FCC RF Test Report

APPLICANT : Gosuncn Technology Group Co., Ltd.

EQUIPMENT: Automatic Database Diagnostic Monitor (LTE

OBD II Dongle)

BRAND NAME : GOSUNCN

MODEL NAME : GD201

FCC ID : 2APNR-GD201

STANDARD : 47 CFR Part 2, and 90(S)

CLASSIFICATION: PCS Licensed Transmitter (PCB)

TEST DATE(S) : Aug. 03, 2021

We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

This product installed a RF module (Model Name: L710HG, FCC ID: 2AK9D-L710HG) during the test, only Power and RSE test items are tested in this report, all the other test results are referenced from the module RF report.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

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Sporton International (ShenZhen) Inc.

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Sporton International (Shenzhen) Inc.

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Report Version

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FW171528	Rev. 01	Initial issue of report	Aug. 23, 2021

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting only	PASS	-
-	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	Reporting only	PASS	1
-	§2.1051 §90.691	Emission masks – In-band emissions	< 50+10log ₁₀ (P[Watts])	PASS	1
-	§2.1051 §90.691	Emission masks – Out of band emissions	< 43+10log ₁₀ (P[Watts])	PASS	1
3.2	§2.1053 §90.691	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 41.42 dB at 1633.500 MHz
-	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	1

Remark 1:

All test results were leveraged from module RF report which can refer to Report No. I20W00023-WWAN-Rev1

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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1 General Description

1.1 Applicant

Gosuncn Technology Group Co., Ltd.

6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.

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1.2 Manufacturer

Gosuncn Technology Group Co., Ltd.

6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.

1.3 Feature of Equipment Under Test

Product Feature							
Equipment	Automatic Database Diagnostic Monitor (LTE OBD II Dongle)						
Brand Name	GOSUNCN						
Model Name	GD201						
FCC ID	2APNR-GD201						
IMEI Code	Radiation: 864341050000077						
HW Version	GD201_MB_A						
SW Version	MCU_EN_GD201V1.1.1B02						
EUT Stage	Identical Prototype						

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard								
Tx Frequency	814 ~ 824 MHz							
Rx Frequency	859 ~ 869 MHz							
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz							
Maximum Output Power to Antenna	23.44 dBm							
Antenna Gain	-1.0 dBi							
Type of Modulation	QPSK / 16QAM							

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

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1.6 Maximum Conducted Power and Emission Designator

	LTE Band 26	QPSK	16QAM		
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Maximum Conducted power (W)		
1.4	814.7 ~ 823.3	0.2123	0.2094		
3	815.5 ~ 822.5	0.2143	0.2080		
5	816.5 ~ 821.5	0.2208	0.2123		
10	819.0	0.2168	0.2178		
15	821.5	0.2208	0.2123		

1.7 Testing Site

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Sh	nenzhen) Inc.								
Test Site Location										
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.							
	03CH03-SZ	CN1256	421272							

1.8 Test Software

Item	Site	Manufacturer	Name	Version	
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24	

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1.9 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

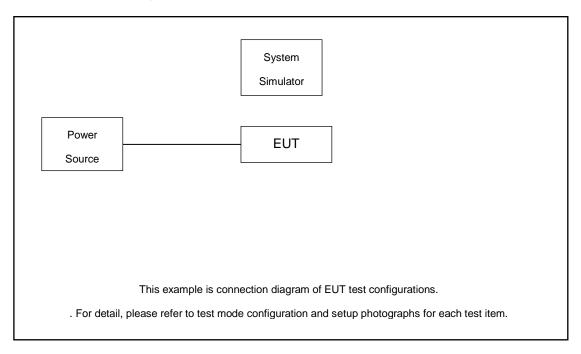
2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

Test Items	Band	Bandwidth (MHz)				Modulation			RB#			Test Channel				
rest items		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	н
Max. Output Power	26	v	v	v	v	v	-	v	v	-	v	v	v	٧	v	v
Radiated Spurious Emission	26	Worst mode									٧					
Note	2. Th 3. LT ov	e marl E Ban er 15M	k "-" m d26 tra 1Hz ba	eans t ansmit andwic	that th frequ Ith cor	is ban ency f nplies	dwidth or par the E	n is not su t22 rule is	824MHz-8 ne of part22	sting 49MHz, for pa rule, therefore						:RP

2.2 Connection Diagram of Test System



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2.3 Support Unit used in test configuration and system

Item Equipment		Trade Name	Model No.	FCC ID Data Cab		Power Cord			
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, m	1.8		
2.	Adapter	Mentech	MAC-120100X-D-16	N/A	N/A	N/A			

2.4 Frequency List of Low/Middle/High Channels

	LTE Band 26 Channel and Frequency List										
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest							
45	Channel	26765	-	-							
15	Frequency	821.5	-	-							
10	Channel	-	26740	-							
10	Frequency	-	819	-							
5	Channel	26715	26740	26765							
5	Frequency	816.5	819	821.5							
3	Channel	26705	26740	26775							
3	Frequency	815.5	819	822.5							
1.4	Channel	26697	26740	26783							
1.4	Frequency	814.7	819	823.3							

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3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

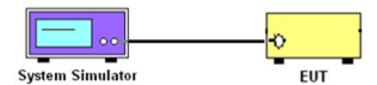
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through the system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

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3.2 Field Strength of Spurious Radiation Measurement

3.2.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43+10log₁₀(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

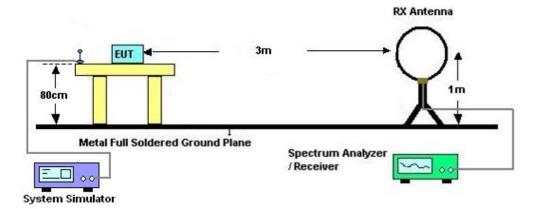
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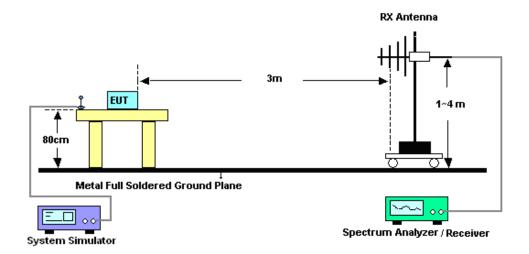
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3.2.4 Test Setup

For radiated test from 30MHz



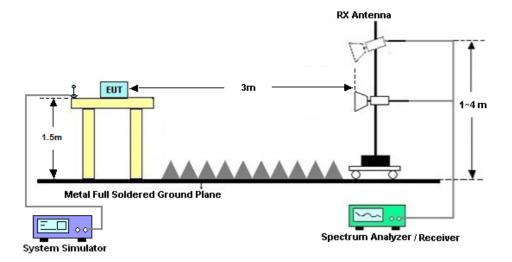
For radiated test from 30MHz to 1GHz



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For radiated test above 1GHz



3.2.5 Test Result of Field Strength of Spurious Radiated

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 17, 2021	Aug. 03, 2021	Apr. 16, 2022	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Aug. 03, 2021	Jun. 21, 2022	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 17, 2021	Aug. 03, 2021	Apr. 16, 2022	Radiation (03CH03-SZ
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 22, 2020	Aug. 03, 2021	Jun. 21, 2022	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 25 2021	Aug. 03, 2021	Apr. 24 2022	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 17,2020	Aug. 03, 2021	Oct. 16,2021	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 25,2020	Aug. 03, 2021	Dec. 24,2021	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Aug. 03, 2021	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 03, 2021	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 03, 2021	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

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5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.0dB
35 / (0 = 25c(y))	

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.6dB
Confidence of 95% (U = 2Uc(y))	3.0UB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	3.8dB
Confidence of 95% (U = 2Uc(y))	3.0UD

----- THE END -----

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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
	Cha	nnel	26765		J, 1.104.	
	Frequenc	cy (MHz)	821.5			
15	QPSK	1	0	23.44		
15	QPSK	1	5	23.30		
15	QPSK	3	0	23.25		
15	QPSK	3	3	23.39		
15	QPSK	6	0	22.73		
15	16QAM	1	0	23.27		
15	16QAM	1	5	22.86		
15	16QAM	3	0	22.74		
15	16QAM	3	3	22.79		
15	16QAM	6	0	22.83		
	Cha	nnel		26740		
	Frequenc	cy (MHz)			819	
10	QPSK	1	0		23.36	
10	QPSK	1	5		23.30	
10	QPSK	3	0		23.14	
10	QPSK	3	3		23.23	
10	QPSK	6	0		22.65	
10	16QAM	1	0		23.38	
10	16QAM	1	5		22.87	
10	16QAM	3	0		22.72	
10	16QAM	3	3		22.69	
10	16QAM	6	0		22.79	
	Cha	nnel	26715	26740	26765	
	Frequenc	cy (MHz)		816.5	819	821.5
5	QPSK	1	0	23.44	23.28	23.28
5	QPSK	1	5	23.21	23.19	23.23

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5	QPSK	3	0	23.15	23.13	23.16
5	QPSK	3	3	23.40	23.32	23.34
5	QPSK	6	0	22.64	22.68	22.80
5	16QAM	1	0	23.27	23.26	23.25
5	16QAM	1	5	22.75	22.79	22.87
5	16QAM	3	0	22.79	22.71	22.84
5	16QAM	3	3	22.72	22.74	22.73
5	16QAM	6	0	22.83	22.88	22.72
	Cha	nnel		26705	26740	26775
	Frequen	cy (MHz)		815.5	819	822.5
3	QPSK	1	0	23.23	23.14	23.24
3	QPSK	1	5	23.07	23.15	23.02
3	QPSK	3	0	22.94	23.11	23.02
3	QPSK	3	3	23.31	23.12	23.12
3	QPSK	6	0	22.64	22.62	22.56
3	16QAM	1	0	23.18	23.10	23.14
3	16QAM	1	5	22.72	22.60	22.74
3	16QAM	3	0	22.53	22.65	22.67
3	16QAM	3	3	22.58	22.60	22.70
3	16QAM	16QAM 6		22.80	22.68	22.77
	Cha	nnel		26697	26740	26783
	Frequen	cy (MHz)		814.7	819	823.3
1.4	QPSK	1	0	23.17	23.13	23.27
1.4	QPSK	1	5	23.17	23.12	23.09
1.4	QPSK	3	0	23.10	23.03	23.02
1.4	QPSK	3	3	23.19	23.22	23.13
1.4	QPSK	6	0	22.64	22.49	22.51
1.4	16QAM	1	0	23.13	23.18	23.21
1.4	16QAM	1	5	22.67	22.63	22.60
1.4	16QAM	3	0	22.70	22.58	22.56
1.4	16QAM	3	3	22.56	22.56	22.67
1.4	16QAM	6	0	22.74	22.76	22.80

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Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

	LTE Band 26 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
Middle	1633.5	-61.72	-13	-48.72	-67.89	-64.97	4.00	9.40	Н	
	2450.25	-61.86	-13	-48.86	-72.16	-65.43	4.88	10.60	Н	
	3267	-63.79	-13	-50.79	-76.25	-68.72	5.52	12.60	Н	
	1633.5	-54.42	-13	-41.42	-60.59	-57.67	4.00	9.40	V	
	2450.25	-58.34	-13	-45.34	-69.02	-61.91	4.88	10.60	V	
	3267	-63.61	-13	-50.61	-76.57	-68.54	5.52	12.60	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	LTE Band 26 / 10MHz / QPSK										
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	1629	-63.74	-13	-50.74	-69.88	-66.99	4.00	9.40	Н		
	2443.5	-61.97	-13	-48.97	-72.29	-65.54	4.88	10.60	Н		
Middle	3258	-64.08	-13	-51.08	-76.61	-69.01	5.52	12.60	Н		
Middle	1629	-56.49	-13	-43.49	-62.67	-59.74	4.00	9.40	V		
	2443.5	-57.72	-13	-44.72	-68.42	-61.29	4.88	10.60	V		
	3258	-63.29	-13	-50.29	-76.34	-68.22	5.52	12.60	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	LTE Band 26 / 15MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
Lowest	1629.5	-63.86	-13	-50.86	-70.00	-67.11	4.00	9.40	Н	
	2444.25	-64.71	-13	-51.71	-75.03	-68.28	4.88	10.60	Н	
	3259	-64.09	-13	-51.09	-76.62	-69.02	5.52	12.60	Н	
	1629.5	-56.24	-13	-43.24	-62.41	-59.49	4.00	9.40	V	
	2444.25	-58.61	-13	-45.61	-69.31	-62.18	4.88	10.60	V	
	3259	-63.63	-13	-50.63	-76.67	-68.56	5.52	12.60	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Sporton International (Shenzhen) Inc.

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