
OET Bulletin 65 (MPE)

Test Report

Report No.: AGC02X121101-1F7

FCC ID : T4K-5888UV

PRODUCT DESIGNATION : Land Mobile Radio

BRAND NAME : Anytone

MODEL NAME : 5888UV,5889UV,5888UV1, 5888UV2, 5888UV3,5888UV4,
5888UV5, 5888UV6, 5888UV7, 5888UV8, 5888UV9,588UV,
DB-750X, HR-2040,DB-50M

CLIENT : Qixiang Electron Science & Technology Co., Ltd

DATE OF ISSUE : Nov. 17, 2012

STANDARD(S) : OET Bulletin 65

Attestation of Global Compliance Co., Ltd.

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1. TEST RESULT CERTIFICATION

Applicant Name:	Qixiang Electron Science & Technology Co., Ltd
Address:	Qixiang Building, Tangxi Industrial Zone, Luojiang District, Quanzhou, Fujian, China
Manufacturer Name:	Qixiang Electron Science & Technology Co. Ltd
Address:	Qixiang Building, Tangxi Industrial Zone, Luojiang District, Quanzhou, Fujian, China
Product Description:	Land Mobile Radio
Brand Name:	Anytone
Model Number:	5888UV, 5889UV, 5888UV1, 5888UV2, 5888UV3, 5888UV4, 5888UV5, 5888UV6, 5888UV7, 5888UV8, 5888UV9, 588UV, DB-750X, HR-2040, DB-50M
Model Difference:	All the same except for appearance. test model is 5888UV.
Test Standard	OET Bulletin 65 (Edition 97-01) Supplement C (Edition 01-01)
File Number:	AGC02X121101-1F2
Date of Test:	Nov.12,2012~Nov.17,2012

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.

Tested By



Bart Xie

Nov. 17, 2012

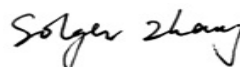
Reviewed By



Forrest Lei

Nov. 17, 2012

Approved By



Solger Zhang

Nov. 17, 2012

2. TECHNICAL INFORMATION

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

2.1 EUT DESCRIPTION

Communication Type	Voice / Tone only
Modulation	FM
Emission Type	F3E
Channel Separation:	12.5KHz
Emission Bandwidth	10.633KHz
Peak Frequency Deviation	1.82KHz
Audio Frequency Response	10.71dB
Maximum Transmitter Power	46.87dBm
Antenna Designation	Detachable
Power Supply	DC13.8V/10A
Limiting Voltage	DC 10.2V
Operation Frequency Range and Channel	Frequency Range: 136~174MHz and 400~ 520MHz Channel Separation: 12.5KHz
	136 to 174MHz, Bottom Channel:136.025MHz Centre Channel:155.225 Top Channel:173.975 400MHz to 520MHz Bottom Channel: 400.025MHz, Centre Channel: 435.325MHz, Top Channel: 519.975MHz,
Frequency Tolerance	1.862ppm
Antenna Gain	2dBi

Note:

1. For more details, 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 2.5 cm or more from persons.

The 1992 ANSI/IEEE standard (See Listed limit table) specifies a minimum separation distance of 1cm 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 2.5 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 2m away from the body of the user. Warning statement to the user for keeping at least 200cm 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.

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

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

5. EUT OPERATION CONDITION

Make the EUT to transmit at lowest, middle and highest channel individually.

Only recorded VHF Band results(worst case)

6. TEST RESULTS

Antenna Gain=2dBi(Numeric 1.58), Π =3.1416

Channel	Frequency	Output Power	Output Power	Power Density	Power Density Limit	Result
	MHz	dBm	mW	mW/cm2	mW/cm2	Pass/Fail
Low	136.025	46.63	46025.65	0.14	0.2	Pass
Middle	152.225	46.59	45603.69	0.14	0.2	Pass
High	173.975	46.87	48640.72	0.15	0.2	Pass