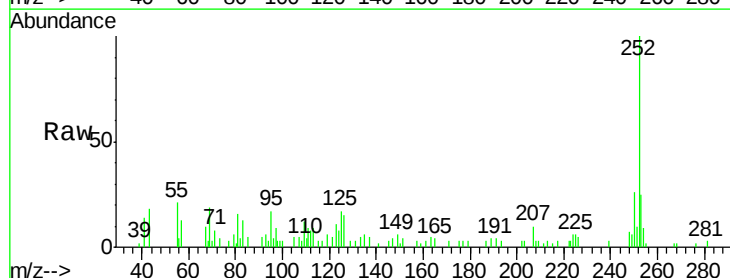
RT: 14.64 min Scan# 1142

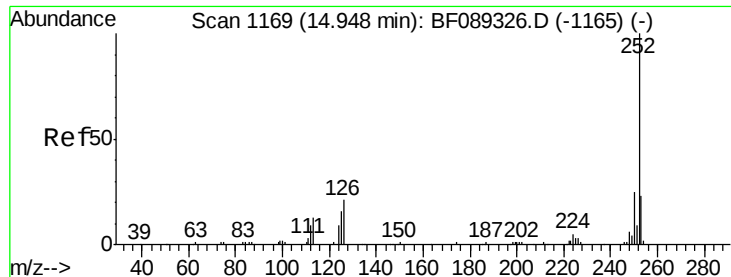
Delta R.T. -0.03 min

Lab File: BF089386.D

Acq: 29 Jul 2016 2:35

Tgt Ion:	252	Resp:	26428
Ion Ratio	Lower	Upper	
252	100		
253	25.4	17.8	26.8
125	16.9	10.7	16.1#





#89

Benzo(a)pyrene

Concen: 3.10 ng

RT: 14.94 min Scan# 1168

Delta R.T. -0.01 min

Lab File: BF089386.D

Acq: 29 Jul 2016 2:35

Instrument :

BNA_F

ClientSampleId :

SP-4(LOT112)0-1

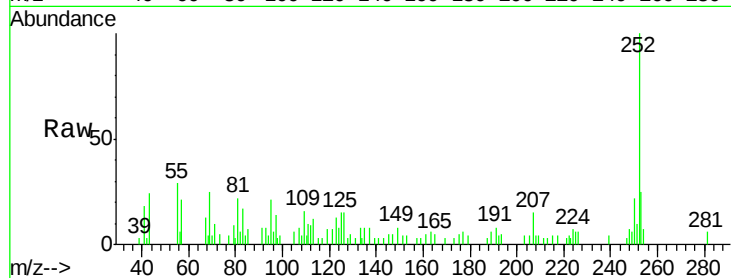
Tgt Ion: 252 Resp: 14055

Ion Ratio Lower Upper

252 100

253 25.2 17.4 26.2

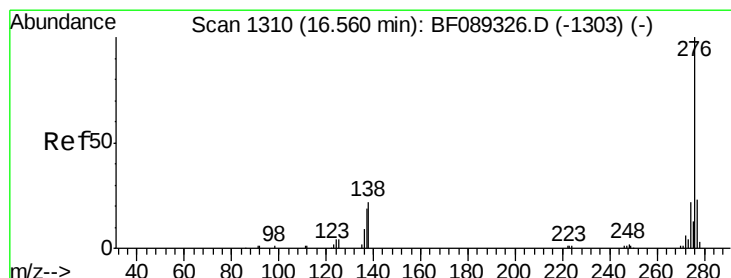
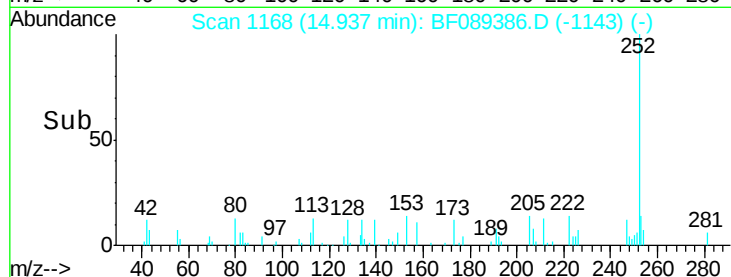
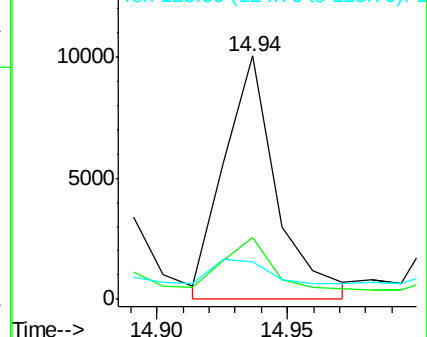
125 15.2 12.4 18.6



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(g,h,i)perylene

Concen: 2.44 ng

RT: 16.53 min Scan# 1307

Delta R.T. -0.02 min

Lab File: BF089386.D

Acq: 29 Jul 2016 2:35

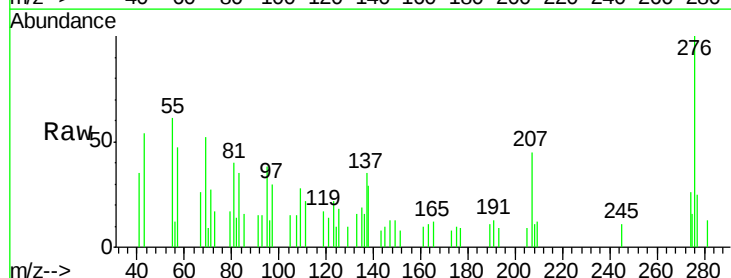
Tgt Ion: 276 Resp: 8558

Ion Ratio Lower Upper

276 100

277 24.7 18.6 28.0

138 29.0 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

