Report No.: DDT-R22052603-2E01

Issued Date: Jun. 14, 2022

FCC CERTIFICATION TEST REPORT

FOR

Applicant	:	Lifeguard Press, Inc.
Address	:	134 Beech Bend Rd. Bowling Green, KY 42101
Equipment under Test	:	Wireless Charging Pad
Model No.	:	WCPRDV2-2205424, WCPRDV2-226413
Trade Mark	:	/
FCC ID	:	2AZOP-WCPRDV2
Manufacturer	:	Lifeguard Press, Inc.
Address	:	134 Beech Bend Rd. Bowling Green, KY 42101

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel.: +86-0769-38826678, **E-mail:** ddt@dgddt.com, http://www.dgddt.com

REPORT

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Test Report Declare

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Trade Mark	:	/
Manufacturer	:	Lifeguard Press, Inc.
Address	:	134 Beech Bend Rd. Bowling Green, KY 42101

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C

Test procedure used:

ANSI C63.10:2013

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No.:	DDT-R22052603-2E01		
Date of Receipt:	May 27, 2022	**Date of Test:**	May 27, 2022 ~ Jun. 10, 2022

Prepared By: ***Approved By:***

Sam Li

Sam Li/Engineer ***Damon Hu/EMC Manager***

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Jun. 14, 2022	

1. Summary of Test Results

Description of Test Item	Standard	Results
20 dB Bandwidth	FCC Part 15: 15.215	Pass
Radiated Emission	FCC Part 15: 15.209	Pass
Power Line Conducted Emissions	FCC Part 15: 15.207	Pass
Antenna Requirement	FCC Part 15: 15.203	Pass

2. General Test Information

2.1. Description of EUT

EUT* Name	:	Wireless Charging Pad
Model Number	:	WCPRDV2-2205424, WCPRDV2-226413
Difference of model number	:	All models are identical excepted the appearance, color and model name, therefore the test performed on the model WCPRDV2-226413.
EUT function description	:	Please reference user manual of this device
Power Supply	:	Input: DC 5V/9V by an external adapter. Output: 5W/7.5W/10W
Wireless charging Operation frequency	:	110 kHz - 205 kHz
Antenna Type	:	Inductive loop coil antenna
Sample Type	:	Series production
Sample Number	:	N/A

Note: EUT is the abbreviation of equipment under test.

In section 15.31(m), regards to the operating frequency range less than 1 MHz, only one of channel was selected to perform the test.

Channel	Frequency (kHz)
Testing channel	128

2.2. Accessories of EUT

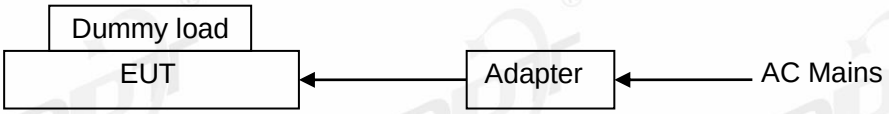
Accessories	Manufacturer	Model number	Description
USB line	N/A	N/A	Length: 1.00m, Unshielded

2.3. Assistant equipment used for test

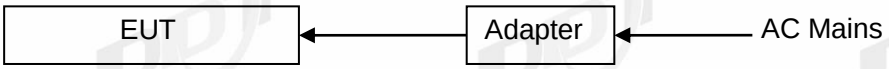
Assistant equipment	Manufacturer	Model number	EMC Compliance	Other
AC Adapter1	N/A	N/A	N/A	N/A
AC Adapter2	N/A	N/A	N/A	N/A
Dummy load	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test

For mode 1: Tx mode (5W load, 7.5W load, 10W load):



For mode 2: Standby mode:



Note: Scan with mode 1 and mode 2, the worst case is mode 1 Tx mode (10W load) and recorded in this report.

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 ℃
Humidity range:	40-75%
Pressure range:	86-106 kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

2.8. Measurement uncertainty

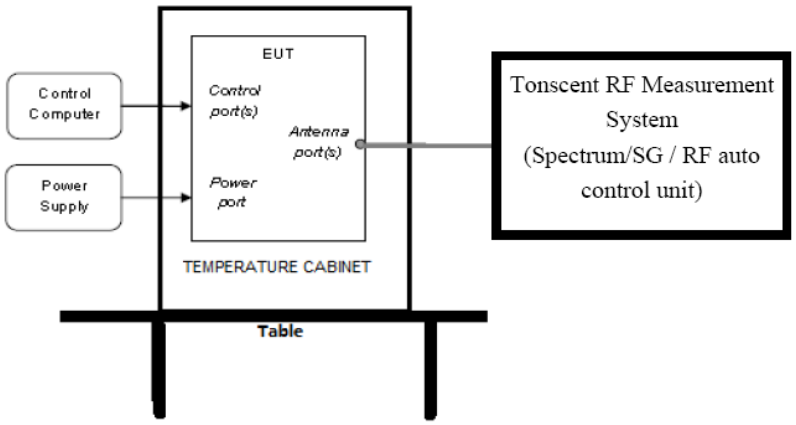
Test Item	Uncertainty
Uncertainty for Conduction emission test	3.32 dB (150 kHz - 30 MHz)
	3.72 dB (9 kHz - 150 kHz)
Uncertainty for Radiation Emission Test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz to 18 GHz)	4.10 dB (1-6 GHz)
	4.40 dB (6 GHz - 18 GHz)
Bandwidth	1.1%
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☒**RF Connected Test (Tonscend RF Measurement System 3#)**					
SPECTRUM ANALYZER	R&S	FSU26	200071	Sep. 02, 2021	1 Year
Wideband Radio Communication tester	R&S	CMW500	117491	May 18, 2022	1 Year
Vector Signal Generator	Agilent	N5182A	MY19060405	May 18, 2022	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180912	May 18, 2022	1 Year
RF Control Unit	Tonsend	JS0806-2	DDT-ZC0144 9	May 18, 2022	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150L	ZX170110-A	May 26, 2022	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.6.77.05 18	N/A	N/A
☒**Radiation 3#chamber**					
EMI Test Receiver	R&S	ESU	100472	May 18, 2022	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	May 18, 2022	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 19, 2021	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Aug. 07, 2021	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120	02468	Jul. 17, 2021	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 06, 2022	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	Sep. 02, 2021	1 Year
Pre-amplifier	COM-POWER	PAM-840A	461369	Apr. 11, 2022	1 Year
Test software	Audix	E3	V 6.1.1.1	N/A	N/A
☒**Power Line Conducted Emissions Test 3#**					
Test Receiver	R&S	ESCI	101032	Apr. 08, 2022	1 Year
LISN 1	R&S	ENV216	101725	Sep. 02, 2021	1 Year
LISN 2	R&S	ENV216	101726	Sep. 02, 2021	1 Year
LISN 3	SCHWARZBE CK	NSLK 8163	00017	Sep. 02, 2021	1 Year
Pulse Limiter	SCHWARZBE CK	VTSD 95	102766	Sep. 02, 2021	1 Year
CE Cable 3	HUBSER	Z806-NJ-NJ-2 M	21070280	Sep. 02, 2021	1 Year
CE Cable 3	HUBSER	Z806-NJ-NJ-6 M	21070275	Sep. 02, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

4. 20 dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

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.

4.3. Test procedure

1) Connect EUT to spectrum analyzer and use the following settings:

Centre Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the occupied bandwidth
VBW	Approximately 3xRBW
Trace	Max hold
Sweep	Auto

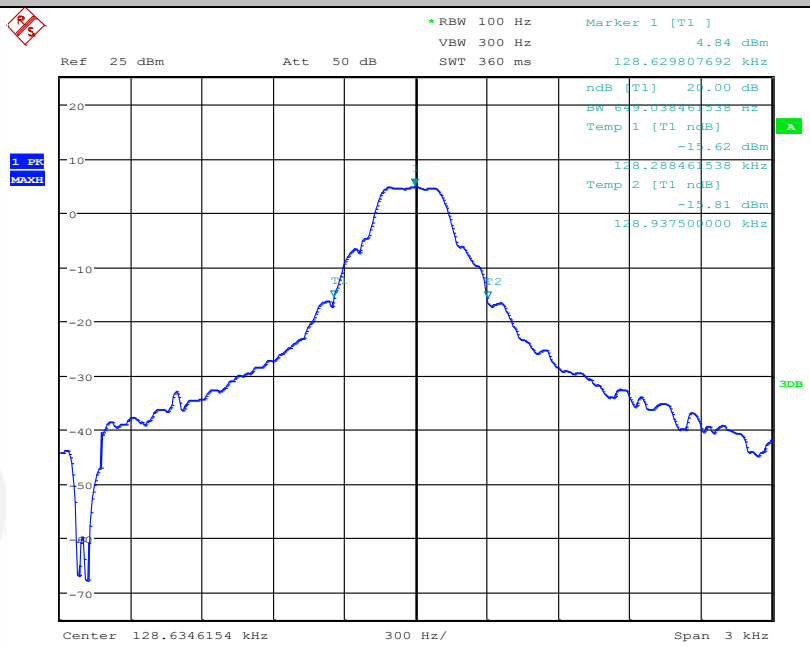
2) The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

4.4. Test result

Freq. (kHz)	20 dB bandwidth Result (Hz)	Conclusion
128	649	Pass

4.5. Original test data

Graphs

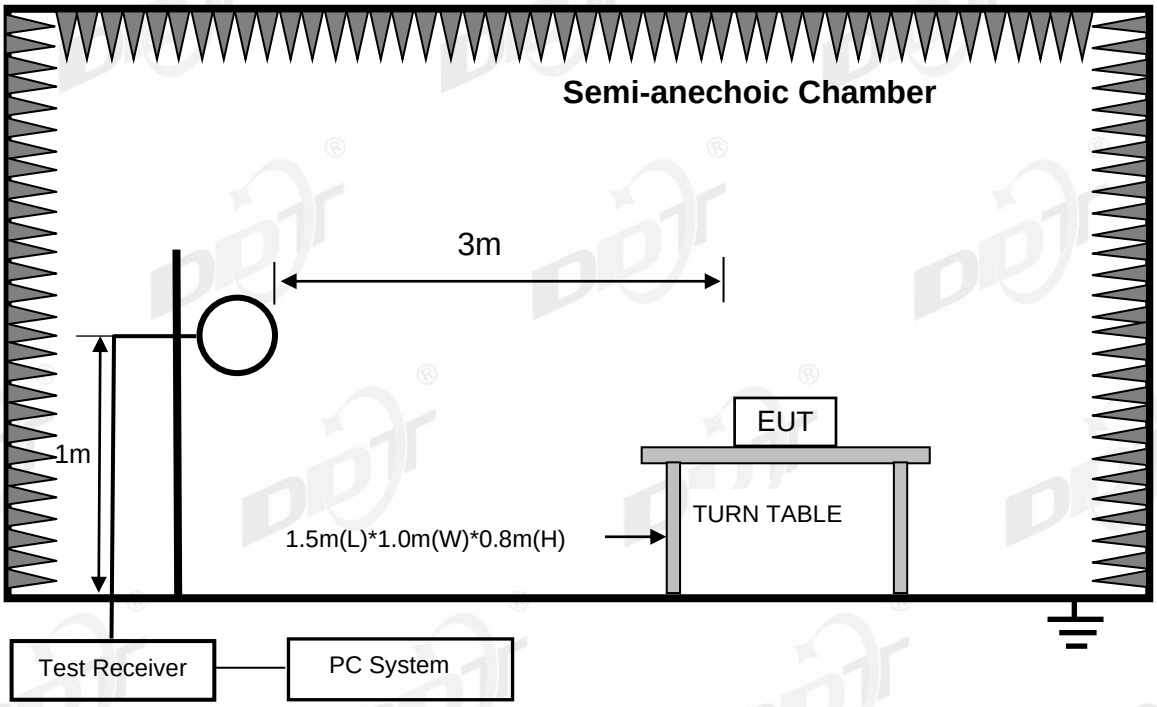


Date: 10.JUN.2022 19:27:13

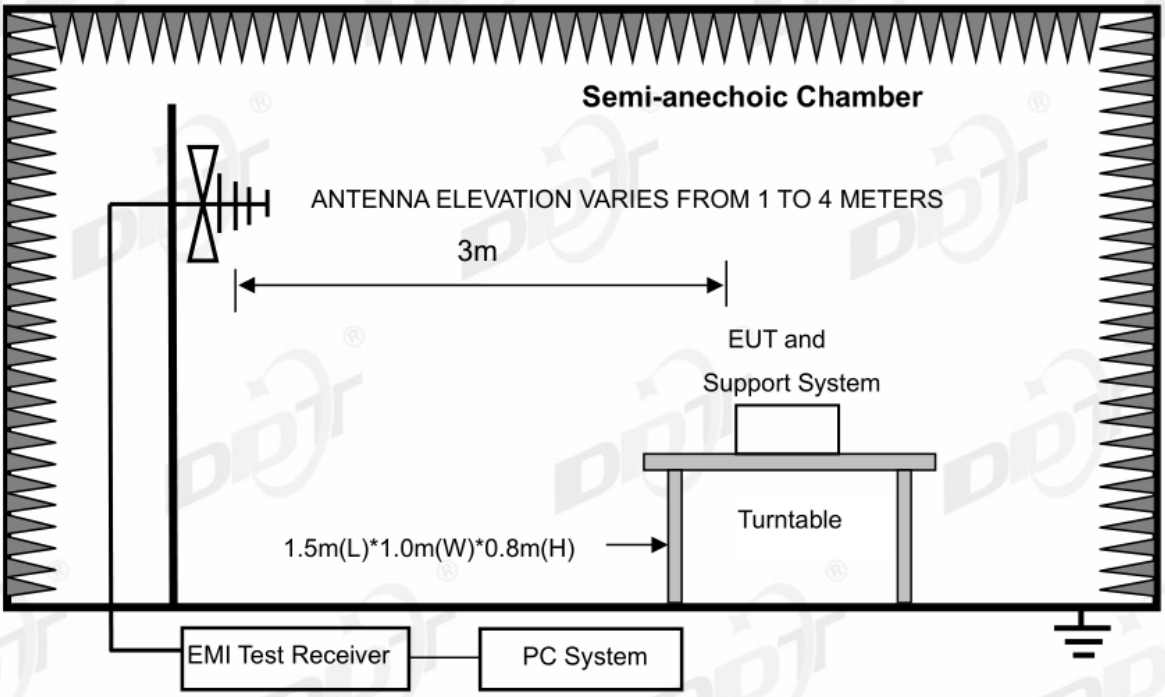
5. Radiated Emission

5.1. Block diagram of test setup

In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



5.2. Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$Limit_{3m}(dBuV/m) = Limit_{300m}(dBuV/m) + 40Log(300m/3m) = Limit_{300m}(dBuV/m) + 80$
$Limit_{3m}(dBuV/m) = Limit_{30m}(dBuV/m) + 40Log(30m/3m) = Limit_{30m}(dBuV/m) + 40$

5.3. Test procedure

(1) EUT was placed on a non-metallic table, 150 cm above the ground plane inside a semi-anechoic chamber.

(2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m

According ANSI C63.10:2013 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also is positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. For measurement above 30 MHz, the Trilog Broadband Antenna or Horn Antenna was located 3 m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 1 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's

fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produce highest emissions. Spectrum frequency from 9 kHz to 1 GHz (tenth harmonic of fundamental frequency) was investigated.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

(7) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

5.4. Test result

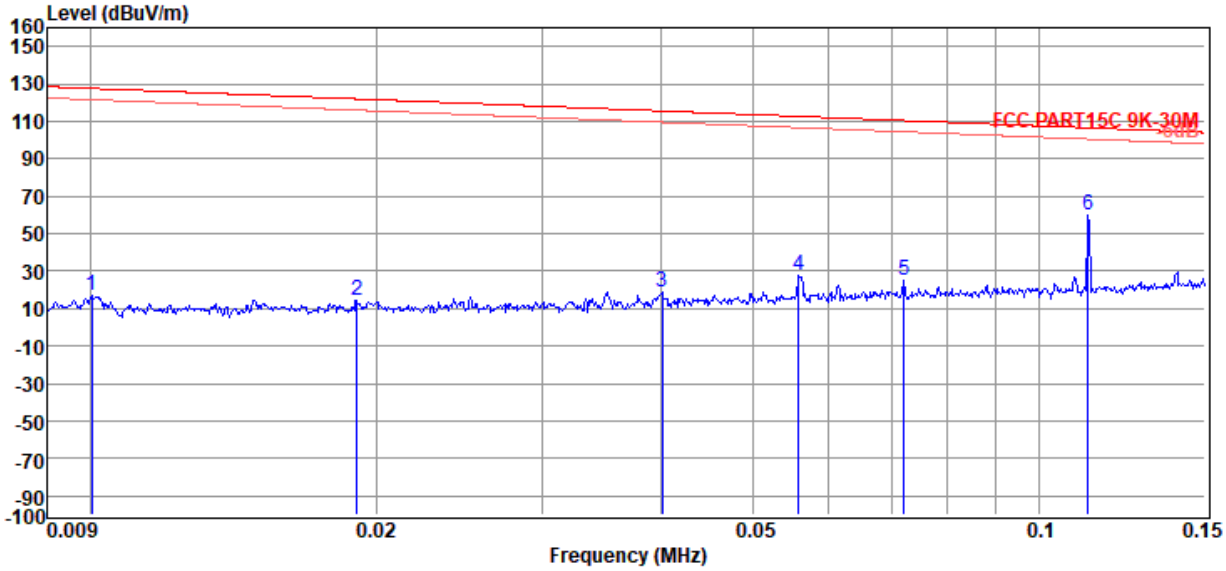
Pass. (See below detailed test result)

Below 30 MHz:

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22052603-2E WCPRD-2205424\FCC BELOW 1G 9K-30M.EM6	
Test Date	: 2022-05-31	**Tested By**	: James Gan
EUT	: Wireless Charging Pad	**Model Number**	: WCPRD-226413
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:24.1°C,Humi:55%,Press:100.3kPa	**Antenna/Distance**	: 2021 FMZB1519/3m/VERTICAL
Memo	:		

Data:
1



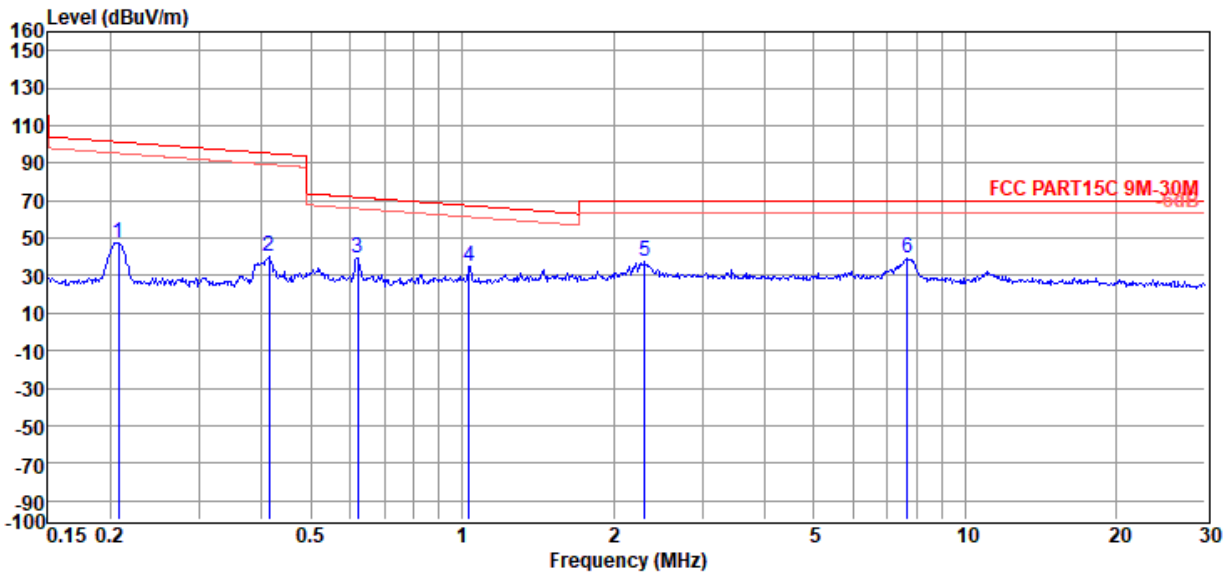
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	0.01	-6.20	23.40	0.03	17.23	127.58	-110.35	Peak	VERTICAL
2	0.02	-7.83	22.46	0.00	14.63	121.99	-107.36	Peak	VERTICAL
3	0.04	-2.80	22.08	-0.02	19.26	115.54	-96.28	Peak	VERTICAL
4	0.06	5.42	22.28	-0.03	27.67	112.65	-84.98	Peak	VERTICAL
5	0.07	3.27	22.22	-0.03	25.46	110.43	-84.97	Peak	VERTICAL
6	0.11	37.44	22.08	-0.02	59.50	106.55	-47.05	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP/AV limit, QP/AV Result is deemed to comply with QP/AV limit.
3. Test setup: RBW: 300 kHz, VBW: 1 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22052603-2E WCPRD-2205424\FCC BELOW 1G 9K-30M.EM6	
Test Date	: 2022-05-31	**Tested By**	: James Gan
EUT	: Wireless Charging Pad	**Model Number**	: WCPRD-226413
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:24.1°C,Humi:55%,Press:100.3kPa	**Antenna/Distance**	: 2021 FMZB1519/3m/VERTICAL
Memo	:		

Data:
2



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	0.21	25.78	21.97	0.02	47.77	101.28	-53.51	Peak	VERTICAL
2	0.41	18.70	21.90	-0.02	40.58	95.29	-54.71	Peak	VERTICAL
3	0.62	17.91	21.85	-0.02	39.74	71.75	-32.01	Peak	VERTICAL
4	1.03	13.54	21.80	-0.10	35.24	67.33	-32.09	Peak	VERTICAL
5	2.31	15.82	21.80	-0.07	37.55	69.54	-31.99	Peak	VERTICAL
6	7.69	17.73	21.89	0.14	39.76	69.54	-29.78	Peak	VERTICAL

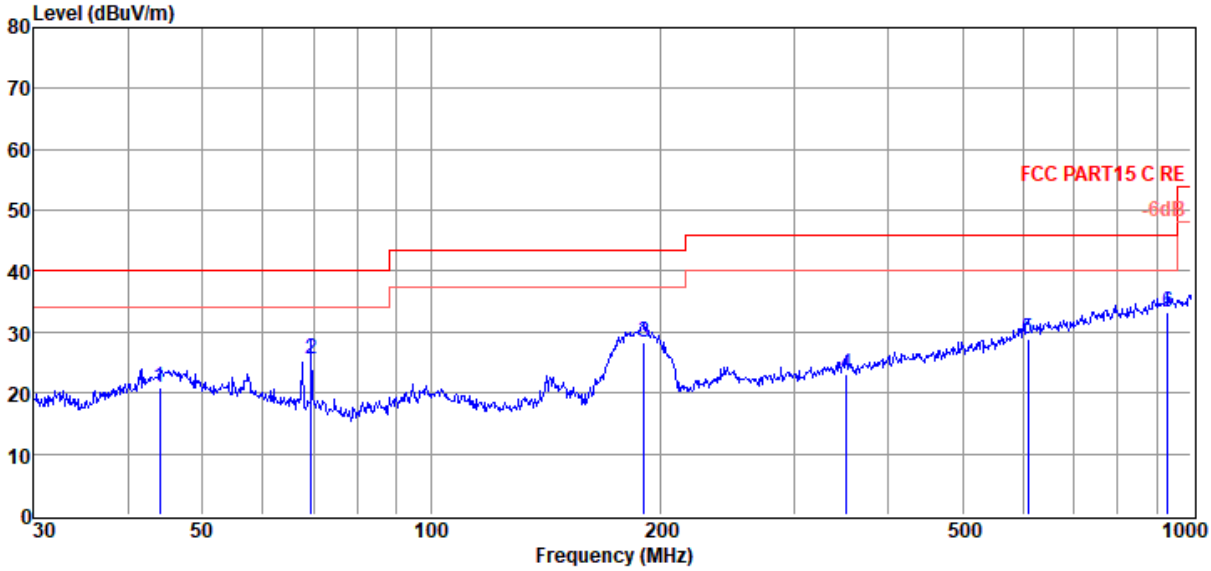
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP/AV limit, QP/AV Result is deemed to comply with QP/AV limit.
3. Test setup: RBW: 10 kHz, VBW: 30 kHz, Sweep time: auto.

Above 30 MHz:

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22052603-2E WCPRD-2205424\FCC BELOW 1G.EM6	
Test Date	: 2022-05-31	**Tested By**	: James Gan
EUT	: Wireless Charging Pad	**Model Number**	: WCPRD-226413
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:24.2°C,Humi:60.3%,Press:100.3kPa	**Antenna/Distance**	: 2021 VLUB 9163 #3/3m/VERTICAL
Memo	:		

Data:
1



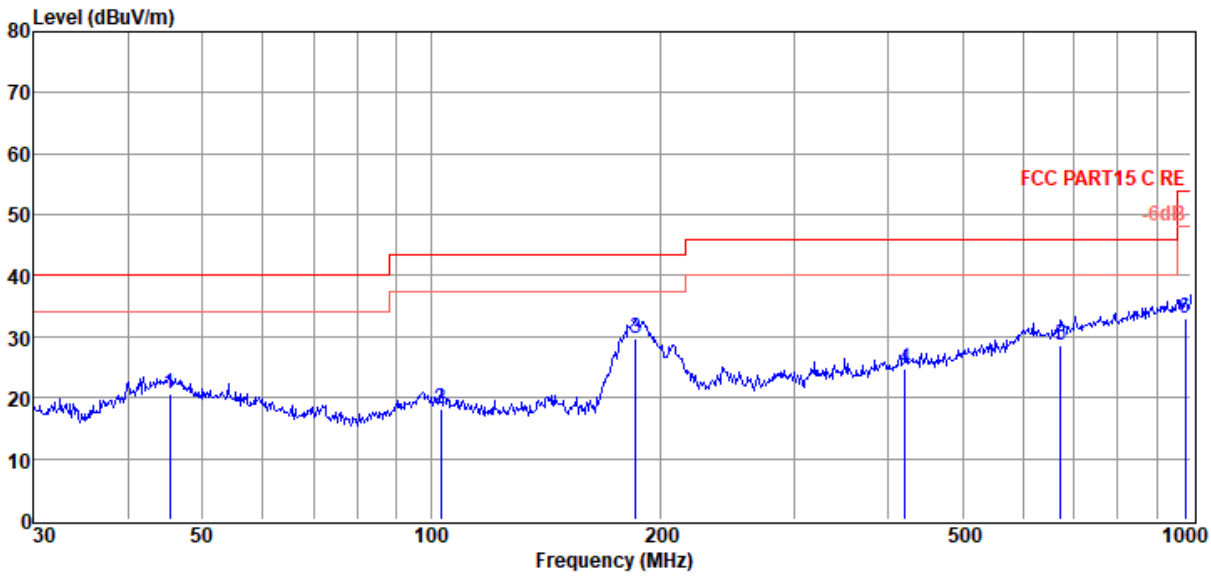
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	43.97	2.33	14.98	3.64	20.95	40.00	-19.05	QP	VERTICAL
2	69.60	12.84	9.00	3.82	25.66	40.00	-14.34	QP	VERTICAL
3	190.41	13.05	10.78	4.42	28.25	43.50	-15.25	QP	VERTICAL
4	351.71	3.00	15.07	5.00	23.07	46.00	-22.93	QP	VERTICAL
5	609.92	3.87	19.20	5.76	28.83	46.00	-17.17	QP	VERTICAL
6	932.27	4.49	22.35	6.54	33.38	46.00	-12.62	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
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.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22052603-2E WCPRD-2205424\FCC BELOW 1G.EM6	
Test Date	: 2022-05-31	**Tested By**	: James Gan
EUT	: Wireless Charging Pad	**Model Number**	: WCPRD-226413
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:24.2°C,Humi:60.3%,Press:100.3kPa	**Antenna/Distance**	: 2021 VLUB 9163 #3/3m/HORIZONTAL
Memo	:		

Data:
2

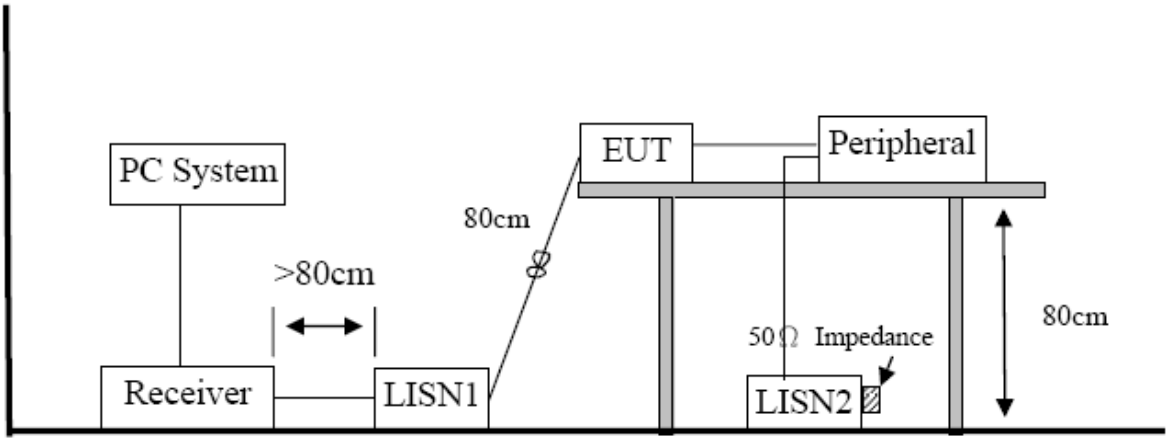


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	45.38	2.12	14.91	3.65	20.68	40.00	-19.32	QP	HORIZONTAL
2	103.08	2.71	11.48	4.00	18.19	43.50	-25.31	QP	HORIZONTAL
3	185.79	15.19	10.08	4.40	29.67	43.50	-13.83	QP	HORIZONTAL
4	420.58	3.51	15.91	5.22	24.64	46.00	-21.36	QP	HORIZONTAL
5	672.84	3.41	19.36	5.92	28.69	46.00	-17.31	QP	HORIZONTAL
6	982.62	3.86	22.35	6.75	32.96	54.00	-21.04	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
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.

6. Power Line Conducted Emission

6.1. Block diagram of test setup



6.2. Power line conducted emission limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

6.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80 cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.
The EUT configuration and worse cable configuration of the above highest emission levels were

recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

6.4. Test result

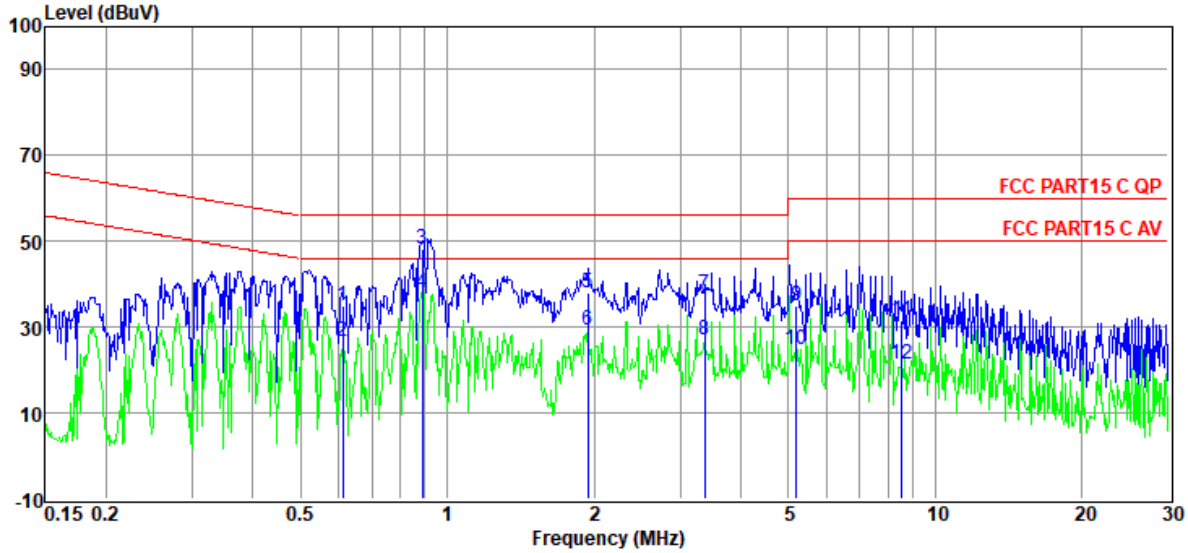
Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.
Note2: "-----" means Peak detection; "-----" means Average detection.
Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/60Hz, recorded worse case (AC 120V/60Hz).

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 5# Shield Room	D:\2022 Report Data\Q22052603-2E	
Test Date	: 2022-05-30	**Tested By**	: Kennys Zhang
EUT	: Wireless Charging Pad	**Model Number**	: WCPRD-226413
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:21.7°C,Humi:56.2%,Press:101.3kPa	**LISN**	: 2021 ENV 216 3#/NEUTRAL
Memo	:		

Data: 2



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	LISN Factor (dB)	Cable Loss (dB)	Result Level (dBµV)	Limit Line (dBµV)	Over Limit (dB)	Detector	Phase
1	0.61	15.95	9.20	9.84	34.99	56.00	-21.01	QP	NEUTRAL
2	0.61	7.45	9.20	9.84	26.49	46.00	-19.51	Average	NEUTRAL
3	0.89	29.10	9.40	9.85	48.35	56.00	-7.65	QP	NEUTRAL
4	0.89	18.84	9.40	9.85	38.09	46.00	-7.91	Average	NEUTRAL
5	1.94	18.87	9.21	9.92	38.00	56.00	-18.00	QP	NEUTRAL
6	1.94	10.05	9.21	9.92	29.18	46.00	-16.82	Average	NEUTRAL
7	3.36	18.42	9.20	9.93	37.55	56.00	-18.45	QP	NEUTRAL
8	3.36	7.88	9.20	9.93	27.01	46.00	-18.99	Average	NEUTRAL
9	5.19	15.94	9.29	9.93	35.16	60.00	-24.84	QP	NEUTRAL
10	5.19	5.55	9.29	9.93	24.77	50.00	-25.23	Average	NEUTRAL
11	8.55	12.22	9.40	9.95	31.57	60.00	-28.43	QP	NEUTRAL
12	8.55	1.99	9.40	9.95	21.34	50.00	-28.66	Average	NEUTRAL

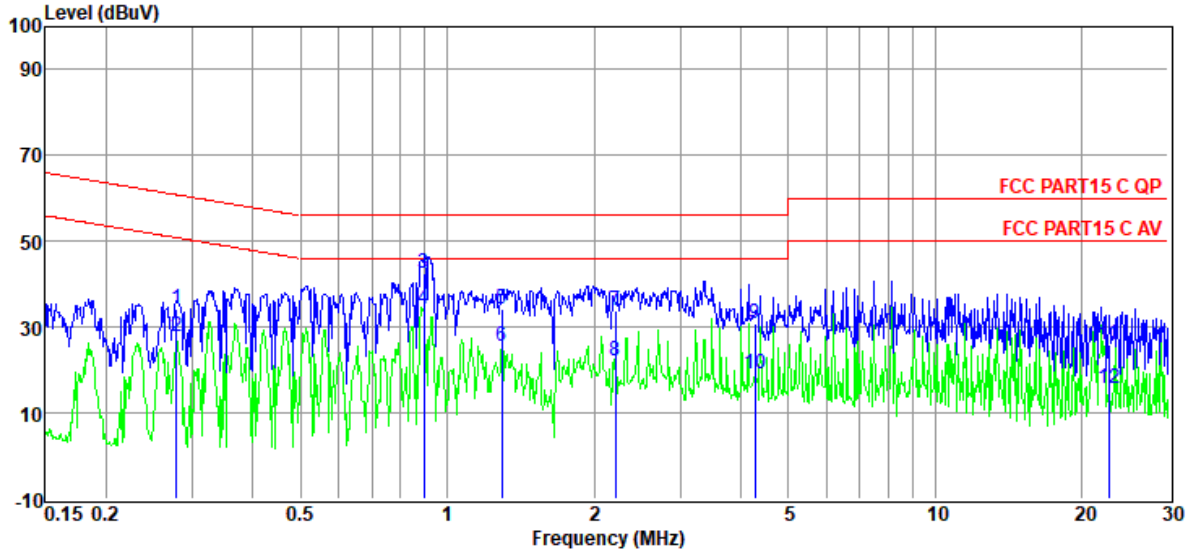
Note:

1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
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.

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 5# Shield Room	D:\2022 Report Data\Q22052603-2E	
Test Date	: 2022-05-30	**Tested By**	: Kennys Zhang
EUT	: Wireless Charging Pad	**Model Number**	: WCPRD-226413
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:21.7°C,Humi:56.2%,Press:101.3kPa	**LISN**	: 2021 ENV 216 3#/LINE
Memo	:		

Data: 4



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	LISN Factor (dB)	Cable Loss (dB)	Result Level (dBµV)	Limit Line (dBµV)	Over Limit (dB)	Detector	Phase
1	0.28	14.75	9.50	9.83	34.08	60.85	-26.77	QP	LINE
2	0.28	8.54	9.50	9.83	27.87	50.85	-22.98	Average	LINE
3	0.89	23.39	9.43	9.85	42.67	56.00	-13.33	QP	LINE
4	0.89	14.89	9.43	9.85	34.17	46.00	-11.83	Average	LINE
5	1.30	14.81	9.44	9.88	34.13	56.00	-21.87	QP	LINE
6	1.30	6.08	9.44	9.88	25.40	46.00	-20.60	Average	LINE
7	2.21	14.26	9.49	9.92	33.67	56.00	-22.33	QP	LINE
8	2.21	2.80	9.49	9.92	22.21	46.00	-23.79	Average	LINE
9	4.27	11.50	9.42	9.93	30.85	56.00	-25.15	QP	LINE
10	4.27	-0.19	9.42	9.93	19.16	46.00	-26.84	Average	LINE
11	22.66	6.76	9.20	10.03	25.99	60.00	-34.01	QP	LINE
12	22.66	-3.61	9.20	10.03	15.62	50.00	-34.38	Average	LINE

Note:

1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
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.

7. Antenna Requirements

For intentional device, according to FCC 47 CFR Section 15.203, 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Conclusion: The antenna used for this product is inductive loop coil antenna and that no antenna other than that furnished by the responsible party shall be used with the device.