



# FCC 47 CFR PART 15 SUBPART C CERTIFICATION TEST REPORT

For

### Station W

MODEL NUMBER: NSW2-WW, NSW2-BK

REPORT NUMBER: 4791496662.1-1-RF-1

ISSUE DATE: September 27, 2024

FCC ID: 2ADLI-NSW2-BK-WW

Prepared for

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Prepared by

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## **Revision History**

Rev.	Issue Date	Revisions	Revised By
V0	September 27, 2024	Initial Issue	



Summary of Test Results				
Description of Test Item Standard Results				
Radiated Emission Test	FCC 15.209	PASS		
20dB Bandwidth	FCC 15.215	PASS		
AC Power Line Conducted Emission	FCC Part 15.207	PASS		

Note 1: This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

Note 2: The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C > when < Simple Acceptance > decision rule is applied



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## 1. ATTESTATION OF TEST RESULTS

**Applicant Information** 

Company Name: KODA ELECTRONICS (HK) CO., LTD.

Address: 2/F Mandarin Commercial House, 38 Morrison Hill Road,

WanChai, HK

**Manufacturer Information** 

Company Name: Rich Glory Electronics Co., Ltd.

Address: NO.10 Xiling Road, Fengcheng Street, Xinfeng County,

Shaoguan City, China.

**EUT Information** 

EUT Name: Station W
Model: NSW2-WW
Serial Model: NSW2-BK
Brand: Nonstop

Sample Received Date: September 26, 2024

Sample Status: Normal Sample ID: 7643803

Date of Tested: September 26, 2024 to September 27, 2024

APPLICABLE STANDARDS				
STANDARD TEST RESULTS				
CFR 47 FCC PART 15 SUBPART C	PASS			

Prepared By:

Checked By:

Lobo . zhary

Wite Chen

Kebo zhang

Engineer Project Associate Senior Project Engineer

Approved By:

Stephen Guo

**Operations Manager** 

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## 2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC CFR 47 Part 2, KDB 414788 D01 Radiated Test Site v01r01, CFR 47 FCC Part 15, ANSI C63.10-2013.

## 3. FACILITIES AND ACCREDITATION

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	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.			
	FCC (FCC Designation No.: CN1187)			
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules			
	ISED (Company No.: 21320)			
Accreditation Certificate	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.			
	VCCI (Registration No.: G-20192, R-20202, C-20153 and T-20155)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793.  Facility Name: Chamber D, the VCCI registration No. is G-20192 and C-20153  Shielding Room B, the VCCI registration No. is C-20153 and T-20155			

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



## 4. CALIBRATION AND UNCERTAINTY

## 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

## 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty			
Conduction Emission	3.62 dB			
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB			
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB			
DTS and 99% Occupied Bandwidth	±0.0196%			
Note: This uncertainty represents an expanded uncertainty expressed at approximately the				

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



## 5. EQUIPMENT UNDER TEST

## 5.1. DESCRIPTION OF EUT

EUT Name	Station W		
Model	NSW2-WW		
Serial Model	NSW2-BK		
Model Difference	Their Circuit, PCB layout and Electrical parts of the products are identical to the basic model except the color.  We select "NSW2-WW" as the representative model for compliance test.		
Product Description	Operation Frequency 111KHz ~ 140KHz		
Rated Output Power	10 W		
Antenna type	Coil		
Ratings	Input: AC 100-240V~, 50/60Hz, 0.8A Output: 9Vdc, 3.5A Battery: 3.7V, 200mA, 0.74Wh		

Note: All the rating has been tested, but only the worst data was recorded in the report.

## 5.2. TEST MODE

Test Mode	Description
Mode 1	Charging with 10 W (1 % battery status of client device)
Mode 2	Charging with 10 W (50 % battery status of client device)
Mode 3	Charging with 10 W (99 % battery status of client device)
Mode 4	Wireless charger working (no load)

Note: All the modes had been tested, but only the worst data(Mode 3) was recorded in the report.

## 5.3. ACCESSORY

## **SUPPORT EQUIPMENT**

AC ADAPTER				
Model No.: GJ30WD-0900350U				
Input: AC 100-240V~, 50/60Hz, 0.8A				
Output: 9Vdc, 3.5A				
DC Cable:	1.5M			

## **I/O CABLES**

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	USB	Unshielded	1.0	/
2	TYPE-C	TYPE-C	Unshielded	1.0	/

## **ACCESSORY**

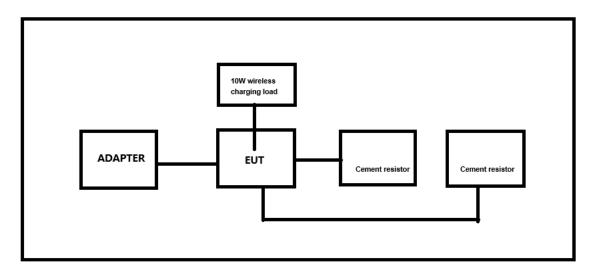
Item	Accessory	Brand Name	Model Name	Description
1	/	/	1	/

## **TEST SETUP**

The EUT support wireless charging.



## **SETUP DIAGRAM FOR TEST**





## 5.4. MEASURING INSTRUMENT LIST

Radiated Emissions						
Equipment	Manufacturer Model No.		Serial No.	Last Cal.	Due Date	
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.12, 2023	Oct.11, 2024	
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Jun. 27, 2024	Jun. 28, 2027	
Preamplifier HP		8447D	2944A09099	Oct.12, 2023	Oct.11, 2024	
Loop antenna	Schwarzbeck	1519B	80000	Dec.14, 2021	Dec.13, 2024	
Preamplifier	Preamplifier TDK PA-02-001-		TRS-302- 00050	Oct.12, 2023	Oct.11, 2024	
Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS	4	Oct.12, 2023	Oct.11, 2024	
Software						
[	Description		Manufacturer	Name	Version	
Test Software	for Radiated E	missions	Farad	EZ-EMC	Ver. UL-3A1	

Other Instruments								
Equipment Manufacturer Model No. Serial No. Last Cal. Next Cal.								
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Oct.12, 2023	Oct.11, 2024			



## 6. 20dB BANDWIDTH TEST

#### **LIMITS**

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.215, 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.

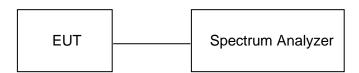
## **TEST PROCEDURE**

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the bandwidth
VBW	approximately 3×RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 99%/20 dB relative to the maximum level measured in the fundamental emission.

## **TEST SETUP**



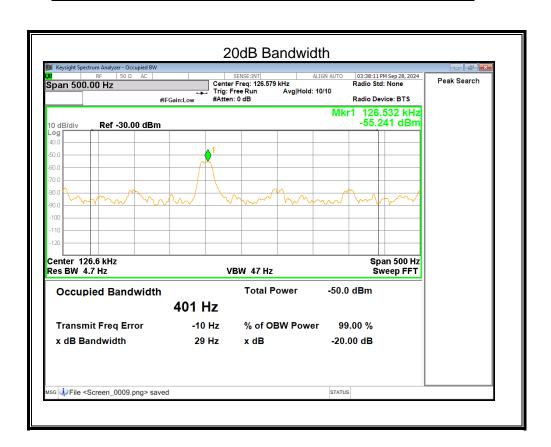
#### **TEST ENVIRONMENT**

Temperature	24.1 °C	Relative Humidity	68 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

#### **RESULTS**



Frequency	20dB Bandwidth
(kHz)	(Hz)
126.532	29



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## 7. RADIATED EMISSION TEST

## **LIMITS**

Please refer to CFR 47 FCC §15.205 and §15.209.

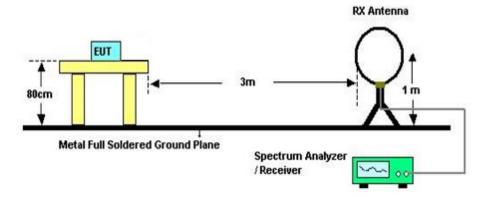
Emissions radiated outside of the specified frequency bands above 30 MHz						
Frequency Range	Field Strength Limit	Field Strength Limit				
(MHz)	(uV/m) at 3 m	(dBuV/m) at 3 m				
		Quasi-Peak				
30 - 88	100	40				
88 - 216	150	43.5				
216 - 960	200	46				
Above 960	54					
Above 1000	500	Peak	Average			
Above 1000	500	74	54			

Emissions radiated outside of the specified frequency bands below 30 MHz							
Frequency (MHz) Field strength (microvolts/meter) Measurement distance (meters)							
0.009-0.490	2400/F(kHz)	300					
0.490-1.705	0.490-1.705 24000/F(kHz) 30						
1.705-30.0	30	30					



#### **TEST SETUP AND PROCEDURE**

Below 30 MHz



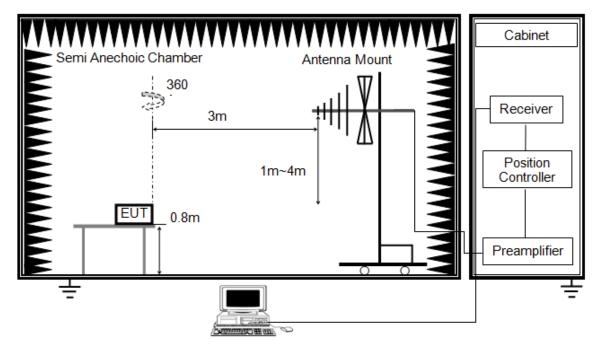
The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz) / 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz) / 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1.3 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.



## Below 1 GHz and above 30 MHz



The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
- 2. 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. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.



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## **TEST ENVIRONMENT**

Temperature	22.5 °C	Relative Humidity	59 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz
Test Mode:	Mode 3		

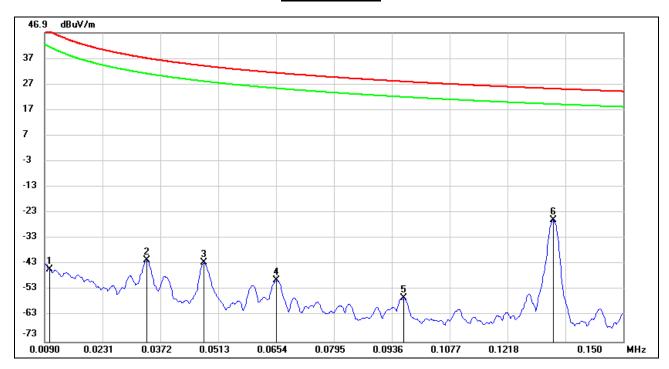
## **RESULTS**



## 7.1. SPURIOUS EMISSIONS BELOW 30 MHz

## FCC PART 15C BELOW 30MHz SPURIOUS EMISSIONS FOR PLAN A (LOOP ANTENNA FACE ON TO THE EUT)

9 kHz ~ 150 kHz



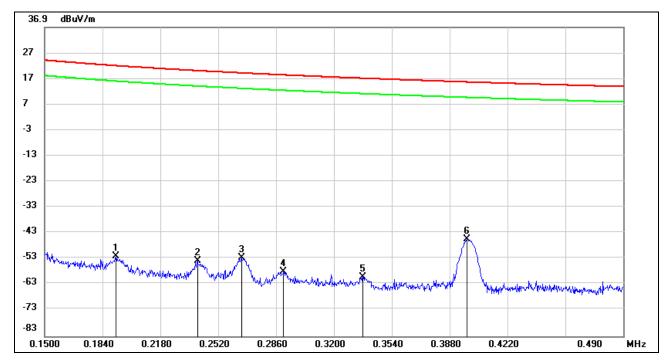
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0103	63.15	-108.21	-45.06	47.34	-92.40	peak
2	0.0338	67.32	-108.84	-41.52	37.02	-78.54	peak
3	0.0478	66.54	-108.98	-42.44	34.01	-76.45	peak
4	0.0655	59.70	-109.00	-49.30	31.28	-80.58	peak
5	0.0966	52.72	-109.00	-56.28	27.90	-84.18	peak
6	0.1329	83.11	-109.00	-25.89	/	/	Fundamental

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result are deemed to comply with AV limit.
- 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
- 4. The test was performed at 3 m test site, but we added the corresponding factor to extrapolated the result to the specified distance according to FCC 15.31(f)(2).



#### 150 kHz ~ 490 kHz



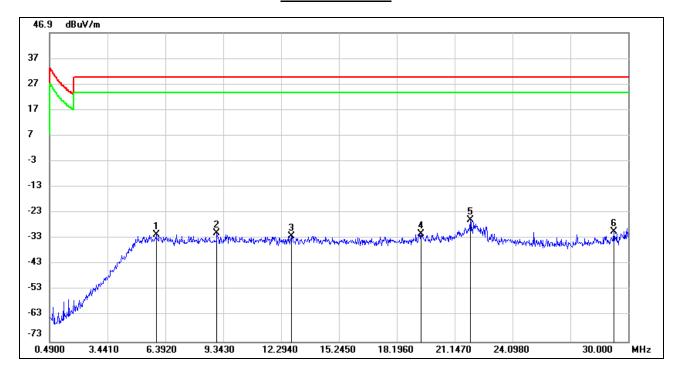
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1918	56.88	-109.00	-52.12	21.95	-74.07	peak
2	0.2398	55.02	-109.00	-53.98	20.00	-73.98	peak
3	0.2655	56.31	-109.00	-52.69	19.12	-71.81	peak
4	0.2904	51.05	-109.00	-57.95	18.34	-76.29	peak
5	0.3370	48.77	-108.99	-60.22	17.05	-77.27	peak
6	0.3982	63.50	-108.98	-45.48	15.60	-61.08	peak

Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
- 4. The test was performed at 3 m test site, but we added the corresponding factor to extrapolated the result to the specified distance according to FCC 15.31(f)(2).



## 490 kHz ~ 30 MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5.9198	36.95	-68.45	-31.50	29.54	-61.04	peak
2	9.0184	37.33	-68.31	-30.98	29.54	-60.52	peak
3	12.8252	36.17	-68.17	-32.00	29.54	-61.54	peak
4	19.4354	36.74	-67.93	-31.19	29.54	-60.73	peak
5	21.9438	41.94	-67.90	-25.96	29.54	-55.50	peak
6	29.2623	37.33	-67.81	-30.48	29.54	-60.02	peak

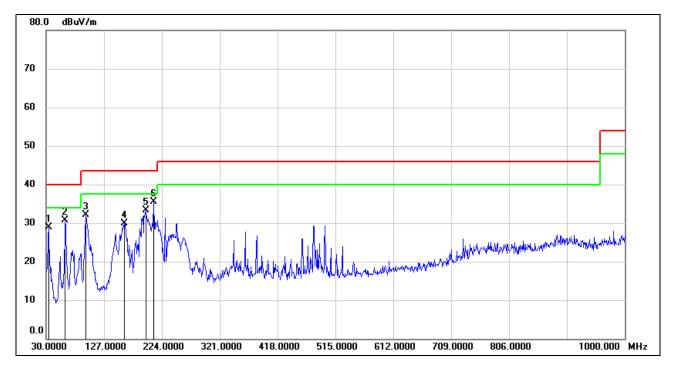
Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result are deemed to comply with AV limit.
- 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
- 4. The test was performed at 3 m test site, but we added the corresponding factor to extrapolated the result to the specified distance according to FCC 15.31(f)(2).



## 7.2. SPURIOUS EMISSIONS 30 MHz ~ 1 GHz

## FCC PART15C SPURIOUS EMISSIONS FOR PLAN A (HORIZONTAL)



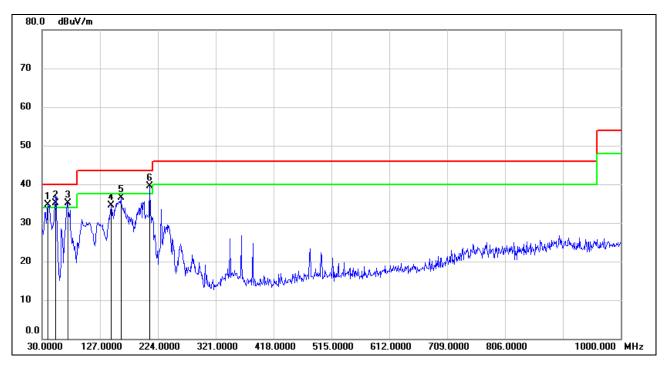
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33.8800	43.36	-14.52	28.84	40.00	-11.16	QP
2	62.0100	46.41	-15.70	30.71	40.00	-9.29	QP
3	96.9300	48.55	-16.47	32.08	43.50	-11.42	QP
4	160.9500	42.21	-12.21	30.00	43.50	-13.50	QP
5	196.8400	44.77	-11.55	33.22	43.50	-10.28	QP
6	210.4200	47.59	-12.13	35.46	43.50	-8.04	QP

Note: 1. Result Level = Read Level + Correct Factor.

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
- 4. All the noise are created from the digital circuit. It is not created by wireless charging circuit.

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## FCC PART15C SPURIOUS EMISSIONS FOR PLAN B (VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	39.7000	49.53	-14.74	34.79	40.00	-5.21	QP
2	52.3100	50.47	-15.37	35.10	40.00	-4.90	QP
3	72.6800	51.32	-16.17	35.15	40.00	-4.85	QP
4	145.4299	47.74	-13.33	34.41	43.50	-9.09	QP
5	161.9200	48.60	-12.14	36.46	43.50	-7.04	QP
6	210.4200	51.65	-12.13	39.52	43.50	-3.98	QP

Note: 1. Result Level = Read Level + Correct Factor.

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto
- 4. All the noise are created from the digital circuit. It is not created by wireless charging circuit.



## 8. AC POWER LINE CONDUCTED EMISSION

#### **LIMITS**

Please refer to CFR 47 FCC §15.207 (a).

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

### **TEST PROCEDURE**

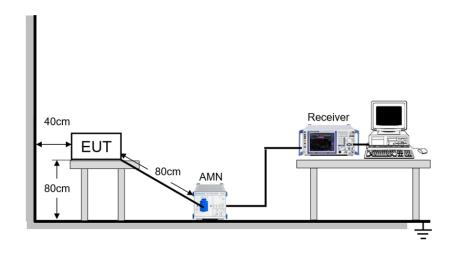
## **TEST SETUP AND PROCEDURE**

Refer to ANSI C63.10-2013 clause 6.2.

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

#### **TEST SETUP**





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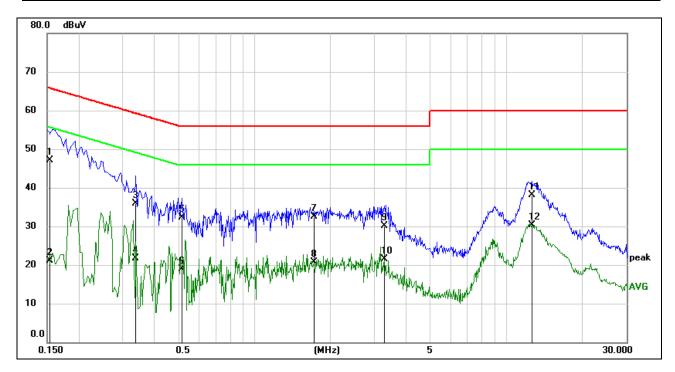
## **TEST ENVIRONMENT**

Temperature	25.3 °C	Relative Humidity	53.7%
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

## **TEST RESULTS**



Test Mode:	Mode 3	Test Voltage	AC 120 V/60 Hz
Line	L		



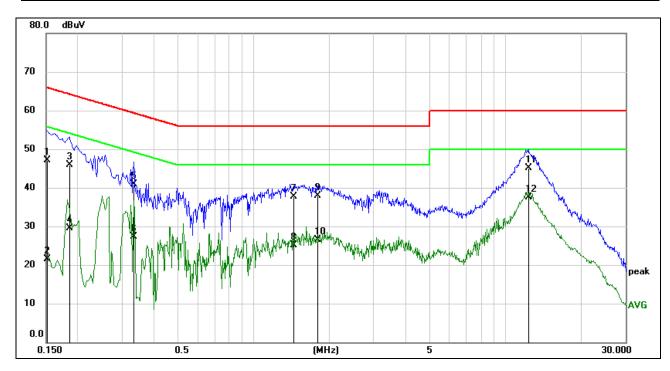
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1535	36.83	10.33	47.16	65.81	-18.65	QP
2	0.1535	10.83	10.33	21.16	55.81	-34.65	AVG
3	0.3355	25.60	10.24	35.84	59.31	-23.47	QP
4	0.3355	11.41	10.24	21.65	49.31	-27.66	AVG
5	0.5159	22.16	10.24	32.40	56.00	-23.60	QP
6	0.5159	8.74	10.24	18.98	46.00	-27.02	AVG
7	1.7371	22.52	9.97	32.49	56.00	-23.51	QP
8	1.7371	10.70	9.97	20.67	46.00	-25.33	AVG
9	3.2917	20.07	10.12	30.19	56.00	-25.81	QP
10	3.2917	11.35	10.12	21.47	46.00	-24.53	AVG
11	12.6355	27.63	10.45	38.08	60.00	-21.92	QP
12	12.6355	19.95	10.45	30.40	50.00	-19.60	AVG

#### Note:

- 1. Result = Reading + Correct Factor.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.



Test Mode:	Mode 3	Test Voltage	AC 120 V/60 Hz
Line	N		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1521	36.76	10.34	47.10	65.88	-18.78	QP
2	0.1521	11.13	10.34	21.47	55.88	-34.41	AVG
3	0.1845	35.65	10.27	45.92	64.28	-18.36	QP
4	0.1845	19.17	10.27	29.44	54.28	-24.84	AVG
5	0.3339	30.65	10.24	40.89	59.35	-18.46	QP
6	0.3339	17.01	10.24	27.25	49.35	-22.10	AVG
7	1.4379	27.63	10.00	37.63	56.00	-18.37	QP
8	1.4379	15.19	10.00	25.19	46.00	-20.81	AVG
9	1.8010	27.85	9.96	37.81	56.00	-18.19	QP
10	1.8010	16.45	9.96	26.41	46.00	-19.59	AVG
11	12.3831	34.71	10.43	45.14	60.00	-14.86	QP
12	12.3831	27.00	10.43	37.43	50.00	-12.57	AVG

## Note:

- 1. Result = Reading + Correct Factor.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

## **END OF REPORT**