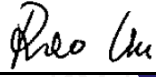


TEST REPORT

FCC ID. :	2BR4W-TY70M5	
Test Report No..... :	TCT250811E009	
Date of issue..... :	Sep. 17, 2025	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	Shenzhen Tianyi Yutong Technology Co., LTD	
Address..... :	Rm 266, Bldg. W2-B, Gaoxin Industrial vil., 025, Gaoxin S 4th Rd, Yuehai, Nanshan, Shenzhen, China	
Manufacturer's name ... :	Shenzhen Tianyi Yutong Technology Co., LTD	
Address..... :	Rm 266, Bldg. W2-B, Gaoxin Industrial vil., 025, Gaoxin S 4th Rd, Yuehai, Nanshan, Shenzhen, China	
Standard(s)	FCC Part §1.1310	
Product Name..... :	Cell Phone Signal Booster	
Trade Mark	Metarepeater	
Model/Type reference..... :	TY70M5F, TY70M5H, TY70M5D, TY70M5E	
Rating(s)..... :	Adapter Information: Model: WTA24-1201500-U Input: AC 100-240V, 50/60Hz, 1.0A Output: DC 12V, 1.5A	
Date of receipt of test item	Aug. 11, 2025	
Date (s) of performance of test..... :	Aug. 11, 2025 ~ Sep. 17, 2025	
Tested by (+signature) ... :	Rleo LIU	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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1. General Product Information

1.1. EUT description

Product Name.....:	Cell Phone Signal Booster
Model/Type reference.....:	TY70M5F
Sample Number.....:	TCT250811E008-0101
Operation Frequency	PCS Uplink: 1850MHz - 1915MHz, Downlink: 1930MHz - 1995MHz AWS Uplink: 1710MHz - 1755MHz, Downlink: 2110MHz - 2155MHz Cellular Uplink: 824MHz - 849MHz, Downlink: 869MHz - 894MHz Lower700MHz Uplink: 698MHz - 716MHz, Downlink: 728MHz - 746MHz Upper700MHz Uplink: 776MHz - 787MHz, Downlink: 746MHz - 757MHz
Signal Booster Type.....:	Mobile Consumer Signal Booster
Emission Designator	F9W, G7D, G7W, GXW, W7D
FCC Classification	B2W/Wideband Consumer Booster (CMRS)
Rating(s).....:	Adapter Information: Model: WTA24-1201500-U Input: AC 100-240V, 50/60Hz, 1.0A Output: DC 12V, 1.5A

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	TY70M5F	☒
Other models	TY70M5H, TY70M5D, TY70M5E	☐

Note: 1. TY70M5F is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names, appearance and color. So the test data of TY70M5F can represent the remaining models.

2. TY70M5F with display screen, silver metal casing; TY70M5H has no display screen, It features a white metal casing with a frequency band identification label on the surface. TY70M5D with a display screen, white plastic shell, and a metal base plate; The TY70M5E has no display screen but a light board, It features a black plastic casing with frequency band identification labels on the surface and comes with a metal base plate.

2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	DC 12V
Humidity	56%
Atmospheric Pressure:	1008 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- A2LA-No.: 4320.01

SHENZHEN TONGCE TESTING LAB

The testing lab has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4. Test Results and Measurement Data

4.1. Requirements

Limits For Maximum Permissible Exposure (MPE)				
Frequency range (MHz)	Electric field strength(V/m)	Magnetic field Strength(A/m)	Power density (mw/cm ²)	Averaging time (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	0.0173	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

4.2. MPE Calculation

Predication of MPE limit at a given distance

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

S = Power density (In appropriate units, e.g., W/m²)

P = Power input to the antenna (In appropriate units, e.g., W)

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor,

Is normally numeric gain

R =Distance to the center of radiation of the antenna(In appropriate units, e.g., m)

4.3. Test Result

Operation Bands	Frequency (MHz)	Max. Output power(dBm)	Cable loss (dB)	Power to Antenna(mW)	Antenna gain	
					Isotropic	Numeric
UL1850-1915	1871.58	20.20	3	52.48	7.5	5.62
UL1710-1755	1721.43	20.68	3	58.61	7.5	5.62
UL824-869	839.75	21.15	1.9	84.14	6.2	4.17
UL698-716	704.12	19.68	1.9	59.98	6.2	4.17
UL776-787	780.53	20.24	1.9	68.23	6.2	4.17
DL1930-1995	1955.61	8.62	3	3.65	7.6	5.75
DL2110-2155	2140.06	6.87	3	2.44	7.6	5.75
DL869-894	891.50	5.74	1.9	2.42	5.2	3.31
DL728-746	743.50	4.76	1.9	1.93	5.2	3.31
DL746-757	748.50	4.71	1.9	1.91	5.2	3.31

Operation Bands	Power (mW)	Antenna gain(G)	Measure Distance(cm)	Power density (mW/cm ²)	MPE limit (mW/cm ²)
UL1850-1915	52.48	5.62	20	0.0587	1
UL1710-1755	58.61	5.62	20	0.0656	1
UL824-869	84.14	4.17	20	0.0698	0.56
UL698-716	59.98	4.17	20	0.0497	0.47
UL776-787	68.23	4.17	20	0.0566	0.52
DL1930-1995	3.65	5.75	20	0.0042	1
DL2110-2155	2.44	5.75	20	0.0028	1
DL869-894	2.42	3.31	20	0.0016	0.59
DL728-746	1.93	3.31	20	0.0013	0.50
DL746-757	1.91	3.31	20	0.0013	0.50

Results: PASS*******END OF REPORT*******