FCC Test Report

APPLICANT : Gosuncn Technology Group Co., Ltd.

EQUIPMENT: Wireless Home Phone

BRAND NAME : GOSUNCN

MODEL NAME : GW500

FCC ID : 2APNR-GW500

STANDARD : 47 CFR Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Jul. 19, 2019 and testing was completed on Aug. 31, 2019. We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

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.

Derreck Chen

Reviewed by: Derreck Chen / Supervisor

Fire Shih

Approved by: Eric Shih / Manager

Sporton International (ShenZhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen, 518055
People's Republic of China

Sporton International (Shenzhen) Inc.

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ACCREDITED
Cert #5145.01

Report No.: FC971908

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Report Template No.: BU5-FC15B Version 3.0

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC971908	Rev. 01	Initial issue of report	Sep. 11, 2019

Sporton International (Shenzhen) Inc.

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark		
			< 15.107 limits	PASS	Under limit		
3.1	15.107	AC Conducted Emission			9.97 dB at		
					0.170 MHz		
	15.109						Under limit
3.2		15.109 Radiated Emission	< 15.109 limits	PASS	6.56 dB at		
					57.160 MHz		

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. Product Feature of Equipment Under Test

	Product Feature			
Equipment	Wireless Home Phone			
Brand Name	GOSUNCN			
Model Name	GW500			
FCC ID	2APNR-GW500			
EUT supports Radios application	LTE/GNSS			
IMEI Code	Conduction: 358621100009191			
I IWEI Code	Radiation: N/A			
HW Version	EN_K500HPEL_MB_C			
SW Version	EN_K500HPELV1.0.0B02			
EUT Stage	Production Unit			

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

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1.4. Product Specification of Equipment Under Test

Standards-related Product Specification					
Tx Frequency	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5MHz				
Rx Frequency	LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 13: 748.5 MHz ~ 753.5 MHz LTE Band 25: 1930.7 MHz ~ 1994.3 MHz LTE Band 26: 859.7 MHz ~ 893.3 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 2110.7 MHz~ 2179.3 MHz LTE Band 71: 619.5 MHz ~ 649.5MHz GNSS: 1559 MHz ~ 1610 MHz				
Antenna Type	WWAN : Fixed External Antenna GNSS: FPC Antenna				
Type of Modulation	LTE: QPSK / 16QAM GNSS: BPSK				

Note: GNSS Rx = GLONASS + GPS

1.5. Modification of EUT

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

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1.6. Test Location

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 (Shenzhen) Inc.						
	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhe						
Test Site Location	518055 People's Republic of China						
rest Site Location	TEL: +86-755-86379589						
	FAX: +86-755-86379595						
Table Office No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.				
Test Site No.	CO01-SZ	CN1256	421272				

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Test Firm	Sporton International (Shenzhen) Inc.						
	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse,						
Test Site Location	Nanshan Shenzhen, 518055 People's Republic of China						
	TEL: +86-755-33202398						
Table Office No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.				
Test Site No.	03CH04-SZ	CN1256	421272				

1.7. Applicable Standards

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

- 47 CFR Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type			
	Mode 1: LTE Band 2 Idle(Middle) + GNSS Rx + telephone load + Adapter			
	Mode 2: LTE Band 4 Idle(Middle) + GNSS Rx + telephone load + Adapter			
	Mode 3: LTE Band 5 Idle(Low) + GNSS Rx + telephone load + Adapter			
	Mode 4: LTE Band 12 Idle(High) + GNSS Rx + telephone load + Adapter			
AC Conducted	Mode 5: LTE Band 13 Idle(High) + GNSS Rx + telephone load + Adapter			
Emission	Mode 6: LTE Band 25 Idle(High) + GNSS Rx + telephone load + Adapter			
	Mode 7: LTE Band 26 Idle(High) + GNSS Rx + telephone load + Adapter			
	Mode 8: LTE Band 41 Idle(High) + GNSS Rx + telephone load + Adapter			
	Mode 9: LTE Band 66 Idle(High) + GNSS Rx + telephone load + Adapter			
	Mode 10 : LTE Band 71 Idle(High) + GNSS Rx + telephone load + Adapter			
	Mode 1: LTE Band 2 Idle(Middle) + GNSS Rx + telephone load + Adapter			
	Mode 2: LTE Band 4 Idle(Middle) + GNSS Rx + telephone load + Adapter			
	Mode 3: LTE Band 5 Idle(Low) + GNSS Rx + telephone load + Adapter			
	Mode 4: LTE Band 12 Idle(High) + GNSS Rx + telephone load + Adapter			
Radiated	Mode 5: LTE Band 13 Idle(High) + GNSS Rx + telephone load + Adapter			
Emissions	Mode 6: LTE Band 25 Idle(High) + GNSS Rx + telephone load + Adapter			
	Mode 7: LTE Band 26 Idle(High) + GNSS Rx + telephone load + Adapter			
	Mode 8: LTE Band 41 Idle(High) + GNSS Rx + telephone load + Adapter			
	Mode 9: LTE Band 66 Idle(High) + GNSS Rx + telephone load + Adapter			
	Mode 10 : LTE Band 71 Idle(High) + GNSS Rx + telephone load + Adapter			
Remark:				

Remark:

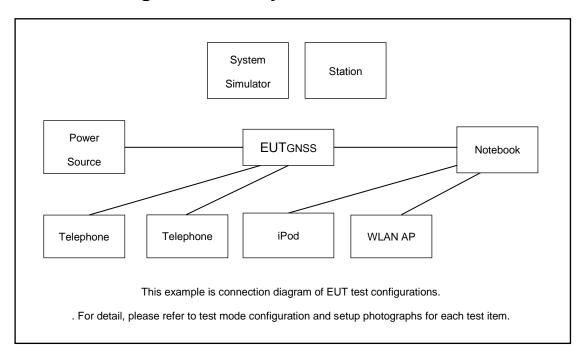
- 1. The worst case of AC is mode 1; only the test data of this mode is reported.
- 2. The worst case of RE is mode 7; only the test data of this mode is reported.

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2.2.Connection Diagram of Test System



2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	GNSS Station	RACELOGIC	18645	N/A	N/A	Unshielded,1.8m
3.	GNSS Station	RACELOGIC	RLLS03-2P	Fcc DoC	N/A	Unshielded,1.8m
4.	WLAN AP	D-link	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
5.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,2.7m with Core
6.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
7.	telephone	Bossini	HCD133TSD	N/A	N/A	N/A
8.	telephone	Bossini	HCD133TSDL	N/A	N/A	N/A
9.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2m	N/A
10.	IPod	Apple	MC525 ZP/A	Fcc DoC	Shielded, 1.0m	N/A

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2.4. EUT Operation Test Setup

The EUT was in LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between notebook and EUT via USB cable.
- 2. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B Limit>

Frequency of emission	Conducted limit (dBuV)			
(MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		

^{*}Decreases with the logarithm of the frequency.

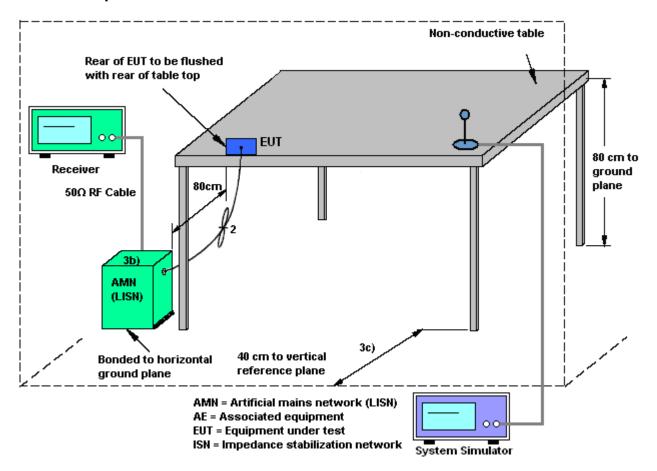
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

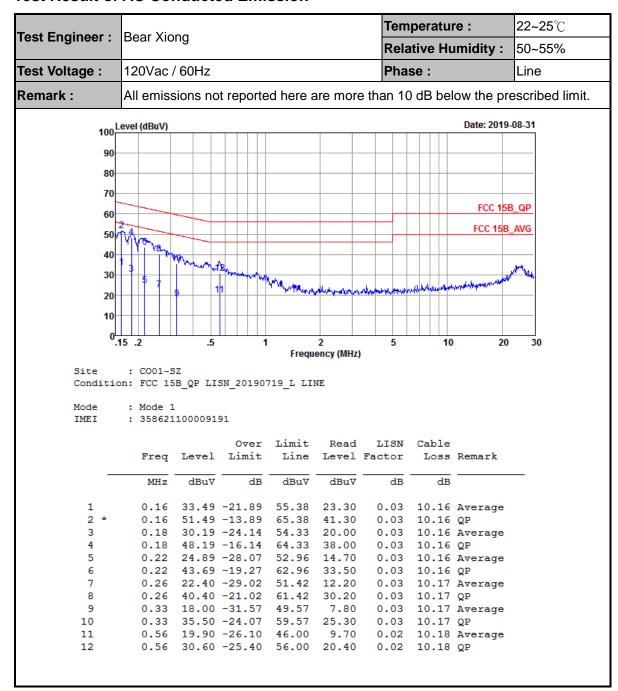
3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission



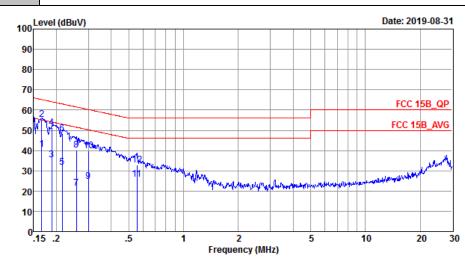
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Test Engineer :	Poor Viena	Temperature :	22~25℃	
rest Engineer.	Bear Along	Relative Humidity :	50~55%	
Test Voltage :	120Vac / 60Hz	c / 60Hz Phase :		

Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



Site : CO01-SZ

Condition: FCC 15B_QP LISN_20190719_N NEUTRAL

Mode : Mode 1

IMEI : 358621100009191

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
-	MHz	dBuV	dB	dBu∀	dBu∇	dB	dB	
1	0.17	40.49	-14.67	55.16	30.30	0.03	10.16	Average
2 *	0.17	55.19	-9.97	65.16	45.00	0.03	10.16	QP
3	0.19	35.39	-18.72	54.11	25.20	0.03	10.16	Average
4	0.19	51.39	-12.72	64.11	41.20	0.03	10.16	QP
5	0.22	31.69	-21.32	53.01	21.50	0.03	10.16	Average
6	0.22	48.19	-14.82	63.01	38.00	0.03	10.16	QP
7	0.26	21.50	-30.01	51.51	11.30	0.03	10.17	Average
8	0.26	40.20	-21.31	61.51	30.00	0.03	10.17	QP
9	0.30	24.90	-25.34	50.24	14.70	0.03	10.17	Average
10	0.30	39.70	-20.54	60.24	29.50	0.03	10.17	QP
11	0.56	25.80	-20.20	46.00	15.60	0.02	10.18	Average
12	0.56	32.70	-23.30	56.00	22.50	0.02	10.18	QP

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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B Limit>

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

3.2.2. Measuring Instruments

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

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3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

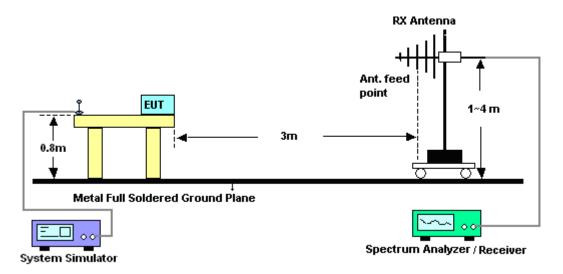
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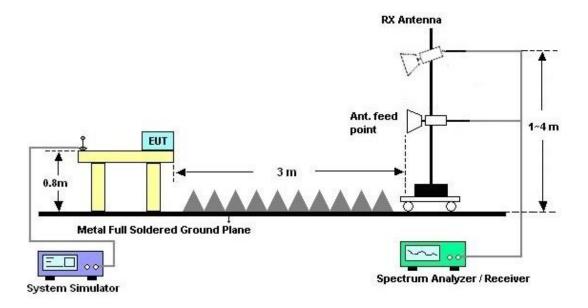
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



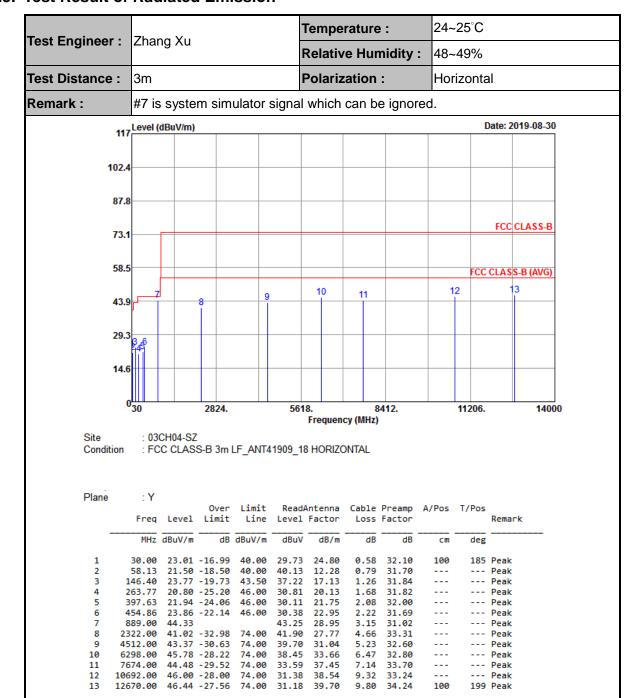
For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission



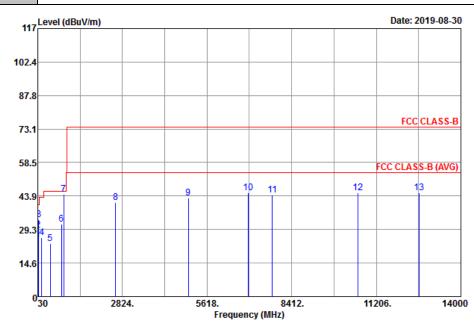
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Test Engineer :	Zhang Xu	Temperature :	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Vertical
Test Distance :	3m	Polarization :	Vertical

Remark: #7 is system simulator signal which can be ignored.



Site : 03CH04-SZ

Condition : FCC CLASS-B 3m LF_ANT41909_18 VERTICAL

Plane	: Y										
			Over	Limit	ReadA	ntenna	Cable	Preamp	A/Pos	T/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.97	24.73	-15.27	40.00	31.91	24.33	0.59	32.10			Peak
2	46.49	29.12	-10.88	40.00	43.91	16.35	0.71	31.85			Peak
3	57.16	33.44	-6.56	40.00	51.83	12.52	0.79	31.70	100	65	Peak
4	155.13	25.71	-17.79	43.50	39.56	16.66	1.30	31.81			Peak
5	439.34	23.16	-22.84	46.00	30.03	22.63	2.18	31.68			Peak
6	813.76	31.61	-14.39	46.00	31.21	28.57	3.00	31.17			Peak
7	889.00	44.57			43.49	28.95	3.15	31.02			Peak
8	2604.00	40.98	-33.02	74.00	41.43	27.75	4.96	33.16			Peak
9	4998.00	43.07	-30.93	74.00	37.55	32.16	6.06	32.70			Peak
10	6980.00	45.32	-28.68	74.00	36.02	35.64	7.16	33.50			Peak
11	7772.00	44.27	-29.73	74.00	33.28	37.39	7.30	33.70			Peak
12	10610.00	45.38	-28.62	74.00	30.84	38.47	9.29	33.22	100	44	Peak
13	12630.00	45.22	-28.78	74.00	29.97	39.68	9.79	34.22			Peak

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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	R&S	ESR7	101404	9kHz~7GHz	Apr. 18, 2019	Aug. 30, 2019	Apr. 17, 2020	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 18, 2019	Aug. 30, 2019	Apr. 17, 2020	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Aug. 27, 2019	Aug. 30, 2019	Aug. 26, 2020	Radiation (03CH04-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2018	Aug. 30, 2019	Oct. 17, 2019	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-1474	1GHz~18GHz	Apr. 01, 2019	Aug. 30, 2019	Mar. 31, 2020	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 18, 2018	Aug. 30, 2019	Oct. 17, 2019	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Aug. 30, 2019	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 30, 2019	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 30, 2019	NCR	Radiation (03CH04-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 23, 2018	Aug. 31, 2019	Dec. 22, 2019	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Oct. 18, 2018	Aug. 31, 2019	Oct. 17, 2019	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Dec. 23, 2018	Aug. 31, 2019	Dec. 22, 2019	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Jul. 23, 2019	Aug. 31, 2019	Jul. 22, 2020	Conduction (CO01-SZ)

NCR: No Calibration Required

Sporton International (Shenzhen) Inc.

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5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.6dB
of 95% (U = 2Uc(y))	2.0UB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	5.0dB
of 95% (U = 2Uc(y))	3.0GB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence	4.8dB
of 95% (U = 2Uc(y))	4.0UD

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