

TEST REPORT

FCC ID. :	RSN-FIBERMAXRU	
Test Report No..... :	TCT241011E020	
Date of issue..... :	Nov. 27, 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..... :	Cellphone-Mate Inc. dba SureCall	
Address..... :	48346 Milmont Drive Fremont California 94538 United States	
Manufacturer's name ... :	Shenzhen Surecall Comm Tech Co Ltd	
Address..... :	2nd Floor, Yutian Bldg Yangtian Rd. 72nd Zone Bao'an District, Shenzhen, 518100 China	
Standard(s) :	FCC Part §1.1310	
Product Name..... :	SignalMax Fiber DAS	
Trade Mark :	Surecall	
Model/Type reference..... :	SC-FRU	
Rating(s)..... :	Adapter Information: Model: KZ2402500 Input: AC 100-240V, 50/60Hz, 1.5A Max Output: DC 24.0V, 2.5A, 60.0W	
Date of receipt of test item :	Oct. 11, 2024	
Date (s) of performance of test..... :	Oct. 11, 2024 ~ Nov. 27, 2024	
Tested by (+signature) ... :	Brews XU	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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1. General Product Information

1.1. EUT description

Product Name.....:	SignalMax Fiber DAS
Model/Type reference.....:	SC-FRU
Sample Number.....:	TCT2401011E019-0101
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: KZ2402500 Input: AC 100-240V, 50/60Hz, 1.5A Max Output: DC 24.0V, 2.5A, 60.0W

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.

2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	DC 24V
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.

- IC - Registration No.: 10668A

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development 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/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	1880.81	22.52	1	141.91	8	6.31
UL1710-1755	1726.39	22.59	1	144.21	8	6.31
UL824-869	834.55	24.34	0.7	231.21	6	3.98
UL698-716	706.68	24.23	0.7	225.42	6	3.98
UL776-787	784.36	24.43	0.7	236.05	6	3.98
DL1930-1995	1968.60	14.29	4.31	9.95	6.5	4.47
DL2110-2155	2133.94	14.80	4.56	10.57	6.5	4.47
DL869-894	878.75	16.34	3.14	20.89	3.5	2.24
DL728-746	742.65	16.25	3.01	21.09	3.5	2.24
DL746-757	748.50	16.20	3.01	20.84	3.5	2.24

Operation Bands	Power (mW)	Antenna gain(G)	Measure Distance(cm)	Power density (mW/cm ²)	MPE limit (mW/cm ²)
UL1850-1915	141.91	6.31	20	0.1781	1
UL1710-1755	144.21	6.31	20	0.1810	1
UL824-869	231.21	3.98	20	0.1831	0.56
UL698-716	225.42	3.98	20	0.1785	0.47
UL776-787	236.05	3.98	20	0.1870	0.52
DL1930-1995	9.95	4.47	20	0.0088	1
DL2110-2155	10.57	4.47	20	0.0094	1
DL869-894	20.89	2.24	20	0.0093	0.59
DL728-746	21.09	2.24	20	0.0094	0.50
DL746-757	20.84	2.24	20	0.0093	0.50

Results: PASS

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