

## FCC PART 15C


## TEST REPORT

For

### Fonerics Electronics Co.,Ltd

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**FCC ID: 2AMIL-PWC**

<b>Report Type:</b> Original Report	<b>Product Name:</b> PowerFlow Wireless Charger
<b>Report Number:</b>	RSC180704001
<b>Report Date:</b>	2018-07-20
<b>Reviewed By:</b>	Sula Huang Engineering Director 
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**Note:** This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Chengdu). This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA\* or any agency of the Federal Government. \* This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk “\*”.

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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

The **Fonerics Electronics Co.,Ltd**, model number: **PWC (FCC ID: 2AMIL-PWC)** or the "EUT" as referred to in this report was the **PowerFlow Wireless Charger**.

### Mechanical Description of EUT

The EUT was measured approximately 100mm (D) x 12mm (H) or 3.94 (D) x 0.47 (H) inch.

Rated input voltage: DC 9V or DC 5V from adapter.

*\*All measurement and test data in this report was gathered from final production sample, serial number: 180704001/01 (assigned by the BACL, Chengdu). It may have deviation from any other sample. The EUT supplied by the applicant was received on 2018-06-29, and EUT conformed to test requirement.*

### Objective

This Type approval report is prepared on behalf of **Fonerics Electronics Co.,Ltd** in accordance with Part 2, Subpart J, and Part 15, Subparts A and C of the Federal Communications Commission's rules.

The objective is to determine the compliance of the EUT with FCC rules, sec 15.203, 15.205, 15.207 and 15.209.

### Related Submittal(s)/Grant(s)

No

### Measurement Uncertainty

Item		Uncertainty	
AC power line conducted emission		2.93dB	
Radiated Emission(Field Strength)	9kHz-30MHz	6.10dB	
	30MHz-200MHz	H	4.63dB
		V	4.88dB
	200MHz-1GHz	H	5.02dB
		V	6.06dB

## **Test Methodology**

All measurements contained in this report were conducted with ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Chengdu). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

## **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Chengdu) to collect test data is located No.5040, Huilongwan Plaza, No. 1, Shawan Road, Jinniu District, Chengdu, Sichuan, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 910975, the FCC Designation No. : CN1186.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062C-1.

## **SYSTEM TEST CONFIGURATION**

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### **Justification**

The system was configured for testing in a typical fashion (as normally used by a typical user).

### **EUT Exercise Software**

N/A

### **Support Equipment List and Details**

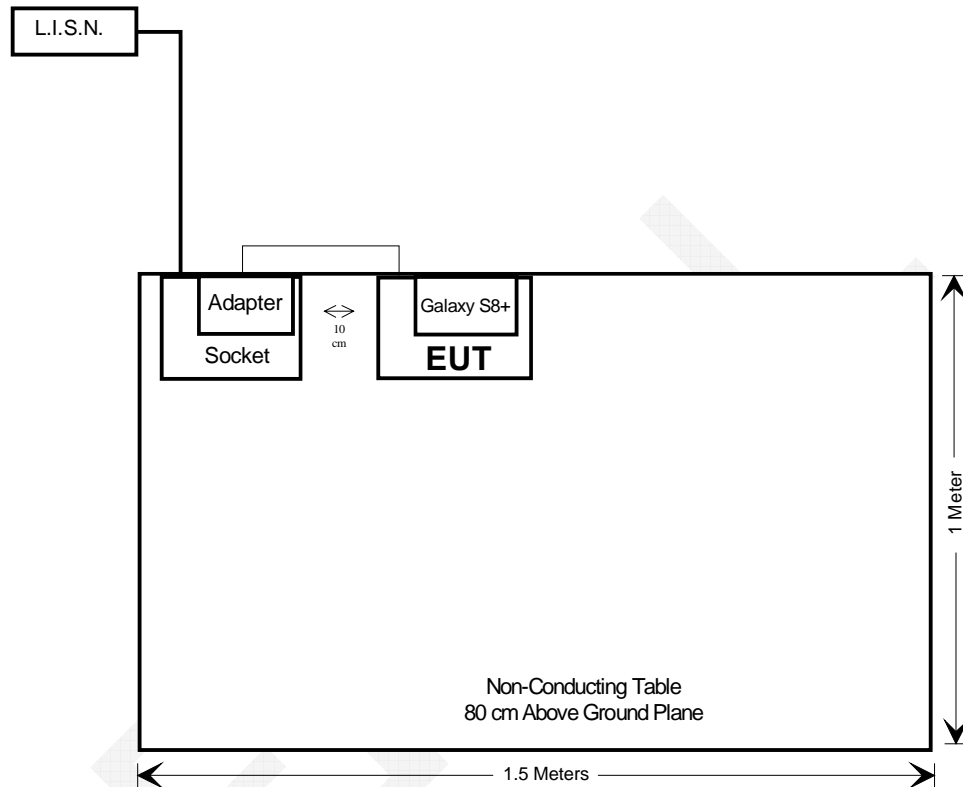
<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>
SAMSUNG	Galaxy S8+	SM-G9550	R28J6085VTF
Xiaomi	Adapter	MDY-08-EH	None

### **External I/O Cable**

<b>Cable Description</b>	<b>Length (m)</b>	<b>From</b>	<b>To</b>
Unshielded USB data cable	1.0	Adapter	EUT

## Block Diagram of Test Setup

AC power line conducted emission Test



## **SUMMARY OF TEST RESULTS**

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<b>FCC Rules</b>	<b>Description of Test</b>	<b>Result</b>
§15.203	Antenna Requirement	Compliant
§1.1307, §1.1310	RF Exposure	Compliant
§15.207	Conducted Emissions	Compliant
§15.209, §15.205	Radiated Emissions	Compliant
§15.215(c)	Emission bandwidth	Compliant

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## TEST EQUIPMENTS LIST

Manufacturer	Description	Model Number	Serial Number	Calibration Date	Calibration Due Date
<b>Conducted Emissions Test</b>					
Rohde & Schwarz	EMI Test Receiver	ESCS 30	836858/0016	2018-04-18	2019-04-17
Rohde & Schwarz	L.I.S.N.	ENV216	100018	2018-05-09	2019-05-07
Rohde & Schwarz	RF Limiter	ESH3Z2	DE14781	2017-11-10	2018-11-09
N/A	Conducted Cable	NO.5	N/A	2017-11-10	2018-11-09
Rohde & Schwarz	EMC32	N/A	V 8.52.0	N/A	N/A
<b>Radiated Emissions Test</b>					
EMCT	Semi-Anechoic Chamber	966	N/A	2017-05-18	2020-05-17
SONOMA INSTRUMENT	Amplifier	310 N	186684	2017-08-24	2018-08-23
ETS LINDGREN	Loop Antenna	6512	0004050	2017-11-09	2018-11-08
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2018-05-20	2019-05-19
N/A	RF Cable (below 1GHz)	NO.1	N/A	2017-11-10	2018-11-09
N/A	RF Cable (below 1GHz)	NO.4	N/A	2017-11-10	2018-11-09
Rohde & Schwarz	EMC32	N/A	V 8.52.0	N/A	N/A
<b>RF Exposure</b>					
NARDA	Magnetic field meter	ELT-400	423314	2018-04-24	2019-04-23
NARDA	E-field Probe	EF-0391	D-0607	2018-04-24	2019-04-23
NARDA	Magnetic Probe	HF-3061	D-0228	2018-04-24	2019-04-23

\* **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).



## **FCC§15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

### **Antenna Connected Construction**

The EUT has one integrated loop inductive antenna arrangement, which was permanently attached and fulfill the requirement of this section. Please refer to the EUT photos.

**Result:** Compliance.

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## **FCC §1.1307 & 1.1310 – RF EXPOSURE**

### **Applicable Standard**

FCC §1.1307 & 1.1310

According to the item 5. b) of KDB 680106 D01 RF Exposure Wireless Charging Apps v03:

Inductive wireless power transfer applications with supporting field strength results and meeting all of the following requirements are not required to submit a KDB inquiry for devices approved using SDoC or a PAG for equipment approved using certification to address RF exposure compliance.

- (1) Power transfer frequency is less than 1 MHz.
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
- (4) Client device is placed directly in contact with the transmitter.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- (6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

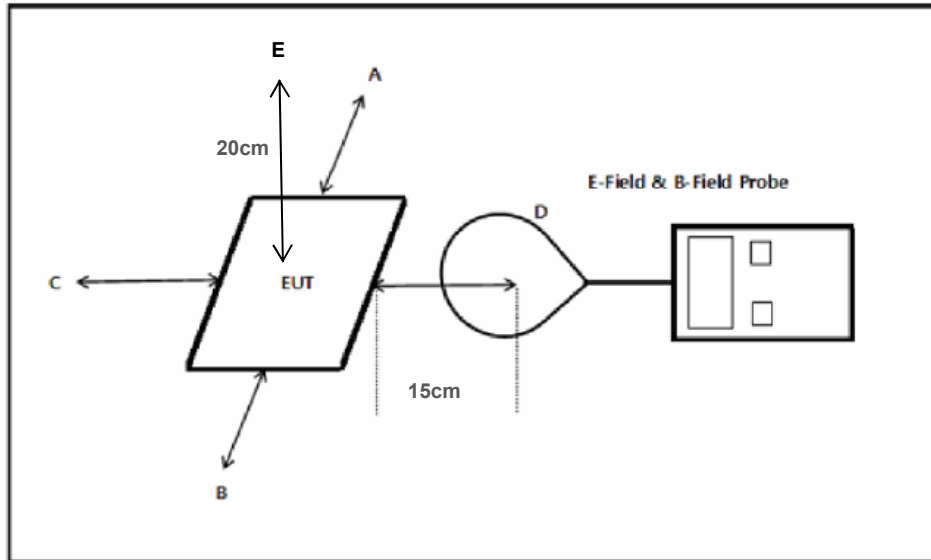
#### Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposure</b>				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f <sup>2</sup>	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f <sup>2</sup>	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz

\*= Plane-wave equivalent power density

## EUT Setup



## Result

- 1) Power transfer frequency is less than 1 MHz.  
The device operates in the frequency 110 kHz-148 kHz.
- 2) Output power from each primary coil is less than or equal to 15 watts.  
The maximum output power of the primary coil is  $10W < 15W$ .
- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.  
  
The transfer system including a charging system with only single primary coils is to detect and allow only between individual of coils.
- 4) Client device is placed directly in contact with the transmitter.  
  
Client device is placed directly in contact with the transmitter.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).  
The device is not for portable use.
- 6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.  
The measured H-field strengths is less than 50% of the MPE limit.

## Test Data

### Environmental Conditions

<b>Temperature:</b>	27 °C
<b>Relative Humidity:</b>	60 %
<b>ATM Pressure:</b>	94.9 kPa

*The testing was performed by Lorin Bian on 2018-07-16.*

Please refer the results below:

E-field strengths at 15 cm surrounding the device and 20 cm above the top surface

Frequency Range (kHz)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	Limit Test (V/m)
110-148	2.11	3.06	2.56	2.07	6.15	614

H-field strengths at 15 cm surrounding the device and 20 cm above the top surface

Frequency Range (kHz)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	Limit Test (A/m)
110-148	0.314	0.432	0.347	0.296	0.683	1.63

### Note:

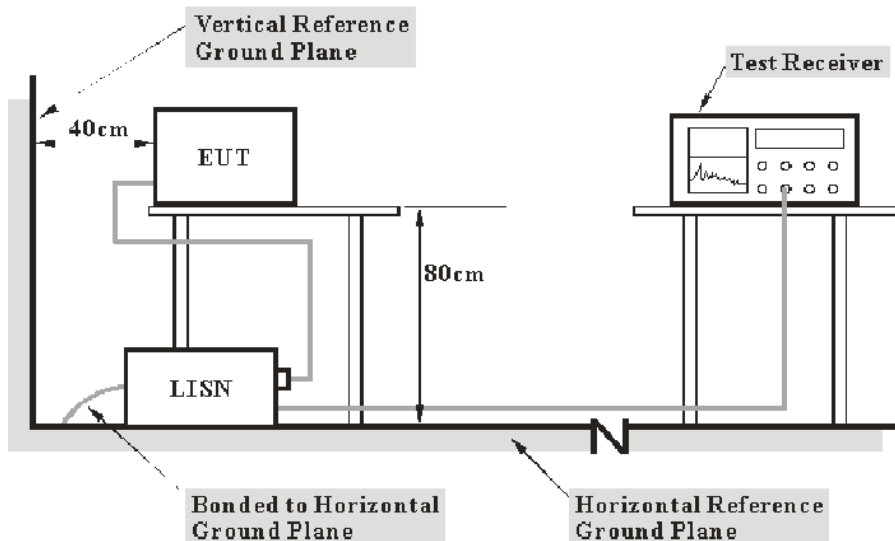
According with KDB 680106 D01 RF Exposure Wireless Charging Apps v03, Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614V/m and 1.63 A/m.

## FCC §15.207 – AC LINE CONDUCTED EMISSION

### Applicable Standard

FCC §15.207

### EUT Setup



- Note: 1. Support units were connected to second LISN.  
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

## Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

According FCC publication number 174176, for a device with a permanent antenna operating at or below 30 MHz, the measurements done with a suitable dummy load, in lieu of the permanent antenna under the following conditions: (1) perform the AC line conducted tests with the permanent antenna to determine compliance with the Section 15.207 limits outside the transmitter's fundamental emission band; (2) retest with a dummy load in lieu of the permanent antenna to determine compliance with the Section 15.207 limits within the transmitter's fundamental emission band.

## Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

Herein,

$V_C$ : corrected voltage amplitude

$V_R$ : reading voltage amplitude

$A_C$ : attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit.

The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

## Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

## Test Data

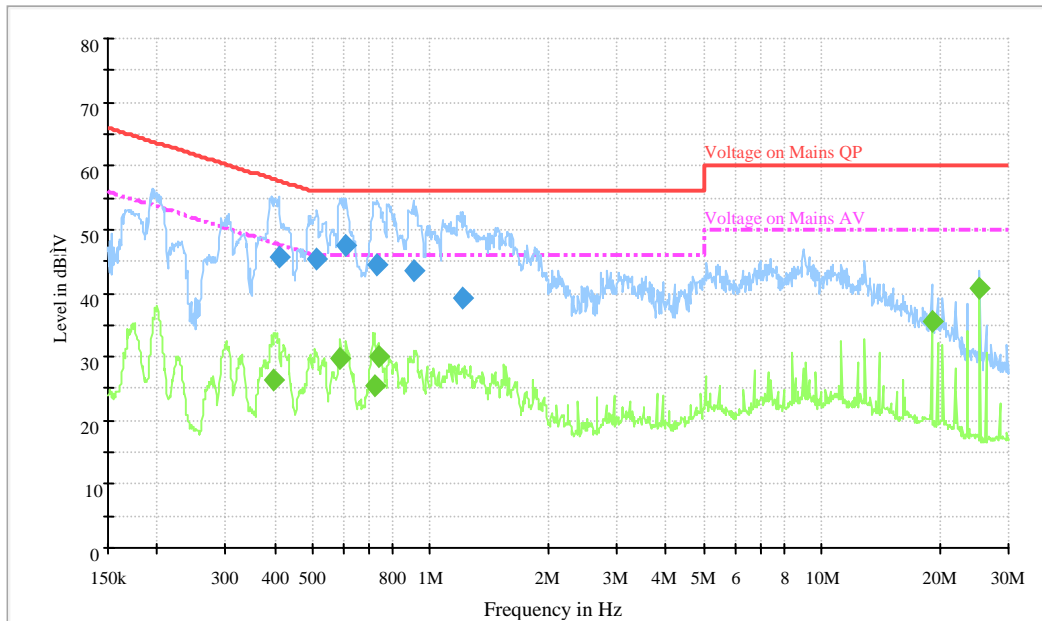
### Environmental Conditions

<b>Temperature:</b>	25 °C
<b>Relative Humidity:</b>	55 %
<b>ATM Pressure:</b>	95.0 kPa

*The testing was performed by Lorin Bian on 2018-07-11.*

Test mode: Charging & communication

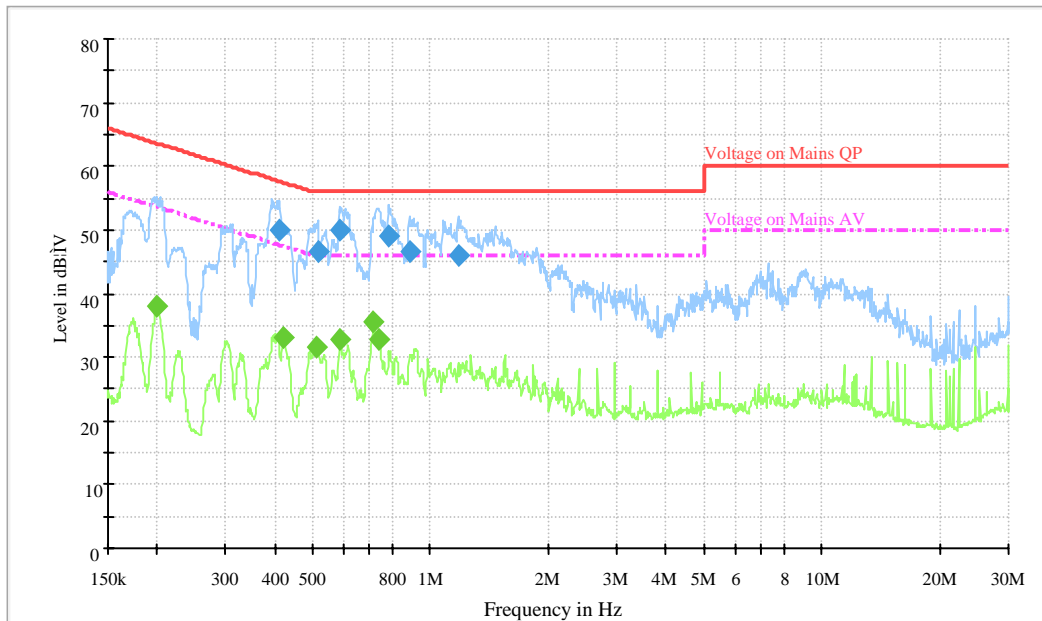
**AC120V/60Hz, Line:**



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Margin (dB)	Limit (dBµV)
0.410192	45.7	9.000	L1	19.7	11.9	57.6
0.512950	45.3	9.000	L1	19.7	10.7	56.0
0.609010	47.5	9.000	L1	19.7	8.5	56.0
0.731772	44.5	9.000	L1	19.7	11.5	56.0
0.904195	43.4	9.000	L1	19.6	12.6	56.0
1.210106	39.3	9.000	L1	19.6	16.7	56.0

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Margin (dB)	Limit (dBµV)
0.398888	26.3	9.000	L1	19.7	21.6	47.9
0.589868	29.7	9.000	L1	19.7	16.3	46.0
0.720179	25.6	9.000	L1	19.7	20.4	46.0
0.737637	30.1	9.000	L1	19.7	15.9	46.0
19.090570	35.7	9.000	L1	20.1	14.3	50.0
25.346180	40.7	9.000	L1	20.2	9.3	50.0

**AC120V/60Hz, Neutral:**



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Margin (dB)	Limit (dBµV)
0.411833	50.0	9.000	N	19.7	7.6	57.6
0.515002	46.5	9.000	N	19.7	9.5	56.0
0.589868	49.9	9.000	N	19.7	6.1	56.0
0.783157	49.1	9.000	N	19.6	6.9	56.0
0.882795	46.6	9.000	N	19.6	9.4	56.0
1.176759	46.0	9.000	N	19.6	10.0	56.0

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Margin (dB)	Limit (dBµV)
0.200749	37.9	9.000	N	19.7	15.7	53.6
0.421816	33.0	9.000	N	19.7	14.4	47.4
0.510906	31.6	9.000	N	19.7	14.4	46.0
0.589868	32.7	9.000	N	19.7	13.3	46.0
0.717310	35.6	9.000	N	19.7	10.4	46.0
0.737637	32.8	9.000	N	19.7	13.2	46.0

Note:

- 1) Corrected Amplitude = Reading + Correction Factor
- 2) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter
- 3) Margin = Limit – Corrected Amplitude

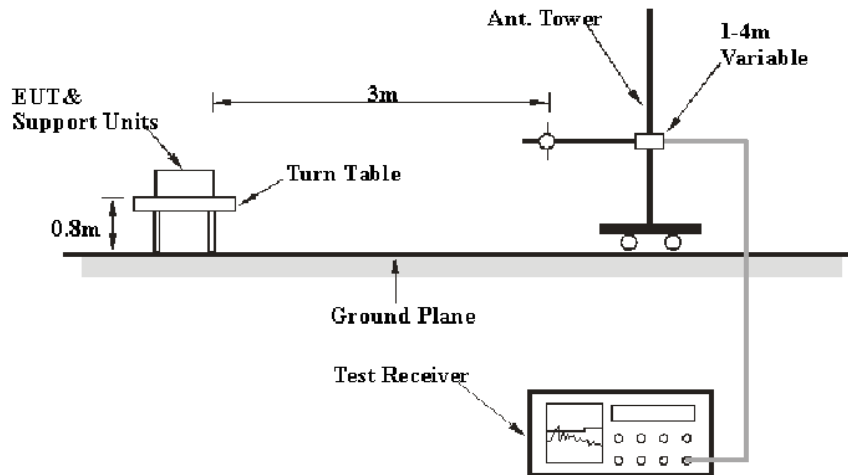


## **FCC §15.205 & §15.209 - FIELD STRENGTH AND RADIATED EMISSIONS**

### **Applicable Standard**

FCC§15.205, §15.209

### **EUT Setup**



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to 120VAC/60Hz power source.

### **EMI Test Receiver Setup**

The system was investigated from 9 kHz to 1 GHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	Measurement
9 kHz – 150 kHz	200 Hz	1 kHz	QP
150 kHz – 30 MHz	9 kHz	30 kHz	QP
30 MHz – 1000 MHz	120 kHz	300 kHz	QP

Note: The frequency bands 9-90 kHz and 110-490 kHz, the testing is based on average detector.

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

## Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude.}$$

## Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209.

## Test Data

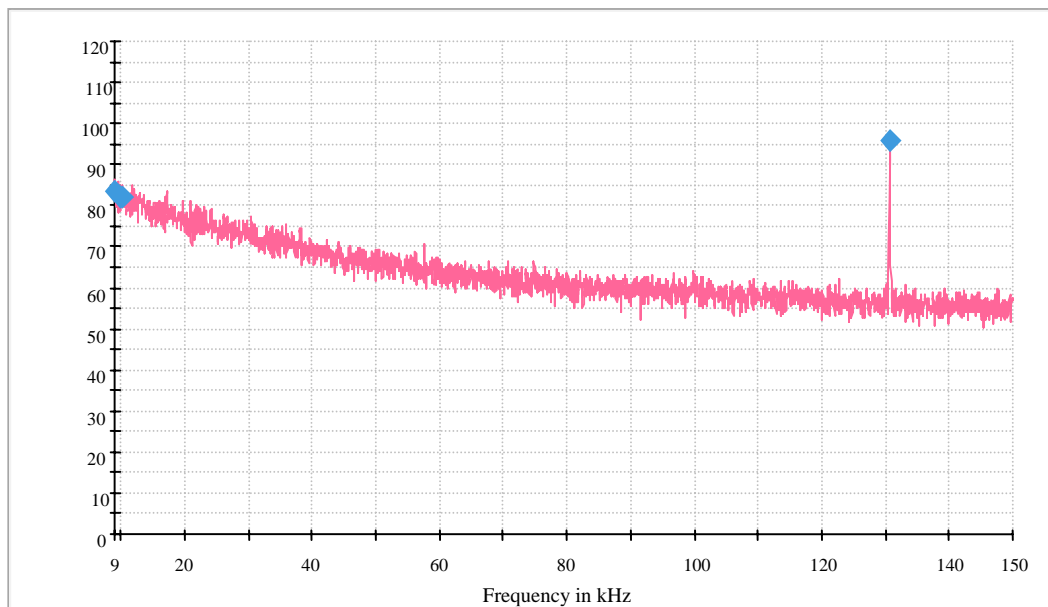
### Environmental Conditions

<b>Temperature:</b>	28 °C
<b>Relative Humidity:</b>	62 %
<b>ATM Pressure:</b>	94.8 kPa

The testing was performed by Lorin Bian on 2018-07-13.

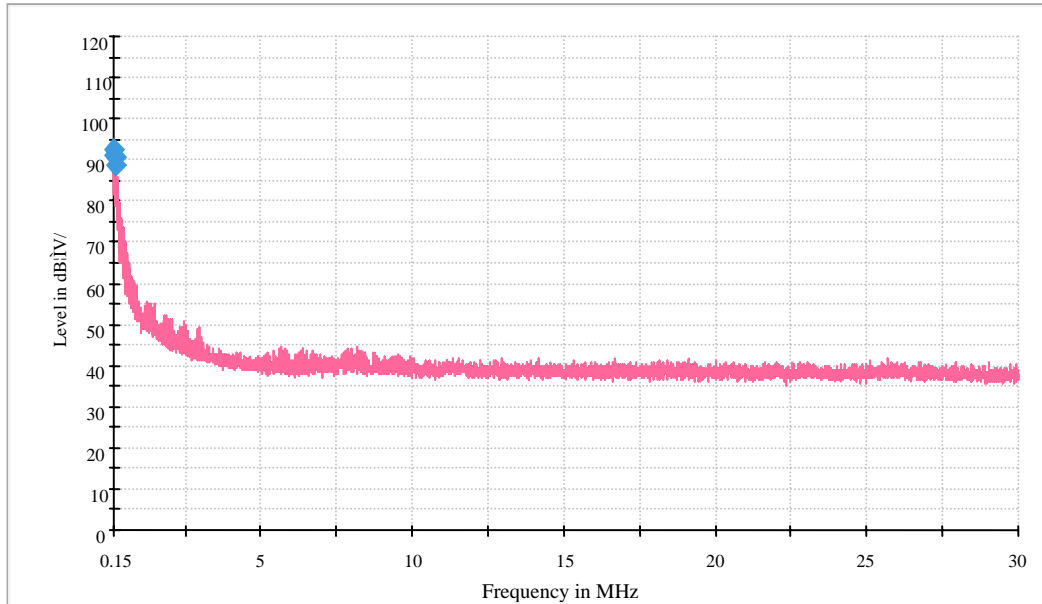
Test mode: Charging & communication

### 1) 9kHz-150 kHz



Frequency (MHz)	Average (dBμV/m)	Bandwidth (Hz)	Height (cm)	Azimuth (deg)	Corr. (dB/m)	Margin (dB)	Limit (dBμV/m)
0.009070	83.5	200	100.0	0	57.0	44.95	128.45
0.009793	81.9	200	100.0	0	56.95	45.89	127.79
0.010093	82.0	200	100.0	0	56.78	45.52	127.52
0.13065*	95.9	200	100.0	0	54.5	9.38	105.28

2) 150kHz-30 MHz

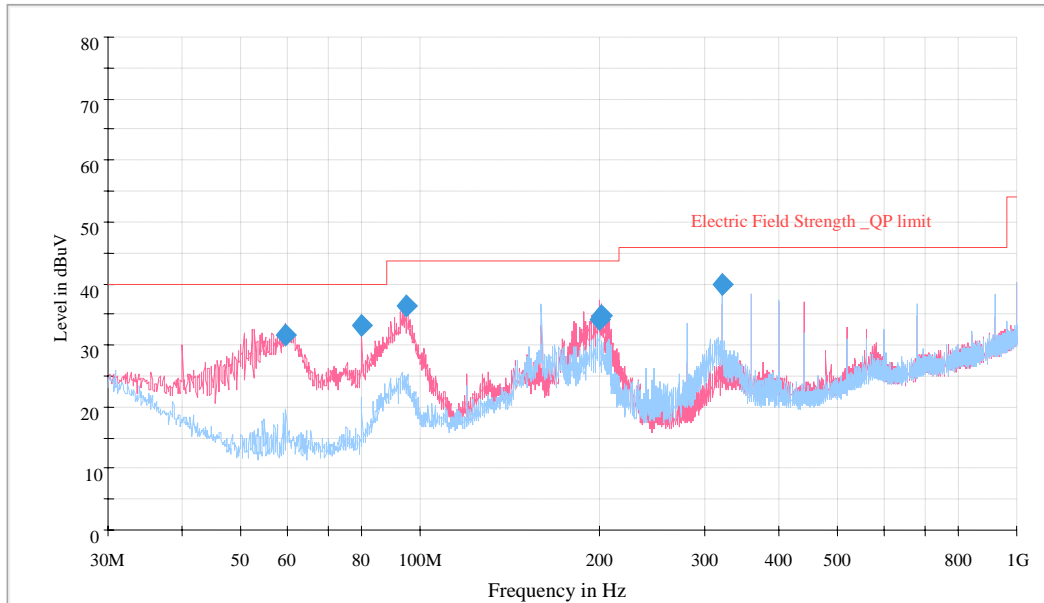


Frequency (MHz)	Average (dBμV/m)	Bandwidth (kHz)	Height (cm)	Azimuth (deg)	Corr. (dB/m)	Margin (dB)	Limit (dBμV/m)
0.161194	92.8	9.0	100.0	0	31.63	10.66	103.46
0.176119	90.1	9.0	100.0	0	30.88	12.59	102.69
0.194775	88.1	9.0	100.0	0	29.93	13.71	101.81
0.198506	87.8	9.0	100.0	0	29.75	13.85	101.65

Note:

1. “\*\*” Means Fundamental frequency.
2. Corrected Amplitude = Corrected Factor + Reading
3. Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor
4. Margin = Limit - Corrected Amplitude
5. Limit calculation: Limit at specified distance +  $40\log(300/3) = \text{Limit} + 80 \text{ dB}$  for up to 0.49 MHz;  
Limit at specified distance +  $40\log(30/3) = \text{Limit} + 40 \text{ dB}$  for above 0.49 MHz up to 30 MHz;
6. According to §15.209 (d), the measurements were tested by using Quasi peak detector except for the frequency bands 9 – 90 kHz, 110-490 kHz and above 1 GHz in these three bands on measurements employing an average detector.

3) 30 MHz-1GHz:



Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB/m)	Margin (dB)	Limit (dBμV/m)
59.488000	31.6	120.0	132.0	V	63.0	-17.8	8.4	40.0
79.955000	33.1	120.0	100.0	V	216.0	-16.8	6.9	40.0
95.184000	36.4	120.0	109.0	V	329.0	-16.6	7.1	43.5
199.944000	34.2	120.0	100.0	V	266.0	-11.8	9.3	43.5
201.884000	34.6	120.0	100.0	V	233.0	-12.3	8.9	43.5
320.030000	40.0	120.0	128.0	H	329.0	-10.3	6.0	46.0

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corrected Amplitude

## **FCC §15.215(c) – EMISSION BANDWIDTH**

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### **Applicable Standard**

Per FCC §15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §15.217 through § 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of band operation.

### **Test Procedure**

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

### **Test Data**

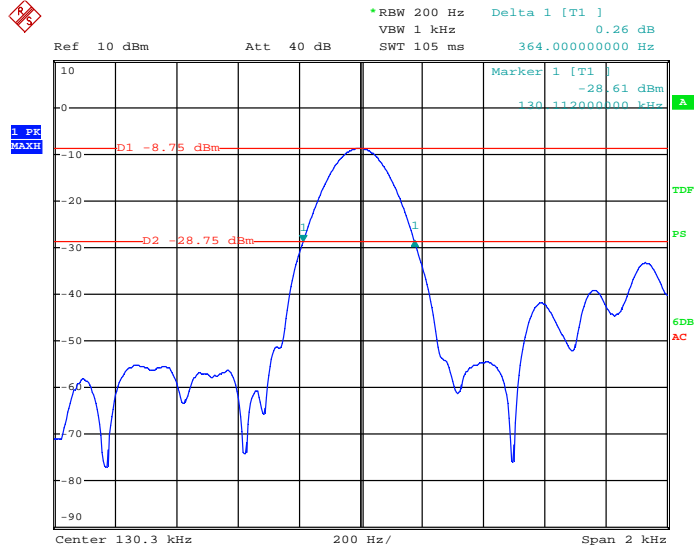
#### **Environmental Conditions**

<b>Temperature:</b>	28 °C
<b>Relative Humidity:</b>	62 %
<b>ATM Pressure:</b>	94.8 kPa

*The testing was performed by Lorin Bian on 2018-07-13.*

Test mode: Charging & communication

### 20 dB Emission Bandwidth



Date: 13.JUL.2018 15:06:07

\*\*\*\*\*END OF REPORT\*\*\*\*\*