



FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Wireless Charging Pad

**MODEL NUMBER: AWC1043, AWC1043AW, AWC1043SG, AWC1043XX
(X would be any Arabian number or English letter or blank)**

FCC ID: 2ATGY-AWC1043

REPORT NUMBER: 4789000048.4-1

ISSUE DATE: June 14, 2019

Prepared for

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Prepared by

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V0	06/14/2019	Initial Issue	



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



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Ubio Labs, Inc.
Address: 2821 Northup Way, Suite 250, Bellevue, WA 98004, USA

Manufacturer Information

Company Name: Shenzhen PYS Industrial Co., LTD
Address: Floor 3,8,12, Bldg 9#, Lianhua Industrial Zone, Loangyuan Road, Longhua Street, Longhua District, Shenzhen

EUT Description

EUT Name: Wireless Charging Pad
Model: AWC1043
Serial Model: Please refer to page 8 clause 5.1. Description of EUT
Brand Name: /
Sample Status: Normal
Sample ID: 2289514
Sample Received Date: May 15, 2019
Date of Tested: June 3, 2019 ~ June 14, 2019

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

Tested By:

Denny Huang
Project Engineer

Checked By:

Shawn Wen
Laboratory Leader

Approved By:

Stephen Guo
Laboratory Manager



2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC CFR 47 Part 2, FCC CFR 47 Part 15C KDB414788 D01 Radiated Test Site v01 and ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

Test Location	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Address	Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China
Accreditation Certificate	<p>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.</p> <p>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</p> <p>IC(Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with Industry Canada. The Company Number is 21320.</p> <p>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) 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-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011</p>

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
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.
3. For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz 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	Measurement Frequency Range	K	U(dB)
Conducted disturbance at mains terminals ports	0.15MHz ~ 30MHz	2	3.62
Radiated disturbance test	9kHz-150kHz	2	3.32
	150kHz-30MHz	2	3.72
Radiated Emission Test	30MHz~1GHz	2	4.00

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	Wireless Charging Pad	
EUT Description	The EUT is a wireless charger.	
Model	AWC1043	
Serial Models	AWC1043AW, AWC1043SG, AWC1043XX (X would be any Arabian number or English letter or blank)	
Model Defference	All the same except for the model number and color.	
Product Description	Operation Frequency	127.5kHz
Modulation Type	MSK	
Rated input	DC 15V/1.2A	
Rated Power	Maximum 10W	
Antenna type	Coil	

5.2. TEST MODE

Config	Test Mode	Description
Mode 1	Standby	EUT alone powered by AC/DC adapter
Mode 2	Operating	EUT and iPhone powered by AC/DC adapter
Mode 3	Operating	EUT and 10W load powered by AC/DC adapter
Mode 4	Operating	EUT and 5W load powered by AC/DC adapter

5.3. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests	
Relative Humidity	55 ~ 65%	
Atmospheric Pressure:	1018Pa	
Temperature	TN	22 ~ 28°C
Voltage :	VL	/
	VN	DC 15V
	VH	/

Note: VL= Lower Extreme Test Voltage
VN= Nominal Voltage
VH= Upper Extreme Test Voltage
TN= Normal Temperature



5.4. ACCESSORY

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Series No.
1	AC/DC Adapter	/	CHG1068	Input: AC 120/60Hz Output: DC 15V/1.2A
2	Mobile Phone	Apple	iPhone XS	/
3	10W Load	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	DC	DC	/	/	/

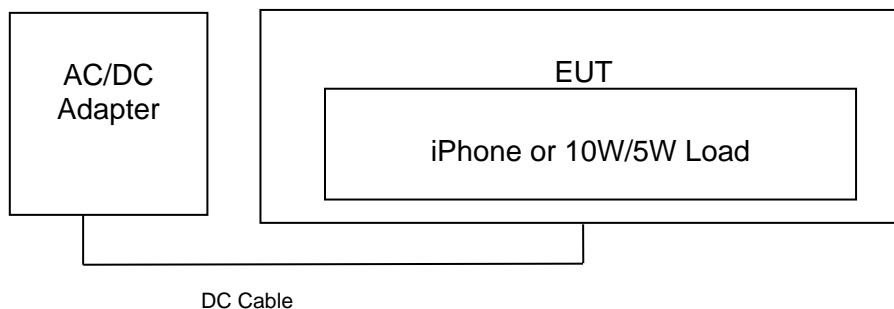
ACCESSORY

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

TEST SETUP

The EUT support wireless charging.

SETUP DIAGRAM FOR TEST





5.5. MEASURING INSTRUMENT LIST

Conducted Emissions						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	EMI Test Receiver	R&S	ESR3	101961	Dec.10,2018	Dec.10,2019
<input checked="" type="checkbox"/>	Two-Line V- Network	R&S	ENV216	101983	Dec.10,2018	Dec.10,2019
Software						
Used	Description		Manufacturer	Name		Version
<input checked="" type="checkbox"/>	Test Software for Conducted disturbance		Farad	EZ-EMC		Ver. UL-3A1
Radiated Emissions						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Dec.10,2018	Dec.10,2019
<input checked="" type="checkbox"/>	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Sep.17,2018	Sep.17,2021
<input checked="" type="checkbox"/>	Preamplifier	HP	8447D	2944A09099	Dec.10,2018	Dec.10,2019
<input checked="" type="checkbox"/>	Loop antenna	Schwarzbeck	1519B	00008	Jan.17, 2019	Jan.17,2022
Software						
Used	Description		Manufacturer	Name		Version
<input checked="" type="checkbox"/>	Test Software for Radiated disturbance		Farad	EZ-EMC		Ver. UL-3A1
Other instruments						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	Spectrum Analyzer	Keysight	N9030A	MY55410512	Dec.10,2018	Dec.10,2019

6. 20dB BANDWIDTH TEST

LIMITS

20dB Bandwidth

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.

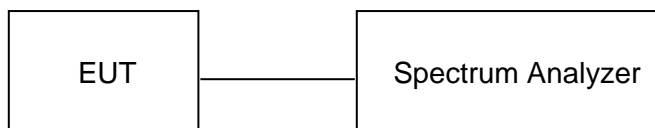
TEST PROCEDURE

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 occupied 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.

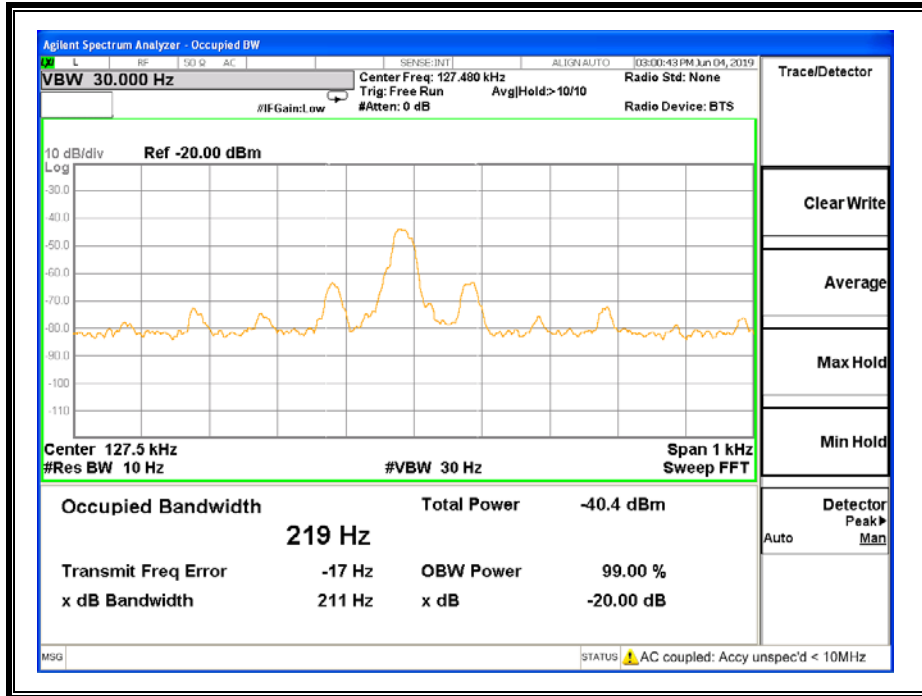
TEST SETUP



RESULTS



Frequency (KHz)	99% Bandwidth (Hz)	20dB Bandwidth (Hz)
127.5	219	211



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



7. EMISSION TEST

LIMITS

Please refer to FCC §15.205 and §15.209

Radiation Disturbance Test Limit for FCC (Class B)(9KHz-1GHz)

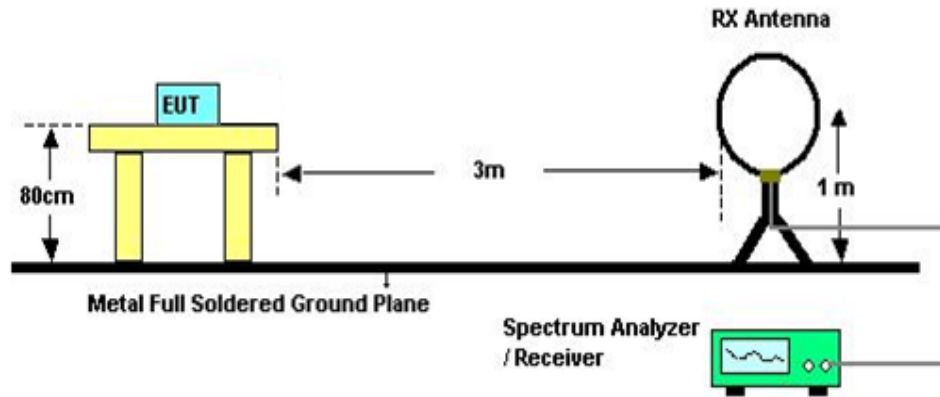
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

TEST SETUP AND PROCEDURE

Below 30MHz (Loop Antenna)

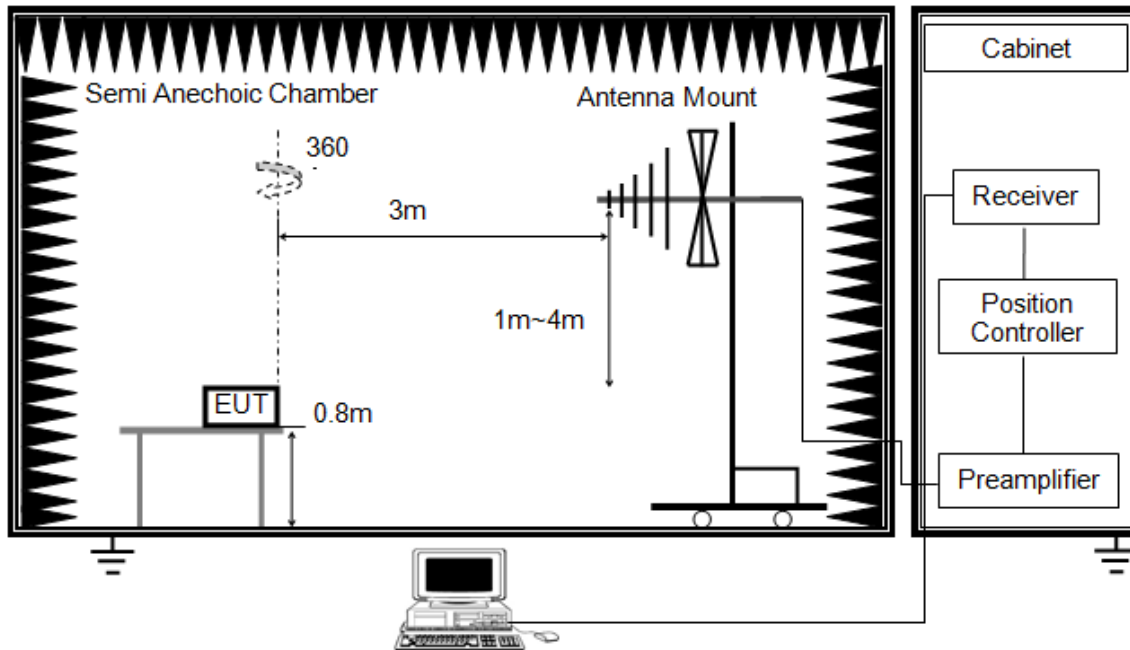


The setting of the spectrum analyzer

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

1. The testing follows the guidelines in ANSI C63.10-2013 and 414788 D01 Radiated Test Site v01.
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 and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80cm meter 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. 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 1GHz, 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.
7. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open are test 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 based on KDB 414788.

Below 1G and above 30MHz



The setting of the spectrum analyzer

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

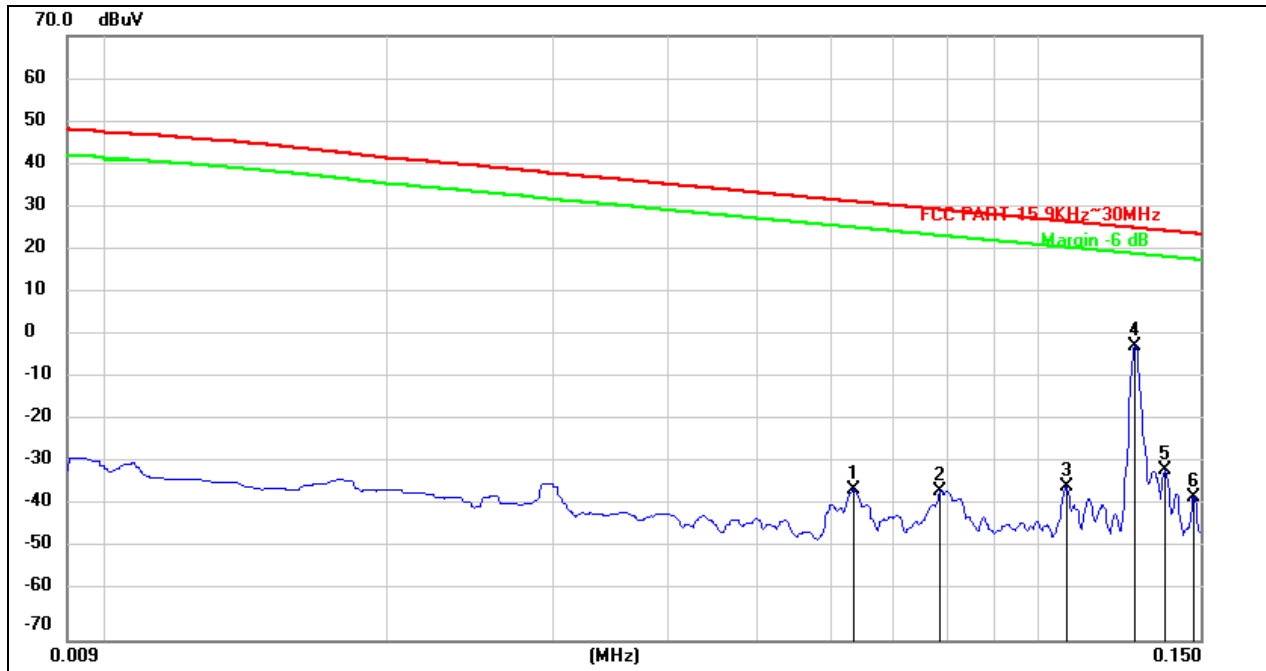
1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better 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 0.8m 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 1GHz, 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.



RESULTS

FCC PART 15C BELOW 30MHz SPURIOUS EMISSIONS (MODE 3, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

9kHz~ 150kHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.0633	65.00	-100.31	-35.31	31.60	-66.91	peak
2	0.0786	64.78	-100.37	-35.59	29.70	-65.29	peak
3	0.1076	65.93	-100.48	-34.55	26.98	-61.53	peak
4	0.1275	98.52	-100.44	-1.92	25.50	-27.42	peak
5	0.1375	69.65	-100.42	-30.77	24.84	-55.61	peak
6	0.1476	63.56	-100.40	-36.84	24.22	-61.06	peak

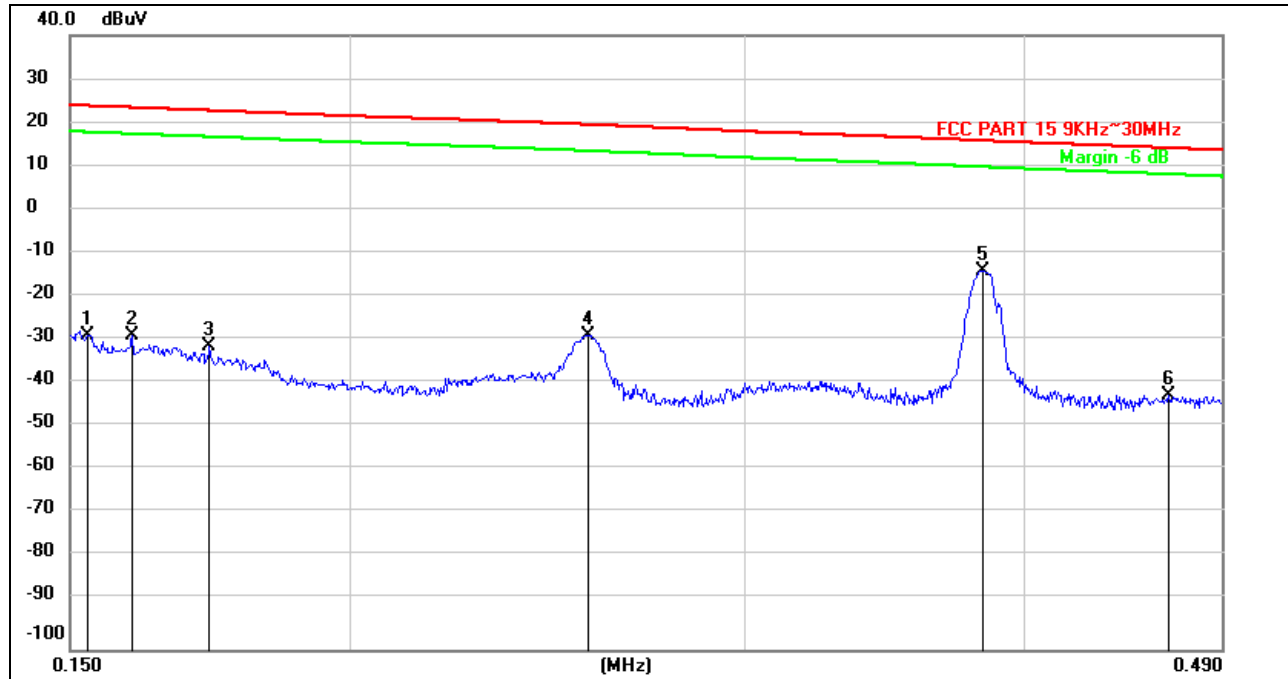
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP 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.



150kHz ~ 490kHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1527	72.01	-100.40	-28.39	23.93	-52.32	peak
2	0.1599	71.95	-100.43	-28.48	23.53	-52.01	peak
3	0.1731	69.51	-100.47	-30.96	22.84	-53.80	peak
4	0.2556	72.35	-100.72	-28.37	19.62	-47.99	peak
5	0.3832	87.48	-101.04	-13.56	15.98	-29.54	peak
6	0.4642	59.26	-101.25	-41.99	14.30	-56.29	peak

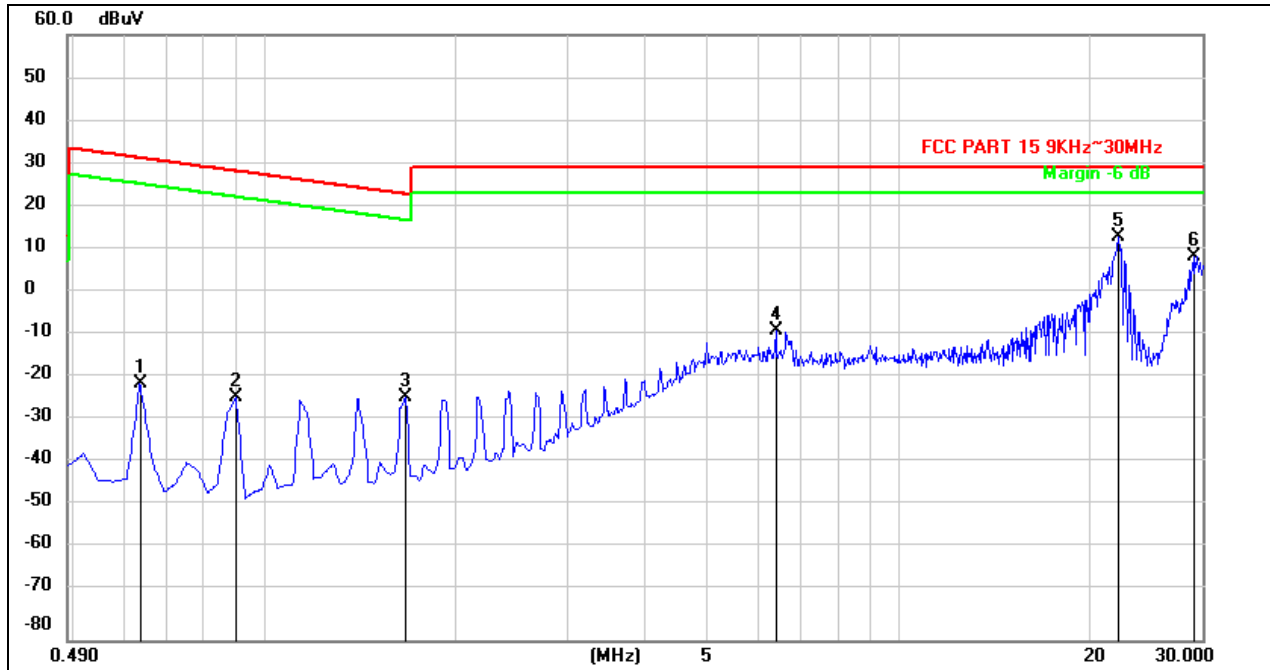
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP 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.



490kHz ~ 30MHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.6375	79.45	-100.26	-20.81	31.54	-52.35	peak
2	0.9031	74.62	-98.40	-23.78	28.49	-52.27	peak
3	1.6704	67.69	-91.56	-23.87	23.15	-47.02	peak
4	6.3920	53.48	-61.83	-8.35	29.54	-37.89	peak
5	22.2094	74.69	-61.51	13.18	29.54	-16.36	peak
6	29.2327	69.55	-60.85	8.70	29.54	-20.84	peak

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

2. If Peak Result complies with AV and QP limit, AV and QP 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.

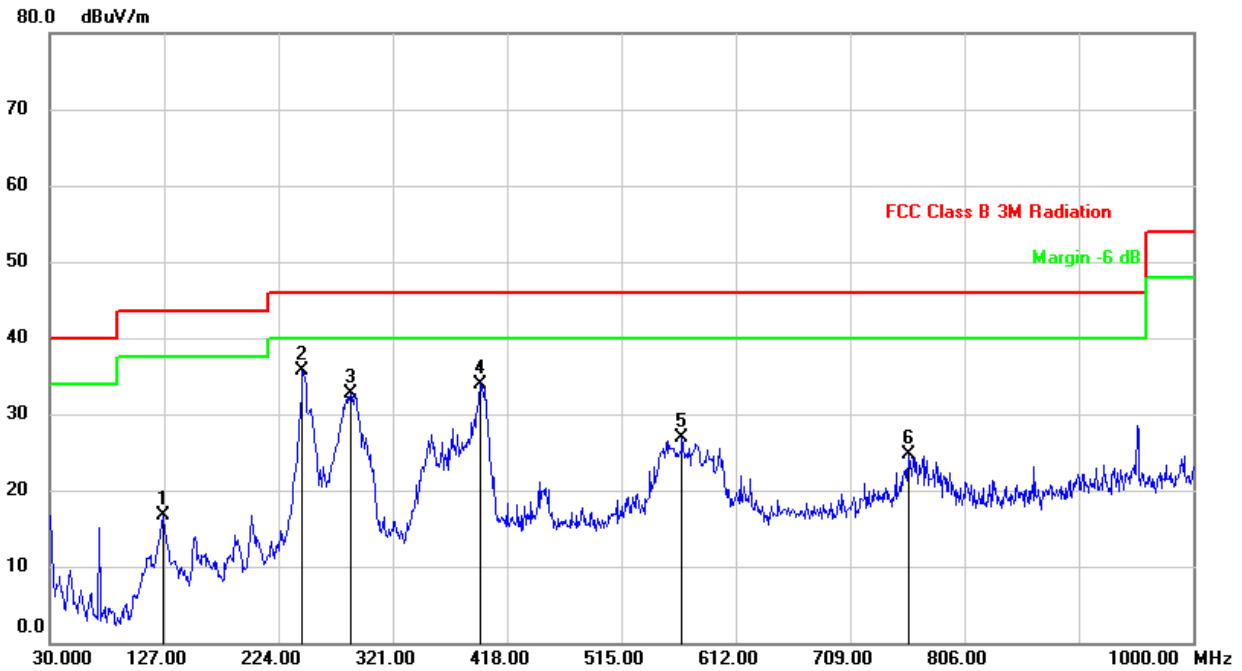
4. Point 4 and Point 5 create from the digital circuit. It is not created by wireless charging mode.

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



7.1. SPURIOUS EMISSIONS 30MHz - 1GHz

FCC PART15C SPURIOUS EMISSIONS (MODE 3, WORST-CASE CONFIGURATION, HORIZONTAL)

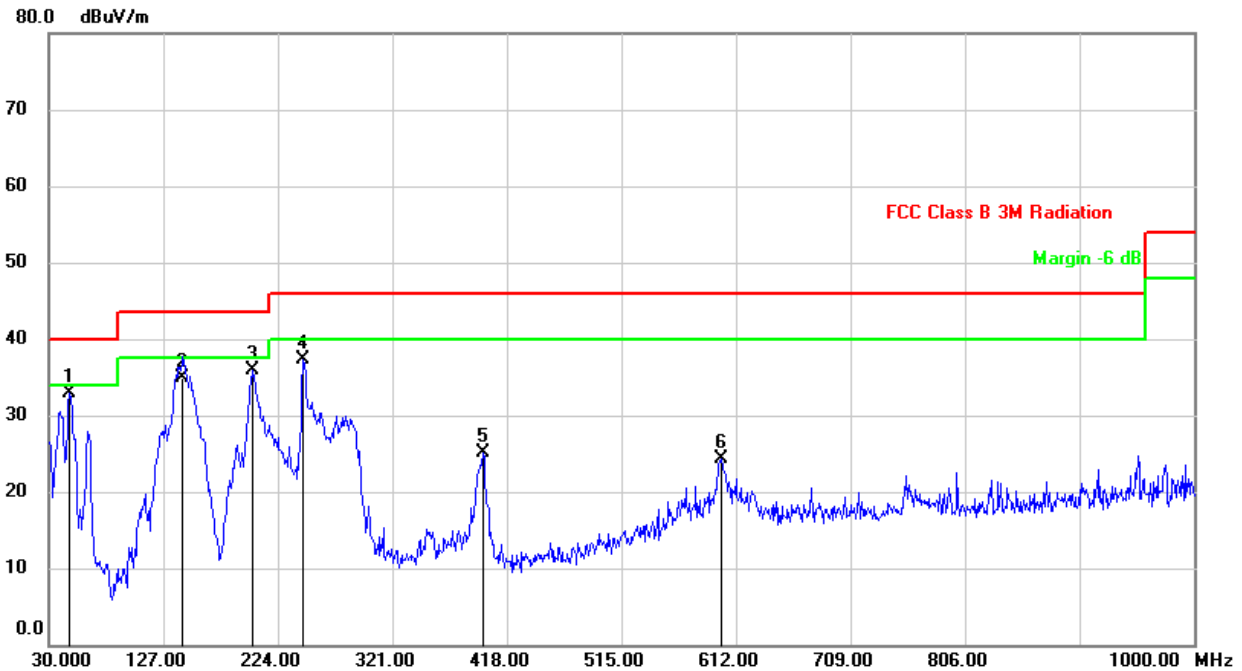


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	126.0300	36.80	-20.05	16.75	43.50	-26.75	QP
2	244.3700	52.35	-16.64	35.71	46.00	-10.29	QP
3	285.1099	47.25	-14.56	32.69	46.00	-13.31	QP
4	395.6900	46.47	-12.47	34.00	46.00	-12.00	QP
5	566.4099	35.94	-9.10	26.84	46.00	-19.16	QP
6	758.4699	30.52	-5.77	24.75	46.00	-21.25	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.



FCC PART15C SPURIOUS EMISSIONS (MODE 3, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	47.4600	51.10	-18.26	32.84	40.00	-7.16	QP
2	143.4900	53.78	-18.86	34.92	43.50	-8.58	QP
3	202.6600	52.05	-16.05	36.00	43.50	-7.50	QP
4	245.3400	53.84	-16.56	37.28	46.00	-8.72	QP
5	397.6300	37.52	-12.45	25.07	46.00	-20.93	QP
6	599.3900	32.65	-8.44	24.21	46.00	-21.79	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

Note: All the modes had been tested, but only the worst data recorded in the report.

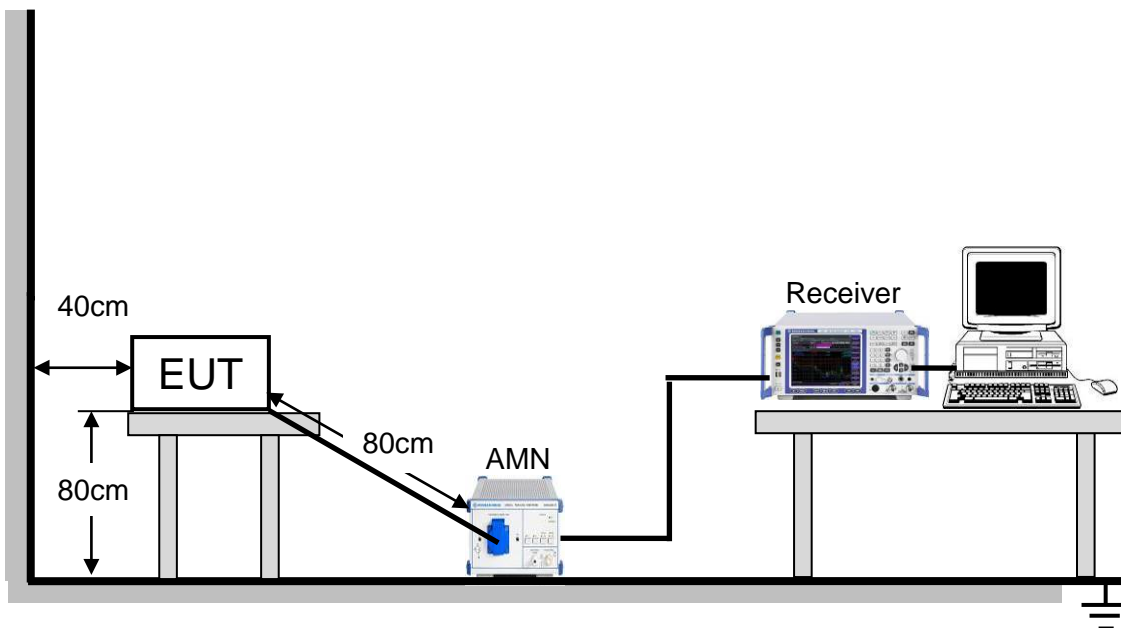
8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to FCC §15.207 (a) .

FREQUENCY (MHz)	(dBuV)	
	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 SETUP AND PROCEDURE

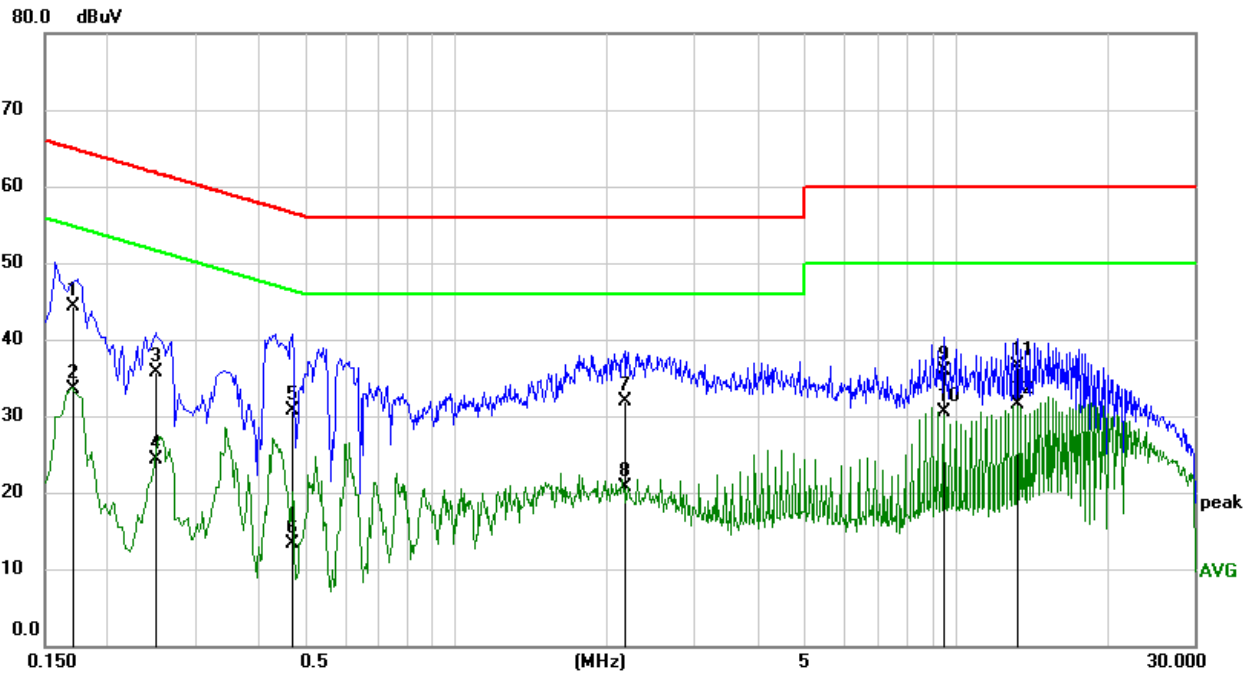


The EUT is put on a table of non-conducting material that is 0.8m high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). An EMI Measurement Receiver (R&S Test Receiver 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 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz. 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 RESULTS

LINE L RESULTS (MODE 3, WORST-CASE CONFIGURATION)

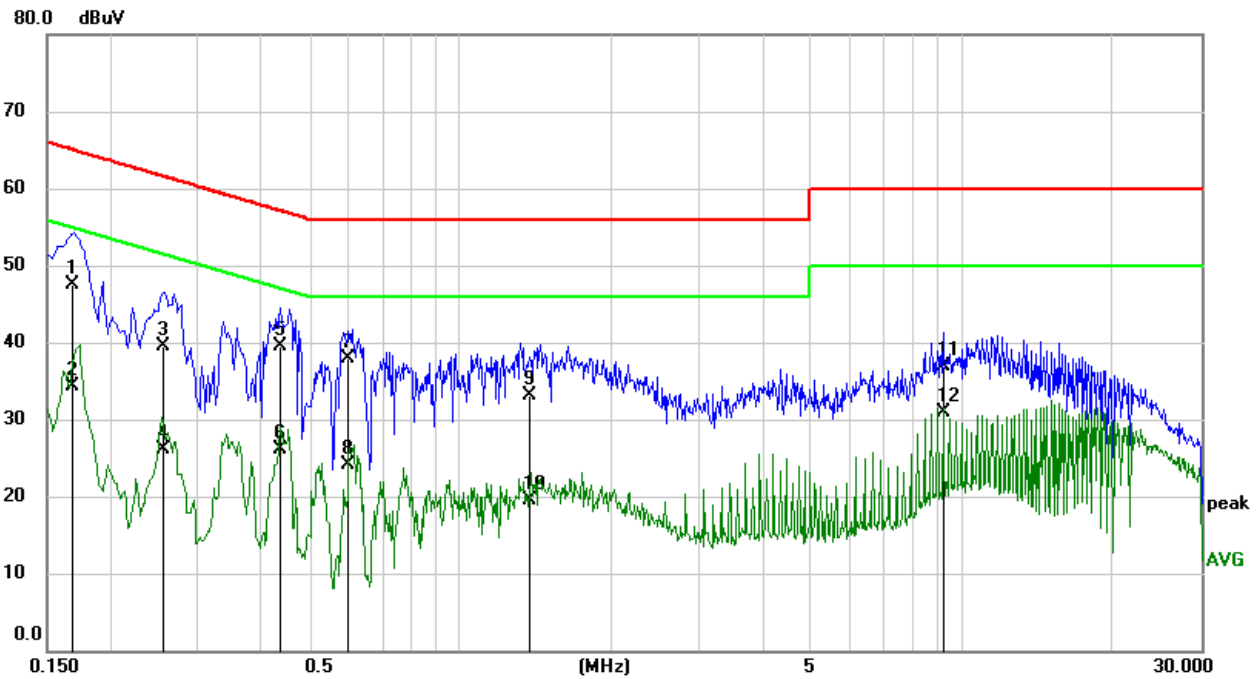


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1707	34.69	9.61	44.30	64.93	-20.63	QP
2	0.1707	23.82	9.61	33.43	54.93	-21.50	AVG
3	0.2513	26.15	9.60	35.75	61.71	-25.96	QP
4	0.2513	14.65	9.60	24.25	51.71	-27.46	AVG
5	0.4680	21.01	9.60	30.61	56.55	-25.94	QP
6	0.4680	3.78	9.60	13.38	46.55	-33.17	AVG
7	2.1724	22.26	9.62	31.88	56.00	-24.12	QP
8	2.1724	11.05	9.62	20.67	46.00	-25.33	AVG
9	9.4569	26.20	9.74	35.94	60.00	-24.06	QP
10	9.4569	20.78	9.74	30.52	50.00	-19.48	AVG
11	13.2900	26.73	9.82	36.55	60.00	-23.45	QP
12	13.2900	21.66	9.82	31.48	50.00	-18.52	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: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.
 5. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.



LINE N RESULTS (MODE 3, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1678	37.89	9.60	47.49	65.07	-17.58	QP
2	0.1678	24.61	9.60	34.21	55.07	-20.86	AVG
3	0.2558	29.91	9.60	39.51	61.57	-22.06	QP
4	0.2558	16.55	9.60	26.15	51.57	-25.42	AVG
5	0.4387	29.91	9.60	39.51	57.09	-17.58	QP
6	0.4387	16.43	9.60	26.03	47.09	-21.06	AVG
7	0.6002	28.21	9.60	37.81	56.00	-18.19	QP
8	0.6002	14.41	9.60	24.01	46.00	-21.99	AVG
9	1.3766	23.46	9.61	33.07	56.00	-22.93	QP
10	1.3766	9.93	9.61	19.54	46.00	-26.46	AVG
11	9.1998	27.07	9.75	36.82	60.00	-23.18	QP
12	9.1998	21.18	9.75	30.93	50.00	-19.07	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: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.
 5. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.

Note: All the modes had been tested, but only the worst data recorded in the report.

END OF REPORT