

NINGBO BAINIAN ELECTRIC APPLIANCE CO.,LTD

MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

Model:

BNC-60/U152T, BNC-60/U153T

REPORT NUMBER:

200101432SHA-002

ISSUE DATE:

May 6, 2020

DOCUMENT CONTROL NUMBER:

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Report no.: 200101432SHA-002

Applicant: NINGBO BAINIAN ELECTRIC APPLIANCE CO., LTD

NO, 785, XINCHENG NORTH ROAD, HUSHAN TOWN, CIXI CITY,

ZHEJIANG PROVINCE, CHINA

Manufacturer: NINGBO BAINIAN ELECTRIC APPLIANCE CO., LTD

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Manufacturing site: NINGBO BAINIAN ELECTRIC APPLIANCE CO., LTD

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FCC ID: 2ATL2BNC60U152T

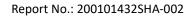
SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06 FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:	REVIEWED BY:		
Teddy yin	Damel Zhan		
Project Engineer	Reviewer		
Teddy Yin	Daniel Zhao		

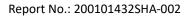
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Revision History

Report No.	Version	Description	Issued Date
200101432SHA-002	Rev. 01	Initial issue of report	May 6, 2020





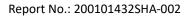
1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Remote control adaptor		
Type/Model:	BNC-60/U152T, BNC-60/U153T		
	The EUT is an adaptor contained a WIFI modular. Both models have the		
Description of EUT:	same WIFI modular.		
	BNC-60/U152T: 125V~, 60Hz, 15A/1870W Resistive, 10A/1250W		
	Tungsten		
	BNC-60/U153T: 125V~, 60Hz, 15A/1870W Resistive, 8A/1000W		
Rating:	Tungsten		
Category of EUT:	Class B		
EUT type:	☐ Table top ☐ Floor standing		
Software Version:	/		
Hardware Version:	/		
Sample received date:	Mar 10, 2020		
Date of test:	Mar 10~27, 2020		

1.2 Technical Specification

Frequency Range:	2412MHz ~ 2462MHz		
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20		
	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)		
	IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK)		
Type of Modulation:	IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK)		
Channel Number:	11 Channels for 802.11b, 802.11g and 802.11n(HT20)		
	IEEE 802.11b: Up to 11 Mbps		
	IEEE 802.11g: Up to 54 Mbps		
Data Rate:	IEEE 802.11n-HT20: Up to MCS7		
Channel Separation:	5 MHz		
Antenna Information:	2.5dBi, PCB antenna		

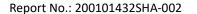




1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is	CNAS Accreditation Lab
recognized,	Registration No. CNAS L0139
certified, or accredited by these	FCC Accredited Lab
organizations:	Designation Number: CN1175
J	IC Registration Lab
	CAB identifier.: CN0051
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02





2 MPE Assessment

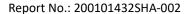
Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (uT)	Equivalent plane wave power density
			, ,	S _{eq} (W/m ²)
0-1 Hz	-	$3,2 \times 10^4$	4×10^{4}	-
1-8 Hz	10 000	$3.2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-
8-25 Hz	10 000	4 000/f	5 000/f	-
0,025-0,8 kHz	250/f	4/f	5/f	-
0,8-3 kHz	250/f	5	6,25	-
3-150 kHz	87	5	6,25	-
0,15-1 MHz	87	0,73/f	0,92/f	-
1-10 MHz	87/f ^{1/2}	0,73/f	0,92/f	-
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	1,375 f ^{1/2}	0,0037 f ^{1/2}	0,0046 f ^{1/2}	f/200
2-300 GHz	61	0,16	0,20	10

Mobile device exposure for simultaneous transmission operations: the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is \leq 1.0





2.2 Assessment Results

Power density (S) is calculated according to the formula:

 $S = PG / (4\pi R^2)$

Where $S = power density in mW/cm^2$

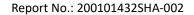
P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 200101432SHA-001: The maximum radiated power = 21.52dBm = 141.91 mW; Here R is chosen to be 20cm,

 $S = PG / (4\pi R^2) = 141.91 / (4 * 3.14 * 20 * 20) = 0.028 mW/cm^2 < 1 mW/cm^2$





Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.