

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
CONSUMER ISM EQUIPMNET CERTIFICATION TO
FCC PART 18 SUBPART C REQUIREMENT**

OF

Dual 10 Watt Two Coil Wireless Charger

Model No.: WCDUAL10WWGGL-AL, 60-4643-05-XP, 60-4642-05-XP

Trademark: Verizon, Elixage

FCC ID: 2AU7DDUAL10WGGL

Report No.: EA2002072F 01001

Issue Date: Mar. 06, 2020

Prepared for

Shenzhen PYS Industrial Co., LTD

**(1st to 12th floors)101-1201,Block 9, Lianhua Industry Zone,LongHua
District, Shenzhen city**

Prepared by

Dong Guan Anci Electronic Technology Co., Ltd.

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City, Guangdong Pr., China.**

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Dong Guan Anci Electronic Technology Co., Ltd.**

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TEST REPORT DESCRIPTION

Applicant : Shenzhen PYS Industrial Co., LTD
(1st to 12th floors)101-1201,Block 9, Lianhua Industry Zone,LongHua District, Shenzhen city

Manufacturer 1. : Shenzhen PYS Industrial Co., LTD
(1st to 12th floors)101-1201,Block 9, Lianhua Industry Zone,LongHua District, Shenzhen city

Manufacturer 2. : PYS VIETNAM TECHNOLOGY COMPANY LIMITED
Lot CN-06,THUAN THANH II INDUSTRIAL ZONE, MAO DIEN COMMUNE, THUAN THANH DISTRICT, BACNINH, VIETNAM

Trade Mark : Verizon, Elixage

EUT : Dual 10 Watt Two Coil Wireless Charger

Model No. : WCDUAL10WWGGL-AL, 60-4643-05-XP, 60-4642-05-XP

Power Supply : DC 15V, 3A from adapter

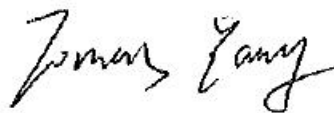
Measurement Procedure Used:

FCC Rules and Regulations Part 18 Subpart C
MP-5: 1986

The device described above is tested by Dong Guan Anci Electronic Technology Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Dong Guan Anci Electronic Technology Co., Ltd. is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Dong Guan Anci Electronic Technology Co., Ltd.

Date of Test : Mar. 03, 2020 to Mar. 06, 2020

Prepared by : 
Tomas Yang/Supervisor

Approved & Authorized Signer : 
Alan He/Manager

Modified Information

Version	Report No.	Revision Data	Summary
Ver.1.0	EA2002072F 01001	/	Original Version

1. SUMMARY OF TEST RESULTS

EMISSION		
Description of Test Item	Standard & Limits	Results
Conducted Disturbance at Mains Terminals	FCC Part 18 Subpart C FCC OST MP-5: 2015	Pass
Radiated Disturbance	FCC Part 18 Subpart C FCC OST MP-5: 2015	Pass
Note: N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	: Dual 10 Watt Two Coil Wireless Charger
Model Number	: WCDUAL10WWGGL-AL, 60-4643-05-XP, 60-4642-05-XP Note: Except for the difference in appearance and color.
Test Number	: WCDUAL10WWGGL-AL
Test Voltage	: AC 120V 60Hz for Adapter
Adapter Information	: Model:580245A084 Input:100-240V~800mA,50/60Hz Output:DC 5V,3A, DC 9V, 3A ,DC 12V, 3A,DC 15V, 3A,DC 20V, 2.25A
Operating Frequency	: 110-205KHz
Modulation Technique	: ASK
Max Wireless output power	: 10W
Operation Mode	: Left Zone Wireless Charging(5W), Left Zone Wireless Charging(10W), Right Zone Wireless Charging(5W), Right Zone Wireless Charging(10W),
Antenna	: Two coil, only work one to one
Applicant	: Shenzhen PYS Industrial Co., LTD
Address	: (1st to 12th floors)101-1201,Block 9, Lianhua Industry Zone,LongHua District, Shenzhen city
Manufacturer 1.	: Shenzhen PYS Industrial Co., LTD
Address	: (1st to 12th floors)101-1201,Block 9, Lianhua Industry Zone,LongHua District, Shenzhen city
Manufacturer 2.	: PYS VIETNAM TECHNOLOGY COMPANY LIMITED
Address	: Lot CN-06,THUAN THANH II INDUSTRIAL ZONE, MAO DIEN COMMUNE, THUAN THANH DISTRICT, BACNINH, VIETNAM
Date of Received	: Mar. 03, 2020
Date of Test	: Mar. 03, 2020 to Mar. 06, 2020

2.2. Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
0	Power Input Port	I/O	--	--	1 Port

* Note: Use abbreviations:

AC= AC Power Port

DC= DC Power Port

N/E= Non-Electrical

I/O= Signal Input or Output Port (Not Involved in Process Control)

TP= Telecommunication Ports

2.3. Independent Operation Modes

Wireless Charging

2.4. Test Manner

Test Items	Test Voltage	Operation Modes	Worst case
Conducted Emission	AC120V/60Hz	Wireless Charging	N/A
Radiated Emission	AC120V/60Hz	Wireless Charging	N/A

2.5. Description of Test Facility

Site Description

EMC Lab.

: Accredited by CNAS, 2017.06.26

The certificate is valid until 2022.10.28

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)

The Certificate Registration Number is L0468.

Accredited by A2LA, 2018.03.15

The Certificate Number is 4422.01.

Name of Firm

: Dong Guan Anci Electronic Technology Co., Ltd.

Site Location

: Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China.

2.6. Test Software

Item	Software
Conducted Disturbance at : Mains Terminals	EZ-EMC Ver:ANCI-3A1
Radiated Disturbance	: EZ-EMC Ver:ANCI-3A1

2.7. Description of Support Device

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1.	iPhone	Apple Inc.	A1387	N/A	N/A
2.	Adapter	N/A	580245A087	N/A	N/A
3.	Wireless Charging Receiver Module	Universal	N/A	N/A	N/A
4.	SAMSUNG S9	SAMSUNG	Samsung Galaxy S9	N/A	N/A

2.8. Measurement Uncertainty

Test Item	Uncertainty
Conducted Emission Uncertainty	: 2.96dB(9k~150kHz Conduction 1#) 2.74dB(150k-30MHz Conduction 1#)
Radiated Emission Uncertainty (3m Chamber)	: 3.78dB (30M~1GHz Polarize: H) 4.27dB (30M~1GHz Polarize: V)

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Power Line Conducted Emission Measurement

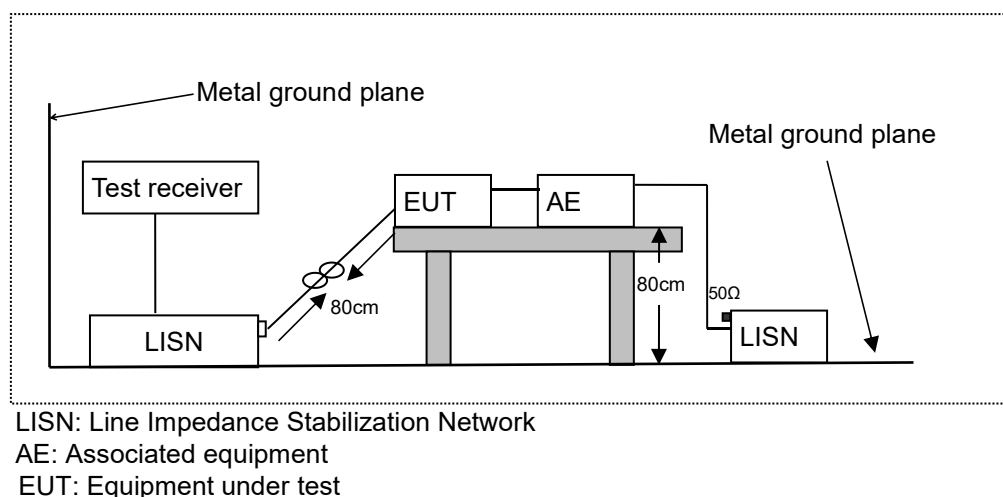
Item	EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Calibrated until
1.	L.I.S.N	SCHWARZBECK	NSLK 8127	8127-669	2020-05-19
2.	10 db attenuator	JFW	50FP-010-H4	4360846-427-1	2020-05-19
3.	RF Cable	N/A	N/A	2#	2020-05-19
4.	EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2020-05-19

3.2. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
5.	EMI Test Receiver	Rohde & Schwarz	ESPI	100502	2020-11-29
6.	Pre-Amplifier	HP	8447D	2727A06172	2020-05-19
7.	Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-588	2020-05-19
8.	Loop Antenna	Schwarzbeck	FMZB 1516	1516-141	2020-05-19
9.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-2m	N/A	2020-03-12
10.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-0.3m	N/A	2020-03-12
11.	RF Cable	N/A	N/A	6#	2020-05-19
12.	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2020-05-19
13.	Test Software	Farad	EZ-EMC Ver:ANCI-3A1	N/A	N/A

4. POWER LINE CONDUCTED EMISSION MEASUREMENT

4.1. Block Diagram of Test Setup



4.2. Measuring Standard

FCC Part 18 and MP-5

4.3. Power Line Conducted Emission Limits

☒ All induction cooking ranges and ultrasonic equipment:

Frequency range (MHz)	Limit dB(uV)	
	Quasi-peak	Average
0.09-0.05	110	---
0.05-0.15	90-80*	---
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Remark: * Decreases with the logarithm of the frequency.
 In the above table, the tighter limit applies at the band edges.

■ All other part 18 consumer devices:

Frequency range (MHz)	Limit dB(uV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Remark: * Decreases with the logarithm of the frequency.
In the above table, the tighter limit applies at the band edges.

☒ RF lighting devices:

Frequency range (MHz)	Maximum RF line voltage measured with a 50 uH/50 ohm LISN(uV)
0.45-1.6	1000
1.6-30	3000
Consumer equipment	
0.45-2.51	250
2.51-3.0	3000
3.0-30	250

4.4. EUT Configuration on Measurement

The following equipments are installed on Conducted Emission Measurement to meet FCC requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

EUT : Dual 10 Watt Two Coil Wireless Charger
Model Number : WCDUAL10WWGGL-AL

4.5. Operating Condition of EUT

4.5.1. Setup the EUT as shown on Section 4.1.

4.5.2. Turn on the power of all equipment.

4.5.3. Let the EUT work in measuring mode (Wireless Charging) and measure it.

4.6. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the FCC regulations during conducted emission measurement.

The bandwidth of the Test Receiver is set at 9kHz in 150kHz~30MHz and 200Hz in 9kHz~150kHz.

The frequency range from 9kHz to 30MHz is investigated.

Test results were obtained from the following equation:

Emission Level (dBμV) = LISN Factor (dB) + Cable Loss (dB) + Reading (dBμV)

Margin (dB) = Emission Level (dBμV) - Limit (dBμV)

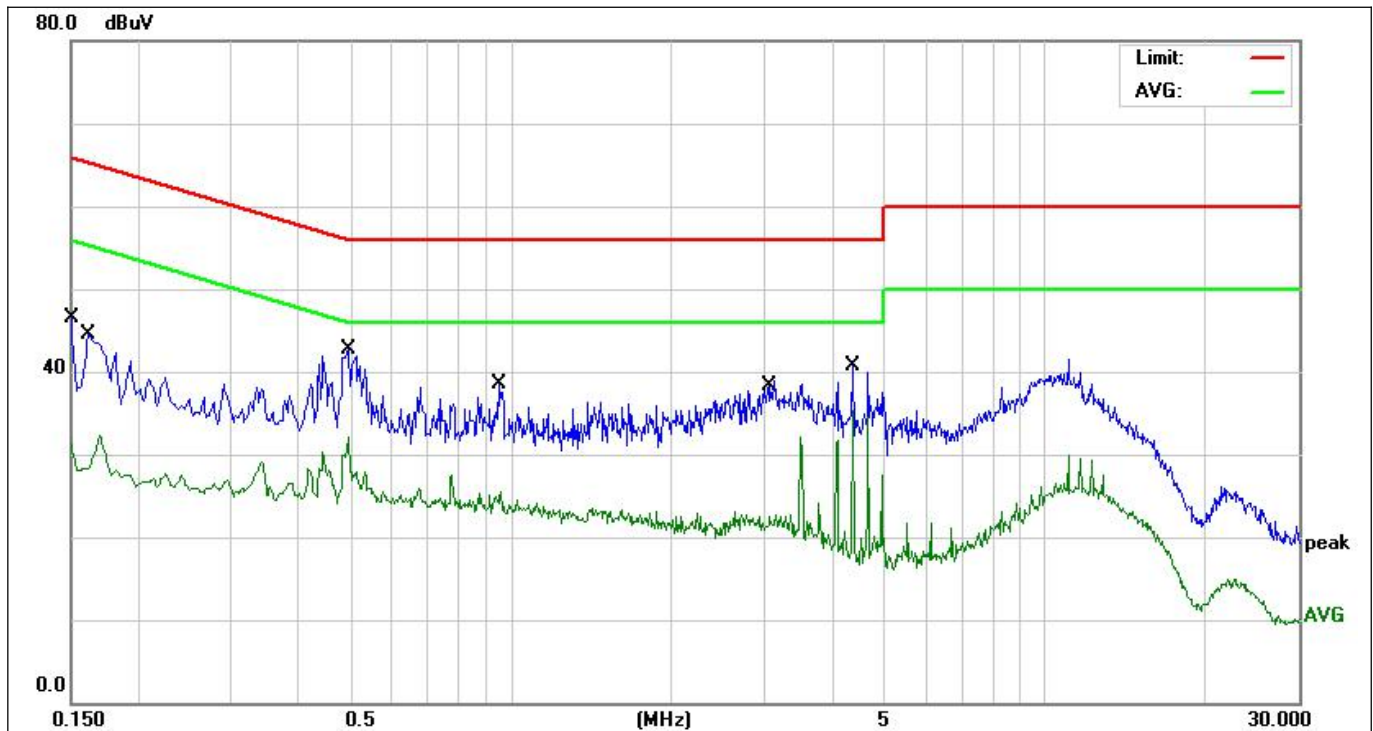
All the scanning waveform is put in the following pages.

4.7. Measuring Results

Pass.

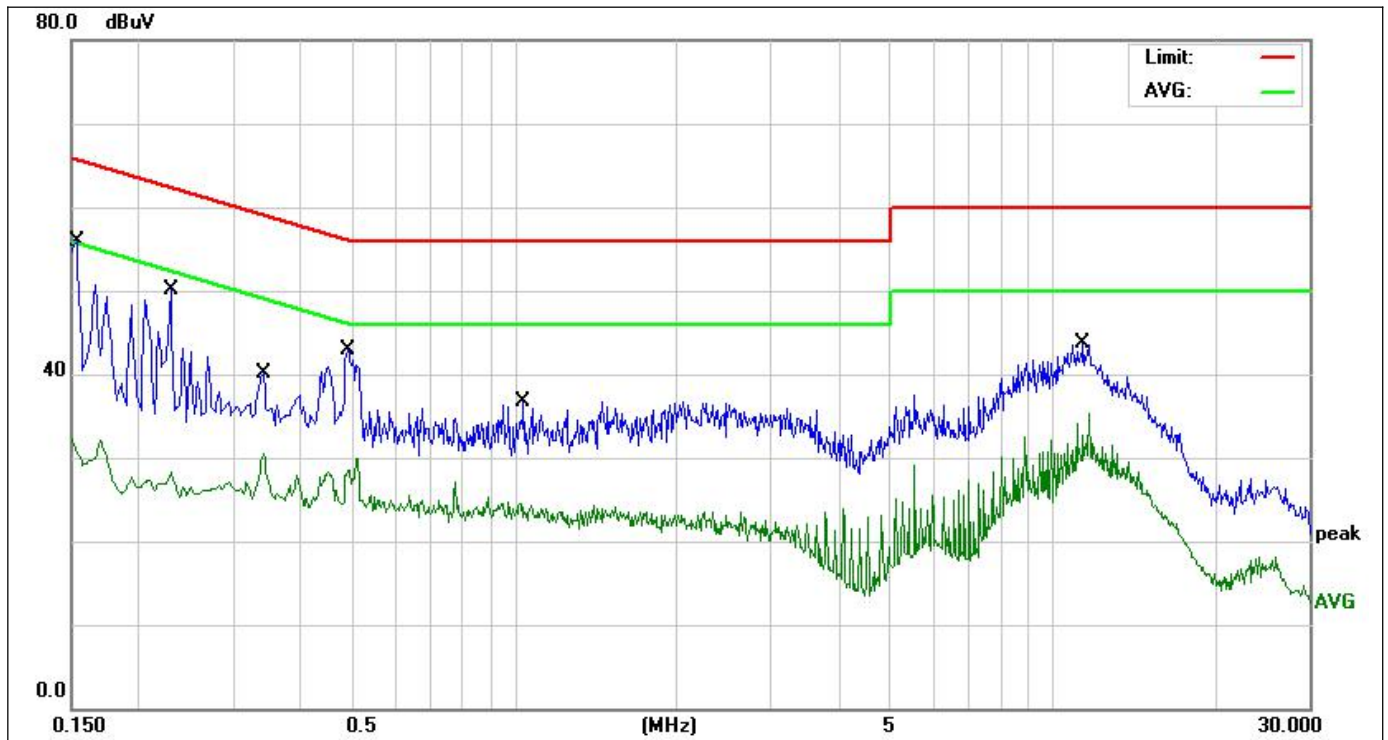
Please refer to following pages.

Left Zone Wireless Charging(5W):



Site:	843	Phase:	L1	Temperature(C):	26(C)
Limit:	FCC Part 18 C Conduction(QP)	Test Time:		Humidity(%):	60%
EUT:	Dual 10 Watt Two Coil Wireless Charger	Power Rating:	AC 120V/60Hz		
M/N.:	WCDUAL10WWGGL-AL	Test Engineer:	Jack		
Mode:	Wireless Charging 5W				
Note:					

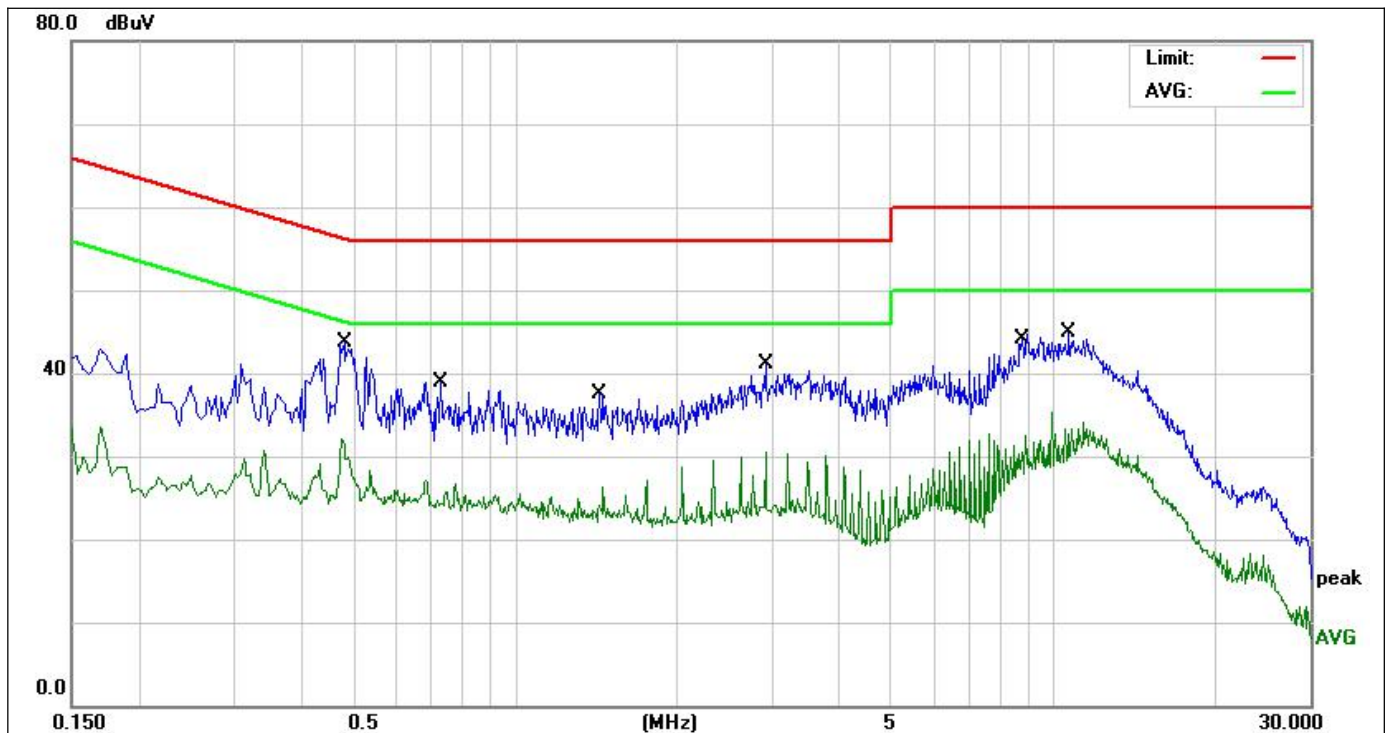
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1500	27.29	9.72	37.01	65.99	-28.98	QP	
2	0.1500	19.24	9.72	28.96	55.99	-27.03	AVG	
3	0.1620	25.98	9.74	35.72	65.36	-29.64	QP	
4	0.1620	18.66	9.74	28.40	55.36	-26.96	AVG	
5 *	0.4980	29.64	9.78	39.42	56.03	-16.61	QP	
6	0.4980	19.29	9.78	29.07	46.03	-16.96	AVG	
7	0.9500	18.95	9.80	28.75	56.00	-27.25	QP	
8	0.9500	13.57	9.80	23.37	46.00	-22.63	AVG	
9	3.0300	18.05	9.94	27.99	56.00	-28.01	QP	
10	3.0300	7.53	9.94	17.47	46.00	-28.53	AVG	
11	4.3859	16.78	9.89	26.67	56.00	-29.33	QP	
12	4.3859	5.96	9.89	15.85	46.00	-30.15	AVG	



Site:	843	Phase:	N	Temperature(C):	26(C)
Limit:	FCC Part 18 C Conduction(QP)	Test Time:		Humidity(%):	60%
EUT:	Dual 10 Watt Two Coil Wireless Charger	Power Rating:	AC 120V/60Hz		
M/N.:	WCDUAL10WWGGL-AL	Test Engineer:	Jack		
Mode:	Wireless Charging 5W				
Note:					

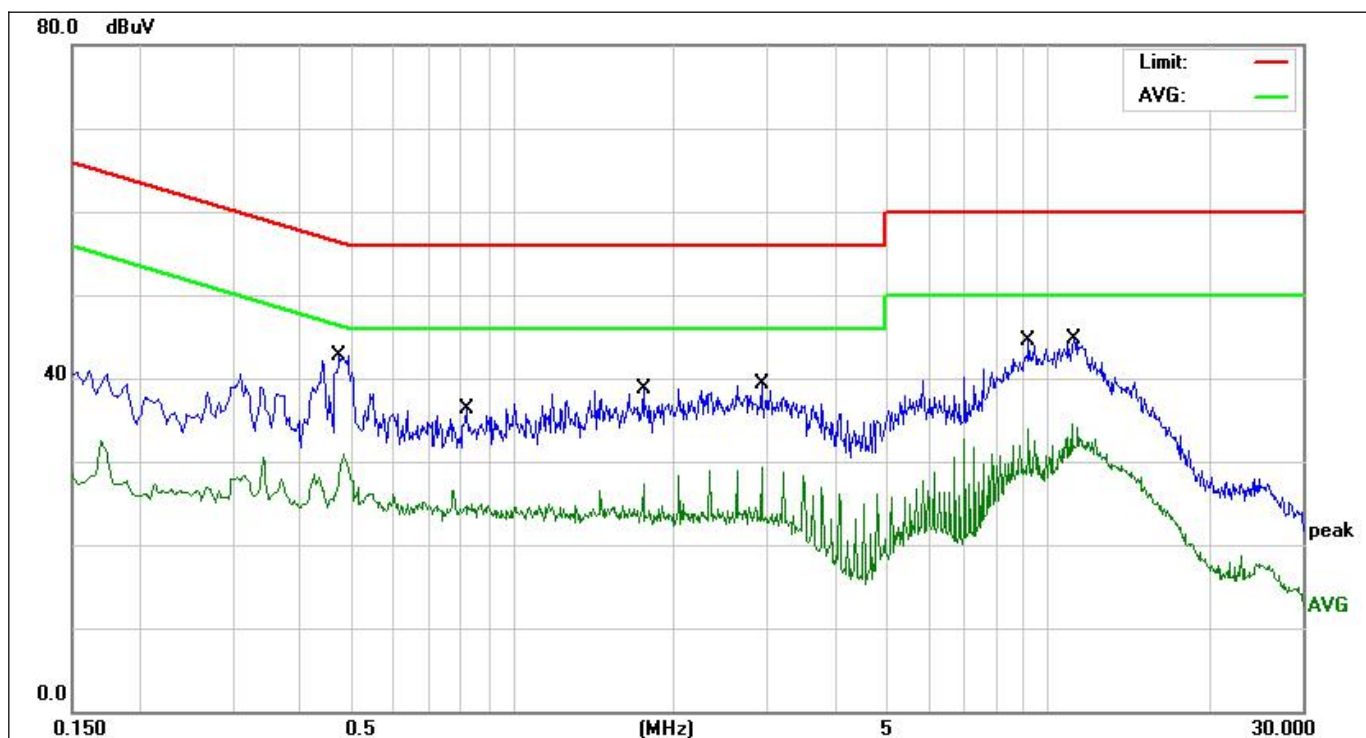
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1539	26.32	9.72	36.04	65.78	-29.74	QP	
2	0.1539	18.65	9.72	28.37	55.78	-27.41	AVG	
3	0.2300	22.73	9.79	32.52	62.45	-29.93	QP	
4	0.2300	16.76	9.79	26.55	52.45	-25.90	AVG	
5	0.3420	25.90	9.80	35.70	59.15	-23.45	QP	
6	0.3420	19.59	9.80	29.39	49.15	-19.76	AVG	
7	0.4900	29.42	9.78	39.20	56.17	-16.97	QP	
8 *	0.4900	20.49	9.78	30.27	46.17	-15.90	AVG	
9	1.0420	19.00	9.79	28.79	56.00	-27.21	QP	
10	1.0420	13.37	9.79	23.16	46.00	-22.84	AVG	
11	11.3979	28.94	10.01	38.95	60.00	-21.05	QP	
12	11.3979	22.74	10.01	32.75	50.00	-17.25	AVG	

Left Zone Wireless Charging(10W):



Site:	843	Phase:	L1	Temperature(C):	26(C)
Limit:	FCC Part 18 C Conduction(QP)	Test Time:		Humidity(%):	60%
EUT:	Dual 10 Watt Two Coil Wireless Charger	Power Rating:	AC 120V/60Hz		
M/N.:	WCDUAL10WWGGL-AL	Test Engineer:	Jack		
Mode:	Wireless Charging 10W				
Note:					

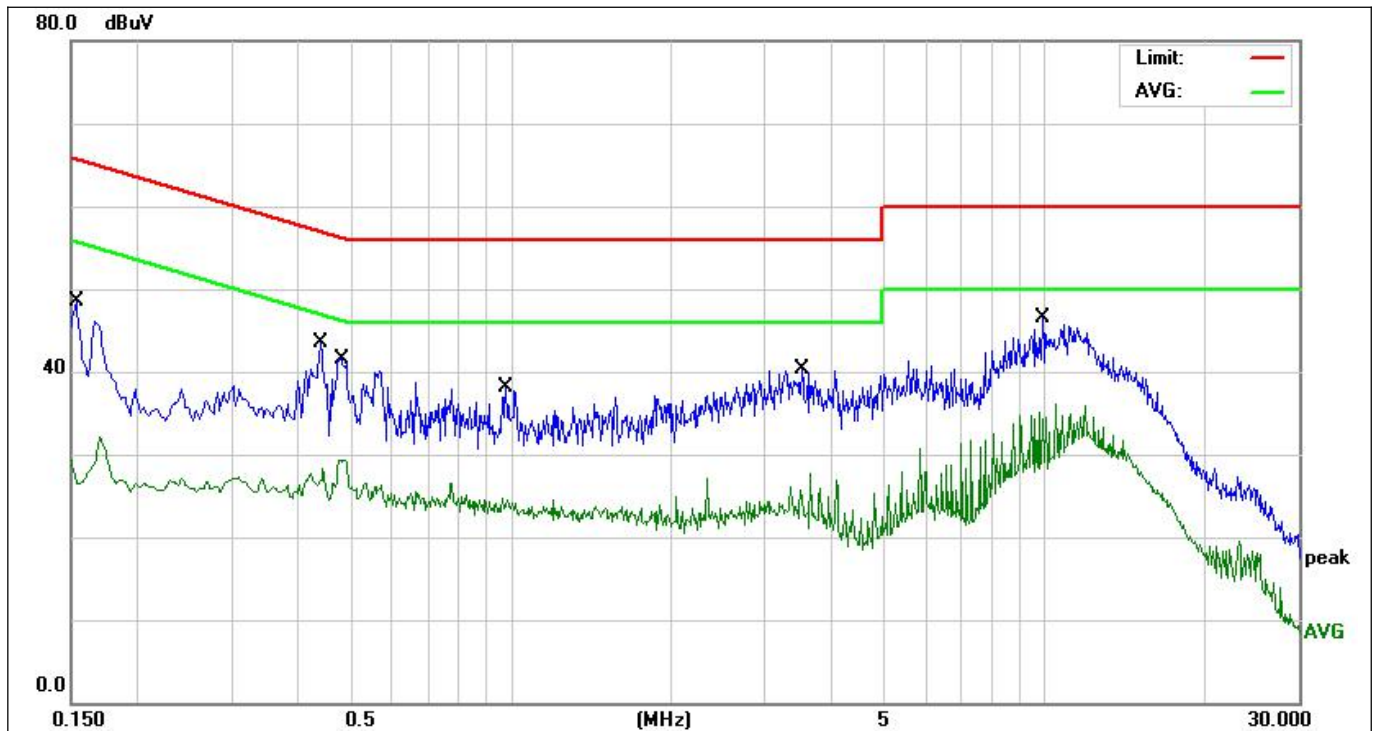
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.4786	29.87	9.78	39.65	56.36	-16.71	QP	
2 *	0.4786	20.64	9.78	30.42	46.36	-15.94	AVG	
3	0.7300	20.44	9.82	30.26	56.00	-25.74	QP	
4	0.7300	14.56	9.82	24.38	46.00	-21.62	AVG	
5	1.4380	19.65	9.83	29.48	56.00	-26.52	QP	
6	1.4380	13.23	9.83	23.06	46.00	-22.94	AVG	
7	2.9219	25.66	9.94	35.60	56.00	-20.40	QP	
8	2.9219	19.75	9.94	29.69	46.00	-16.31	AVG	
9	8.7700	27.63	9.94	37.57	60.00	-22.43	QP	
10	8.7700	19.38	9.94	29.32	50.00	-20.68	AVG	
11	10.7260	27.09	9.99	37.08	60.00	-22.92	QP	
12	10.7260	18.95	9.99	28.94	50.00	-21.06	AVG	



Site:	843	Phase:	N	Temperature(C):	26(C)
Limit:	FCC Part 18 C Conduction(QP)	Test Time:		Humidity(%):	60%
EUT:	Dual 10 Watt Two Coil Wireless Charger	Power Rating:	AC 120V/60Hz		
M/N.:	WCDUAL10WWGGL-AL	Test Engineer:	Jack		
Mode:	Wireless Charging 10W				
Note:					

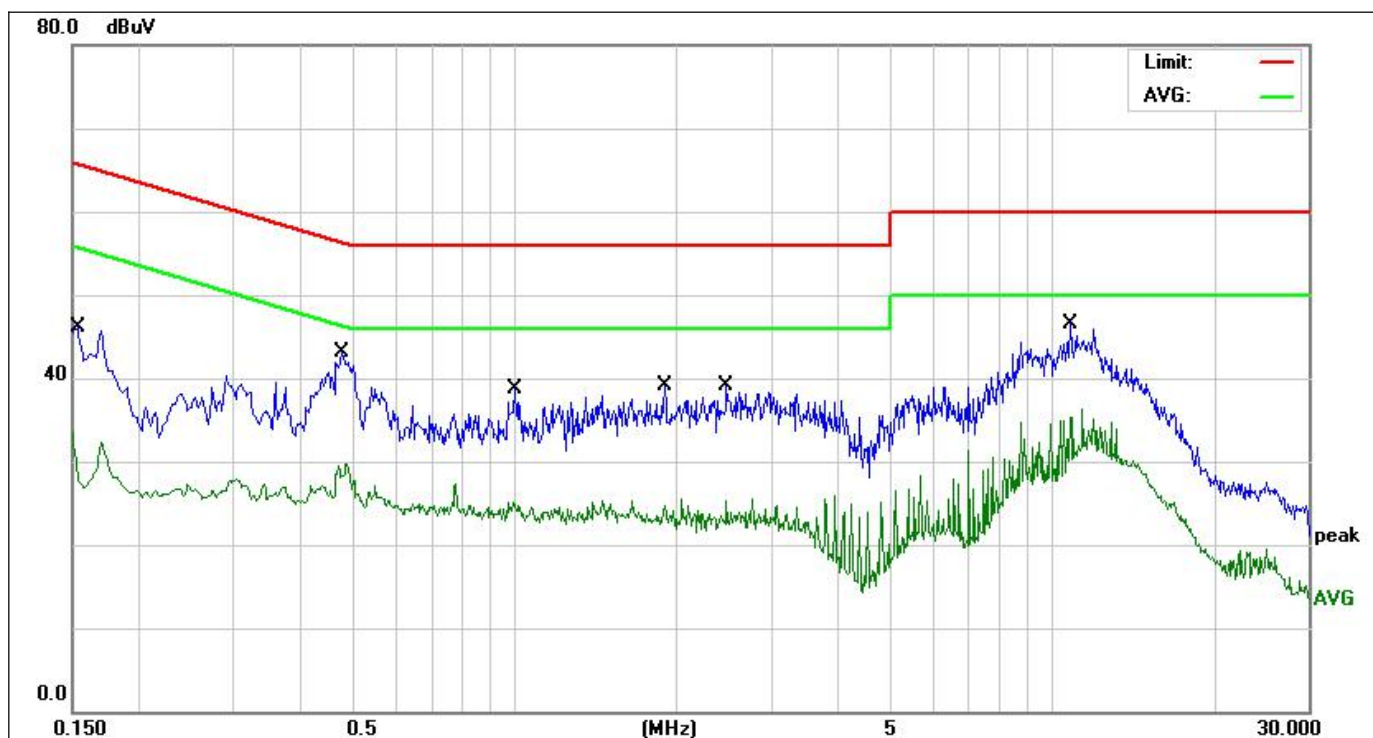
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.4786	29.96	9.78	39.74	56.36	-16.62	QP	
2 *	0.4786	20.87	9.78	30.65	46.36	-15.71	AVG	
3	0.8180	20.43	9.82	30.25	56.00	-25.75	QP	
4	0.8180	14.28	9.82	24.10	46.00	-21.90	AVG	
5	1.7540	23.13	9.85	32.98	56.00	-23.02	QP	
6	1.7540	17.19	9.85	27.04	46.00	-18.96	AVG	
7	2.9219	25.02	9.94	34.96	56.00	-21.04	QP	
8	2.9219	19.04	9.94	28.98	46.00	-17.02	AVG	
9	9.2060	29.42	9.95	39.37	60.00	-20.63	QP	
10	9.2060	21.85	9.95	31.80	50.00	-18.20	AVG	
11	11.2540	28.96	10.01	38.97	60.00	-21.03	QP	
12	11.2540	22.10	10.01	32.11	50.00	-17.89	AVG	

Right Zone Wireless Charging(5W):



Site:	843	Phase:	L1	Temperature(C):	26(C)
Limit:	FCC Part 18 C Conduction(QP)	Test Time:		Humidity(%):	60%
EUT:	Dual 10 Watt Two Coil Wireless Charger	Power Rating:	AC 120V/60Hz		
M/N.:	WCDUAL10WWGGL-AL	Test Engineer:	Jack		
Mode:	Wireless Charging 5W				
Note:					

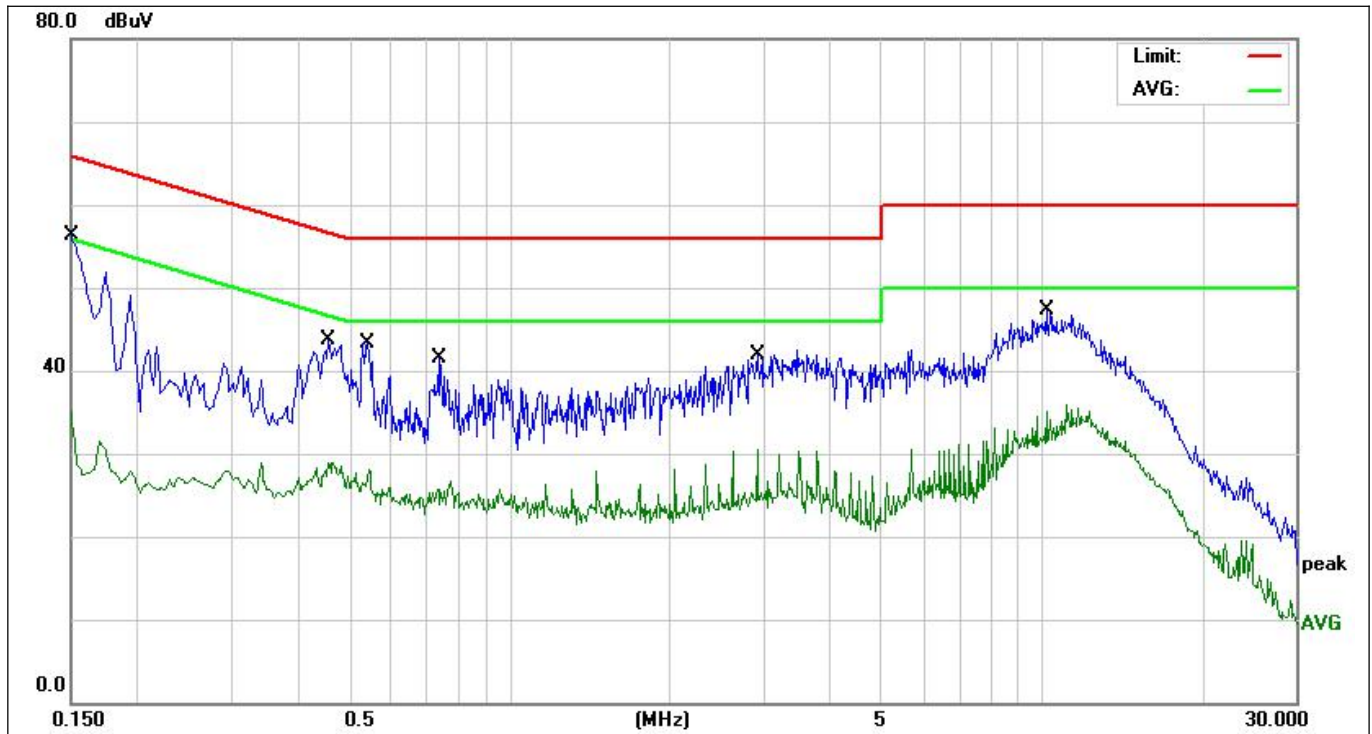
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1539	27.52	9.72	37.24	65.78	-28.54	QP	
2	0.1539	16.73	9.72	26.45	55.78	-29.33	AVG	
3	0.4420	27.70	9.80	37.50	57.02	-19.52	QP	
4	0.4420	17.22	9.80	27.02	47.02	-20.00	AVG	
5	0.4820	28.74	9.78	38.52	56.30	-17.78	QP	
6	0.4820	18.93	9.78	28.71	46.30	-17.59	AVG	
7	0.9820	22.28	9.79	32.07	56.00	-23.93	QP	
8	0.9820	14.84	9.79	24.63	46.00	-21.37	AVG	
9	3.5100	22.85	9.92	32.77	56.00	-23.23	QP	
10	3.5100	13.90	9.92	23.82	46.00	-22.18	AVG	
11	9.9379	29.92	9.98	39.90	60.00	-20.10	QP	
12 *	9.9379	22.48	9.98	32.46	50.00	-17.54	AVG	



Site:	843	Phase:	N	Temperature(C):	26(C)
Limit:	FCC Part 18 C Conduction(QP)	Test Time:		Humidity(%):	60%
EUT:	Dual 10 Watt Two Coil Wireless Charger	Power Rating:	AC 120V/60Hz		
M/N.:	WCDUAL10WWGGL-AL	Test Engineer:	Jack		
Mode:	Wireless Charging 5W				
Note:					

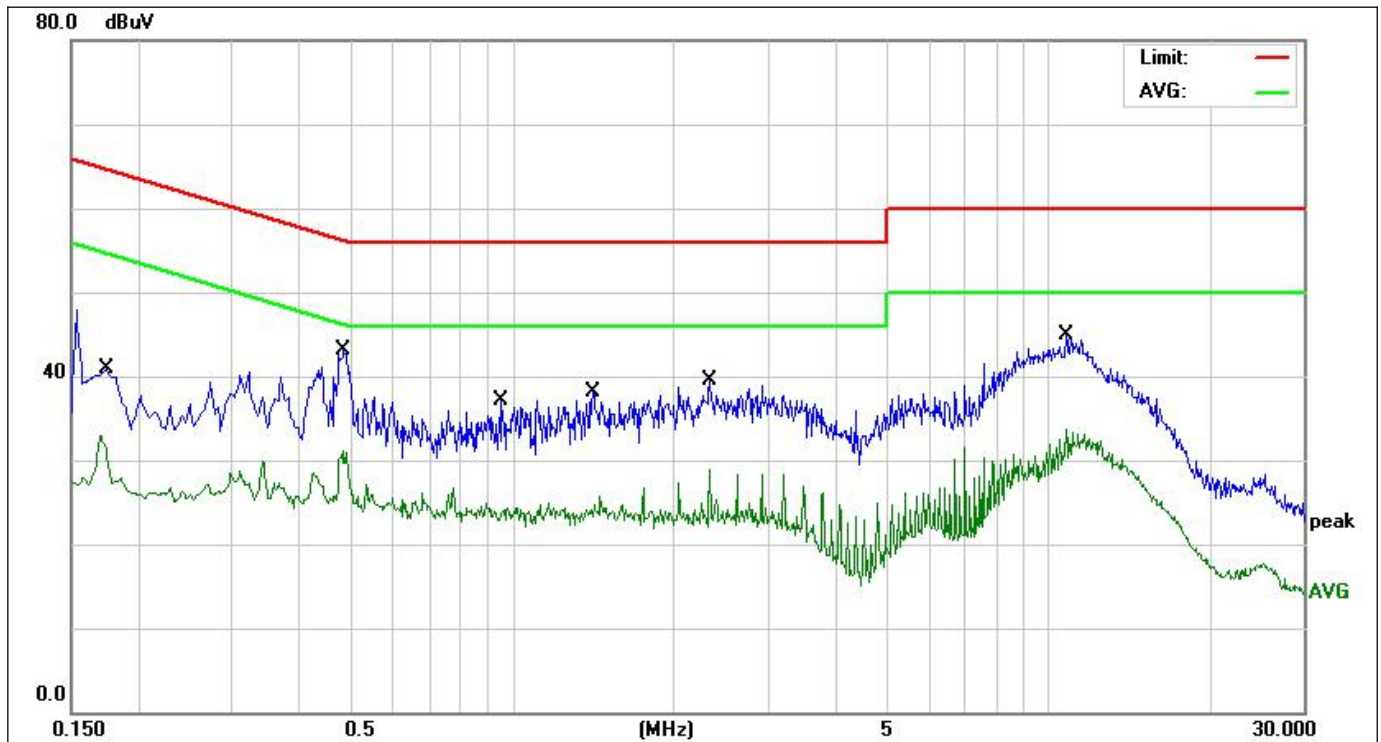
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1539	26.04	9.72	35.76	65.78	-30.02	QP	
2	0.1539	16.56	9.72	26.28	55.78	-29.50	AVG	
3	0.4780	28.38	9.78	38.16	56.37	-18.21	QP	
4	0.4780	18.83	9.78	28.61	46.37	-17.76	AVG	
5	1.0020	21.49	9.79	31.28	56.00	-24.72	QP	
6	1.0020	14.42	9.79	24.21	46.00	-21.79	AVG	
7	1.8980	21.58	9.87	31.45	56.00	-24.55	QP	
8	1.8980	14.03	9.87	23.90	46.00	-22.10	AVG	
9	2.4860	22.16	9.91	32.07	56.00	-23.93	QP	
10	2.4860	14.18	9.91	24.09	46.00	-21.91	AVG	
11	10.8139	30.15	9.99	40.14	60.00	-19.86	QP	
12 *	10.8139	22.80	9.99	32.79	50.00	-17.21	AVG	

Right Zone Wireless Charging(10W):



Site:	843	Phase:	L1	Temperature(C):	26(C)
Limit:	FCC Part 18 C Conduction(QP)	Test Time:		Humidity(%):	60%
EUT:	Dual 10 Watt Two Coil Wireless Charger	Power Rating:	AC 120V/60Hz		
M/N.:	WCDUAL10WWGGL-AL	Test Engineer:	Jack		
Mode:	Wireless Charging 10W				
Note:					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1500	36.41	9.72	46.13	65.99	-19.86	QP	
2	0.1500	22.80	9.72	32.52	55.99	-23.47	AVG	
3	0.4580	29.26	9.78	39.04	56.73	-17.69	QP	
4	0.4580	18.47	9.78	28.25	46.73	-18.48	AVG	
5 *	0.5420	29.62	9.79	39.41	56.00	-16.59	QP	
6	0.5420	17.49	9.79	27.28	46.00	-18.72	AVG	
7	0.7380	24.89	9.82	34.71	56.00	-21.29	QP	
8	0.7380	15.25	9.82	25.07	46.00	-20.93	AVG	
9	2.9380	24.55	9.94	34.49	56.00	-21.51	QP	
10	2.9380	14.07	9.94	24.01	46.00	-21.99	AVG	
11	10.2299	30.89	9.98	40.87	60.00	-19.13	QP	
12	10.2299	22.97	9.98	32.95	50.00	-17.05	AVG	

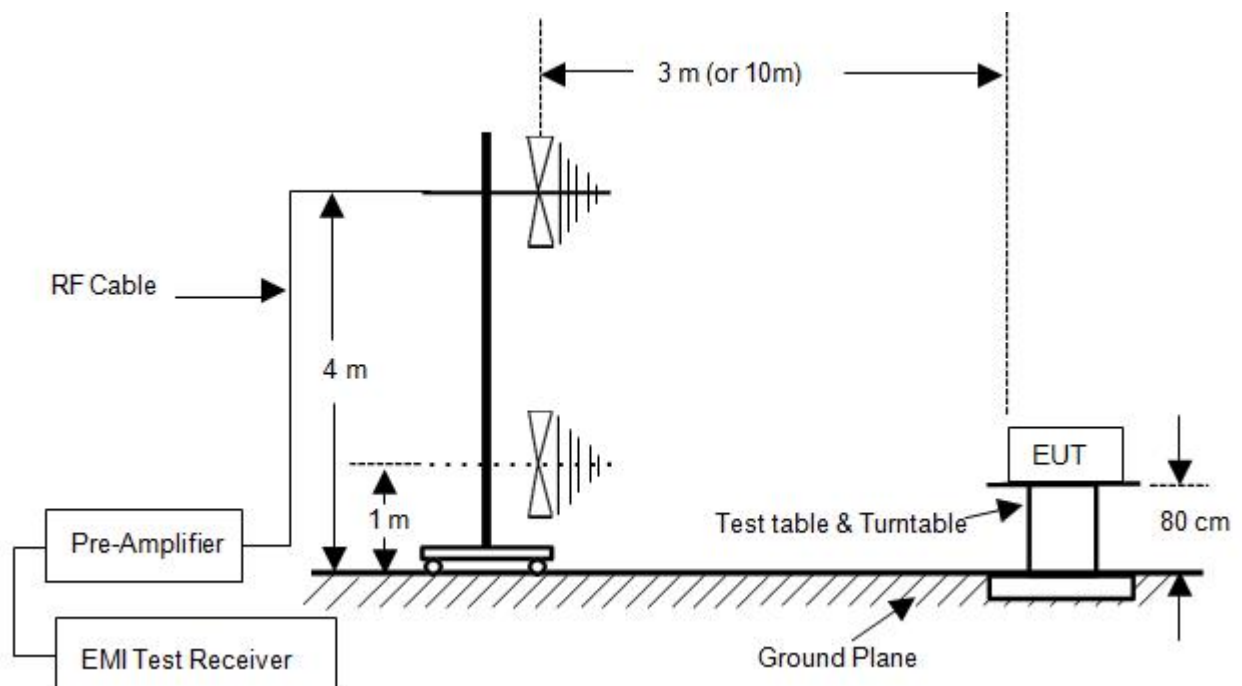
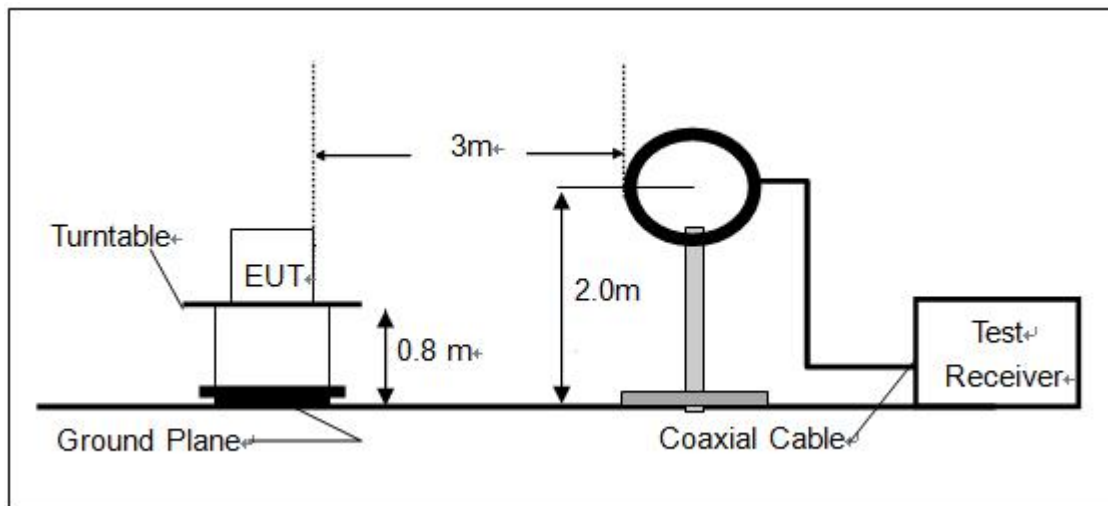


Site:	843	Phase:	N	Temperature(C):	26(C)
Limit:	FCC Part 18 C Conduction(QP)	Test Time:		Humidity(%):	60%
EUT:	Dual 10 Watt Two Coil Wireless Charger	Power Rating:	AC 120V/60Hz		
M/N.:	WCDUAL10WWGGL-AL	Test Engineer:	Jack		
Mode:	Wireless Charging 10W				
Note:					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1722	27.75	9.75	37.50	64.85	-27.35	QP	
2	0.1722	23.06	9.75	32.81	54.85	-22.04	AVG	
3	0.4860	30.25	9.78	40.03	56.24	-16.21	QP	
4 *	0.4860	20.85	9.78	30.63	46.24	-15.61	AVG	
5	0.9580	20.19	9.80	29.99	56.00	-26.01	QP	
6	0.9580	14.02	9.80	23.82	46.00	-22.18	AVG	
7	1.4180	21.53	9.83	31.36	56.00	-24.64	QP	
8	1.4180	13.93	9.83	23.76	46.00	-22.24	AVG	
9	2.3380	24.80	9.90	34.70	56.00	-21.30	QP	
10	2.3380	18.41	9.90	28.31	46.00	-17.69	AVG	
11	10.8139	30.04	9.99	40.03	60.00	-19.97	QP	
12	10.8139	22.99	9.99	32.98	50.00	-17.02	AVG	

5. RADIATED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup



5.2. Measuring frequency range

Frequency band in which device operates (MHz)	Range of frequency measurements	
	Lowest frequency	Highest frequency
Below 1.705	Lowest frequency generated in the device, but not lower than 9 kHz.	30 MHz.
1.705 to 30	Lowest frequency generated in the device, but not lower than 9 kHz.	400 MHz.
30 to 500	Lowest frequency generated in the device or 25 MHz, whichever is lower.	Tenth harmonic or 1,000 MHz, whichever is higher.
500 to 1,000	Lowest frequency generated in the device or 100 MHz, whichever is lower.	Tenth harmonic.
Above 1,000	do	Tenth harmonic or highest detectable emission.

Remark: 1. The operates frequency of Dual 10 Watt Two Coil Wireless Charger is more than 1.705MHz, so the test frequency range is 9KHz to 1000MHz.

5.3. Radiated Emission Limits

■ Table 1

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
■ Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 25 x SQRT (power/500)	300 (1)300
	Any NON-ISM frequency	Below 500 500 or more	15 15 x SQRT (power/500)	300 (1)300
☐ Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (2)	1600 (2)
☐ Medical diathermy	Any ISM frequency Any non- ISM frequency	Any Any	25 15	300 300
☐ Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) 2,400/F(kHz)x SQRT(power/500)	300 (3)300
	490 to 1,600 kHz Above 1,600 kHz	Any Any	2,400/F(kHz) 15	30 30
☐ Induction cooking ranges	Below 90 kHz On or above 90 kHz	Any Any	1,500 300	(4)30 (4)30

- (1) Field strength may not exceed 10 μ V/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.
- (2) Reduced to the greatest extent possible.
- (3) Field strength may not exceed 10 μ V/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.
- (4) Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

Note : The field strength limit and distance shown in the following Table 2 are the conversion of the requirement in Table 1.

☐ Table 2

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (dBuV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500	57.5	10

☐ The for RF lighting devices field strength limits

Frequency (MHz)	Field strength limit at 30 meters (μV/m)
Non-consumer equipment:	
30-88	30
88-216	50
216-1000	70
Consumer equipment:	
30-88	10
88-216	15
216-1000	20

Notes: The tighter limit shall apply at the boundary between two frequency ranges.

5.4. EUT Configuration on Measurement

The FCC Class B regulations test method must be used to find the maximum emission during radiated emission measurement.

EUT : Dual 10 Watt Two Coil Wireless Charger
Model Number : WCDUAL10WWGGL-AL

5.5. Operating Condition of EUT

5.5.1. Setup the EUT as shown on Section 5.1.

5.5.2. Turn on the power of all equipment.

5.5.3. Let the EUT work in measuring mode (Wireless Charging) and measure it.

5.6. Test Procedure

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 2 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

200Hz for measurements below 150 kHz

9 kHz for measurements from 150 kHz to 30MHz

100 kHz for measurements from 30MHz to 1000MHz

Emission Level (dBμV) = Antenna Factor (dB) + Cable Loss (dB) + Reading (dBμV)

Margin (dB) = Emission Level (dBμV) - Limit (dBμV)

The worst scanning curves are attached in following pages.

5.7. Measuring Results

PASS.

The frequency range from 9KHz to 1000MHz is investigated.

Peak for pre-scan, Average for the final result.

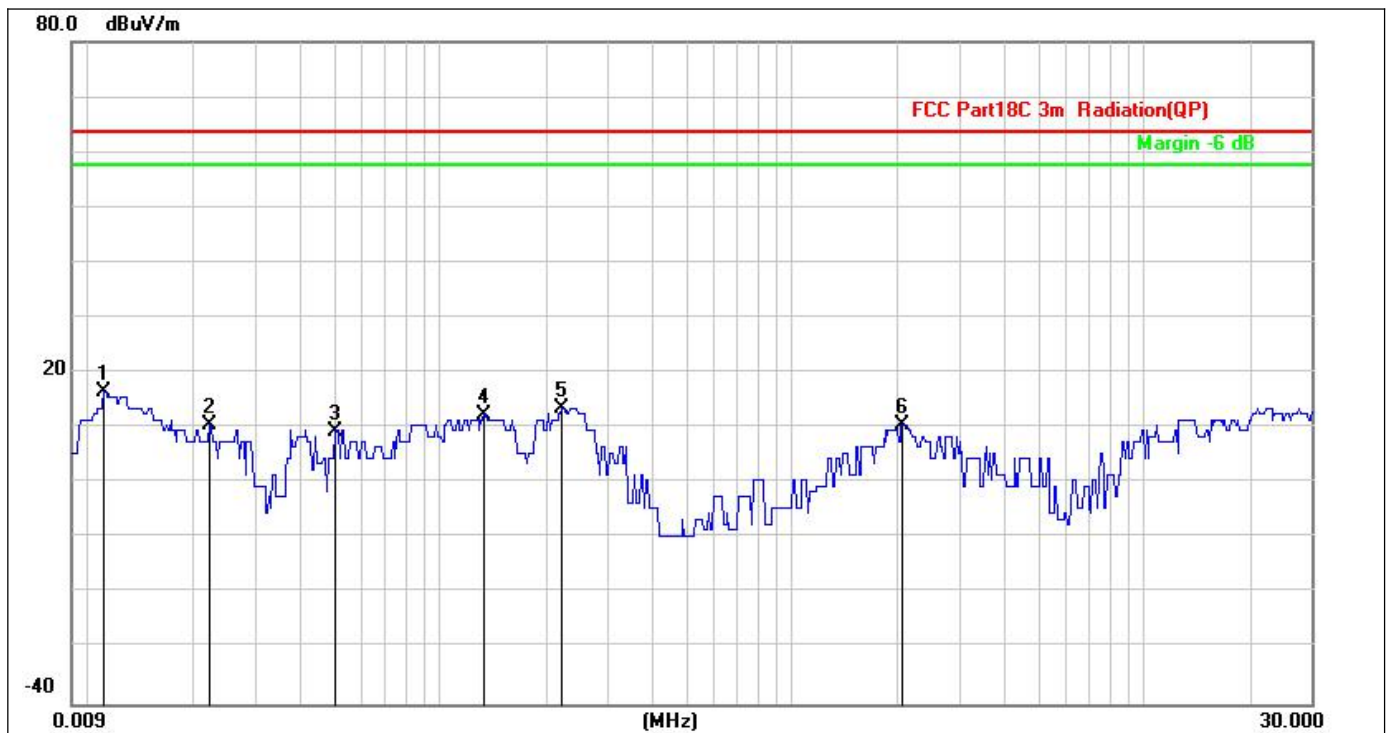
Please refer to following pages.

Test mode: Left Zone Wireless Charging(5W)



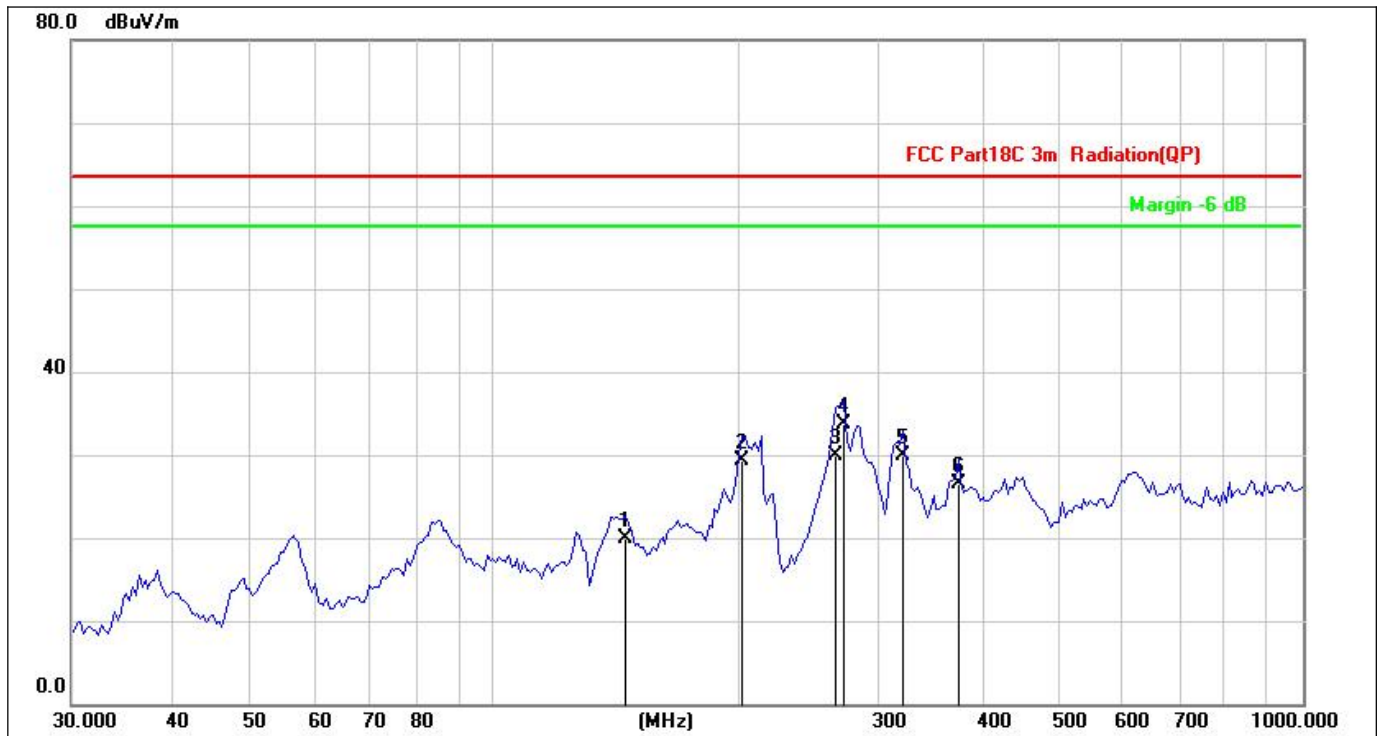
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Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger		2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 5W	Test Engineer:	sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 *	0.0103	-6.45	20.95	14.50	63.50	-49.00	QP			
2	0.0158	-11.16	20.66	9.50	63.50	-54.00	QP			
3	0.0586	-9.60	22.10	12.50	63.50	-51.00	QP			
4	0.2328	19.47	-8.97	10.50	63.50	-53.00	QP			
5	0.8118	16.92	-7.42	9.50	63.50	-54.00	QP			
6	1.6177	19.55	-7.05	12.50	63.50	-51.00	QP			



Site:	LAB	Antenna::Vertical	Temperature(C):24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger		2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 5W	Test Engineer:	sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 *	0.0111	-4.41	20.91	16.50	63.50	-47.00	QP			
2	0.0221	-10.06	20.56	10.50	63.50	-53.00	QP			
3	0.0502	-12.74	22.24	9.50	63.50	-54.00	QP			
4	0.1330	21.08	-8.58	12.50	63.50	-51.00	QP			
5	0.2217	22.43	-8.93	13.50	63.50	-50.00	QP			
6	2.0467	17.41	-6.91	10.50	63.50	-53.00	QP			



Site:	LAB	Antenna::Horizontal	Temperature(C):24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger		2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 5W	Test Engineer:	sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	145.3506	39.65	-19.83	19.82	63.50	-43.68	QP			
2	202.8104	46.33	-17.06	29.27	63.50	-34.23	QP			
3	261.5164	44.68	-14.80	29.88	63.50	-33.62	QP			
4 *	270.8493	48.13	-14.44	33.69	63.50	-29.81	QP			
5	319.9370	43.41	-13.55	29.86	63.50	-33.64	QP			
6	374.6225	38.52	-11.99	26.53	63.50	-36.97	QP			



Site:	LAB	Antenna::Vertical	Temperature(C):24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)		Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger	Test Time:	2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 5W	Test Engineer:	sunshine
Note:			

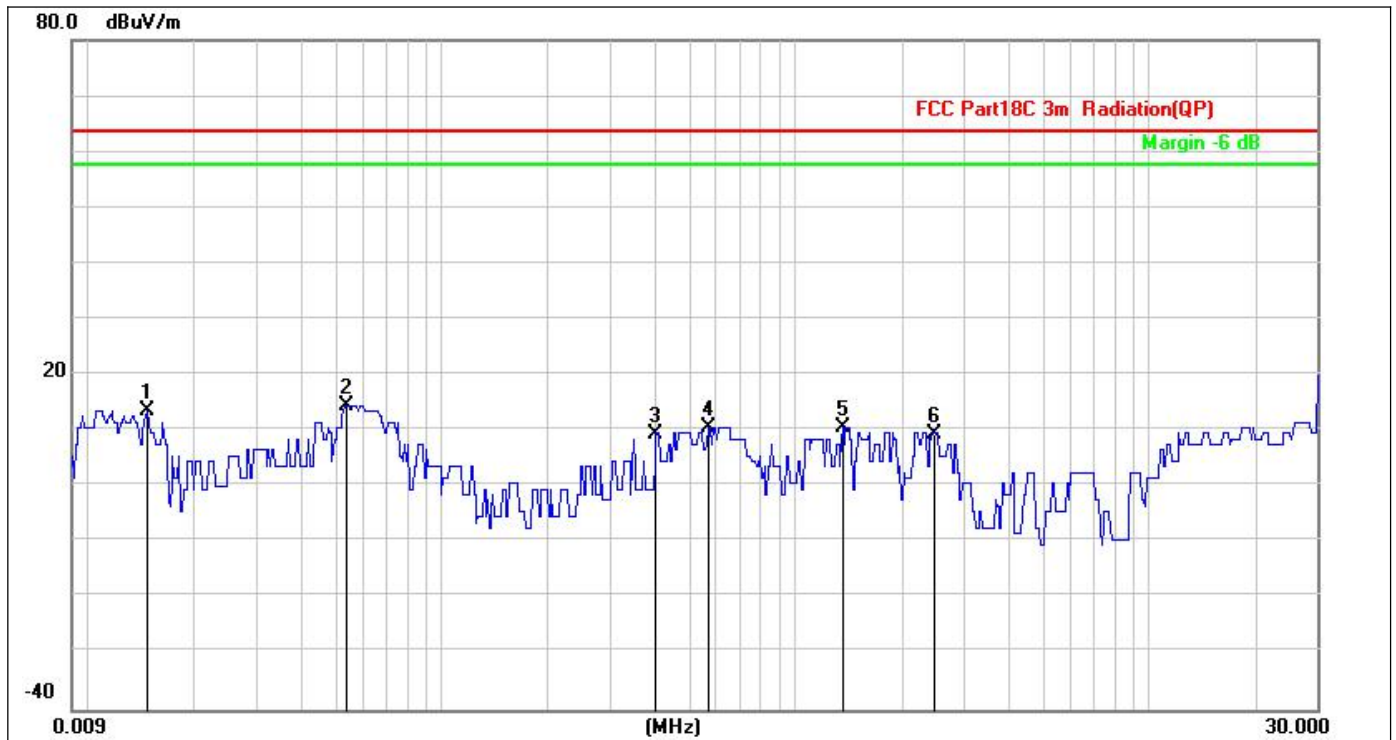
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	37.6798	49.56	-17.29	32.27	63.50	-31.23	QP			
2 *	56.3948	50.81	-15.94	34.87	63.50	-28.63	QP			
3	126.3286	50.64	-18.75	31.89	63.50	-31.61	QP			
4	141.5777	52.69	-19.94	32.75	63.50	-30.75	QP			
5	202.8104	45.99	-17.06	28.93	63.50	-34.57	QP			
6	266.1419	43.98	-14.62	29.36	63.50	-34.14	QP			

Test mode:Left Zone Wireless Charging(10W)



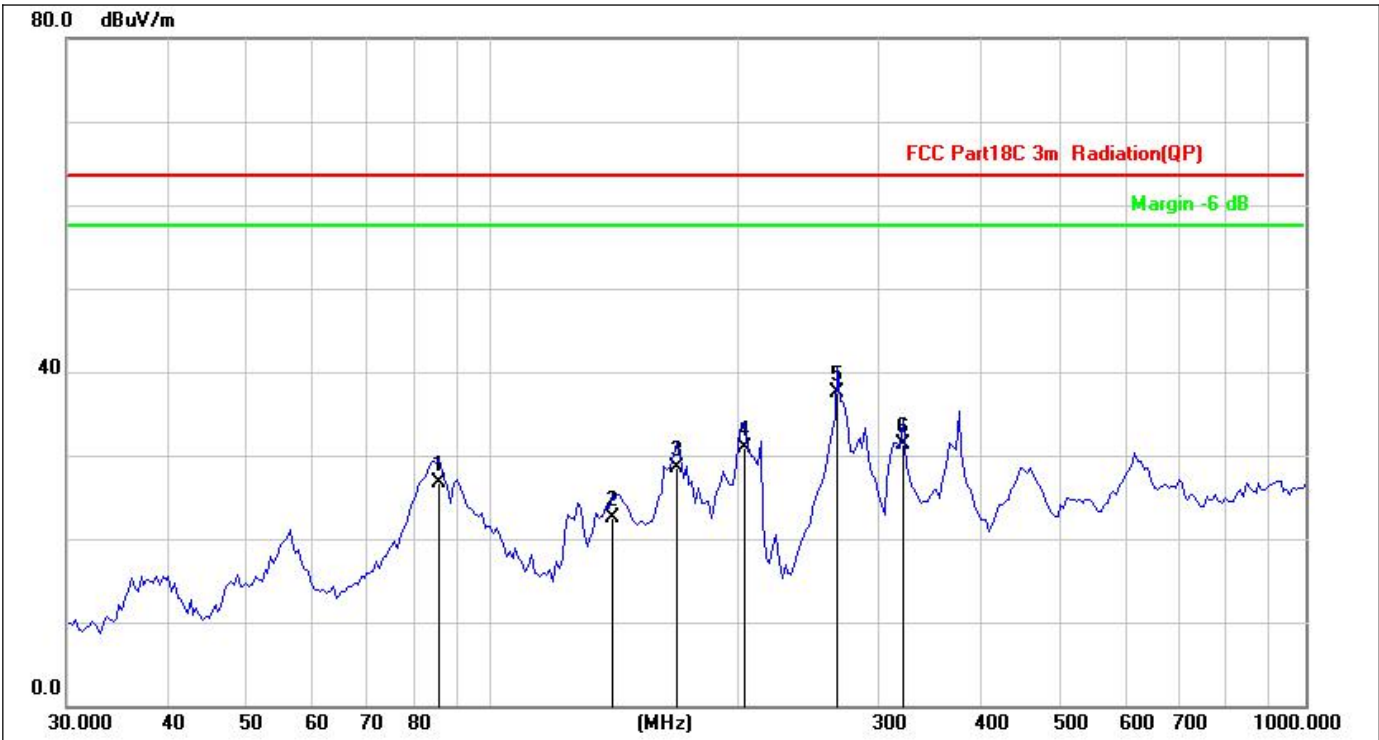
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Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger		2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 10W	Test Engineer:	sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	0.0176	-8.06	20.56	12.50	63.50	-51.00	QP			
2	0.0916	-7.34	21.84	14.50	63.50	-49.00	QP			
3	0.1931	19.32	-8.82	10.50	63.50	-53.00	QP			
4 *	2.5272	23.39	-6.89	16.50	63.50	-47.00	QP			
5	4.9550	22.62	-6.12	16.50	63.50	-47.00	QP			
6	7.9964	19.54	-6.04	13.50	63.50	-50.00	QP			



Site:	LAB	Antenna::	Vertical	Temperature(C):	24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)	Test Time:		Humidity(%):	53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger	Power Rating:		2020/03/04	
M/N.:	WCDUAL10WWGGL-AL	Test Engineer:		AC 120V/60Hz	
Mode:	Wireless Charging 10W			sunshine	
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	0.0146	-7.22	20.72	13.50	63.50	-50.00	QP			
2 *	0.0532	-7.69	22.19	14.50	63.50	-49.00	QP			
3	0.4041	18.06	-8.56	9.50	63.50	-54.00	QP			
4	0.5681	18.58	-8.08	10.50	63.50	-53.00	QP			
5	1.3643	17.66	-7.16	10.50	63.50	-53.00	QP			
6	2.4465	16.39	-6.89	9.50	63.50	-54.00	QP			



Site:	LAB	Antenna::Horizontal	Temperature(C):24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger		2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 10W	Test Engineer:	sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	85.8984	45.74	-18.99	26.75	63.50	-36.75	QP			
2	140.3421	42.53	-19.97	22.56	63.50	-40.94	QP			
3	168.7093	47.20	-18.61	28.59	63.50	-34.91	QP			
4	204.5961	47.88	-16.97	30.91	63.50	-32.59	QP			
5 *	266.1419	52.14	-14.62	37.52	63.50	-25.98	QP			
6	319.9370	44.80	-13.55	31.25	63.50	-32.25	QP			



Site:	LAB	Antenna::Vertical	Temperature(C):24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger		2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 10W	Test Engineer:	sunshine
Note:			

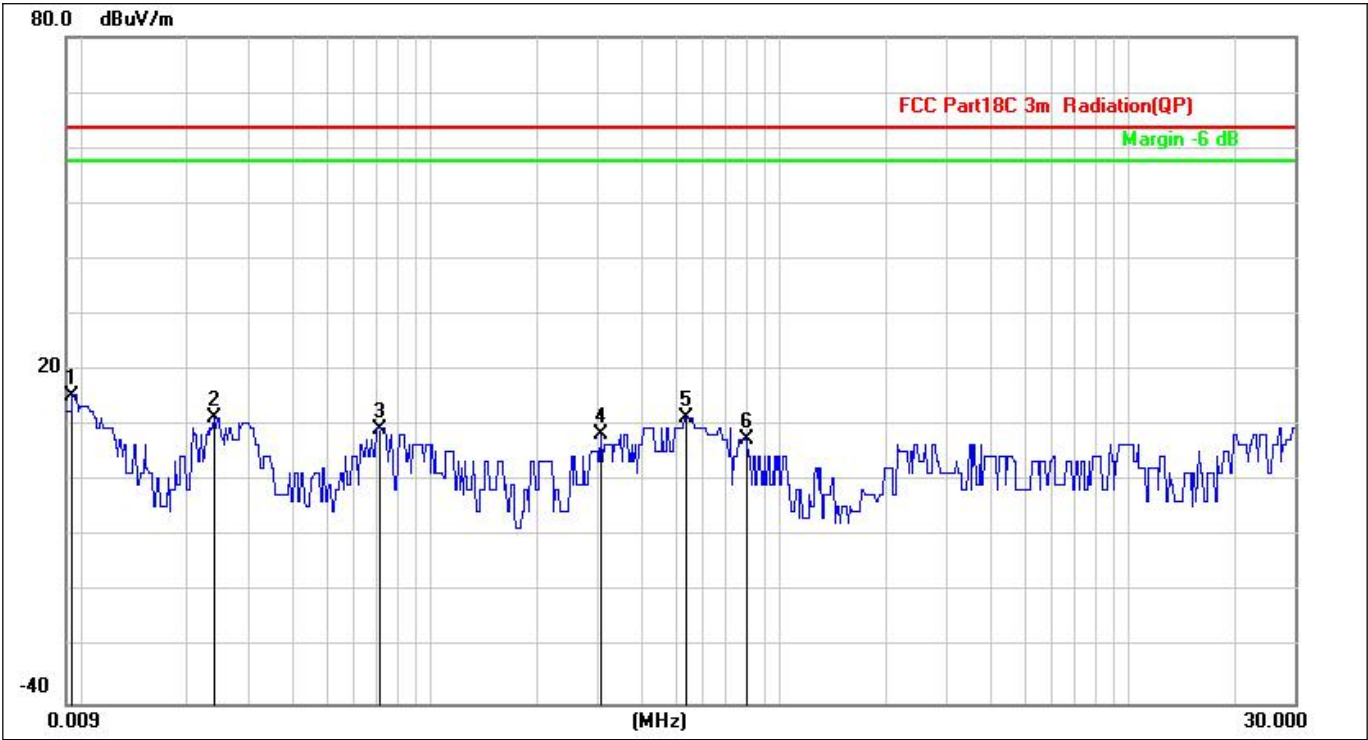
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1	36.7018	48.76	-17.45	31.31	63.50	-32.19	QP			
2 *	55.9026	49.70	-15.94	33.76	63.50	-29.74	QP			
3	88.9639	43.97	-19.21	24.76	63.50	-38.74	QP			
4	127.4409	47.88	-18.88	29.00	63.50	-34.50	QP			
5	137.9028	53.11	-19.80	33.31	63.50	-30.19	QP			
6	202.8104	45.36	-17.06	28.30	63.50	-35.20	QP			

Test mode: Right Zone Wireless Charging(5W)



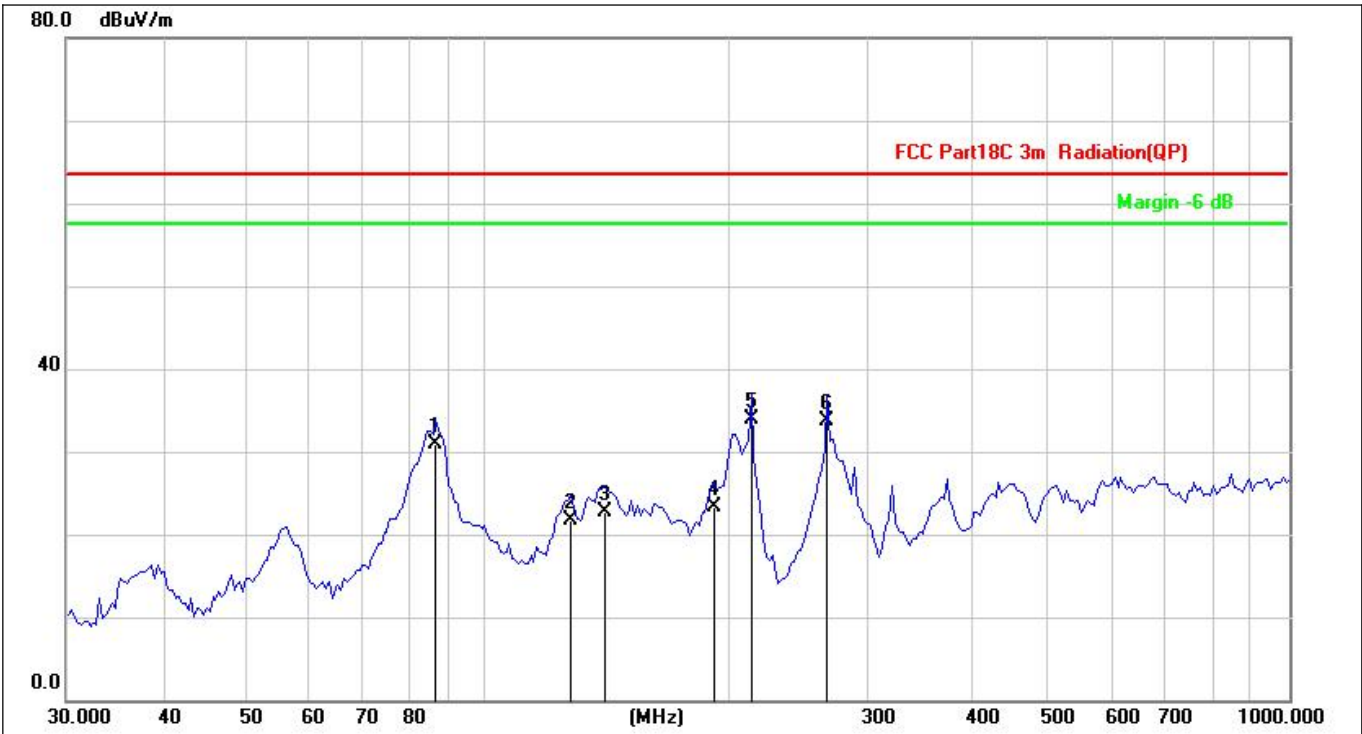
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Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger		2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 5W	Test Engineer:	sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 *	0.0154	-8.18	20.68	12.50	63.50	-51.00	QP			
2	0.0452	-10.45	21.95	11.50	63.50	-52.00	QP			
3	0.1564	18.18	-8.68	9.50	63.50	-54.00	QP			
4	0.2969	17.36	-8.86	8.50	63.50	-55.00	QP			
5	2.5686	16.39	-6.89	9.50	63.50	-54.00	QP			
6	6.2690	14.58	-6.08	8.50	63.50	-55.00	QP			



Site:	LAB	Antenna::Vertical	Temperature(C):24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger		2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 5W	Test Engineer:	sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 *	0.0094	-5.50	21.00	15.50	63.50	-48.00	QP			
2	0.0238	-9.16	20.66	11.50	63.50	-52.00	QP			
3	0.0706	-12.41	21.91	9.50	63.50	-54.00	QP			
4	0.3067	17.33	-8.83	8.50	63.50	-55.00	QP			
5	0.5324	19.70	-8.20	11.50	63.50	-52.00	QP			
6	0.7987	14.92	-7.42	7.50	63.50	-56.00	QP			



Site:	LAB	Antenna::Horizontal	Temperature(C):24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger		2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 5W	Test Engineer:	sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	86.6547	49.87	-19.04	30.83	63.50	-32.67	QP			
2	127.4409	40.62	-18.88	21.74	63.50	-41.76	QP			
3	140.3421	42.71	-19.97	22.74	63.50	-40.76	QP			
4	192.4186	40.95	-17.65	23.30	63.50	-40.20	QP			
5 *	213.7634	50.31	-16.49	33.82	63.50	-29.68	QP			
6	266.1419	48.29	-14.62	33.67	63.50	-29.83	QP			



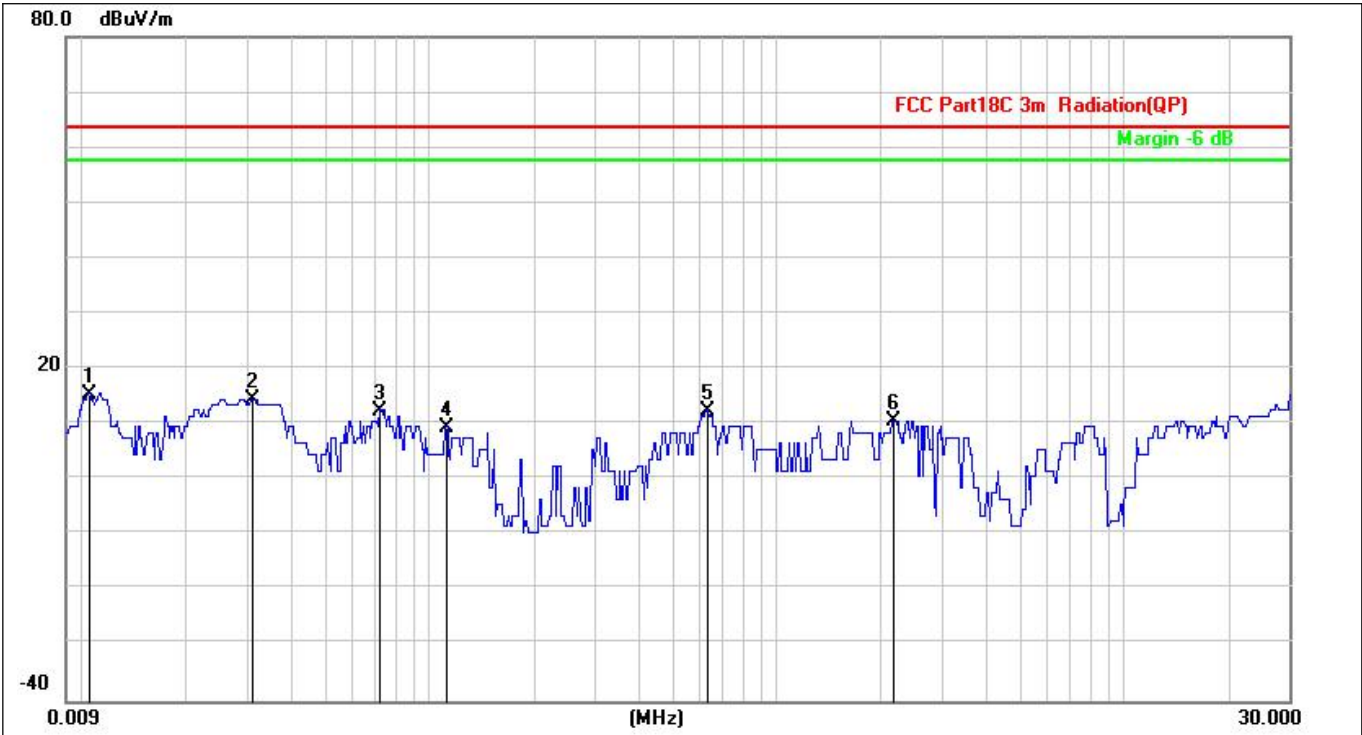
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Limit:	FCC Part18C 3m Radiation(QP)		Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger	Test Time:	2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 5W	Test Engineer:	sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	38.0115	50.64	-17.23	33.41	63.50	-30.09	QP			
2	48.5867	42.68	-16.26	26.42	63.50	-37.08	QP			
3 *	55.9026	50.29	-15.94	34.35	63.50	-29.15	QP			
4	88.9639	44.62	-19.21	25.41	63.50	-38.09	QP			
5	126.3286	51.05	-18.75	32.30	63.50	-31.20	QP			
6	141.5777	52.53	-19.94	32.59	63.50	-30.91	QP			

Test mode:Right Zone Wireless Charging(10W)

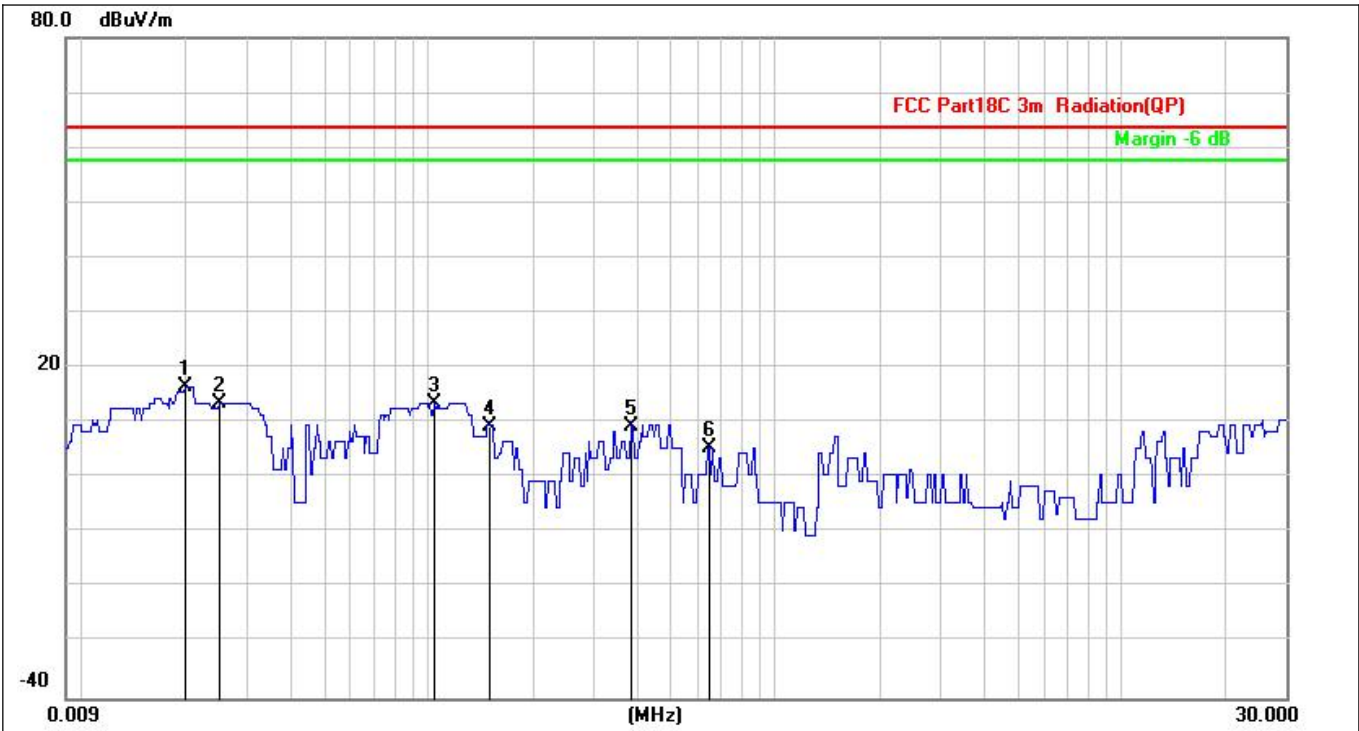
TRF NO. FCC18/A

Report No.: EA2002072F 01001 Ver.1.0



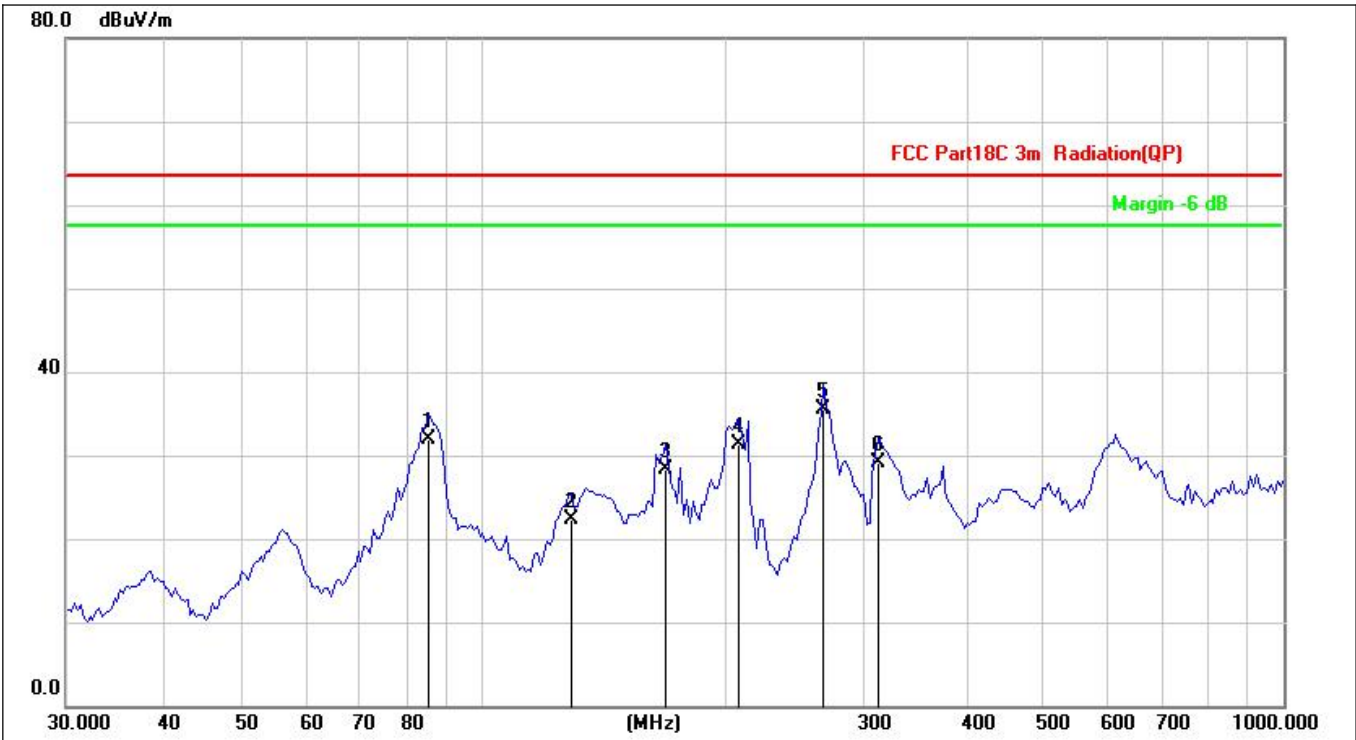
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Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger		2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 10W	Test Engineer:	sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 *	0.0104	-5.45	20.95	15.50	63.50	-48.00	QP			
2	0.0306	-6.57	21.07	14.50	63.50	-49.00	QP			
3	0.0718	-9.39	21.89	12.50	63.50	-51.00	QP			
4	0.1113	18.01	-8.51	9.50	63.50	-54.00	QP			
5	0.6262	20.37	-7.87	12.50	63.50	-51.00	QP			
6	2.1487	17.40	-6.90	10.50	63.50	-53.00	QP			



Site:	LAB	Antenna::Vertical	Temperature(C):24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger		2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 10W	Test Engineer:	sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 *	0.0199	-3.94	20.44	16.50	63.50	-47.00	QP			
2	0.0250	-7.23	20.73	13.50	63.50	-50.00	QP			
3	0.1043	21.98	-8.48	13.50	63.50	-50.00	QP			
4	0.1490	18.14	-8.64	9.50	63.50	-54.00	QP			
5	0.3849	18.11	-8.61	9.50	63.50	-54.00	QP			
6	0.6468	13.30	-7.80	5.50	63.50	-58.00	QP			



Site:	LAB	Antenna::Horizontal	Temperature(C):24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger		2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 10W	Test Engineer:	sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	85.1486	50.92	-18.94	31.98	63.50	-31.52	QP			
2	128.5630	41.29	-19.00	22.29	63.50	-41.21	QP			
3	168.7093	46.99	-18.61	28.38	63.50	-35.12	QP			
4	208.2148	48.02	-16.78	31.24	63.50	-32.26	QP			
5 *	266.1419	50.07	-14.62	35.45	63.50	-28.05	QP			
6	311.6326	42.61	-13.56	29.05	63.50	-34.45	QP			

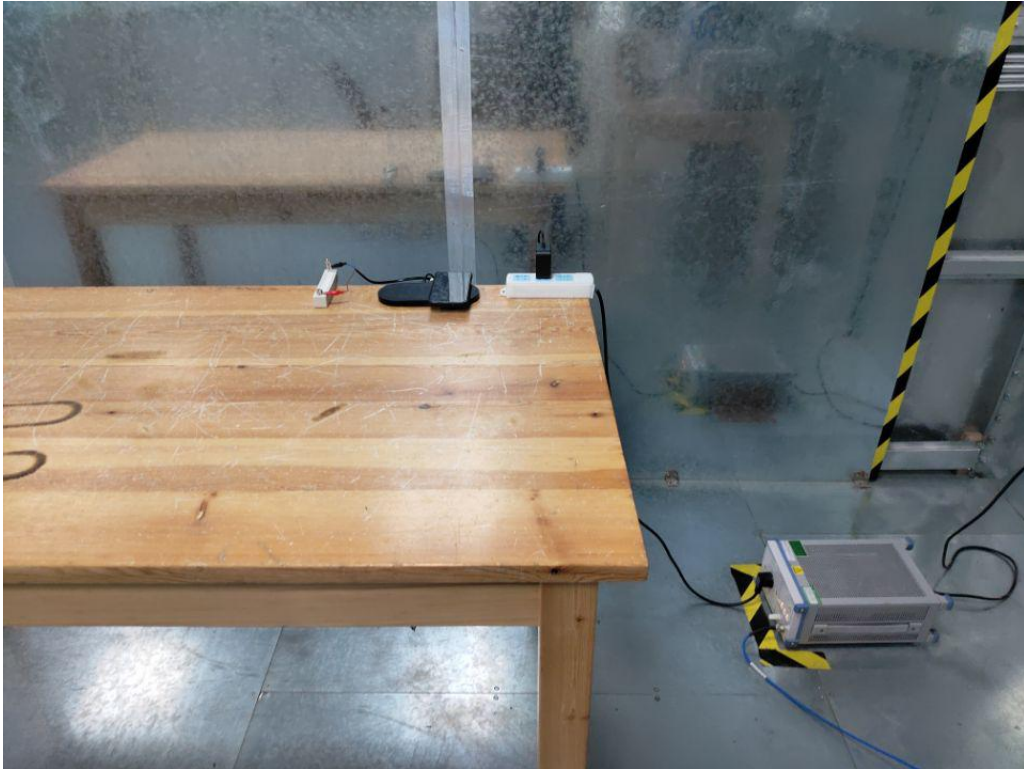


Site:	LAB	Antenna::Vertical	Temperature(C):24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Dual 10 Watt Two Coil Wireless Charger	Power Rating:	2020/03/04
M/N.:	WCDUAL10WWGGL-AL	Test Engineer:	AC 120V/60Hz
Mode:	Wireless Charging 10W		sunshine
Note:			

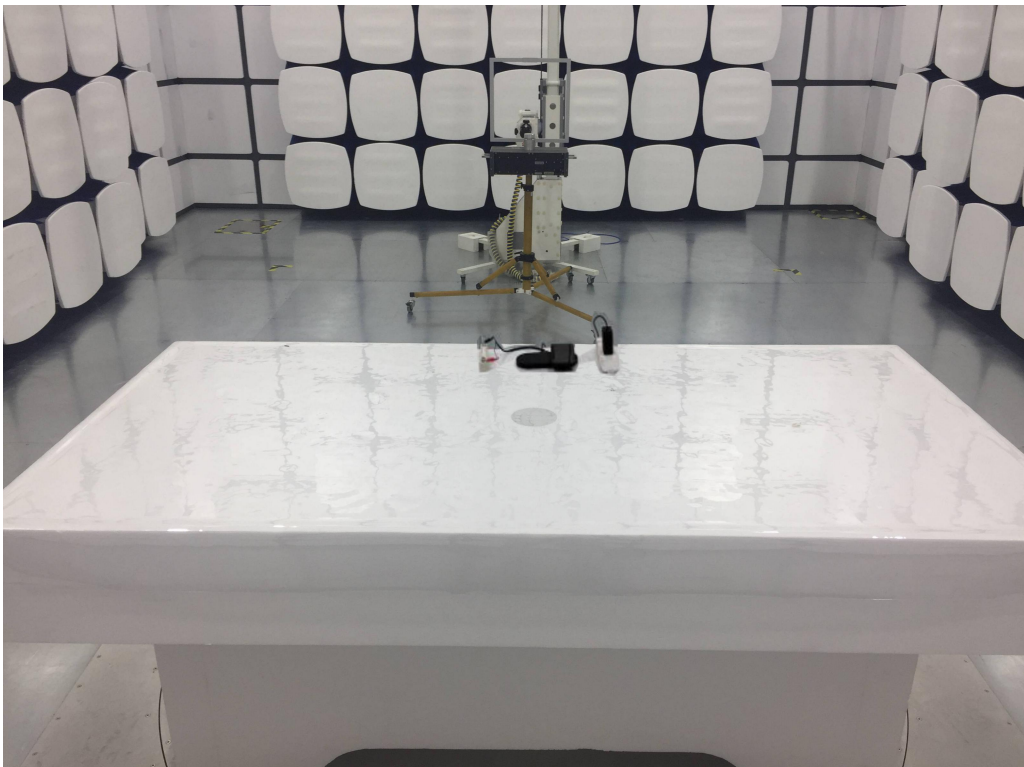
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	37.6798	50.18	-17.29	32.89	63.50	-30.61	QP			
2	50.7637	44.16	-15.91	28.25	63.50	-35.25	QP			
3 *	56.3948	50.74	-15.94	34.80	63.50	-28.70	QP			
4	88.9639	44.29	-19.21	25.08	63.50	-38.42	QP			
5	134.3235	53.18	-19.51	33.67	63.50	-29.83	QP			
6	201.0402	46.84	-17.14	29.70	63.50	-33.80	QP			

6. PHOTOGRAPHS

6.1.Photos of Conducted Emission Measurement



6.2.Photos of Radiation Emission Measurement





APPENDIX A: Warning Labels

Label Requirements

Products authorized under SDOC and Part 18 required to include a compliance statement similar to the following:

“This device complies with Part 18 of the FCC Rules.”

The compliance information may be placed in the instruction manual, on a separate sheet, on the packaging, or electronically as permitted in Section 2.935. There is no specific format for this information. The placing of this or similar statement will also comply with the requirements of Section 2.1077(a) (2).

Devices authorized under the SDOC procedure have the option to use the FCC logo to indicate compliance with the FCC rules, and the logo may be included in the instruction materials or as part of an e-label.



The FCC logo shall only be used on a product that has been tested, evaluated, and found to be compliant in accordance with the SDOC procedures. The use of the FCC logo on the device does not mitigate the requirement to provide a means to uniquely identify the product or to provide the required compliance information statement. The FCC logo cannot be used on products that are exempt from an authorization by rule unless the SDOC procedure has been fully applied for the product.

APPENDIX B: Warning Statement

Statement Requirements

For devices approved under Part 18, information on the following shall be provided to the user in the instruction manual, or on the packaging if an instruction manual is not provided (Section 18.213): • The interference potential of the device or system.

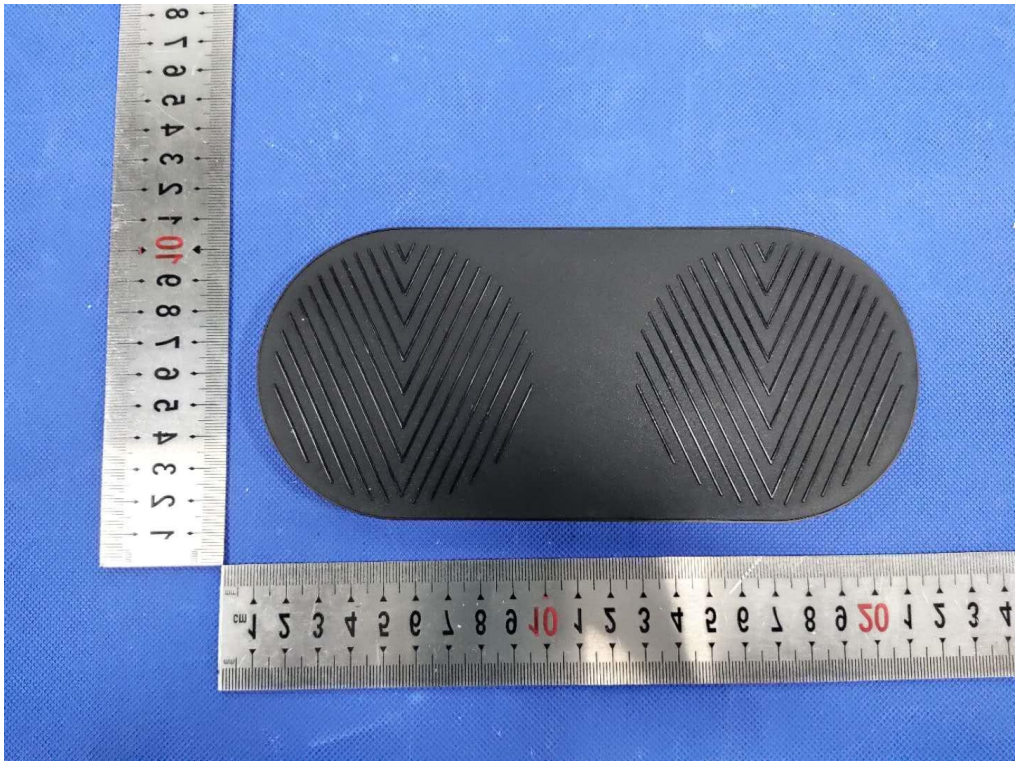
- Maintenance of the system.
- Simple measures that can be taken by the user to correct interference.
- For RF lighting devices, provide an advisory statement, either on the product packaging or with other user documentation, similar to the following:

This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45-30 MHz.

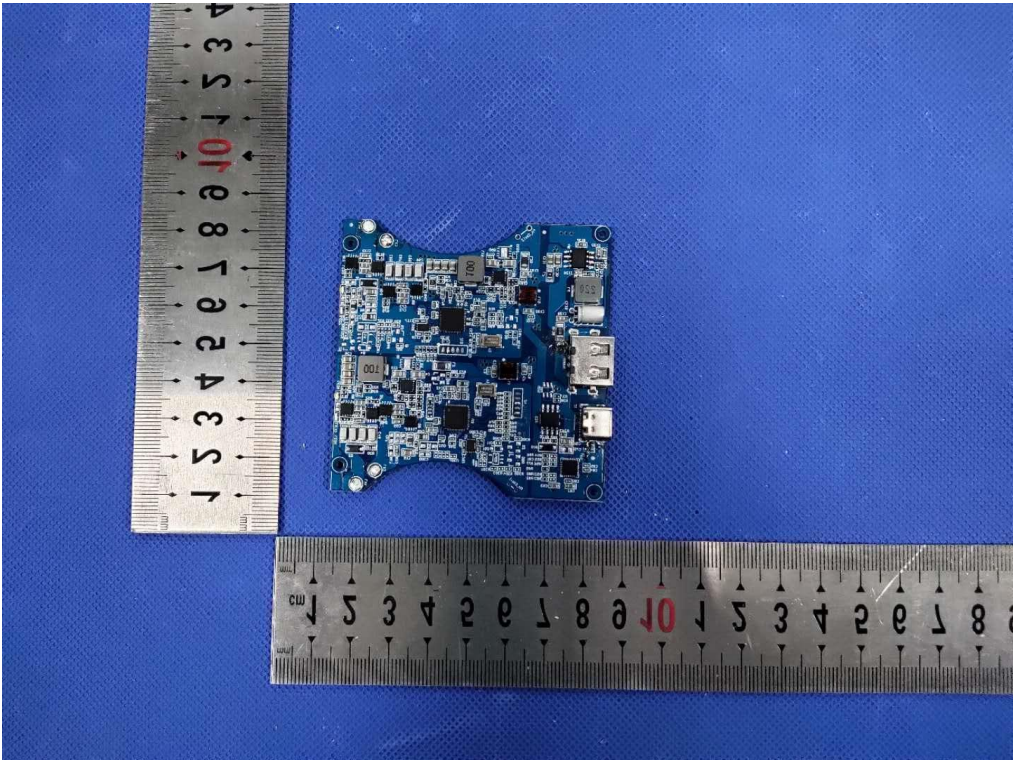
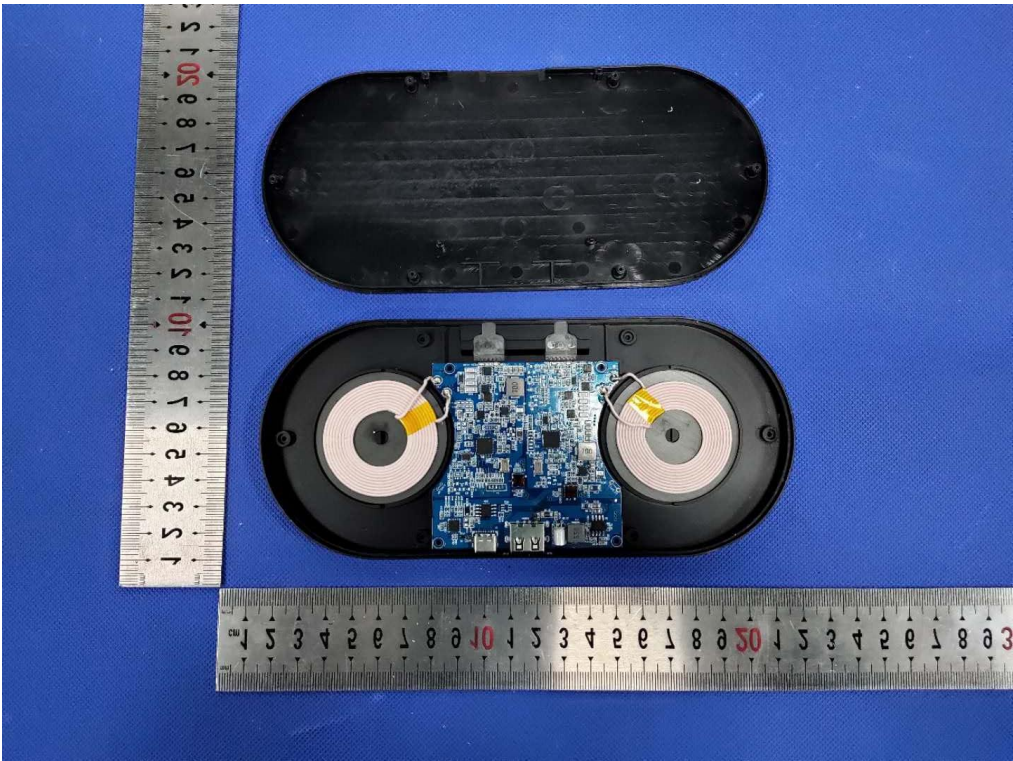
Variations of this language are permitted provided all the points of the statement are addressed, and may be presented in any legible font or text style.

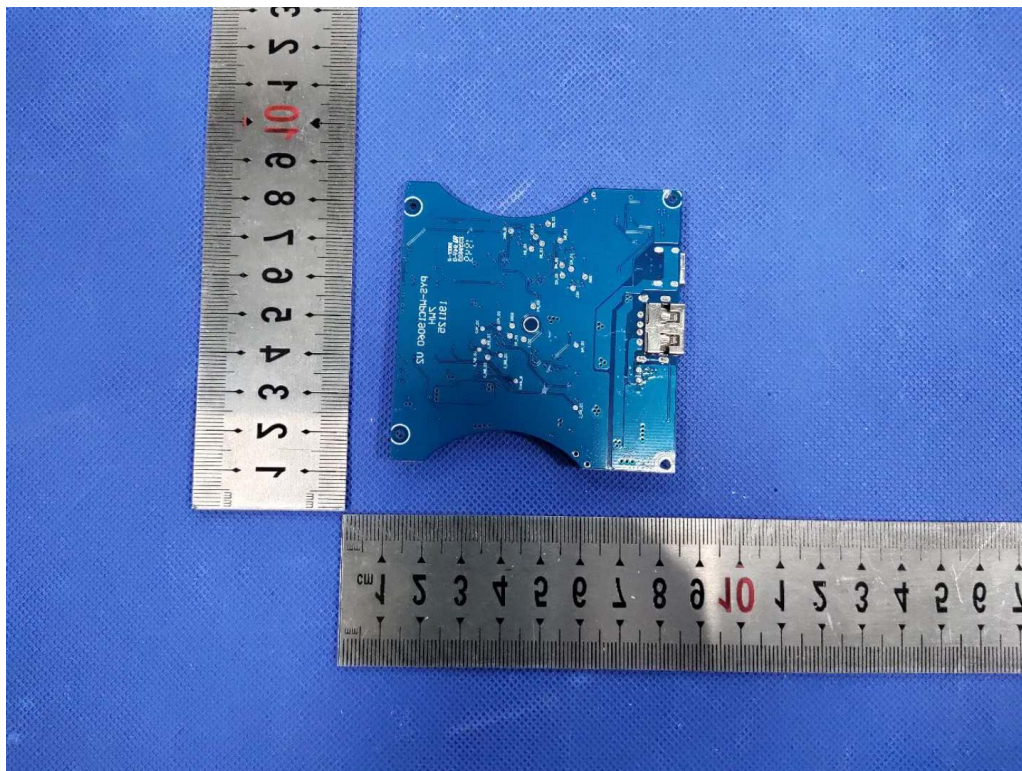
APPENDIX C: Photos of EUT











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