TCT 通测检测 TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID ..... :	YYOV50IN-US59
Test Report No..... :	TCT240326E044
Date of issue..... :	Apr. 25, 2024
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..... :	Phonetone Technology (Shenzhen) Co., Ltd.
Address..... :	Room 404, Building 12, Qianlong Garden, Minzhi Street, Bao'an District, Shenzhen, 518031 China
Manufacturer's name ... :	Phonetone Technology (Shenzhen) Co., Ltd.
Address..... :	Room 404, Building 12, Qianlong Garden, Minzhi Street, Bao'an District, Shenzhen, 518031 China
Standard(s) ..... :	FCC Part §1.1310
Product Name..... :	Cell Phone Signal Booster
Trade Mark ..... :	ANNTLENT PHONETONE INVCALL CELSGN
Model/Type reference..... :	V50IN-US59
Rating(s)..... :	Refer to EUT description of Page 3
Date of receipt of test item ..... :	Mar. 26, 2024
Date (s) of performance of test..... :	Mar. 26, 2024 ~ Apr. 25, 2024
Tested by (+signature) ... :	Rleo LIU
Check by (+signature).... :	Beryl ZHAO
Approved by (+signature):	Tomsin

General disclaimer:

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

Table of Contents

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

1. General Product Information

1.1. EUT description

Product Name.....:	Cell Phone Signal Booster
Model/Type reference.....:	V50IN-US59
Sample Number.....:	TCT240326E043-0101
Operation Frequency.....:	PCS Uplink: 1850MHz - 1915MHz, Downlink: 1930MHz - 1995MHz AWS-1 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).....:	Input: DC 12-24V Output: DC 12V, 2A Adapter Information: MODEL: SK03T1-1200200U INPUT: AC 100-240V, 50/60Hz, 0.6A OUTPUT: DC 12V, 2A

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

None.

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25ºC
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
/	/	/	/	/

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

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.

- IC - Registration No.: 10668A-1

  SHENZHEN TONGCE TESTING LAB

  CAB identifier: CN0031

  The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

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/m^2)

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

G = Power gain og 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)

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

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	1882.23	21.80	2.65	82.22	3	2.00
UL1710-1755	1737.70	20.37	2.4	62.66	3	2.00
UL824-869	839.83	19.61	1.7	61.80	3	2.00
UL698-716	700.54	19.29	1.5	60.12	2.7	1.86
UL776-787	780.55	19.58	1.5	64.27	2.7	1.86
DL1930-1995	1941.81	0.99	2.65	0.68	8	6.31
DL2110-2155	2129.76	-1.77	2.4	0.38	8	6.31
DL869-894	878.68	-3.22	1.7	0.32	6	3.98
DL728-746	735.96	4.09	1.5	1.82	6	3.98
DL746-757	748.03	2.64	1.5	1.30	6	3.98

Operation Bands	Power (mW)	Antenna gain(G)	Measure Distance(cm)	Power density ($mW/cm^{2)}$	MPE limit ($mW/cm^{2)}$
UL1850-1915	82.22	2.00	20	0.0326	1
UL1710-1755	62.66	2.00	20	0.0249	1
UL824-869	61.80	2.00	20	0.0245	0.56
UL698-716	60.12	1.86	20	0.0223	0.47
UL776-787	64.27	1.86	20	0.0238	0.52
DL1930-1995	0.68	6.31	20	0.0009	1
DL2110-2155	0.38	6.31	20	0.0005	1
DL869-894	0.32	3.98	20	0.0003	0.59
DL728-746	1.82	3.98	20	0.0014	0.49
DL746-757	1.30	3.98	20	0.0010	0.50

Results: PASS

********END OF REPORT********

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com