



FCC RF EXPOSURE REPORT

For

Speaker

MODEL NUMBER: AIR4

FCC ID: TQYETONAIR4

IC: 6233A-ETONAIR4

REPORT NUMBER: 4788304691.1-4

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Prepared for

**JAZZ HIPSTER CORPORATION
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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
--	01/31/2018	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: JAZZ HIPSTER CORPORATION
Address: 2Fd., No.512, Yaun-San Rd. Ghang-Ho City Taiwan

Manufacturer Information

Company Name: ETON Deutschland Electro Acoustic GmbH
Address: 89231 Neu - Ulm, Pfaffenweg 21, Germany

EUT Description

Product Name: Speaker
Brand Name: ETON
Model Name: AIR4
Sample ID: 1337271
Sample Status: Good
Sample Received date: January 03, 2018
Date Tested: January 04~January 19, 2018

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47CFR§2.1091	Complies

Tested By:



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Checked By:



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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. IAS (Lab Code: TL-702) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has demonstrated compliance with ISO/IEC Standard 17025:2005, General requirements for the competence of testing and calibration laboratories FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules IC(Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with Industry Canada. The Company Number is 21320. VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B, the VCCI registration No. is C-20012 and T-20011
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

4. REQUIREMENT

LIMIT AND CALCULATION METHOD

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 0.2m 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

RF EXPOSURE LIMIT

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

CALCULATION METHOD

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

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

CALCULATED RESULTS

BT(GFSK) Mode							
Frequency	Antenna Gain		Tune up power with tolerance	Max Tune Up Power	Power Density	Power Density Limit	Test Result
MHz	(dBi)	(num)	(dBm)	(dBm)	mW/cm ²	mW/cm ²	--
2441	4.97	3.14	7 +/- 1	8	0.003942114	1.0	Complies

BLE Mode							
Frequency	Antenna Gain		Tune up power with tolerance	Max Tune Up Power	Power Density	Power Density Limit	Test Result
MHz	(dBi)	(num)	(dBm)	(dBm)	mW/cm ²	mW/cm ²	--
2440	4.97	3.14	6 +/- 1	7	0.003131332	1.0	Complies

WIFI Mode(WORST-CASE): 11b Channel 1							
Frequency	Antenna Gain		Tune up power with tolerance	Max Tune Up Power	Power Density	Power Density Limit	Test Result
MHz	(dBi)	(num)	(dBm)	(dBm)	mW/cm ²	mW/cm ²	--
2437	4.97	3.14	15 +/- 1	16	0.024873055	1.0	Complies

- Note: 1. Antenna Gain=4.97dBi (Numeric 3.14), $\pi=3.141$.
 2. The minimum separation distance of the device is greater than 20 cm.
 3. Calculate by WORST-CASE mode.
 4. Owing to the maximum Calculated Result is below the limit, so it deemed to comply with the basic restrictions without testing which means that no SAR is required.
 5. Max Tune Up Power by manufacturer's declaration
 6. Bluetooth and WIFI cannot be transmit simultaneously.

END OF REPORT