

Product Name: Wireless charging Table Lamp	Report No: FCC022022-1021RF0
Product Model: VX090090 T-046, T-041, PRC-H001-01, TL-02,EL-02, T-047, WLM395-TLA-6W-01, WLM395-TLA-6W-02, A01-EC0088 (The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model VX090090, but the circuit and the electronic construction do not change, declared by the manufacturer.)	Security Classification: Open
Version: A0	Total Page: 33

TIRT Testing Report

Prepared By:	Checked By:	Approved By:	
Stone Tang	Randy Lv	Daniel Chen	
Stone Tang	Randy Lv	Daniel chen	

RF TEST REPORT

FCC ID: 2AZRW-YLCWUA

According to

47 CFR FCC Part 15, Subpart C

ANSI C63.10:2013

Equipment : Wireless charging Table Lamp
Model No. : VX090090 (This test)
T-046, T-041, PRC-H001-01, TL-02,EL-02, T-047,
WLM395-TLA-6W-01, WLM395-TLA-6W-02, A01-EC0088 (The test data
is gathered from a production sample, provided by the manufacturer. The
appearance of others models listed in the report is different from main-test
model VX090090, but the circuit and the electronic construction do not
change, declared by the manufacturer.)
Trademark : /
Product No. : 20220310003280
Applicant : Dong Guan Ya Li Electric Appliance Co., Ltd.
Address : THE FIVE STREET JINQIANLING JITIGANG HUANGJIANG
TOWN,DONGGUAN CITY, GUANGDONG 523000 CHINA

- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc. the test report shall not reproduced except in full.
- Test Date: 2022.03.18-2022.03.25

Lab: Beijing TIRT Technology Service Co.,Ltd Shenzhen

Add: 101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street,
Pingshan District, Shenzhen, China

TEL: +86-0755-27087573

Table of Contents

History of this test report.....	5
1. General Information	6
1.1 Applicant.....	6
1.2 Manufacturer.....	6
1.3 Factory.....	6
1.4 Basic Description of Equipment Under Test.....	6
1.5 Application of Standard.....	7
1.6 Operating Modes of EUT	7
2. Summary of Test Results	8
2.1 Summary of Test Items	8
2.2 Test Instruments	8
2.3 Configuration and Connections with EUT	9
2.4 Test Condition	10
2.5 Measurement Uncertainty.....	10
2.6 Test Location.....	10
2.7 Deviation from Standards	11
2.8 Abnormalities from Standard Conditions.....	11
3. Test Procedure And Results	12
3.1 AC Power Line Conducted Emission	12
3.1.1 Limit.....	12
3.1.2 Test Procedure	12
3.1.3 Test Setup	13
3.1.4 Test Result of AC Power Line Conducted Emission	14
3.2 Radiated Emissions up to 1 GHz	16
3.2.1 Limit.....	16
3.2.2 Test Procedure	16
3.2.3 Test Setup	18
3.2.4 Test Result of Radiated Emission	19
3.3 20dB bandwidth measurement	29
3.3.1 Limit.....	29

3.3.2	Test Procedure	29
3.3.3	Test Setup	29
3.3.4	EUT operating condition.....	30
3.3.5	Test results	30
4.	Appendix 1 Photographs of Test Set-up	32
5.	Appendix 2 Photographs of EUT	33

History of this test report

Original Report Issue Date: 2022.03.30

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 Applicant

Dong Guan Ya Li Electric Appliance Co., Ltd.

THE FIVE STREET JINQIANLING JITIGANG HUANGJIANG TOWN,DONGGUAN CITY,
GUANGDONG 523000 CHINA

1.2 Manufacturer

Dong Guan Ya Li Electric Appliance Co., Ltd.

THE FIVE STREET JINQIANLING JITIGANG HUANGJIANG TOWN,DONGGUAN CITY,
GUANGDONG 523000 CHINA

1.3 Factory

Dong Guan Ya Li Electric Appliance Co., Ltd.

THE FIVE STREET JINQIANLING JITIGANG HUANGJIANG TOWN,DONGGUAN CITY,
GUANGDONG 523000 CHINA

1.4 Basic Description of Equipment Under Test

Items	Description
Equipment Name	Wireless charging Table Lamp
Model Number	VX090090 (This test) T-046, T-041, PRC-H001-01, TL-02,EL-02, T-047, WLM395-TLA-6W-01, WLM395-TLA-6W-02, A01-EC0088 (The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model VX090090, but the circuit and the electronic construction do not change, declared by the manufacturer.)
Trademark	/
Power supply	120V~ 60Hz
Power For USB	USB*1(5V 1A), USB-C*1(5V 1A)
Power For Wireless charge	5W
Power For Bulb	MAX 60W(E26)
Power For Outlet	MAX 1080W
Modulation type	ASK
Operating frequency	110kHz~180kHz
Antenna type	Coil Antenna

1.5 Application of Standard

47 CFR FCC Part 15, Subpart C and ANSI C63.10:2013

1.6 Operating Modes of EUT

The EUT was tested under the following modes the final worst mode was marked in boldface and recorded in this report. We have evaluated 1%, 50% and 99% battery charging mode, and the worst mode (99%) is showed in this report.

Test frequency	Test mode	Test voltage
110~130kHz	Wireless charging + Transmitting	DC 5V
160~180kHz	Standby + Transmitting	

2. Summary of Test Results

2.1 Summary of Test Items

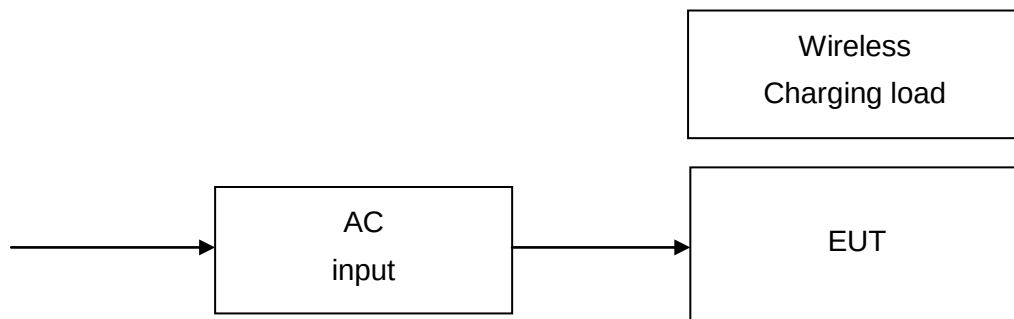
47 CFR FCC Part 15, Subpart C			
Test Item	FCC Clause	Results	Remarks
AC Power Conducted Emission	15.207	Pass	Meet the requirement of the limit
Radiated Emission	15.209	Pass	Meet the requirement of the limit
Antenna Requirement	15.203	Pass	Meet the requirement of the limit
20dB Bandwidth	15.215(c)	Pass	Meet the requirement of the limit
Note: NA denotes Not Applicable in this part			

2.2 Test Instruments

No.	Equipment	Manufacturer	Type No.	Serial No.	Cal. date (yyyy/mm/dd)	Cal. Due date (yyyy/mm/dd)
Conducted Emission						
1	EMI Receiver	Rohde&Schwarz	ESCI	100718	2021/11/10	2022/11/09
2	AMN	Rohde&Schwarz	ENV216	100075	2021/11/10	2022/11/09
3	AMN	Schwarzbeck	NSLK8127	#829	2021/11/10	2022/11/09
4	ECSI RF IN RF Cable	Rohde&Schwarz	RP-X1	\	2020/11/18	2022/11/17
5	ECSI RF IN RF Cable	Rohde&Schwarz	Sapre sm	\	2021/11/10	2022/11/09
6	Testing Software	EZ-EMC	TW-03A2			
Radiated Emission						
1	EMI Receiver	Rohde&Schwarz	ESR7	102013	2021/11/10	2022/11/09
2	Spectrum analyzer	Rohde&Schwarz	FSV30	103741	2021/11/10	2022/11/09
3	Spectrum analyzer	KEYSIGHT	N9010A	MY514401 58	2021/11/10	2022/11/09
4	Integral Antenna	Schwarzbeck	VULB 9163	9163-868	2021/12/26	2022/12/25
5	Integral Antenna	Schwarzbeck	FMZB 1519B	00029	2021/11/05	2022/11/04
6	Integral Antenna	Schwarzbeck	BBHA 9170	9170#685	2021/11/07	2022/11/06
7	Preamplifier	CD Systems Inc	PAP-0303 6-30	85060000	2021/11/10	2022/11/09
8	Preamplifier	Schwarzbeck	BBV9721	9721-019	2021/11/10	2022/11/09

9	Preamplifier	emci	EMC0126 30SE	980417	2021/11/10	2022/11/09
10	ECSI RF IN RF Cable	Rohde&Schwarz	AP-X1	\	2021/11/10	2022/11/09
11	ECSI RF IN RF Cable	HAOXUN	Z-108	\	2021/11/10	2022/11/09
12	Testing Software	EZ-EMC	TW-03A2			
20dB Bandwidth						
1	Spectrum analyzer	Rohde&Schwarz	FSV30	103741	2021/11/10	2022/11/09
2	Power Collection Unit	Tonscend	JS0806-2	18806013 4	2021/09/13	2022/09/12
3	Tonscend Test System	Tonscend	2.6.77.051 8	NA	NA	NA
4	Temp&Hum idity Recorder	Anymetre	JR900	NA	2021/11/04	2022/11/03

2.3 Configuration and Connections with EUT



No.	Equipment	Model	Brand	FCC ID	Series No
1	Mobile phone	Phone13	Apple	DoC	/

Note:

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

2.4 Test Condition

Applicable to	Environmental conditions	Input Power	Tested by
AC Power Conducted Emission	24.4°C, 55 % RH	120Vac, 60Hz	Stone Tang
Radiated Emission	24.5°C, 53 % RH	120Vac, 60Hz	Stone Tang
Antenna Requirement	24.6°C, 54 % RH	120Vac, 60Hz	Stone Tang
20dB Bandwidth	24.3°C, 57 % RH	120Vac, 60Hz	Stone Tang

2.5 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT.

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

Uncertainty	
Parameter	Uncertainty
Spurious emissions, conducted	$\pm 1.78\text{dB}$
Spurious emissions, radiated (9KHz~30MHz)	$\pm 2.56\text{dB}$
Spurious emissions, radiated (30MHz~1GHz)	$\pm 4.6\text{dB}$
Spurious emissions, radiated (1GHz ~ 18GHz)	$\pm 4.9\text{dB}$
Conduction Emissions(150kHz~30MHz)	$\pm 3.1\text{ dB}$
Humidity	$\pm 4.6\%$
Temperature	$\pm 0.7^\circ\text{C}$
Time	$\pm 1.25\%$

2.6 Test Location

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen
Address:	101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street, Pingshan District, Shenzhen, China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number:	6049.01
FCC Accredited Lab. Designation Number:	CN1309
FCC Test Firm Registration Number:	825524
Telephone:	+86-0755-27087573

2.7 Deviation from Standards

None

2.8 Abnormalities from Standard Conditions

None

3. Test Procedure And Results

3.1 AC Power Line Conducted Emission

3.1.1 Limit

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.50	79	66	66 - 56	56 - 46
0.50 ~ 5.00	73	60	56	46
5.00 ~ 30.0	73	60	60	50

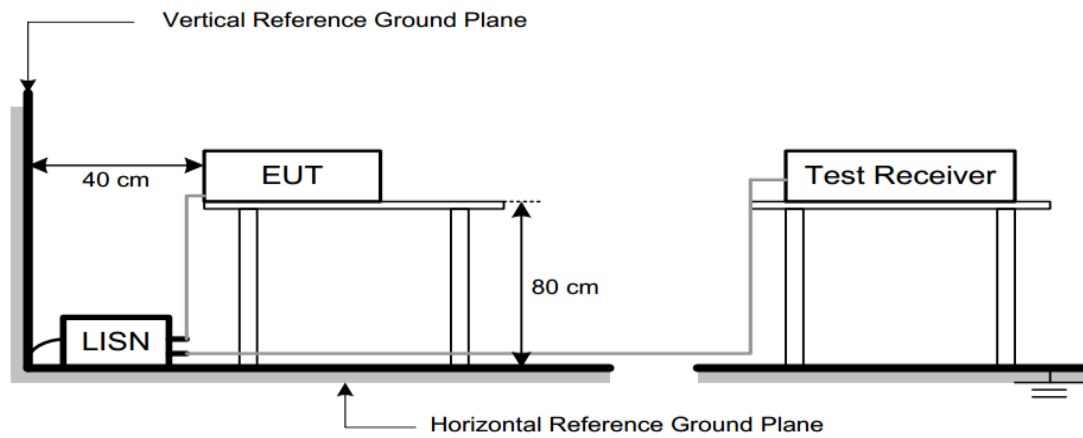
Note:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.2 Test Procedure

- a) The EUT was placed 0.8 m from the horizontal ground plane and 0.4 m from the vertical groundplane with EUT being connected to the power mains through a line impedance stabilization network (AMN). All other support equipment powered from additional AMN. The AMN provide 50 Ohm/ 50 uH of coupling impedance for the measuring instrument.
- b) Interconnecting cables that hang closer than 0.4 m to the ground plane shall be folded back and forth in the center forming a bundle 0.3 m to 0.4 m long.
- c) The frequency range from 150 kHz to 30 MHz was searched.
- d) Actual test configuration, please refer to the related Item – EUT Test Photos.
- e) The thickness of the insulation shall not be more than 150 mm.

3.1.3 Test Setup



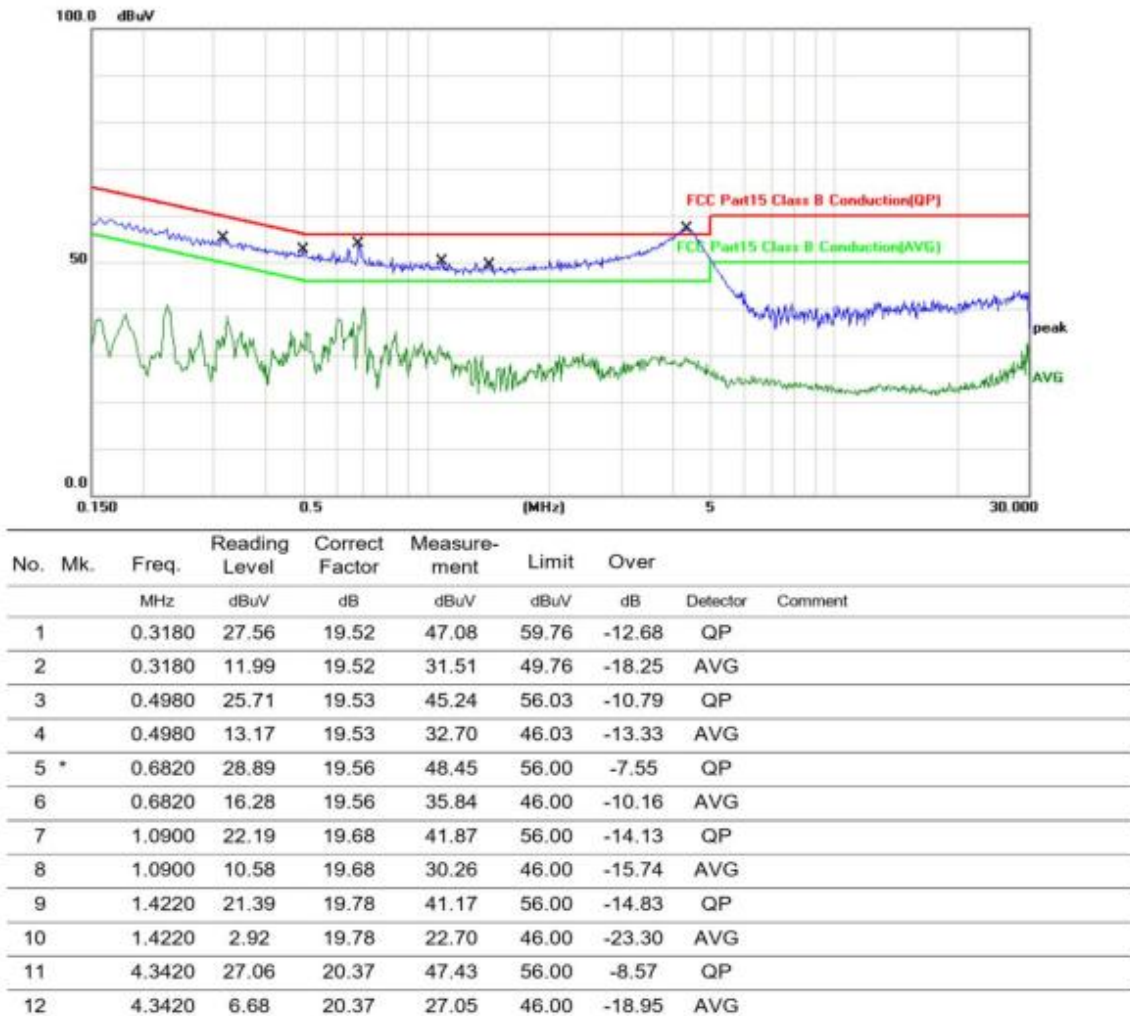
Note: For the actual test configuration, please refer to the related item – Photographs of the test configuration

3.1.4 Test Result of AC Power Line Conducted Emission

The worst measurement data as follows:

150kHz~30MHz	Test mode: AC 120V/60Hz
--------------	-------------------------

Line



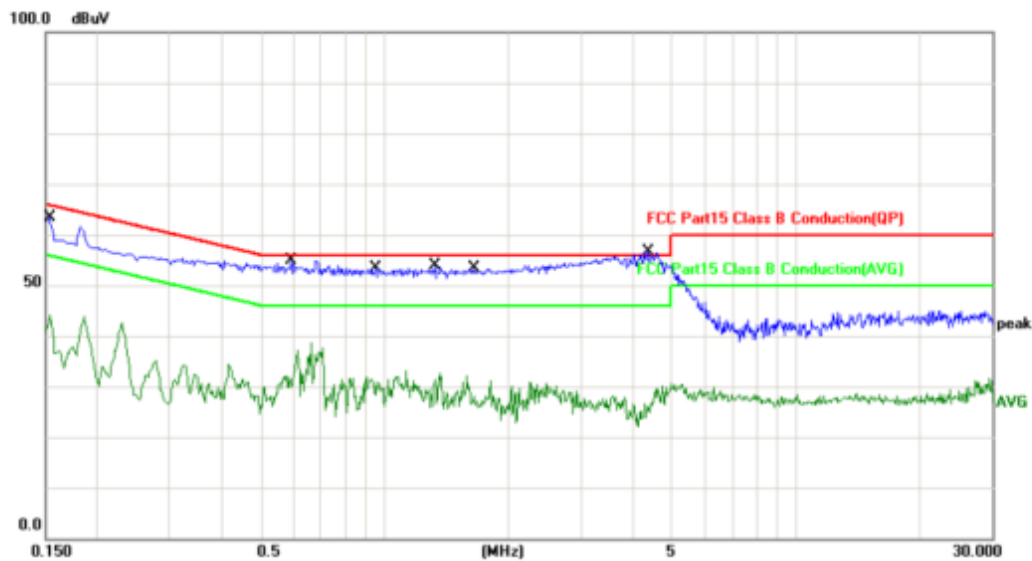
Note:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measure-ment = Reading Level + Correct Factor.
3. Over = Measure-ment - Limit

150kHz~30MHz

Test mode: AC 120V/60Hz

Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1540	34.88	19.70	54.58	65.78	-11.20	QP	
2		0.1540	14.75	19.70	34.45	55.78	-21.33	AVG	
3		0.5940	26.96	19.76	46.72	56.00	-9.28	QP	
4		0.5940	10.46	19.76	30.22	46.00	-15.78	AVG	
5		0.9540	25.95	19.87	45.82	56.00	-10.18	QP	
6		0.9540	8.17	19.87	28.04	46.00	-17.96	AVG	
7		1.3260	25.95	19.99	45.94	56.00	-10.06	QP	
8		1.3260	10.82	19.99	30.81	46.00	-15.19	AVG	
9		1.6460	25.61	20.13	45.74	56.00	-10.26	QP	
10		1.6460	7.98	20.13	28.11	46.00	-17.89	AVG	
11	*	4.3500	30.91	20.33	51.24	56.00	-4.76	QP	
12		4.3500	8.71	20.33	29.04	46.00	-16.96	AVG	

Note:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading Level + Correct Factor.
3. Over = Measurement - Limit

3.2 Radiated Emissions up to 1 GHz

3.2.1 Limit

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Frequencies (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
Above 960	500	3

- Note:
- (1) The lower limit shall apply at the transition frequencies.
 - (2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
 - (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
 - (4) The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

3.2.2 Test Procedure

Below 30MHz

- a) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

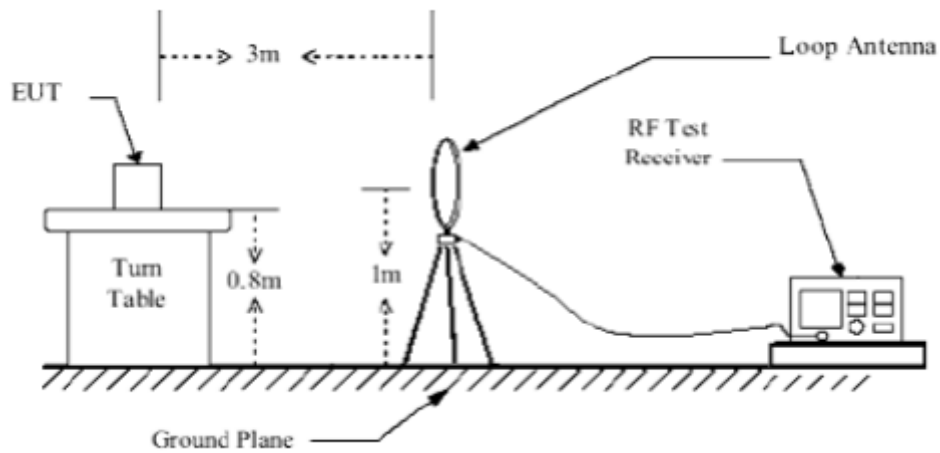
- b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c) The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

30MHz~1GHz

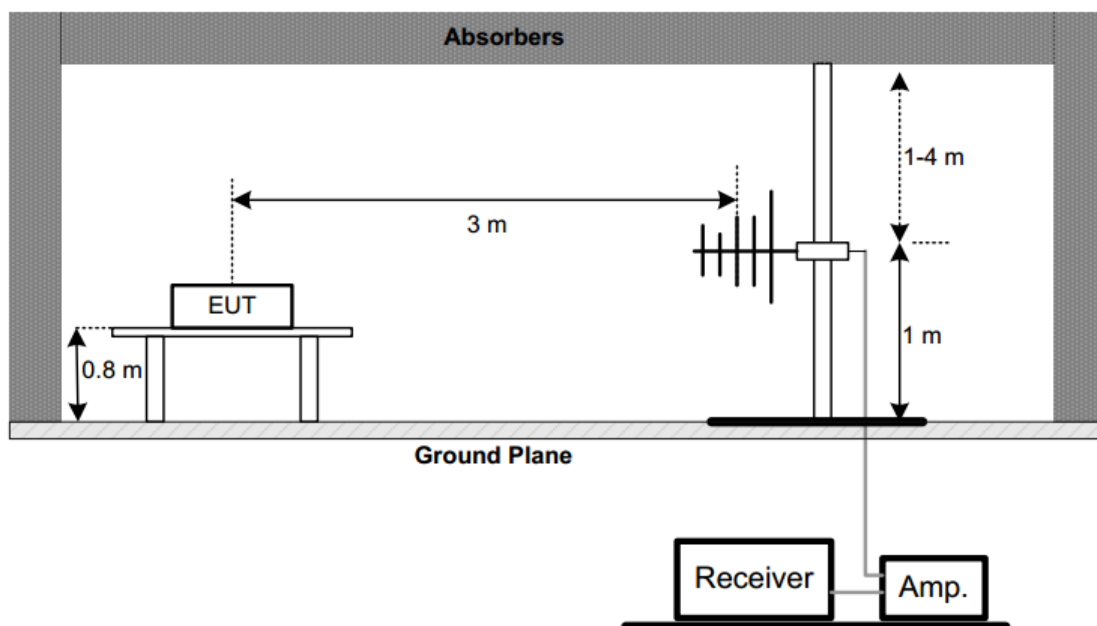
- a) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c) The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

3.2.3 Test Setup

(A) Radiated Emission Test Set-Up Frequency Below 30MHz



(B) Radiated Emission Test Set-Up Frequency Below 1 GHz

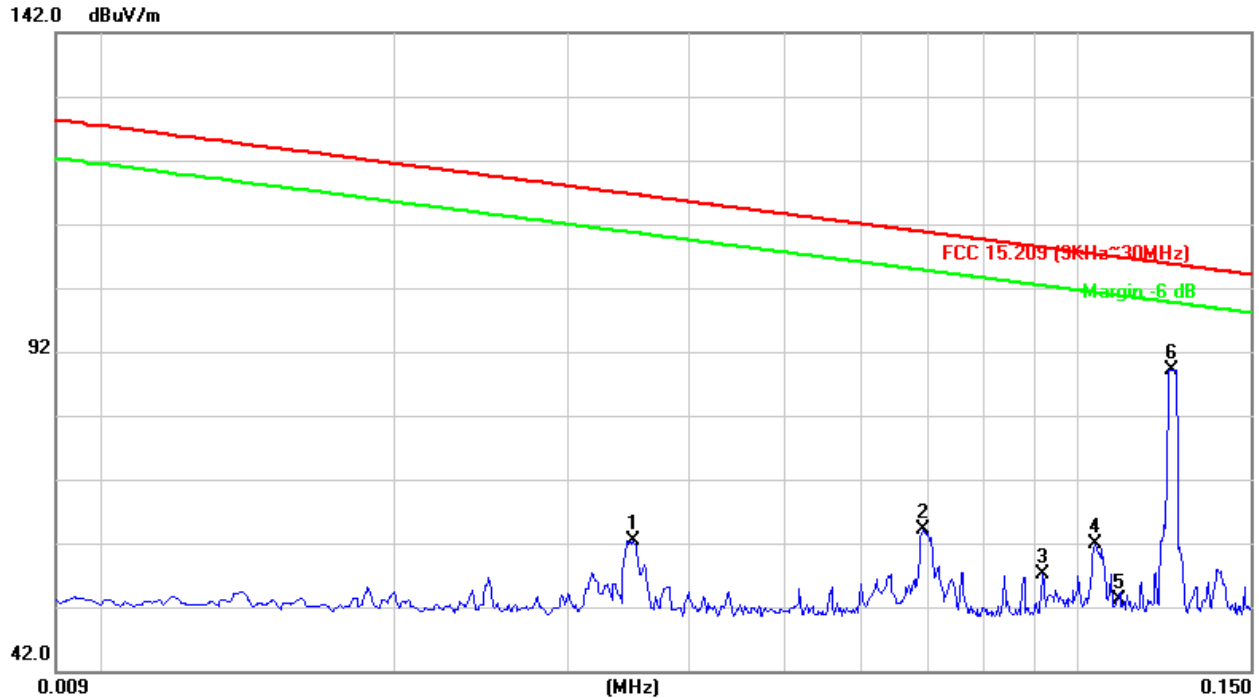


3.2.4 Test Result of Radiated Emission

The worst measurement data as follows:

0.009MHz~0.150MHz	Test mode: Wireless charging + Transmitting
-------------------	---

Horizontal

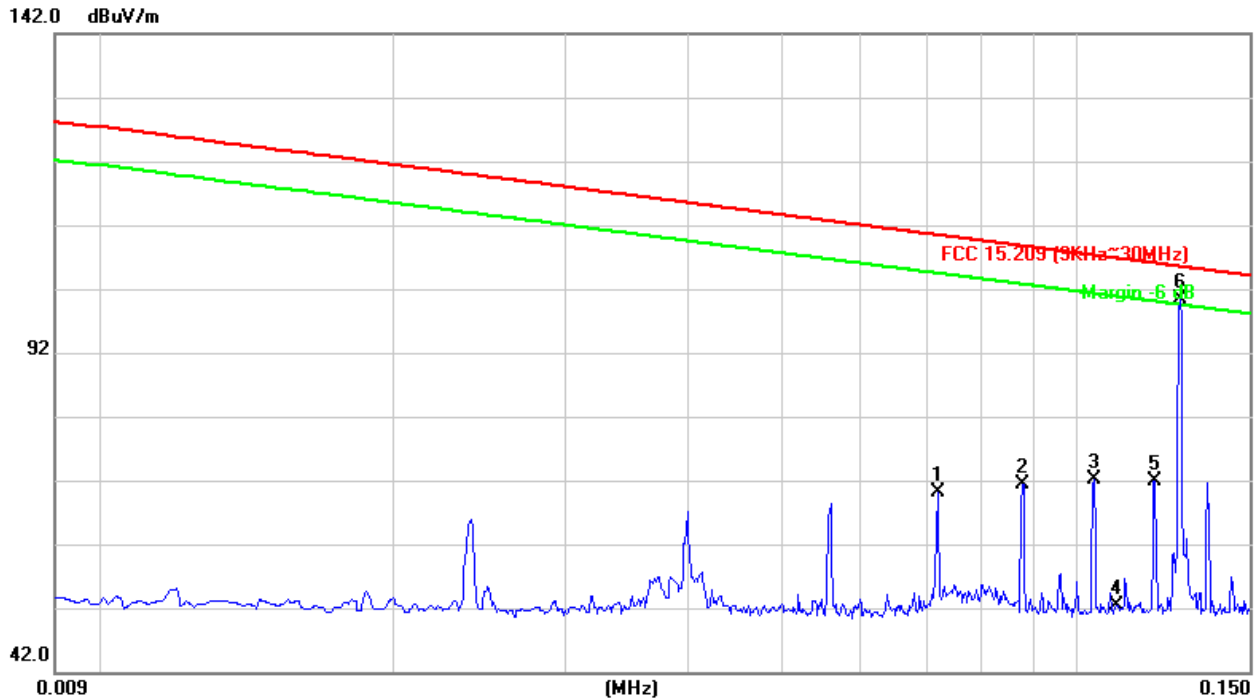


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.0351	40.93	21.51	62.44	116.62	-54.18	100	108
2	0.0694	42.52	21.62	64.14	110.76	-46.62	100	192
3	0.0921	35.42	21.60	57.02	108.32	-51.30	100	212
4	0.1041	40.37	21.61	61.98	107.26	-45.28	100	189
5	0.1100	31.54	21.68	53.22	106.78	-53.56	100	119
6*	0.1248	66.88	22.24	89.12	105.68	-16.56	100	297

Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Level = Reading + Correct Factor.
3. Margin = Level – Limit

Vertical



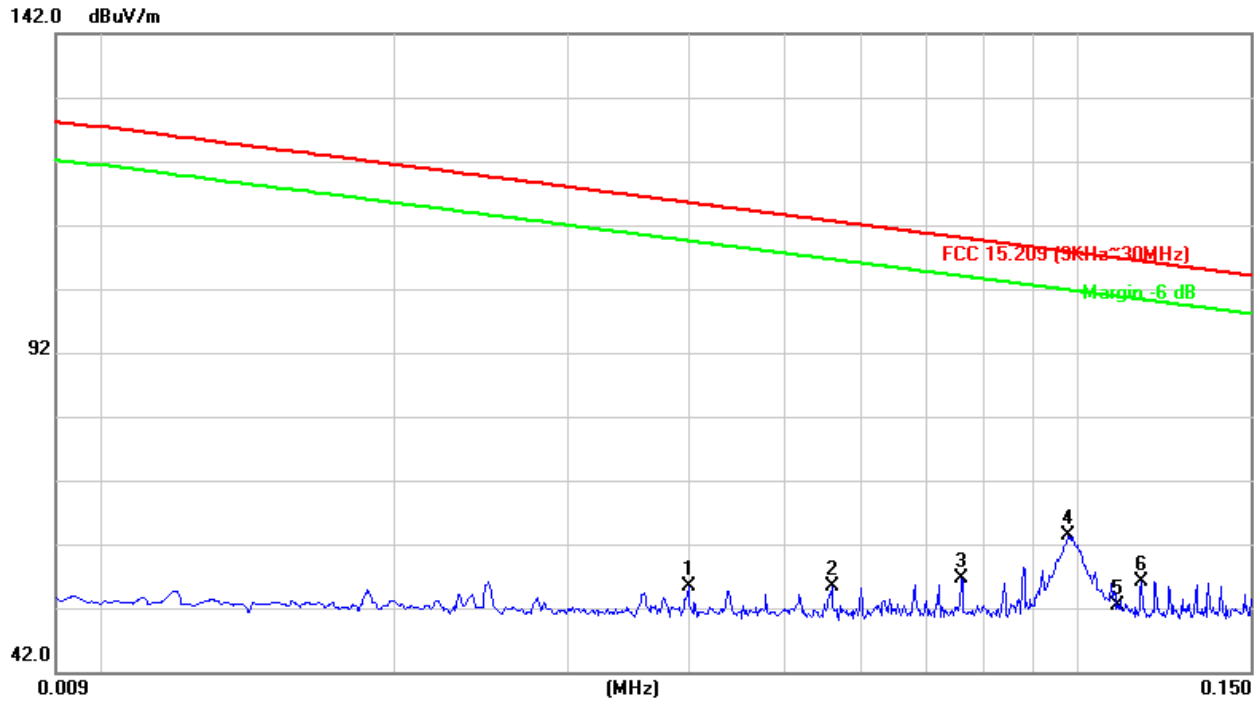
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.0720	48.64	21.58	70.22	110.44	-40.22	100	19
2	0.0880	49.75	21.60	71.35	108.71	-37.36	100	247
3	0.1041	50.52	21.66	72.18	107.26	-35.08	100	189
4	0.1100	30.62	21.68	52.30	106.78	-54.48	100	230
5	0.1202	49.46	22.42	71.88	106.01	-34.13	100	89
6*	0.1276	78.04	22.31	100.35	105.49	-5.14	100	149

Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Level = Reading + Correct Factor.
3. Margin = Level – Limit

0.009MHz~0.150MHz	Test mode: Standby + Transmitting
-------------------	-----------------------------------

Horizontal

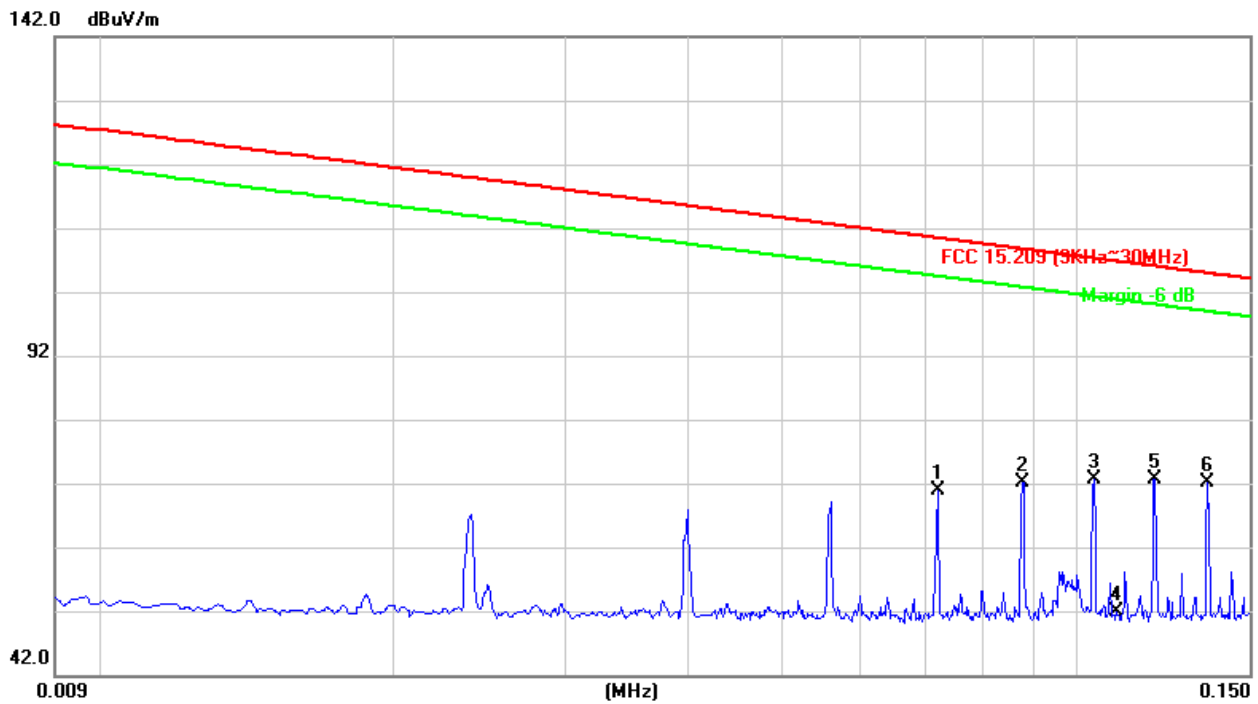


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.0400	33.89	21.51	55.40	115.50	-60.10	100	102
2	0.0560	33.87	21.56	55.43	112.60	-57.17	100	123
3	0.0760	35.03	21.58	56.61	109.97	-53.36	100	45
4	0.0980	41.84	21.66	63.50	107.78	-44.28	100	172
5	0.1100	30.58	21.69	52.27	106.78	-54.51	100	107
6*	0.1161	33.96	22.17	56.13	106.31	-50.18	100	213

Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Level = Reading + Correct Factor.
3. Margin = Level – Limit

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.0720	49.20	21.58	70.78	110.44	-39.66	100	33
2	0.0880	50.55	21.61	72.16	108.71	-36.55	100	156
3	0.1041	51.06	21.66	72.72	107.26	-34.54	100	286
4	0.1100	30.27	21.68	51.95	106.78	-54.83	100	41
5	0.1202	50.33	22.38	72.71	106.01	-33.30	100	309
6*	0.1361	49.92	22.31	72.23	104.93	-32.70	100	129

Note:

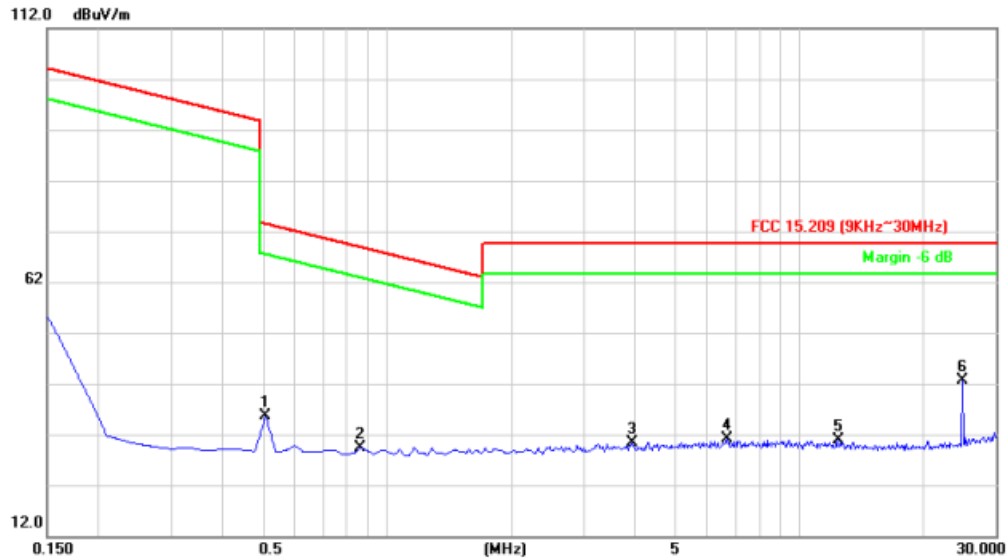
1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Level = Reading + Correct Factor.
3. Margin = Level – Limit

0.150MHz~30MHz

Test mode: Wireless charging + Transmitting

Horizontal

Radiated Emission

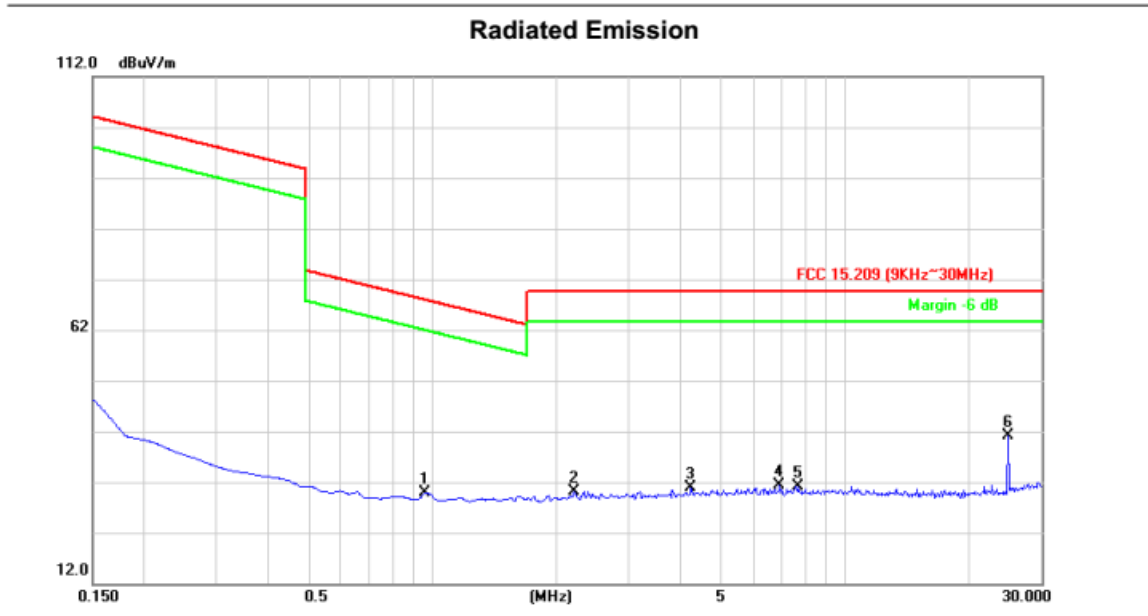


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.5085	13.37	22.17	35.54	73.48	-37.94	100	46
2	0.8671	6.96	22.51	29.47	68.84	-39.37	100	159
3	3.9447	7.93	22.39	30.32	69.54	-39.22	100	258
4	6.6936	9.24	21.96	31.20	69.54	-38.34	100	163
5	12.4604	8.26	22.58	30.84	69.54	-38.7	100	91
6*	25.0100	19.22	23.42	42.64	69.54	-26.9	100	107

Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Level = Reading + Correct Factor.
3. Margin = Level – Limit

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.9567	7.22	22.58	29.80	67.99	-38.19	100	112
2	2.2117	7.47	22.69	30.16	69.54	-39.38	100	158
3	4.2435	8.18	22.64	30.82	69.54	-38.72	100	28
4	6.9626	9.84	21.46	31.30	69.54	-38.24	100	249
5	7.6797	9.12	21.98	31.10	69.54	-38.44	100	354
6*	25.0100	17.69	23.42	41.11	69.54	-28.43	100	45

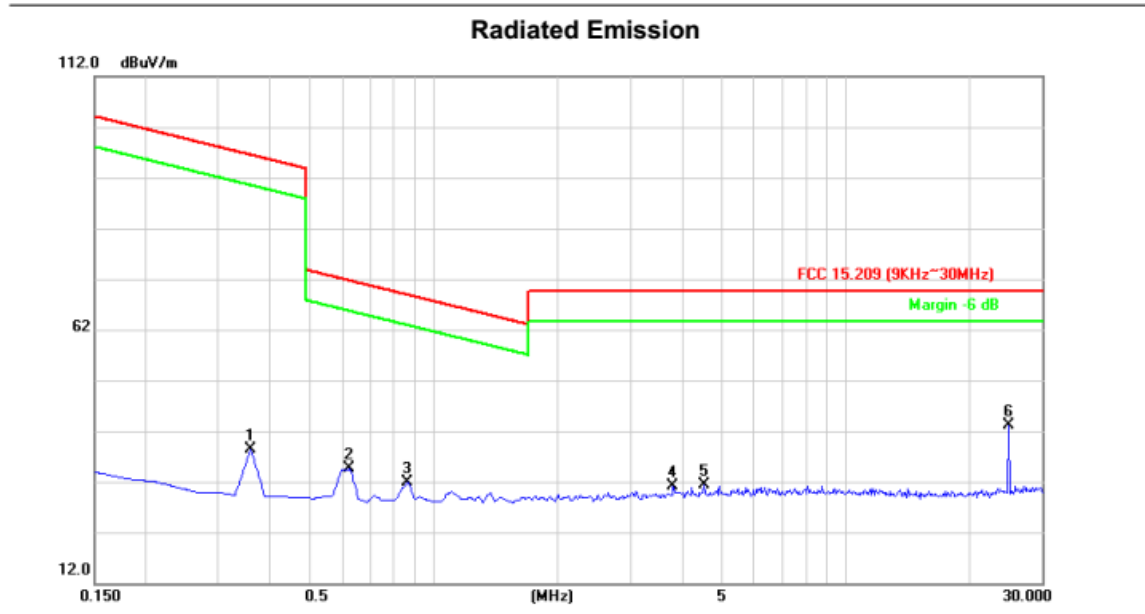
Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Level = Reading + Correct Factor.
3. Margin = Level – Limit

0.150MHz~30MHz

Test mode: Standby + Transmitting

Horizontal

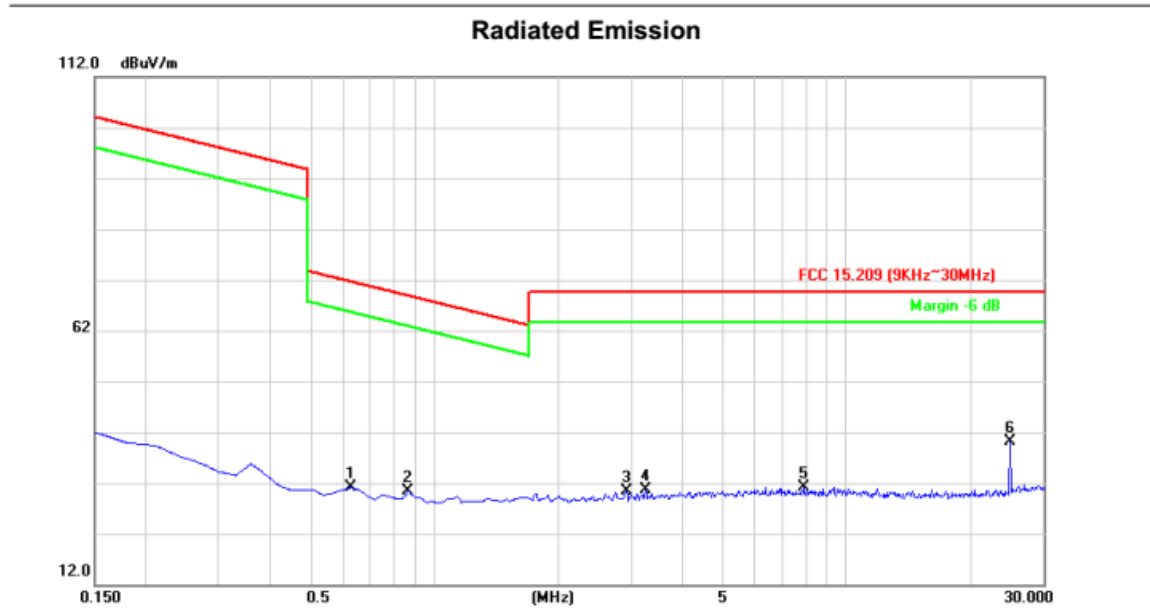


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.3591	16.11	22.39	38.50	96.50	-58.00	100	68
2	0.6280	12.03	22.48	34.51	71.64	-37.13	100	159
3	0.8671	9.48	22.51	31.99	68.84	-36.85	100	248
4	3.8252	8.97	22.18	31.15	69.84	-38.69	100	54
5	4.5423	8.06	23.29	31.35	69.84	-38.49	100	109
6*	25.0100	19.69	23.42	43.11	69.84	-26.73	100	341

Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Level = Reading + Correct Factor.
3. Margin = Level – Limit

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.6280	8.59	22.48	31.07	71.64	-40.57	100	323
2	0.8671	7.79	22.51	30.30	68.84	-38.54	100	251
3	2.9288	7.88	22.48	30.36	69.54	-39.18	100	152
4	3.2575	8.41	22.29	30.70	69.54	-38.84	100	54
5	7.8888	7.91	23.23	31.14	69.54	-38.40	100	68
6*	25.0100	16.70	23.42	40.12	69.54	-29.42	100	109

Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Level = Reading + Correct Factor.
3. Margin = Level – Limit

30MHz~1GHz

Test mode: Wireless charging + Transmitting(worst mode)

Vertical

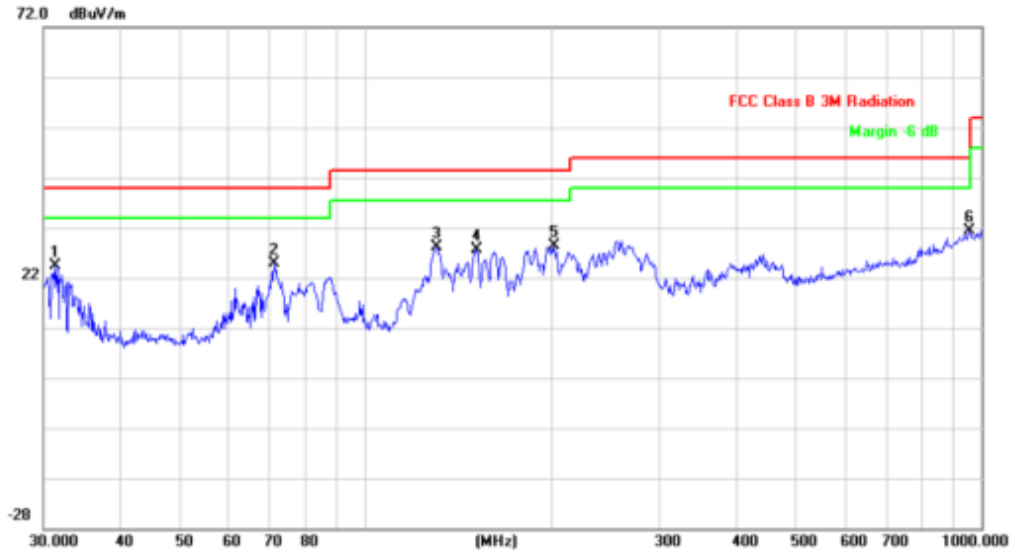


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	!	30.9620	20.31	14.24	34.55	40.00	-5.45	QP	100	144
2	!	33.2112	19.74	14.33	34.07	40.00	-5.93	QP	100	107
3	*	35.3750	20.67	14.40	35.07	40.00	-4.93	QP	100	94
4	!	37.8121	20.33	14.49	34.82	40.00	-5.18	QP	100	197
5	!	69.8450	20.29	14.69	34.98	40.00	-5.02	QP	100	244
6		73.3593	18.43	14.71	33.14	40.00	-6.86	QP	100	356

Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Measure-ment = Reading Level + Correct Factor.
3. Over = Measure-ment – Limit

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		31.3992	13.05	11.26	24.31	40.00	-15.69	QP	200	162
2		71.0803	12.74	12.14	24.88	40.00	-15.12	QP	154	0
3		130.3790	15.43	12.82	28.25	43.50	-15.25	QP	200	122
4		151.5972	14.30	13.28	27.58	43.50	-15.92	QP	200	358
5		202.1005	12.66	15.69	28.35	43.50	-15.15	QP	143	0
6 *		955.4381	1.25	30.15	31.40	46.00	-14.60	QP	140	0

Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Measure-ment = Reading Level + Correct Factor.
3. Over = Measure-ment – Limit

3.3 20dB bandwidth measurement

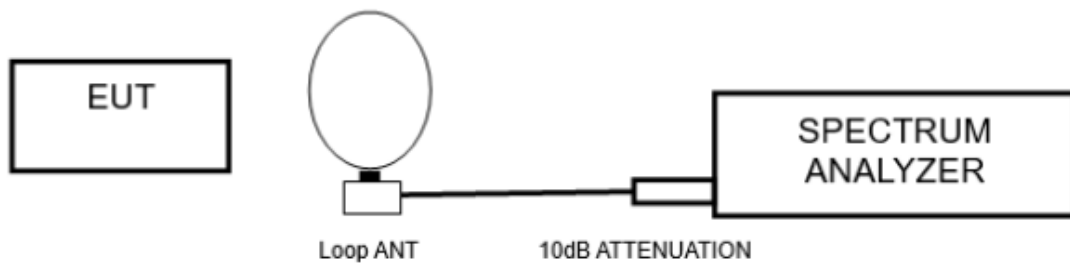
3.3.1 Limit

The field strength of any emissions appearing between the band edges and out of band shall be attenuated at least 20 dB below the level of the unmodulated carrier or to the general limits in Section 15.209

3.3.2 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Mode	
☒ Wireless charging + Transmitting	☒ Standby + Transmitting
Environmental Conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

3.3.3 Test Setup



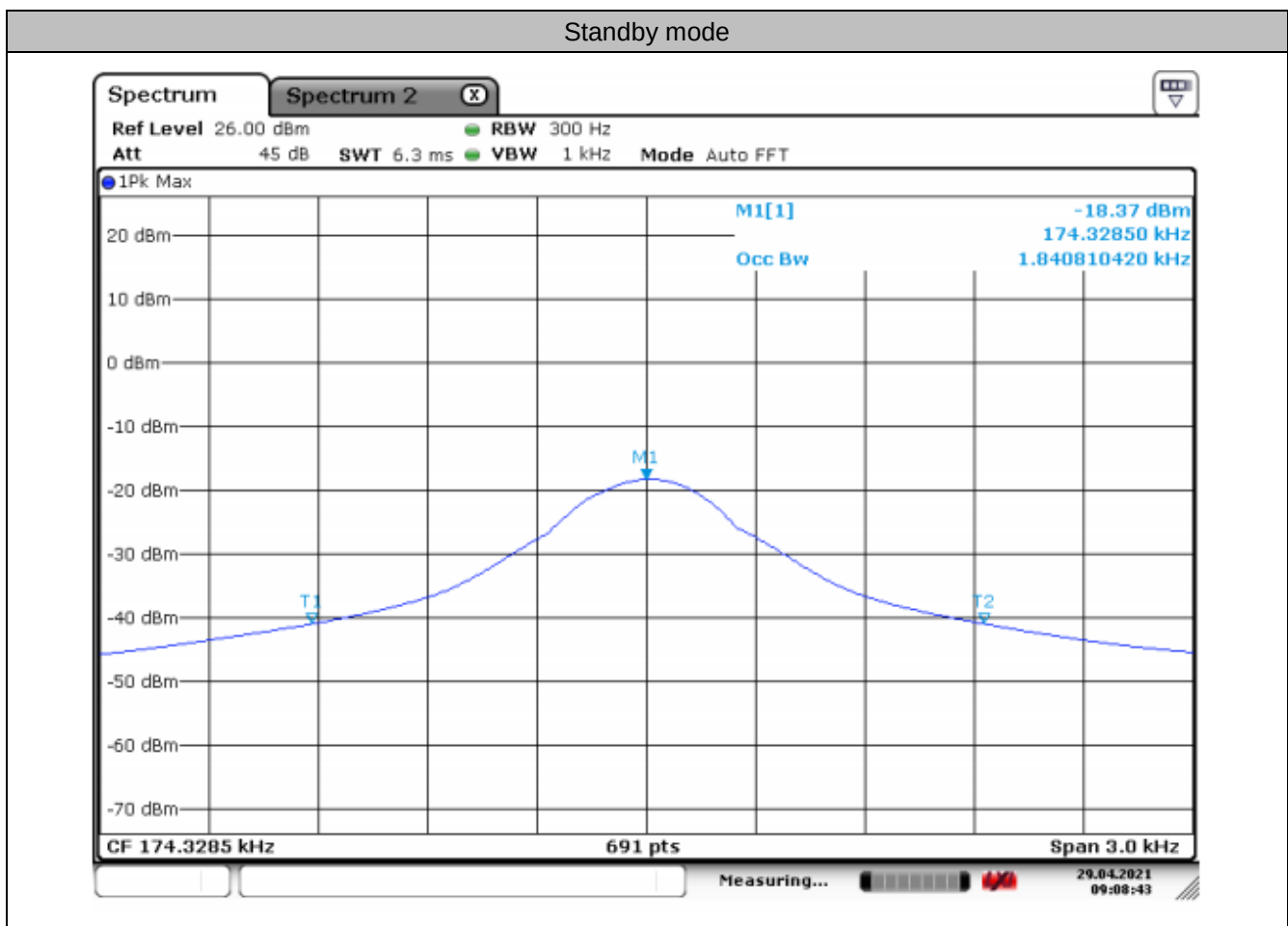
3.3.4 EUT operating condition

- Turn on the EUT.
- The EUT tested in charging mode and standby mode respectively

3.3.5 Test results

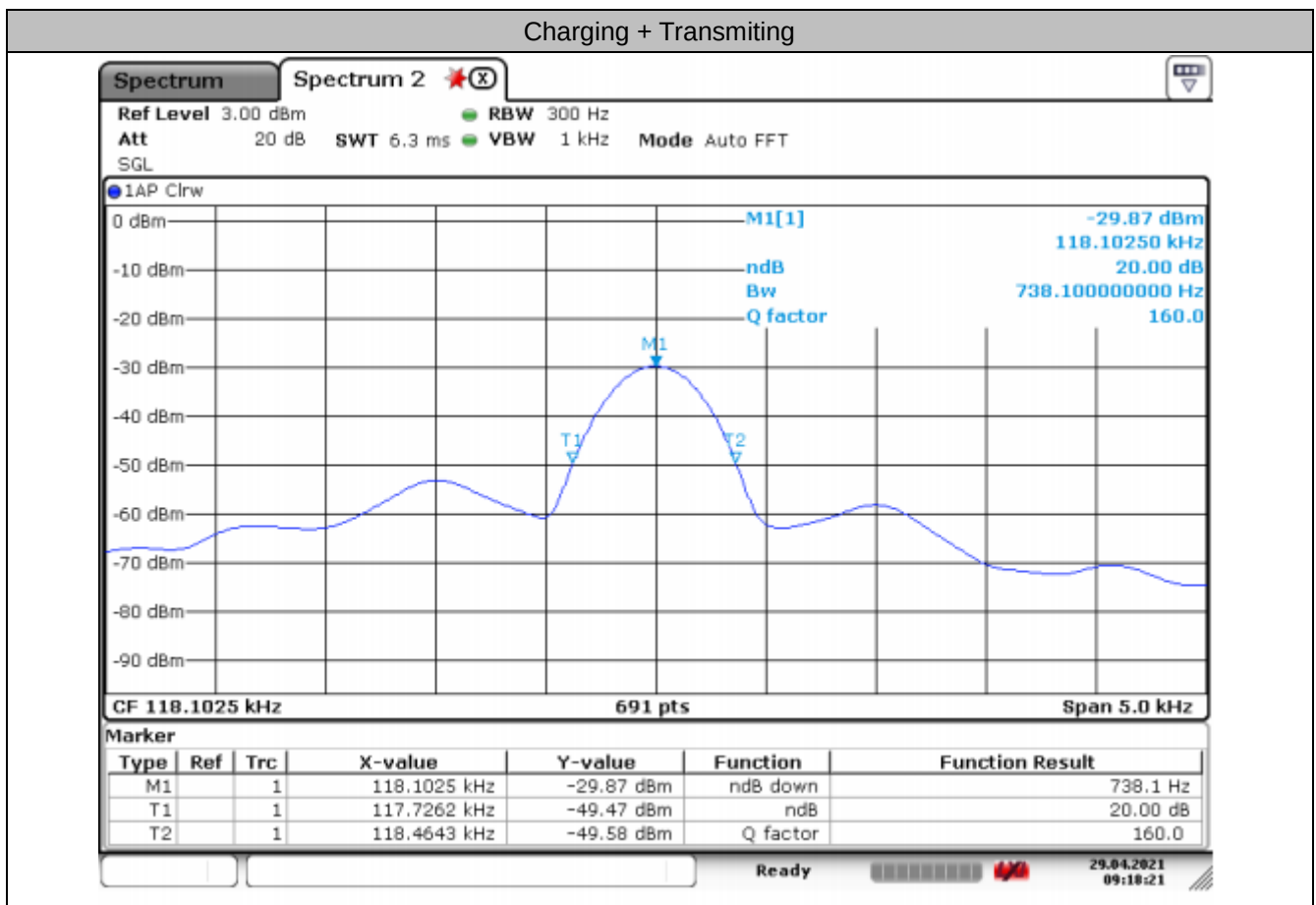
Test mode	Channel frequency (kHz)	20dB bandwidth (kHz)
Standby mode	160~180	1.8408

Lower & Upper Test Frequency Point (MHz)	Test Frequency (KHz)	P/F
Lower	173.4046	Pass
Upper	175.2454	Pass



Test mode	Channel frequency (kHz)	20dB bandwidth (kHz)
Charging + Transmitting	110~130	0.7380

Lower & Upper Test Frequency Point (MHz)	Test Frequency (KHz)	P/F
Lower	117.7262	Pass
Upper	118.4643	Pass



4. Appendix 1 Photographs of Test Set-up

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

5. Appendix 2 Photographs of EUT

Refer to Appendix 2 for EUT external and internal photos.

(END OF REPORT)