

MPE TEST REPORT

FCC ID: 2AZ60-C800

Equipment : Wireless Intercom System
Brand Name : Chtoocy
Test Model : C800
Series Model : N/A
Applicant : Shenzhen Weiguo Times Technology Co.,Ltd
Address : 8th Floor,Block C, Wanguo City Pingji Avenue, Nanwan Street,
Longgang District Shenzhen 518000 China
Manufacturer : Shenzhen Todakj Co., Ltd.
Address : No. 40 Huan Dong Road, Tie Gang Industrial District,
Baoan,Shenzhen,China
Date of Receipt : 2022.11.05
Date of Test : 2022.11.05-2022.11.21
Issued Date : 2022.11.21
Report Version : V1.0
Test Sample : Engineering Sample No.:AIT22112201-1
Standard(s) : FCC Title 47 Part 2. 1091
KDB 447498 001 General RF exposure guidance v06


Lab: Dongguan Yaxu (AiT) Technology Limited


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This device described above has been tested by Dongguan Yaxu (AiT) Technology Limited and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Reviewed by: 
Simba huang

Approved by: 
Seal Chen

1. TEST FACILITY

Company:	Dongguan Yaxu (AiT) Technology Limited
Address:	No.22, Jinqianling 3rd Street, Jitigang, Huangjiang, Dongguan, Guangdong, China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number:	6317.01
FCC Accredited Lab. Designation Number:	CN1313
FCC Test Firm Registration Number:	703111

2.EVALUATION METHOD AND LIMIT

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.

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 requirement for mobile and portable transmitters.

3.RF EXPOSURE MEASUREMENT

Calculation Method of RF Safety Distance:

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

where:

S = power density

P = power input to the 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

4. EUT OPERATION CONDITION

Set the EUT to transmit at lowest, middle and highest channel individually at maximum power.

Note: only worst case recorded in the test report.

5. TEST RESULT

462.6375MHz

Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1	1.26	20.49	111.9437883	0.280369	0.308	Complies

462.6500MHz

Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1	1.26	19.50	89.12509381	0.223218	0.308	Complies

467.6375MHz

Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1	1.26	19.59	90.99132726	0.227893	0.312	Complies

Note:

1. The maximum output power refers to the project report number: AIT22112201W2
2. Only the worst case recorded.
3. Output power including tune up tolerance.
4. The calculated distance is 20 cm.

6. CONCLUSION

Remark: EUT meets the basic requirements in the standard.

----END OF REPORT----