



RF EXPOSURE REPORT

Applicant	:	Edifier International Limited		
Address of Applicant		P.O. Box 6264 General Post Office Hong Kong		
Manufacturer	:	Beijing Edifier Technology Co., Ltd.		
Address of Manufacturer		815, Floor 8, Shuangqiao Building, No.68, North Fourth Ring West Road, Haidian District, Beijing 100080, P.R. China		
Equipment under Test		Multimedia Speaker		
Model No.		EDF100076		
FCC ID		Z9G-EDF233		
Test Standard(s)		KDB447498 D01 General RF Exposure Guidance v06		
Report No.		DDT-RE24040121-1E07		
Issue Date		2024/04/25		
Issue By		Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808		

REPORT

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Test Report Declare

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Test Standard Used:

KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE24040121-1E07			
Date of Receipt:	2024/04/03	Date of Test:	2024/04/03~2024/04/24	

Prepared By:

Approved By:

Damon Mu

Johnson Huang/Engineer

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
	Initial issue ®	2024/04/24	8
	XOP XOP	*	

1. General Test Information

1.1. Description of EUT

EUT Name	••	Multimedia Speaker	
Model Number	:	EDF100076	
Difference of model number	:		
EUT Function Description	:	Please reference user manual of this device	
Power Supply		100-240V~50/60Hz 400mA	

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	1	/	1

1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

[&]quot;⊠" means to be chosen or applicable; "□" means don't to be chosen or not applicable; This note applies to entire report.

2. RF Exposure evaluation for FCC

2.1. Assessment procedure

Requirement:

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100000		_01	1.0	30

Note: f= frequency in MHz; *Plane-wave equivalent power density

Calculation method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $S(mW/cm^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

d = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \text{ or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

2.2. Assess result

Mode	Output power (dBm)	Output power (mW)	tune up power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm²)	MPE Limit (mW/cm²)
Module EDF2600HP3 Bluetooth BR	2.93	1.96	3.0	-0.29	0.62	0.00025	[®] 1
Module EDF2600HP3 Bluetooth EDR	3.0	2.0	4.0	-0.29	0.62	0.00031	1
Module EDF2600HP3 Bluetooth LE	-0.17	0.96	1	-0.29	0.62	0.00015	1 ®
Module EDF6321A4 Bluetooth LE	-0.74	0.84	1	2.59	1.82	0.00045	

Simultaneous transmit evaluation result: 0.00031+0.00045=0.00076<1.

