



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUCR240800028402

Rev.: 01

Page: 1 of 7

TEST REPORT

Application No.: SUCR2408000284MO
Applicant: Gosuncn Technology Group Co., Ltd.
Address of Applicant: 6F, No. 2819, KaiChuang Avenue, Science City, Huangpu District, Guangzhou City, Guangdong Province, China
Manufacturer: Gosuncn Technology Group Co., Ltd.
Address of Manufacturer: 6F, No. 2819, KaiChuang Avenue, Science City, Huangpu District, Guangzhou City, Guangdong Province, China
EUT Description: LTE Module
Model No.: GM500_U1A
Trade Mark: GOSUNCN
FCC ID: 2APNR-GM500U1A
Standards: 47 CFR Part 2.1091
FCC KDB 447498 D01 v06
Date of Receipt: August 3, 2024
Date of Issue: August 29, 2024

Test Result:	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Nature Shen

Prepared by : Nature Shen / Project Manager

Cloud Peng

Approved by : Cloud Peng / Technical Manager

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1 Version

<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		August 29, 2024		Original

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Wireless Laboratory

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2 General Information

2.1 Client Information

Applicant:	Gosuncn Technology Group Co., Ltd.
Address of Applicant:	6F, No. 2819, KaiChuang Avenue, Science City, Huangpu District, Guangzhou City, Guangdong Province, China
Manufacturer:	Gosuncn Technology Group Co., Ltd.
Address of Manufacturer:	6F, No. 2819, KaiChuang Avenue, Science City, Huangpu District, Guangzhou City, Guangdong Province, China

2.2 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

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2.3 General Description of EUT

EUT Description:	LTE Module			
Model No.:	GM500_U1A			
Trade Mark:	GOSUNCN			
Hardware Version:	ME3630-U1B_MB_A			
Software Version:	QS_GM500U1AV2.0B06			
Power Supply:	5V			
Antenna Type:	<input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated			
Antenna Gain:	GSM850:	2.72dB i	GSM1900:	2.15dBi
	WCDMA Band II:	2.15dBi	WCDMA Band V:	2.72dBi
	LTE Band 2:	2.15dBi	LTE Band 4:	2.66dBi
	LTE Band 5:	2.72dBi	LTE Band 12:	2.01dBi
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.			

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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
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

F=frequency in MHz
 *=Plane-wave equivalent power density
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: $Pd = (Pout * G) / (4 * \pi * R^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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R = distance between observation point and center of the radiator in cm
 Pd id the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

3.1.3 EUT RF Exposure Evaluation

Output Power Into Antenna & RF Exposure Evaluation Distance:
 This confirmed that the device comply with MPE limit.

Band	Frequency	Max power (dBm)	Ant Gain (dBi)	EIRP (dBm)	Max EIRP (mW)	Limit (mW)	Distance R (cm)	Result	Ratio
GSM 850	824.2	35.00	2.72	37.72	712.85	1681	20	Pass	0.42
GSM 1900	1850.2	32.00	2.15	34.15	313.33	3060	20	Pass	0.10
WCDMA Band II	1852.4	25.00	2.15	27.15	518.80	3060	20	Pass	0.17
WCDMA Band V	828.4	25.00	2.72	27.72	591.56	1690	20	Pass	0.35
LTE Band 2	1850.7	25.00	2.15	27.15	518.80	3060	20	Pass	0.17
LTE Band 4	1710.7	25.00	2.66	27.66	583.45	3060	20	Pass	0.19
LTE Band 5	824.7	25.00	2.72	27.72	591.56	1682	20	Pass	0.35
LTE Band 12	699.7	25.00	2.01	27.01	502.34	1427	20	Pass	0.35

Remark: Frame-average power=Burst power+ Division Factors(-9.19)

---End of Report---

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