

FCC TEST REPORT
For
Shenzhen Xinjiawei Technology Co., Ltd
Wireless charger
Test Model: AuraPad-3

Prepared for	:	Shenzhen Xinjiawei Technology Co., Ltd
Address	:	1st Floor, Office Building, No.17, Hongbai Industrial Zone, No. 1 Chuangye Road, Shilongzi, Bao' an District, Shenzhen, China
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample	:	November 19, 2019
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	November 19, 2019 ~ November 28, 2019
Date of Report	:	December 02, 2019

FCC TEST REPORT

FCC CFR 47 PART 18

Report Reference No. : **LCS190903106AEA**

Date Of Issue : December 02, 2019

Testing Laboratory Name..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.**

Address : 101, Xingyuan Industrial Park, Gushu Community, Xixiang Street,
Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure..... : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □

Applicant's Name : **Shenzhen Xinjiawei Technology Co., Ltd**

Address : 1st Floor, Office Building, No.17, Hongbai Industrial Zone, No. 1
Chuangye Road, Shilongzi, Bao' an District, Shenzhen, China

Test Specification

Standard..... : FCC CFR 47 PART 18

Test Report Form No. : LCSEMC-1.0

TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2011-03

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Test Item Description. : **Wireless charger**

Trade Mark..... : N/A

Test Model..... : AuraPad-3

Power Supply : Input: DC 5V/2A, 9V/1.67A, 9V/1.8A
Output: DC 9/1.8A, 9V/0.9A, 9V/1.2A

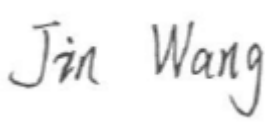
Result : **Positive**

Compiled by:



Jayden Zhuo / Administrators

Supervised by:



Jin Wang / Technique principal

Approved by:



Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. : LCS190903106AEA	<u>December 02, 2019</u> Date of issue
--	---

Test Model.....	: AuraPad-3
EUT.....	: Wireless charger
Applicant.....	: Shenzhen Xinjiawei Technology Co., Ltd
Address.....	: 1st Floor, Office Building, No.17, Hongbai Industrial Zone, No. 1 Chuangye Road, Shilongzi, Bao' an District, Shenzhen, China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Shenzhen Xinjiawei Technology Co., Ltd
Address.....	: 1st Floor, Office Building, No.17, Hongbai Industrial Zone, No. 1 Chuangye Road, Shilongzi, Bao' an District, Shenzhen, China
Telephone.....	: /
Fax.....	: /
Factory.....	: /
Address.....	: /
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
000	December 02, 2019	Initial Issue	Gavin Liang

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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	:	Wireless charger
Test Model	:	AuraPad-3
Hardware Version	:	/
Software Version	:	/
Operating Frequency	:	110 KHz - 250 KHz
Modulation Type	:	Continuous wave
Antenna Type	:	Coil Antenna
Input/Output	:	Input: DC 5V/2A, 9V/1.67A, 9V/1.8A Output: DC 9V/1.8A, 9V/0.9A, 9V/1.2A

1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
--	CHARGER	F3 PRIME	--	FCC ID
MIUI	Mobile Phone	MI9		FCC ID

Note: Auxiliary equipment is provided by the laboratory.

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
Micro USB Port	1	N/A
USB Cable	1	1.0mm

1.4 Description of Test Facility

FCC Registration Number is 254912.
Industry Canada Registration Number is 9642A-1.
EMSD Registration Number is ARCB0108.
UL Registration Number is 100571-492.
TUV SUD Registration Number is SCN1081.
TUV RH Registration Number is UA 50296516-001.
NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier: CN0071.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5 Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Radiation Uncertainty	9KHz~30MHz	3.10dB	(1)
	30MHz~200MHz	2.96dB	(1)
	200MHz~1000MHz	3.10dB	(1)
	1GHz~26.5GHz	3.80dB	(1)
	26.5GHz~40GHz	3.90dB	(1)
Conduction Uncertainty	150kHz~30MHz	1.63dB	(1)
Power disturbance	30MHz~300MHz	1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7 Description of Test Modes

Equipment under test was operated during the measurement under the following conditions:

☒ Charging and communication mode

Modulation Type: No Modulation

Test Modes		
TM1	AC/DC Adapter (5V/2A) + EUT + Mobile Phone (Stand mode) (Battery Status: <1%)	Pre-tested
TM2	AC/DC Adapter + (5V/2A) + Mobile Phone (Stand mode) (Battery Status: <50%)	Pre-tested
TM3	AC/DC Adapter + (5V/2A) + Mobile Phone (Stand mode) (Battery Status: 100%)	Pre-tested
TM4	AC/DC Adapter (5V/2A) + EUT + Mobile Phone (Pad mode) (Battery Status: <1%)	Pre-tested
TM5	AC/DC Adapter + (5V/2A) + Mobile Phone (Pad mode) (Battery Status: <50%)	Pre-tested
TM6	AC/DC Adapter + (5V/2A) + Mobile Phone (Pad mode) (Battery Status: 100%)	Pre-tested
TM7	AC/DC Adapter (9V/1.67A) + EUT + Mobile Phone (Stand mode) (Battery Status: <1%)	Pre-tested
TM8	AC/DC Adapter + (9V/1.67A) + Mobile Phone (Stand mode) (Battery Status: <50%)	Pre-tested
TM9	AC/DC Adapter + (9V/1.67A) + Mobile Phone (Stand mode) (Battery Status: 100%)	Pre-tested
TM10	AC/DC Adapter (9V/1.67A) + EUT + Mobile Phone (Pad mode) (Battery Status: <1%)	Pre-tested
TM11	AC/DC Adapter + (9V/1.67A) + Mobile Phone (Pad mode) (Battery Status: <50%)	Pre-tested
TM12	AC/DC Adapter + (9V/1.67A) + Mobile Phone (Pad mode) (Battery Status: 100%)	Pre-tested
TM13	AC/DC Adapter (9V/1.8A) + EUT + Mobile Phone (Stand mode) (Battery Status: <1%)	Record
TM14	AC/DC Adapter + (9V/1.8A) + Mobile Phone (Stand mode) (Battery Status: <50%)	Pre-tested
TM15	AC/DC Adapter + (9V/1.8A) + Mobile Phone (Stand mode) (Battery Status: 100%)	Pre-tested
TM16	AC/DC Adapter (9V/1.8A) + EUT + Mobile Phone (Pad mode) (Battery Status: <1%)	Pre-tested
TM17	AC/DC Adapter + (9V/1.8A) + Mobile Phone (Pad mode) (Battery Status: <50%)	Pre-tested
TM18	AC/DC Adapter + (9V/1.8A) + Mobile Phone (Pad mode) (Battery Status: 100%)	Pre-tested
Note: All test modes were pre-tested, but we only recorded the worst case in this report.		

For AC conducted emission, pre-test at both AC 120V/60Hz and AC 240V/50Hz, recorded worst case;

For AC conducted emission, pre-test at both AC charge from power adapter and PC modes, recorded worst case.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with MP-5, and FCC CFR PART 18.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the charging and compunction mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 18.305 and 18.307 under the FCC Rules Part 18.

2.3 General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in FCC MP-5 for Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in FCC MP-5 for radiated emission.

3. SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a normal condition.

3.2 EUT Exercise Software

N/A.

3.3 Special Accessories

N/A.

3.4 Block Diagram/Schematics

Please refer to the related document.

3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6 Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST EQUIPMENT

Ite m	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power Meter	R&S	NRVS	100444	2019-06-11	2020-06-10
2	Power Sensor	R&S	NRV-Z81	100458	2019-06-11	2020-06-10
3	Power Sensor	R&S	NRV-Z32	10057	2019-06-11	2020-06-10
4	Test Software	Tonscend	JS1120-2	/	N/A	N/A
5	RF Control Unit	Tonscend	JS0806-2	N/A	2019-06-11	2020-06-10
6	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2019-06-11	2020-06-10
7	DC Power Supply	Agilent	E3642A	N/A	2019-11-14	2020-11-13
8	EMI Test Software	AUDIX	E3	/	N/A	N/A
9	3m Semi Anechoic Chamber	SIDT FRANKONI A	SAC-3M	03CH03-HY	2019-06-12	2020-06-11
10	Positioning Controller	MF	MF-7082	N/A	2019-06-12	2020-06-11
11	Active Loop Antenna	SCHWARZB ECK	FMZB 1519B	00005	2019-07-25	2020-07-24
12	By-log Antenna	SCHWARZB ECK	VULB9163	9163-470	2019-07-25	2020-07-24
13	Horn Antenna	SCHWARZB ECK	BBHA 9120D	9120D-1925	2019-06-30	2020-06-29
14	Broadband Horn Antenna	SCHWARZB ECK	BBHA 9170	791	2019-09-19	2020-09-18
15	Broadband Preamplifier	SCHWARZB ECK	BBV 9719	9719-025	2019-09-19	2020-09-18
16	EMI Test Receiver	R&S	ESR 7	101181	2019-06-12	2020-06-11
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2019-11-14	2020-11-13
18	AMPLIFIER	QuieTek	QTK	CHM/0809065	2019-11-14	2020-11-13
19	RF Cable-R03m	Jye Bao	RG142	CB021	2019-06-12	2020-06-11
20	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2019-06-12	2020-06-11
21	6dB Attenuator	/	100W/6dB	1172040	2019-06-11	2020-06-10
22	3dB Attenuator	/	2N-3dB	/	2019-06-11	2020-06-10
23	EMI Test Receiver	R&S	ESPI	101840	2019-06-11	2020-06-10
24	Artificial Mains	R&S	ENV216	101288	2019-06-12	2020-06-11
25	10dB Attenuator	SCHWARZB ECK	MTS-IMP-136	261115-001-0032	2019-06-11	2020-06-10

Note: All equipment is calibrated through CHINA CEPREI LABORATORY and GUANGZHOU LISAI CALIBRATION AND TEST CO., LTD.

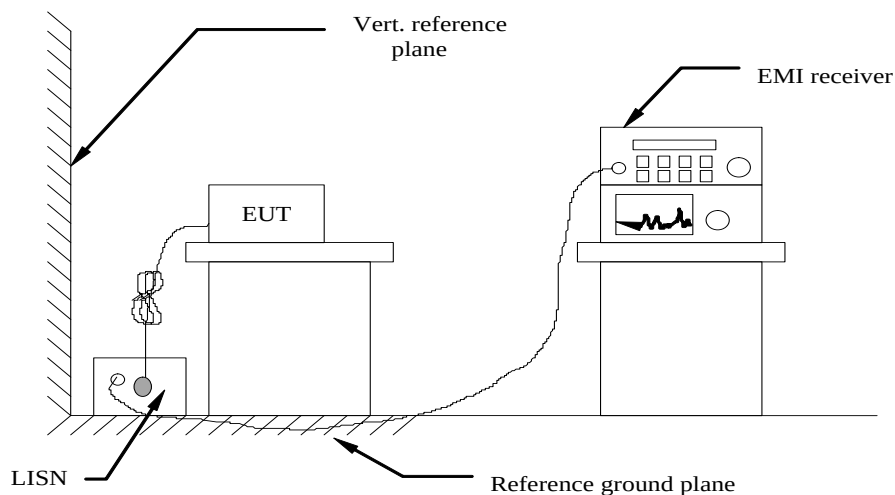
5. SUMMARY OF TEST RESULT

Test Item	FCC Rule No.	Temperature conditions	Power source conditions	C	NC	NA	NP	Remark
Radiated Emission	§18.305 (b)	Nominal	Nominal	☒	☐	☐	☐	-/-
AC conducted emission	§18.307 (b)	Nominal	Nominal	☒	☐	☐	☐	-/-

Remark: The measurement uncertainty is not included in the test result.

6. POWER LINE CONDUCTED MEASUREMENT

6.1. Block Diagram of Test Setup



6.2. Standard Applicable

According to §18.307 (b): For all other part 18 consumer devices which 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 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

6.3 Test Results

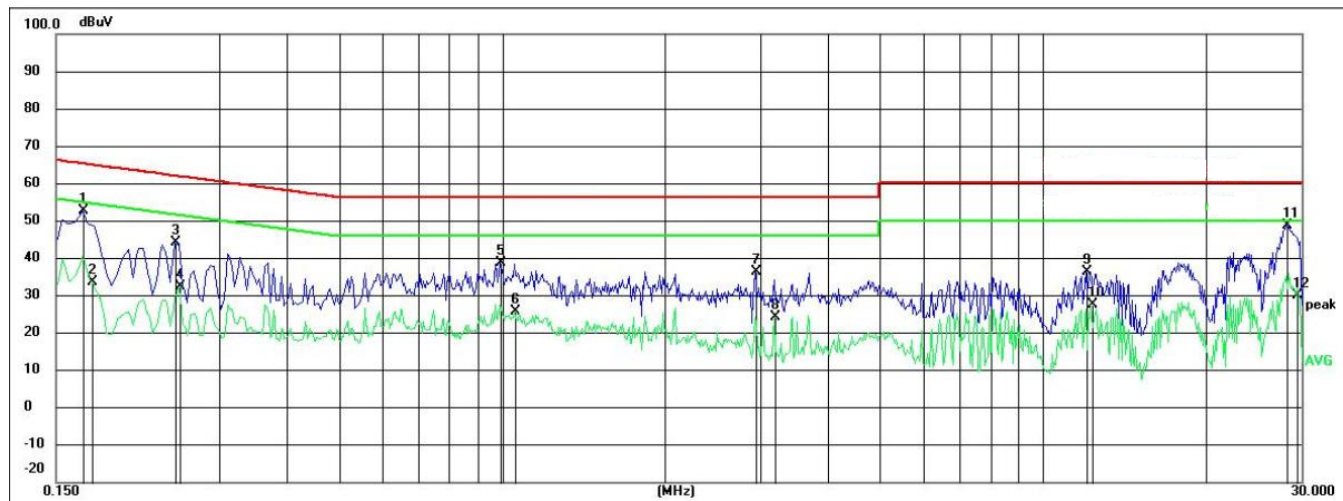
PASS.

The test data please refer to following page.

Temperature	23.4°C	Humidity	53.5%
Test Engineer	Qu Xin	Configurations	WPT

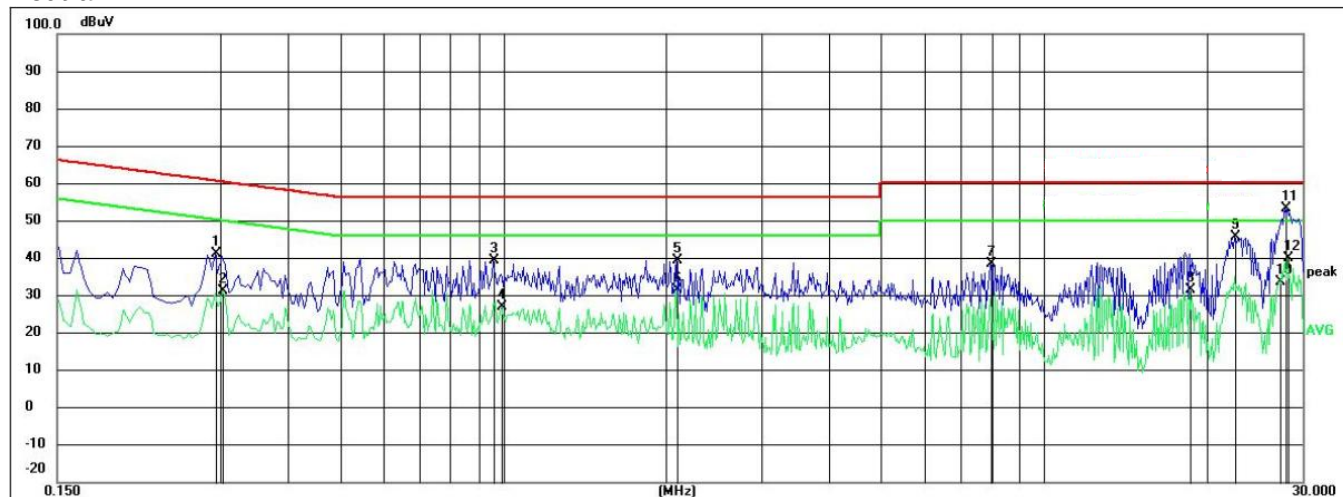
AC Power Line Conducted Emission (Power adapter 9/1.8A) @ AC 120V/60Hz (Worst Case))

Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1680	33.64	19.16	52.80	65.06	-12.26	QP
2	0.1749	14.40	19.16	33.56	54.72	-21.16	AVG
3	0.2490	24.89	19.23	44.12	61.79	-17.67	QP
4	0.2535	13.20	19.23	32.43	51.64	-19.21	AVG
5	0.9915	19.40	19.26	38.66	56.00	-17.34	QP
6	1.0545	6.50	19.27	25.77	46.00	-20.23	AVG
7	2.9445	16.93	19.47	36.40	56.00	-19.60	QP
8	3.1920	4.90	19.47	24.37	46.00	-21.63	AVG
9	12.0345	16.61	19.86	36.47	60.00	-23.53	QP
10	12.2820	7.80	19.89	27.69	50.00	-22.31	AVG
11	28.2165	28.59	20.15	48.74	60.00	-11.26	QP
12	29.3820	9.78	20.11	29.89	50.00	-20.11	AVG

Neutral

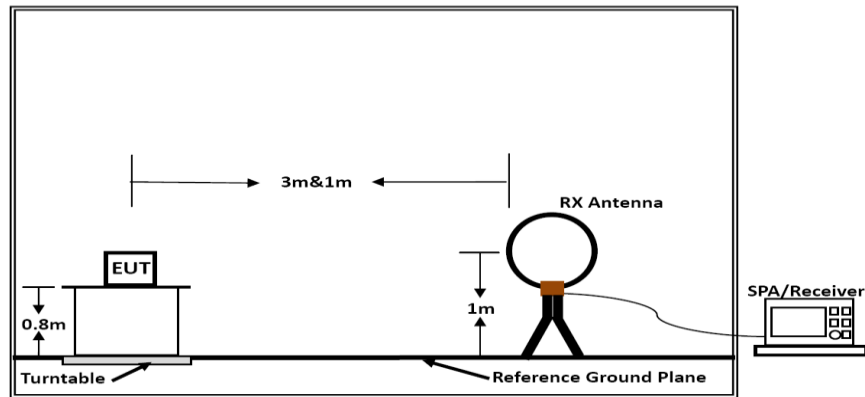


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2940	21.82	19.27	41.09	60.41	-19.32	QP
2	0.3030	12.10	19.27	31.37	50.16	-18.79	AVG
3	0.9600	20.08	19.28	39.36	56.00	-16.64	QP
4	0.9915	7.68	19.26	26.94	46.00	-19.06	AVG
5	2.0895	20.11	19.41	39.52	56.00	-16.48	QP
6	2.0895	12.08	19.41	31.49	46.00	-14.51	AVG
7	7.9755	18.81	19.64	38.45	60.00	-21.55	QP
8	18.5370	11.16	20.29	31.45	50.00	-18.55	AVG
9	22.4745	25.44	20.26	45.70	60.00	-14.30	QP
10	27.2670	13.43	20.15	33.58	50.00	-16.42	AVG
11	27.9870	33.00	20.16	53.16	60.00	-6.84	QP
12	28.2345	19.86	20.15	40.01	50.00	-9.99	AVG

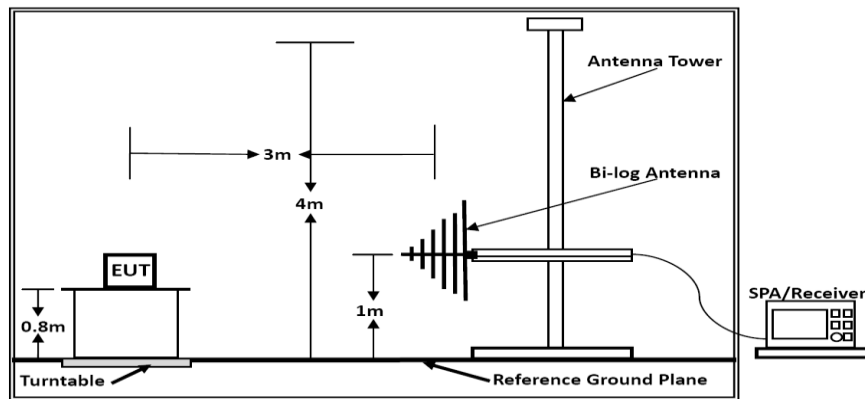
***Note: Pre-scan all modes and recorded the worst case results in this report.

7. RADIATED EMISSION MEASUREMENT

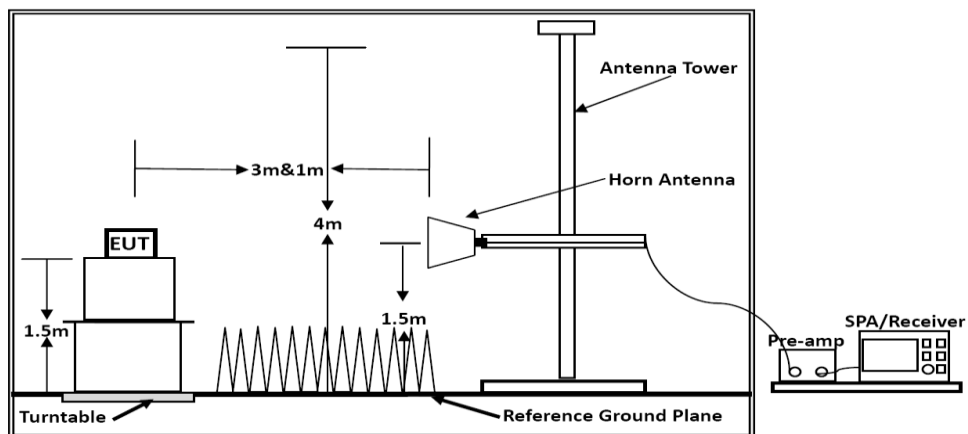
7.1. Block Diagram of Test Setup



Below 30MHz



Below 1GHz



Above 1GHz

7.2. Radiated Emission Limit

Except as provided elsewhere in this Subpart 18.305 (b), the field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following table:

Frequency MHz	Distance Meters	Field Strengths Limit	
		dB μ V/m	Remark
0.009~30MHz	3	103.5	Quasi-peak
30~88	3	40.0	Quasi-peak
88~216	3	43.5	Quasi-peak
216~960	3	46.0	Quasi-peak
960~1000	3	54.0	Quasi-peak

Remark:

- (1) Emission level dB μ V/m for 0.009~30MHz = 20log (15) + 40log (300/3) dB μ V/m;
- (2) Calculated according FCC 18.305.
- (3) The smaller limit shall apply at the cross point between two frequency bands.
- (4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.3. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

- (1) Setup the EUT as shown in Section 4.1.
- (2) Let the EUT work in worst test mode (Mode 1) and measure it.

7.5. Measuring Setting

The following table is the setting of spectrum analyzer and receiver.

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/Average
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/Average
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

7.6. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 0.8 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

7.7. Test Results

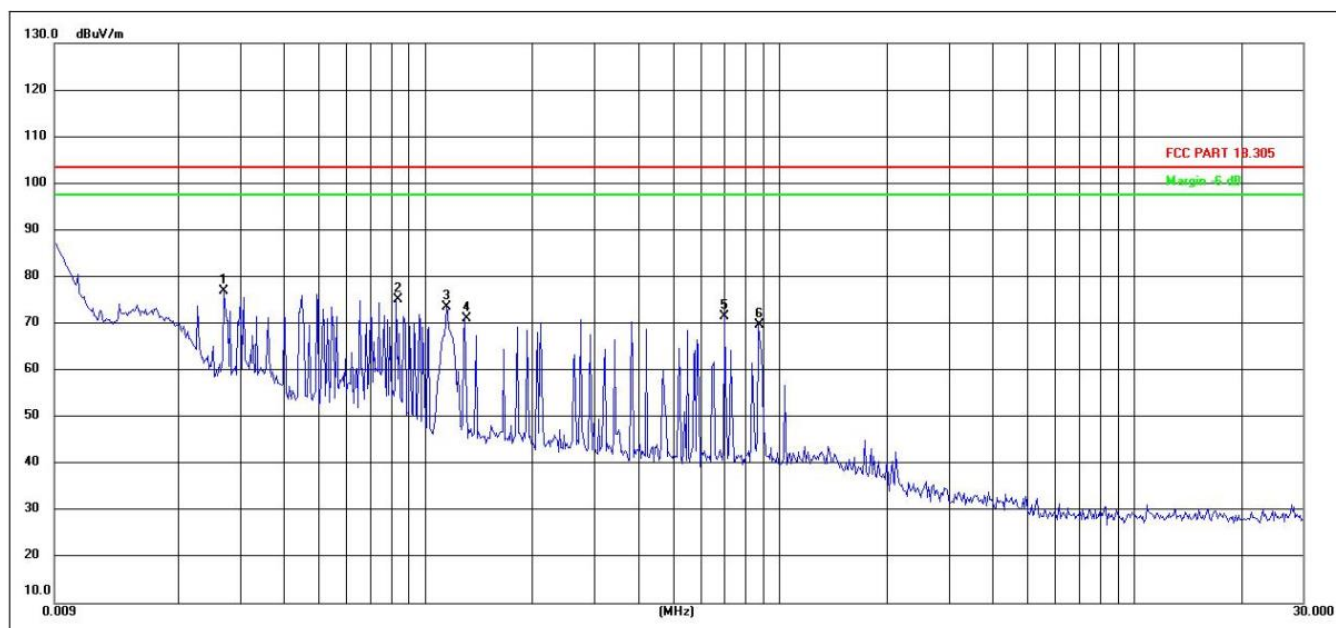
PASS.

Only report the worst test data (Mode 1) in test report;

The test data please refer to following page:

Temperature	23.5°C	Humidity	53.9%
Test Engineer	Qu Xin	Configurations	WPT

0.009 MHz – 30 MHz



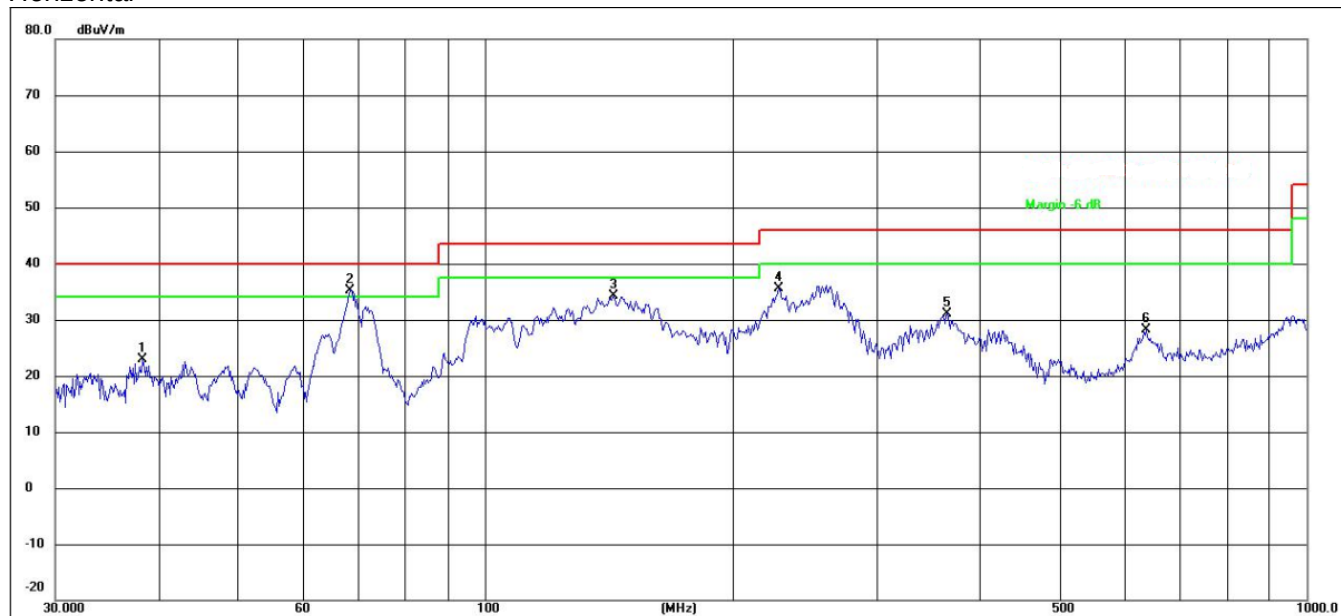
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	0.0271	55.90	20.92	76.82	103.50	-26.68	QP
2	0.0831	54.33	20.82	75.15	103.50	-28.35	QP
3	0.1149	52.78	20.74	73.52	103.50	-29.98	QP
4	0.1298	50.32	20.70	71.02	103.50	-32.48	QP
5	0.7015	50.85	20.53	71.38	103.50	-32.12	QP
6	0.8733	49.01	20.54	69.55	103.50	-33.95	QP

Remark: Measured at antenna position 0 degree and 90 degree, recorded worst case at 90 degree.

30MHz~1000MHz

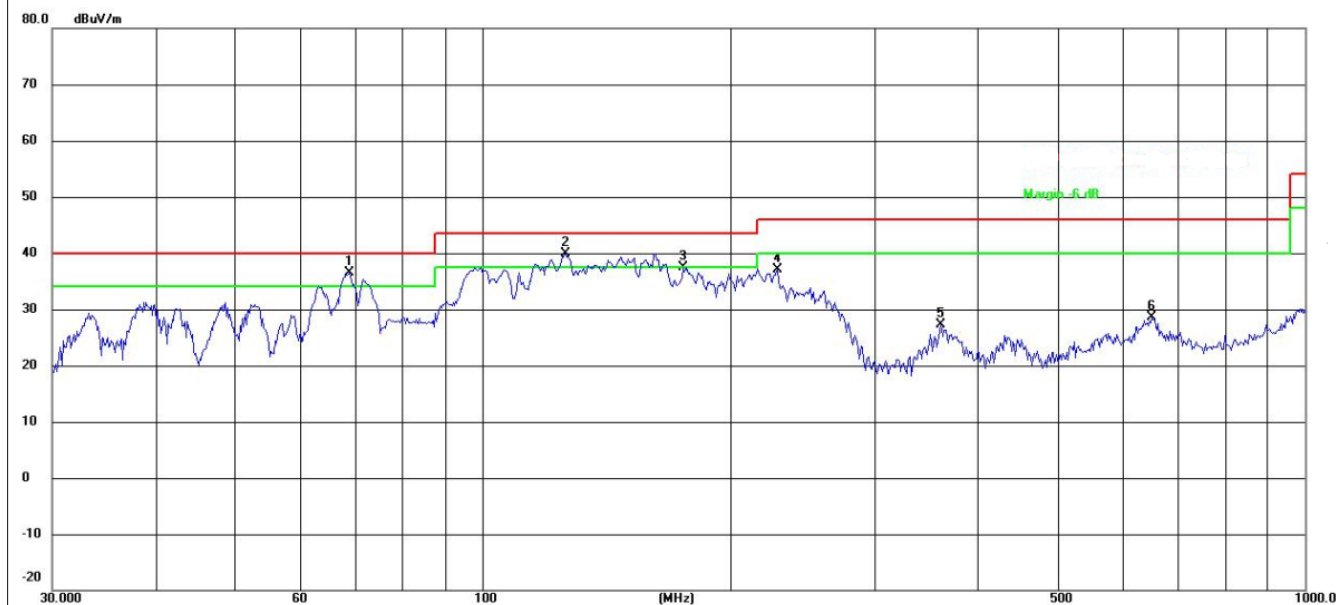
Temperature	23.5℃	Humidity	53.9%
Test Engineer	Qu Xin	Configurations	Transmit

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	38.3462	40.08	-17.17	22.91	40.00	-17.09	QP
2 *	68.6310	54.59	-19.36	35.23	40.00	-4.77	QP
3	143.3259	55.29	-21.07	34.22	43.50	-9.28	QP
4	227.6905	52.16	-16.56	35.60	46.00	-10.40	QP
5	365.5389	44.14	-13.08	31.06	46.00	-14.94	QP
6	638.3686	35.38	-7.24	28.14	46.00	-17.86	QP

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 !	68.8721	55.86	-19.43	36.43	40.00	-3.57	QP
2 *	126.3285	60.17	-20.18	39.99	43.50	-3.51	QP
3 !	175.6516	57.08	-19.55	37.53	43.50	-5.97	QP
4	228.4901	53.53	-16.54	36.99	46.00	-9.01	QP
5	360.4476	40.38	-13.21	27.17	46.00	-18.83	QP
6	651.9415	35.61	-7.07	28.54	46.00	-17.46	QP

Note:

- 1). Pre-scan all modes and recorded the worst case results in this report.
- 2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3). Corrected Reading: Antenna Factor + Cable Loss + Read Level = Level.

8. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files for Test Setup Photos of the EUT.

9. EXTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT

10. INTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----