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Report No.: SZEM160400249601  
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## FCC Test Report

**Application No.:** SZEM1604002496PS  
**Applicant:** Best Case and Accessories, Inc.  
**Manufacturer:** Best Case and Accessories, Inc.  
**Factory:** DONGGUAN ARUN INDUSTRIAL CO., LTD  
**Equipment Under Test (EUT):**  
**EUT Name:** SKU 04070  
**Model No.:** SKU 04070  
**Trade Mark:** Just Wireless  
**FCC ID:** 2AH8SWX0001  
**Standards:** 47 CFR PART 18: 2015  
**Date of Receipt:** 2016-04-19  
**Date of Test:** 2016-04-26  
**Date of Issue:** 2016-04-27

<b>Test Result :</b>	<b>PASS*</b>
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\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Jack Zhang  
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.



## 2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission (150 kHz to 30 MHz)	47 CFR PART 18: 2015	FCC OST/ MP-5:1986	18.307(a)	Pass
Radiated Emission (9 kHz to 30MHz)	47 CFR PART 18: 2015	FCC OST/ MP-5:1986	18.305(b)	Pass

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## 4 General Information

### 4.1 Client Information

Applicant:	Best Case and Accessories, Inc.
Address of Applicant:	140 58th Street – Ste. 2i Brooklyn, NY 11220 USA
Manufacturer:	Best Case and Accessories, Inc.
Address of Manufacturer:	140 58th Street – Ste. 2i Brooklyn, NY 11220 USA
Factory:	DONGGUAN ARUN INDUSTRIAL CO.,LTD
Address of Factory:	NO.18, Xinfeng Street, Changlong Village, Huangjiang Town, Dongguan City, Guangdong Province, P.R.China

### 4.2 General Description of EUT

Product Name:	SKU 04070
Model No.:	SKU 04070
Trade Mark:	Just Wireless
Sample Type:	Wireless charger
Operation frequency:	110kHz-205kHz
Power Supply:	AC 120V/60Hz
USB Cable:	157cm, unshielded

### 4.3 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Serial No.
Mobile phone	sumsang	GALAXY S4	N/A
Wireless Charging receiver	Supplied by client	DC 5V,1A	N/A





#### **4.4 Test Location**

Only the Radiate emission(9kHz-30MHz) was test in SGS GZ, the other tests were performed at:  
SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,  
No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China  
518057.

Tel: +86 755 2601 2053      Fax: +86 755 2671 0594

#### **4.5 Test Facility**

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

- CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

- Industry Canada (IC)**

The 10m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-3.

#### **4.6 Deviation from Standards**

None.

#### **4.7 Abnormalities from Standard Conditions**

None.

## 5 Equipment List

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2015-05-13	2016-05-13
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2015-10-09	2016-10-09
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2015-05-13	2016-05-13
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2015-08-30	2016-08-30
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2015-08-30	2016-08-30
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2015-08-30	2016-08-30
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2015-05-13	2016-05-13
8	Coaxial Cable	SGS	N/A	SEL0025	2015-05-13	2016-05-13



# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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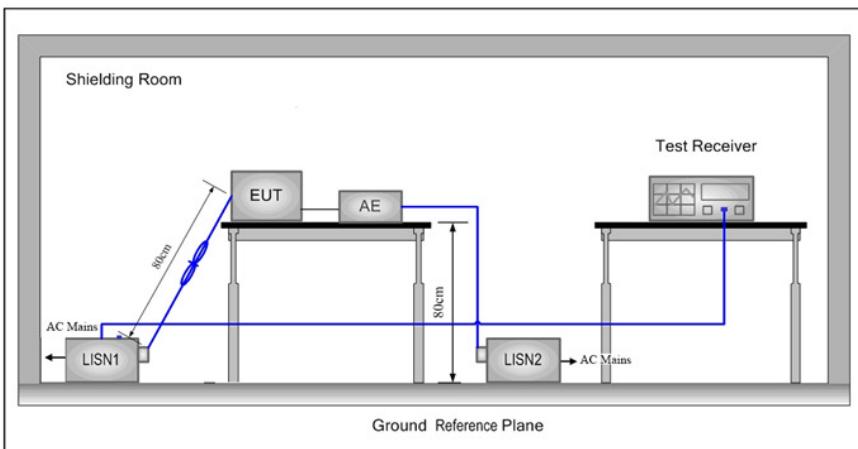
RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEL0303	2015-08-01	2016-08-01
2	EMI Test Receiver (9k-3GHz)	Rohde & Schwarz	ESCI	SEL0175	2015-05-13	2016-05-13
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0288	2015-05-13	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0275	2015-05-13	2016-05-13
6	Coaxial cable	SGS	N/A	SEL0274	2015-05-13	2016-05-13
7	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-17	2016-01-26	2017-01-26
8	Pre-amplifier	Sonoma Instrument Co	310N	SEL0298	2015-05-13	2016-05-13
9	Loop Antenna	ETS-LINDGREN	6502	SEL0802	2015-08-14	2016-08-14

General used equipment						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEL0101	2015-10-12	2016-10-12
2	Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEL0102	2015-10-12	2016-10-12
3	Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEL0103	2015-10-12	2016-10-12
4	Barometer	Changchun Meteorological Industry Factory	DYM3	SEL0088	2015-05-13	2016-05-13

## 6 Test Results

### 6.1 Conducted Emissions

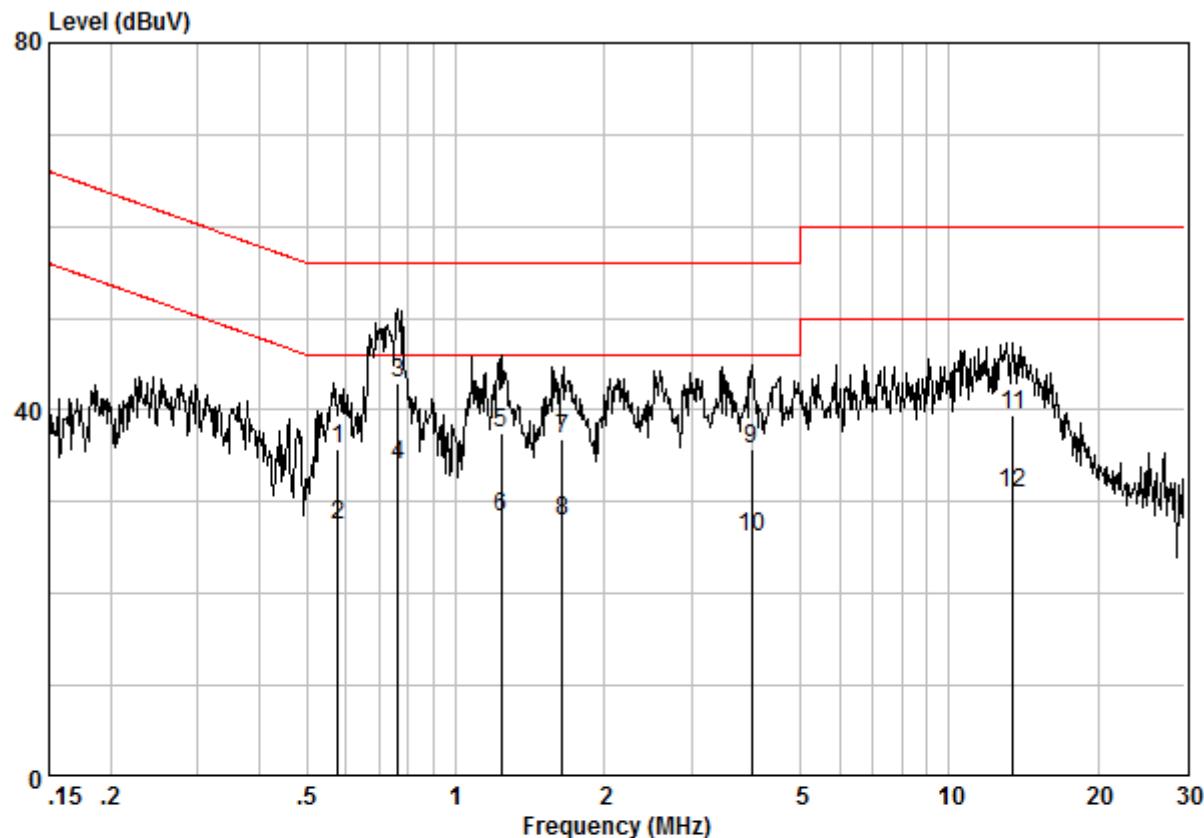
Test Requirement:	47 CFR PART 18		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)		Limit (dBuV)
	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
Test Procedure:	5-30	60	50
	* Decreases with the logarithm of the frequency.		
	<ol style="list-style-type: none"><li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li><li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a <math>50\Omega/50\mu\text{H} + 5\Omega</math> linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li><li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</li><li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li><li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.</li></ol>		

Test Setup:	
Test Mode:	Wireless charge mode. Keep EUT charging with full load and half load to find the worst case. The compliance test performed at full load since no worst case was found.
Instruments Used:	Refer to section 5 for details
Test Results:	Pass

**Measurement Data**

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

**Live Line:**


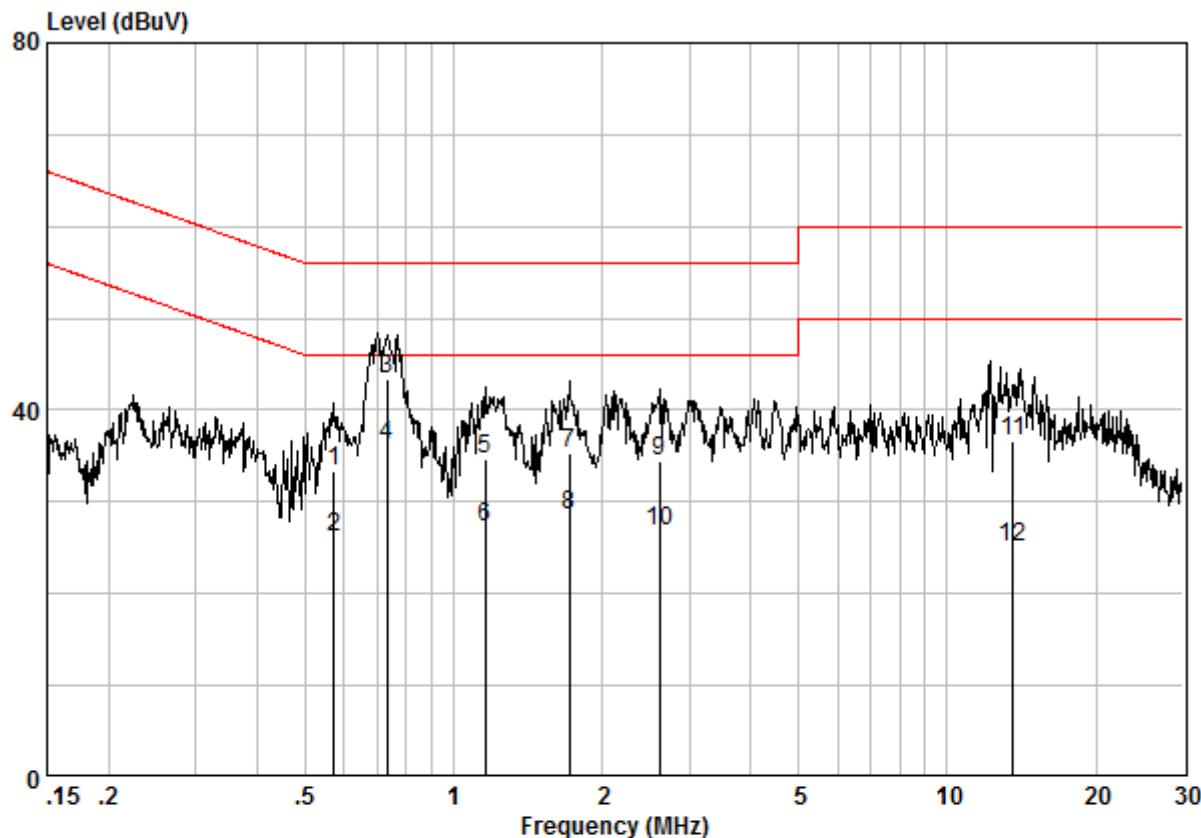
Site : Shielding Room

Condition : CE LINE

Job No. : 2496PS

Test Mode : a

	Freq	Cable	LISN	Read	Limit		Over	Remark
		Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.57680	0.01	9.61	26.20	35.82	56.00	-20.18	QP
2	0.57680	0.01	9.61	17.80	27.42	46.00	-18.58	Average
3	0.76297	0.02	9.60	33.30	42.92	56.00	-13.08	QP
4	0.76297	0.02	9.60	24.30	33.92	46.00	-12.08	Average
5	1.236	0.02	9.61	27.80	37.43	56.00	-18.57	QP
6	1.236	0.02	9.61	18.80	28.43	46.00	-17.57	Average
7	1.645	0.02	9.60	27.20	36.82	56.00	-19.18	QP
8	1.645	0.02	9.60	18.20	27.82	46.00	-18.18	Average
9	3.985	0.02	9.63	26.00	35.64	56.00	-20.36	QP
10	3.985	0.02	9.63	16.50	26.14	46.00	-19.86	Average
11	13.479	0.01	9.75	29.60	39.36	60.00	-20.64	QP
12	13.479	0.01	9.75	21.10	30.86	50.00	-19.14	Average

**Neutral Line:**


Site : Shielding Room

Condition : CE NEUTRAL

Job No. : 2496PS

Test Mode : a

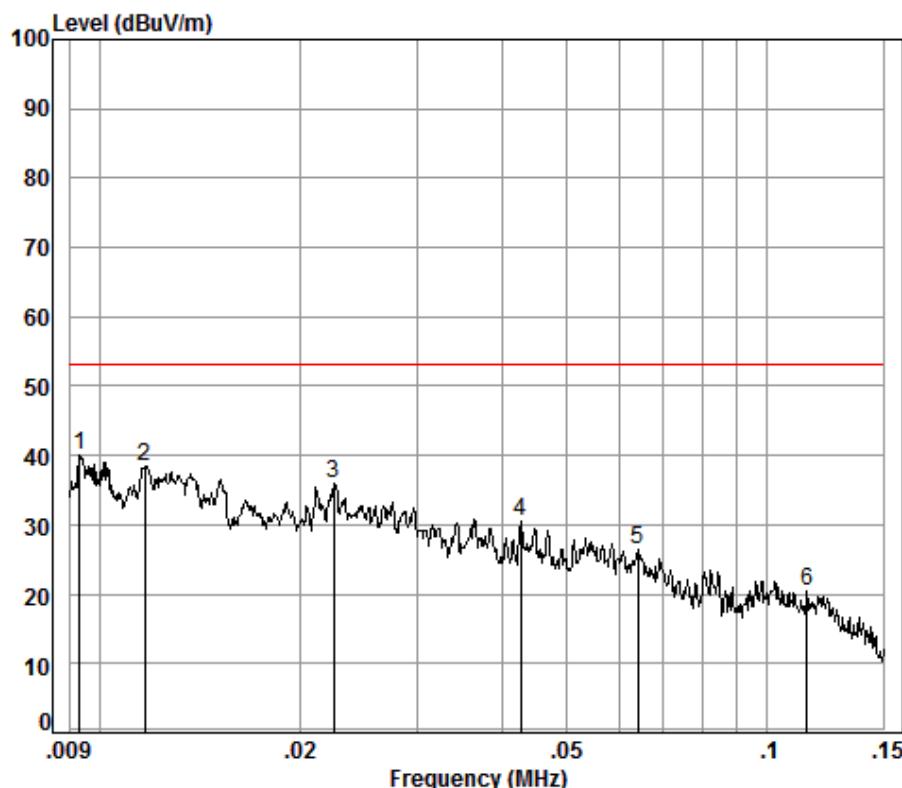
	Freq	Cable	LISN	Read	Limit	Over	Remark
		Loss	Factor	Level	Level	Line	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.57313	0.01	9.63	23.70	33.34	56.00	-22.66 QP
2	0.57313	0.01	9.63	16.50	26.14	46.00	-19.86 Average
3	0.73131	0.02	9.63	33.80	43.45	56.00	-12.55 QP
4 @	0.73131	0.02	9.63	26.50	36.15	46.00	-9.85 Average
5	1.160	0.02	9.65	25.00	34.67	56.00	-21.33 QP
6	1.160	0.02	9.65	17.60	27.27	46.00	-18.73 Average
7	1.716	0.02	9.65	25.60	35.27	56.00	-20.73 QP
8	1.716	0.02	9.65	18.80	28.47	46.00	-17.53 Average
9	2.608	0.02	9.67	24.80	34.49	56.00	-21.51 QP
10	2.608	0.02	9.67	17.10	26.79	46.00	-19.21 Average
11	13.606	0.01	9.87	26.70	36.59	60.00	-23.41 QP
12	13.606	0.01	9.87	15.10	24.99	50.00	-25.01 Average

## 6.2 Radiated Emissions

Test Requirement:	47 CFR PART 18			
Test Site:	Measurement Distance: 10m (Semi-Anechoic Chamber)			
Receiver Setup:	Frequency	Detector	RBW	VBW
	9kHz~150kHz	Quasi-peak	200Hz	$\geq$ RBW
	150kHz~30MHz	Quasi-peak	9kHz	$\geq$ RBW
	30MHz~1GHz	Quasi-peak	100kHz	$\geq$ RBW
Limit:	Frequency	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009-30MHz	53.0	Quasi-peak	10
	30MHz-88MHz	40.0	Quasi-peak	3
	88MHz-216MHz	43.5	Quasi-peak	3
	216MHz-1000MHz	46.0	Quasi-peak	3
Remark: According to the article 18.305(b), The operating frequency is non-ISM frequency; the RF Power generated by equipment is below 500(watts); According to the clause 18.305(c), the EUT belongs to Consumer equipment.				
Test Setup:				
Figure 1. Below 30MHz				
Figure 2. 30MHz to 1GHz				
Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber(30MHz-1000MHz) and 10 meter semi-anechoic chamber(9kHz-30MHz). The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters(30MHz-1000MHz) and 10 meter(9kHz-30MHz) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>Above 30MHz: The Analyzer/Receiver scanned from 30MHz to 1000MHz. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>Below 30MHz: The Analyzer/Receiver scanned from 9kHz to 30MHz. The antenna height is 2 meters above the ground to determine the maximum value of the field strength.</li> </ol>			

	<p>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 2 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Repeat above procedures until all frequencies measured was complete.</p> <p>i. Measurement Requirement: According to the clause 18.305(c)notes 2. At frequencies at or above 30MHz: <math display="block">\text{Limit}_{3m}(\text{dBuV}) = \text{Limit}_{xm}(\text{dBuV}) + 20\log(xm/3m)</math> At frequencies below 30MHz: <math display="block">\text{Limit}_{10m}(\text{dBuV}) = \text{Limit}_{xm}(\text{dBuV}) + 20\log(xm/3m)</math> Remark: x replace the number 10,30,300.</p>
Test Mode:	Wireless charge mode. Keep EUT charging with full load and half load to find the worst case. The compliance test performed at full load since no worst case was found.
Instruments Used:	Refer to section 5 for details
Test Results:	Pass

0.009MHz-30MHz



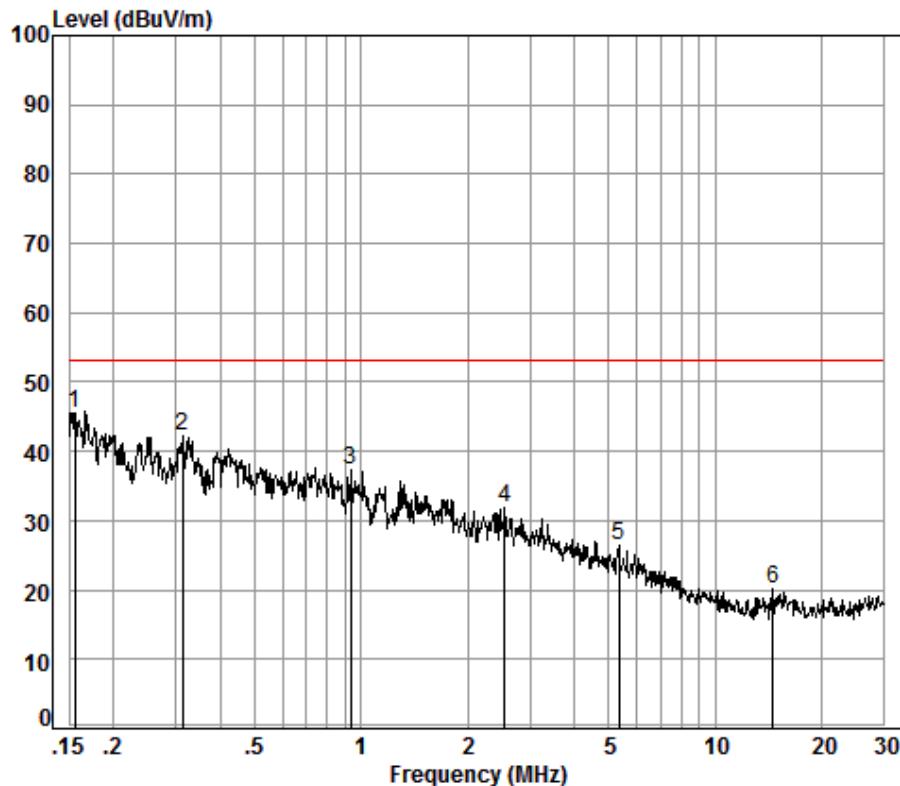
Condition: 10m

Job No. : 2496PS

Test Mode: a

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit
					dB	dBuV	
1 pp	0.01	0.30	21.80	32.21	50.24	40.13	53.06 -12.93
2	0.01	0.27	20.70	32.48	49.99	38.48	53.06 -14.58
3	0.02	0.21	16.38	32.49	51.85	35.95	53.06 -17.11
4	0.04	0.14	13.42	32.51	49.48	30.53	53.06 -22.53
5	0.06	0.10	12.82	32.51	46.14	26.55	53.06 -26.51
6	0.11	0.06	12.93	32.51	40.08	20.56	53.06 -32.50





Condition: 10m

Job No. : 2496PS

Test Mode: a

Freq	Cable	Ant	Preamp	Read	Limit	Over		
	Loss	Factor	Factor	Level			Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	0.16	0.07	12.80	32.50	65.20	45.57	53.06	-7.49
2	0.31	0.09	12.70	32.52	61.98	42.25	53.06	-10.81
3	0.93	0.22	12.75	32.45	56.93	37.45	53.06	-15.61
4	2.54	0.36	12.32	32.47	51.60	31.81	53.06	-21.25
5	5.33	0.43	10.96	32.48	47.40	26.31	53.06	-26.75
6	14.52	0.59	10.32	32.51	41.78	20.18	53.06	-32.88

**Remark:**

1:The loop antenna rotated about both Vertical and Horizontal to find the maximum emission,So only the worst position(Horizontal) was report.

2:According to the clause 2.3 of MP-5:1986, the hightest frequency is 205kHz, So the Range of frequency measurements is 9kHz to 30MHz.

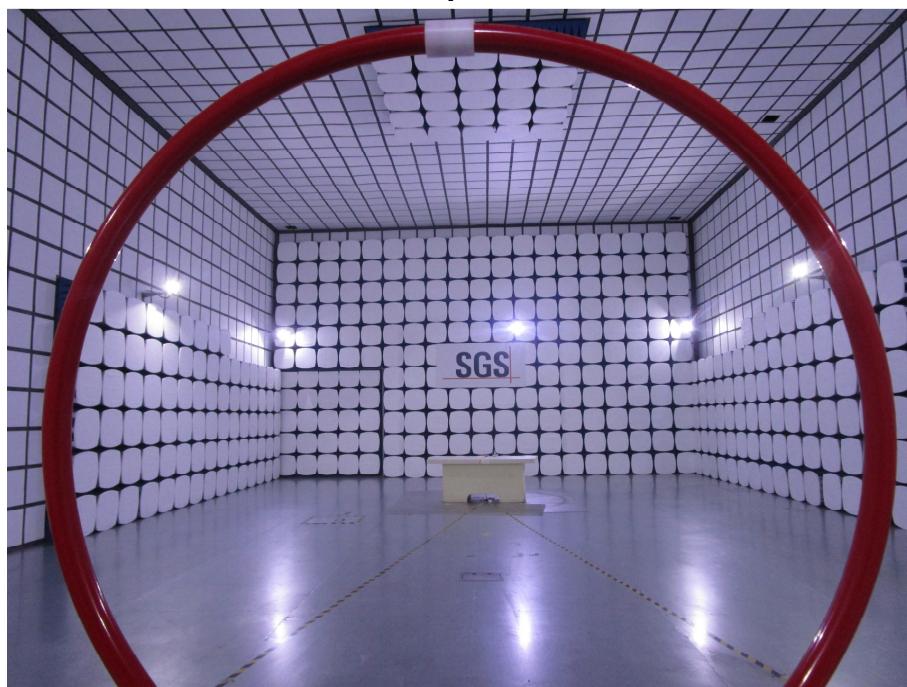
## 7 Photographs

Test Model No.: SKU 04070

### 7.1 Conducted Emission Test Setup



### 7.2 Radiated Emission Test Setup



**7.3 EUT Constructional Details**