

OET Bulletin 65 (MPE) Test Report

For

Bluetooth Headset (Class 2)

Model Name: N76

Brand Name: Bluedio

FCC ID: VO8-N76

Report No.: AGC10430912GZ04E7

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Prepared For

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1. TEST RESULT CERTIFICATION

Applicant Name:	Guangzhou Liwei Electronics Co., LTD.
Address:	No.33, Zhenzhongbei Road, Shenshan Industrial Park Baiyun District, Guangzhou 510460 P.R., china
Manufacturer Name:	Guangzhou Liwei Electronics Co., LTD.
Address:	No.33, Zhenzhongbei Road, Shenshan Industrial Park Baiyun District, Guangzhou 510460 P.R., china
Brand Name:	Bluedio
Equipment Under Test:	Bluetooth Headset (Class 2)
Model Number:	N76
Test Standard	OET Bulletin 65 (Edition 97-01) Supplement C (Edition 01-01)
File Number:	AGC10430912GZ04E7
Date of Test:	Dec.31, 2009

We (AGC), Attestation of Global Compliance Co., Ltd. for compliance with the requirements set forth in the European Standard OET Bulletin 65 (Edition 97-01) Supplement C (Edition 01-01) The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Checked By: Jekey Zhang
Jekey Zhang Dec.31, 2009

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2. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

2.1 EUT DESCRIPTION

Product	Bluetooth Headset (Class 2)
Brand / Model Name	Bluedio
Support Channels	CH 00 – CH 78
Modulation	GFSK
Antenna Type	Integrated Antenna
Power Supply	DC5.50V (Supplied By Adapter)
Channels Frequency	CH 00 2.402GHZ CH 78 2.480GHZ Channel Space = 1MHz

Note:

1. The EUT is Bluetooth Handset. The EUT provides Bluetooth wireless interface operating at 2.4G ISM band (2400MHZ-2483MHZ). The EUT use (GFSK) modulation.
2. Please refer to the User's manual of the EUT.

3. RF EXPOSURE MEASUREMENT

3.1 INTRODUCTION

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

The 1992 ANSI/IEEE standard (See Listed limit table) specifies a minimum separation distance of 20 cm for performing reliable field measurements to determine adherence to MPE limits.

If the minimum separation distance between a transmitter and nearby persons is more than 20 cm under normal operating conditions, compliance with MPE limits may be determined at such distance from the transmitter. When applicable, operation instructions and prominent warning labels may be used to alert the exposed persons to maintain a specified distance from the transmitter or to limit their exposure durations and usage conditions to ensure compliance.

3.2 FCC LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	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 ²)*	30
30 -- 300	27.5	0.073	0.2	30
300 -- 1500	--	--	f/1500	30
1500 -- 100,000	--	--	1.0	30

*Note:

1. f=Frequency in MHz * Plane-wave Equivalent Power Density
2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. See 47 CFR §§2.1091 and 2.1093 on source-based time-averaging requirements for mobile and portable transmitters.

4. CLASSIFICATION OF THE ASSESSMENT METHODS

The antenna of the product, under normal use condition is at least 1 cm away from the body of the user. Warning statement to the user for keeping at least 1cm separation distance and the prohibition of operating to a person has been printed on the user's manual. So, this product under normal use is located on electromagnetic far field between the human body.

$$S = \frac{PG}{4\pi R^2}$$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator R=distance to the center of radiation of the antenna

MPE Calculated Values for Bluetooth Headset

5. EUT OPERATION CONDITION

The software provided by Manufacturer enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

6. TEST RESULTS

Since the maximum eirp power is used as the output power to antenna, so the Gain of the antenna can be assumed as 0dBi.

Channel	Frequency	Output Power	Output Power	Power Density	Power Density Limit	Result
	MHz	dBm	mW	mW/cm ²	mW/cm ²	Pass/Fail
CH 00	2402	2.21	1.66	0.13	1.00	Pass
CH 39	2441	2.32	1.71	0.14	1.00	Pass
CH 78	2480	2.17	1.65	0.13	1.00	Pass