



Product Name: Floor lamp with shelves	Report No: FCC022022-0823RF0
Product Model: A-092,YL-C-001,YL-C-004	Security Classification: Open
Version: A0	Total Page: 35

TIRT Testing Report

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<i>Stone Tang</i>	<i>Randy Lv</i>	<i>Daniel Chen</i>	

RF TEST REPORT

FCC ID: 2AZRW-YLHJD889

According to

47 CFR FCC Part 15, Subpart C

ANSI C63.10:2013

Equipment : Floor lamp with shelves
Model No. : A-092(This test),YL-C-001,YL-C-004(Only the model name is different, the rest are the same)
Trademark : /
Product No. : 20220216001818
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: 2022.03.10-2022.03.13

Lab: Beijing TIRT Technology Service Co.,Ltd Shenzhen
Add: 101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street,
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History of this test report

Original Report Issue Date: 2022.03.15

- 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	Floor lamp with shelves
Model Number	A-092(This test),YL-C-001,YL-C-004(Only the model name is different, the rest are the same)
Trademark	/
Power supply	100-120V~50Hz/60Hz
Power For USB	USB*2(5V 2A)
Power For Wireless charge	6W-10W(MAX)
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

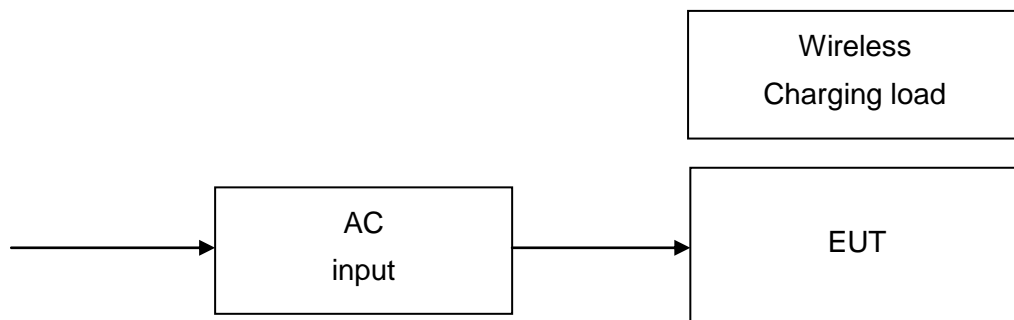
Note: NA denotes Not Applicable in this part

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	24.6°C, 56 % RH	120Vac, 60Hz	Stone Tang
Radiated Emission	24.2°C, 55 % RH	120Vac, 60Hz	Stone Tang
Antenna Requirement	24.6°C, 56 % RH	120Vac, 60Hz	Stone Tang
20dB Bandwidth	24.6°C, 56 % 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

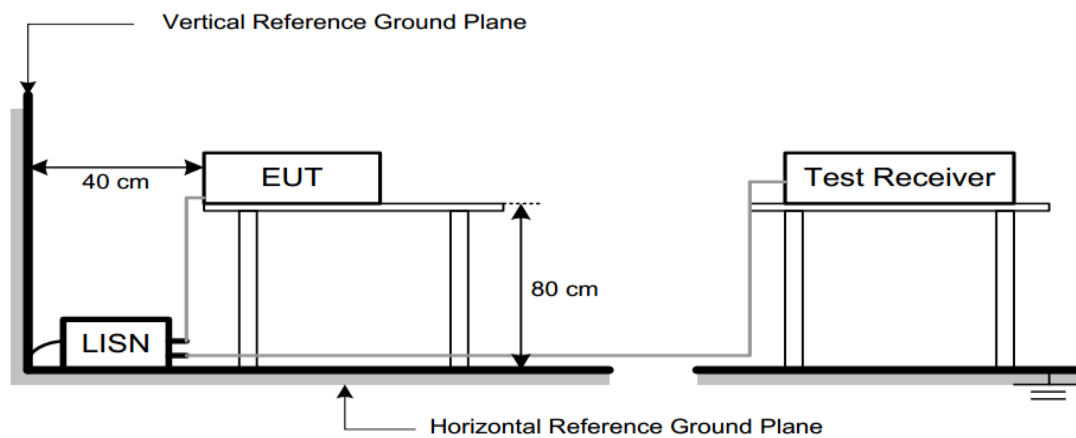
Note:

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



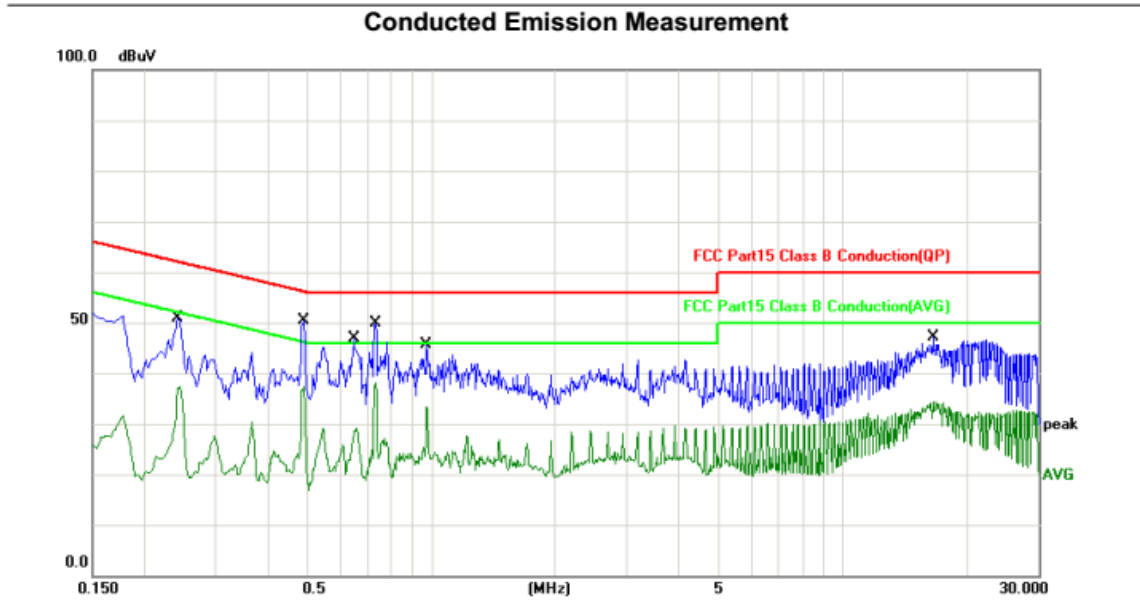
Note: For the actual test configuration, please refer to the related item – Photographs of the test configuration

3.1.4 Test Result of AC Power Line Conducted Emission

The worst measurement data as follows:

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



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2420	28.18	19.53	47.71	62.03	-14.32	QP	
2		0.2420	17.34	19.53	36.87	52.03	-15.16	AVG	
3		0.4900	27.42	19.53	46.95	56.17	-9.22	QP	
4		0.4900	16.92	19.53	36.45	46.17	-9.72	AVG	
5		0.6500	20.07	19.55	39.62	56.00	-16.38	QP	
6		0.6500	6.87	19.55	26.42	46.00	-19.58	AVG	
7	*	0.7340	28.04	19.57	47.61	56.00	-8.39	QP	
8		0.7340	17.89	19.57	37.46	46.00	-8.54	AVG	
9		0.9780	22.83	19.65	42.48	56.00	-13.52	QP	
10		0.9780	13.13	19.65	32.78	46.00	-13.22	AVG	
11		16.6540	17.53	20.74	38.27	60.00	-21.73	QP	
12		16.6540	10.40	20.74	31.14	50.00	-18.86	AVG	

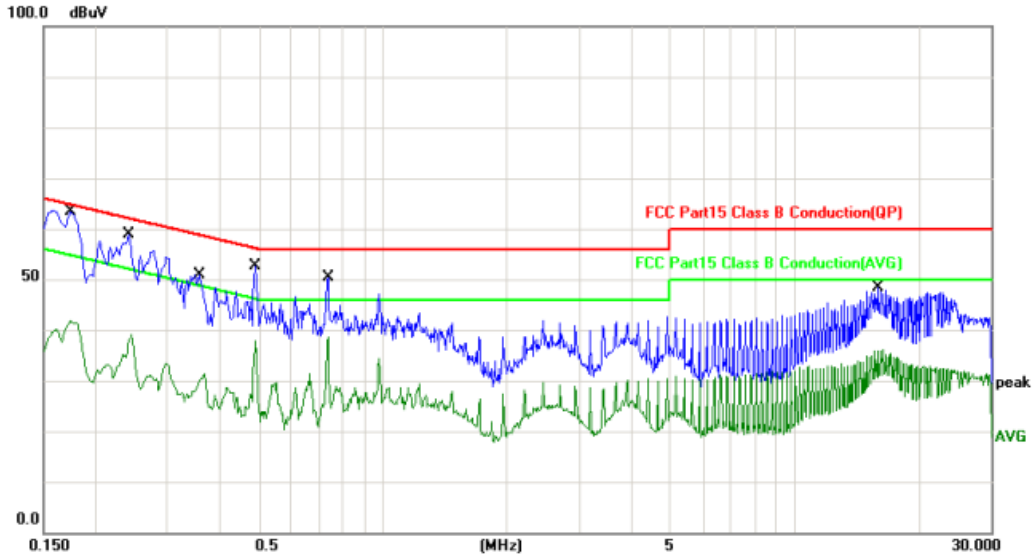
Note:

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

150kHz~30MHz

Test mode: AC 120V/60Hz

Neutral

Conducted Emission Measurement


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1740	29.88	19.70	49.58	64.77	-15.19	QP	
2		0.1740	12.46	19.70	32.16	54.77	-22.61	AVG	
3		0.2420	27.18	19.69	46.87	62.03	-15.16	QP	
4		0.2420	15.64	19.69	35.33	52.03	-16.70	AVG	
5		0.3580	17.27	19.70	36.97	58.77	-21.80	QP	
6		0.3580	4.72	19.70	24.42	48.77	-24.35	AVG	
7	*	0.4900	28.39	19.74	48.13	56.17	-8.04	QP	
8		0.4900	17.90	19.74	37.64	46.17	-8.53	AVG	
9		0.7380	26.97	19.80	46.77	56.00	-9.23	QP	
10		0.7380	16.98	19.80	36.78	46.00	-9.22	AVG	
11		15.9380	16.99	20.60	37.59	60.00	-22.41	QP	
12		15.9380	9.14	20.60	29.74	50.00	-20.26	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.

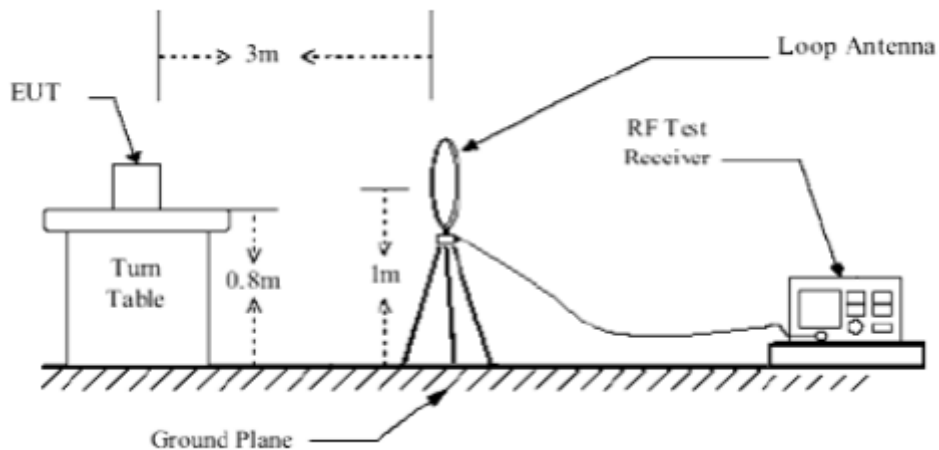
- b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c) The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical 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

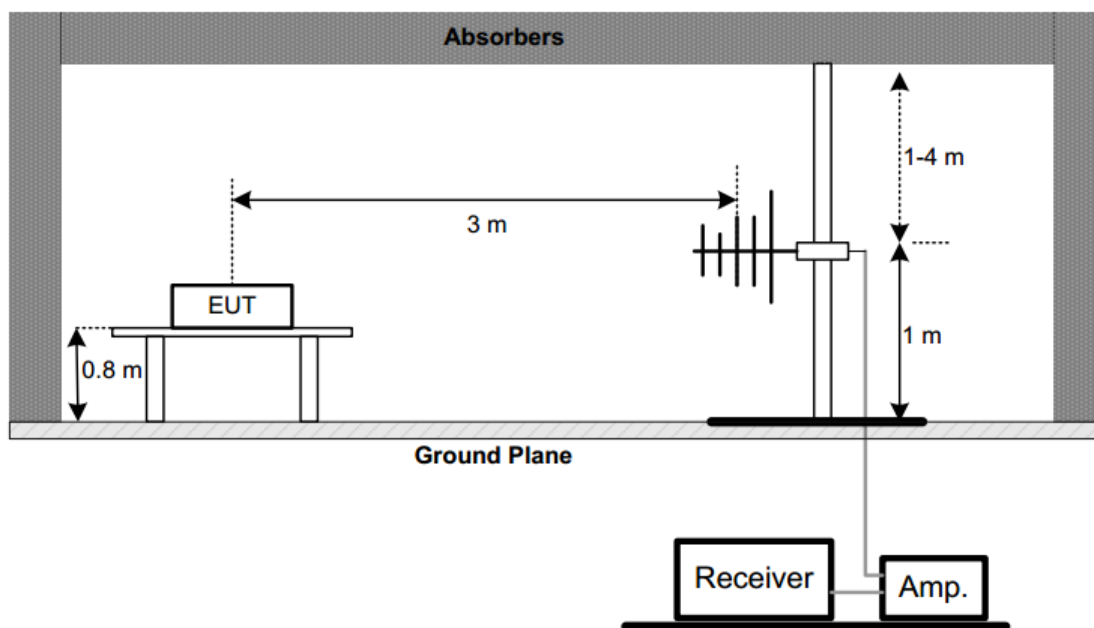
- a) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on 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



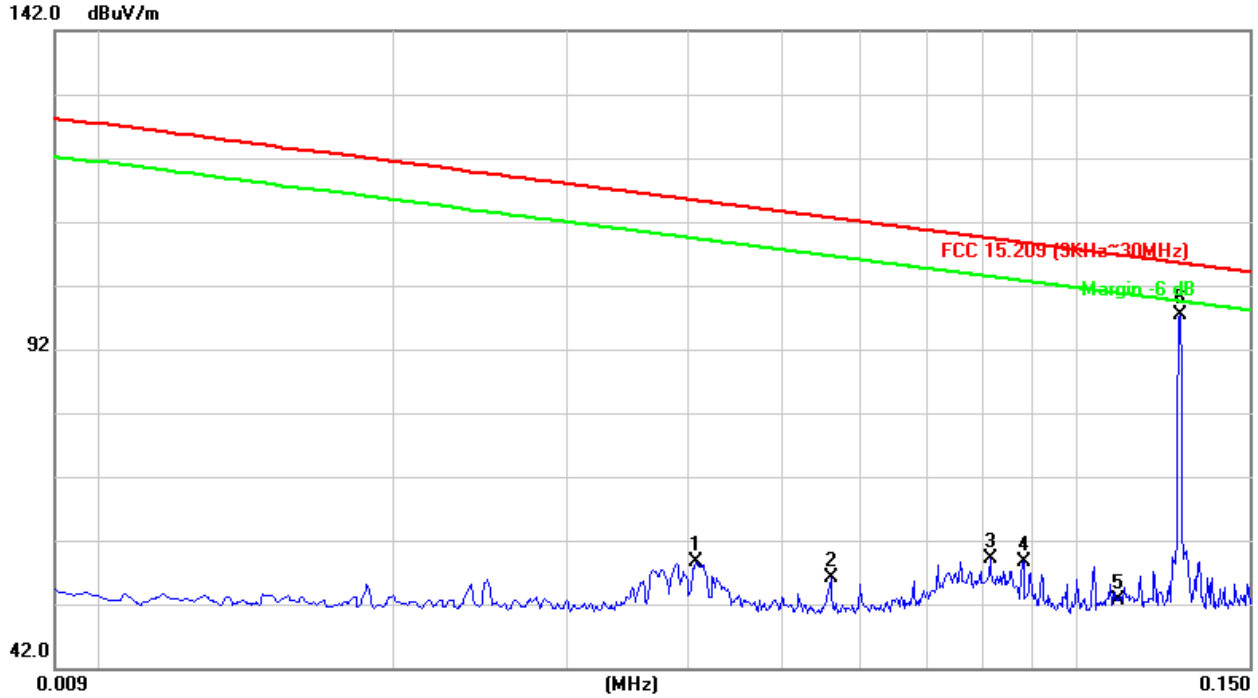
(B) Radiated Emission Test Set-Up Frequency Below 1 GHz



3.2.4 Test Result of Radiated Emission

The worst measurement data as follows:

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



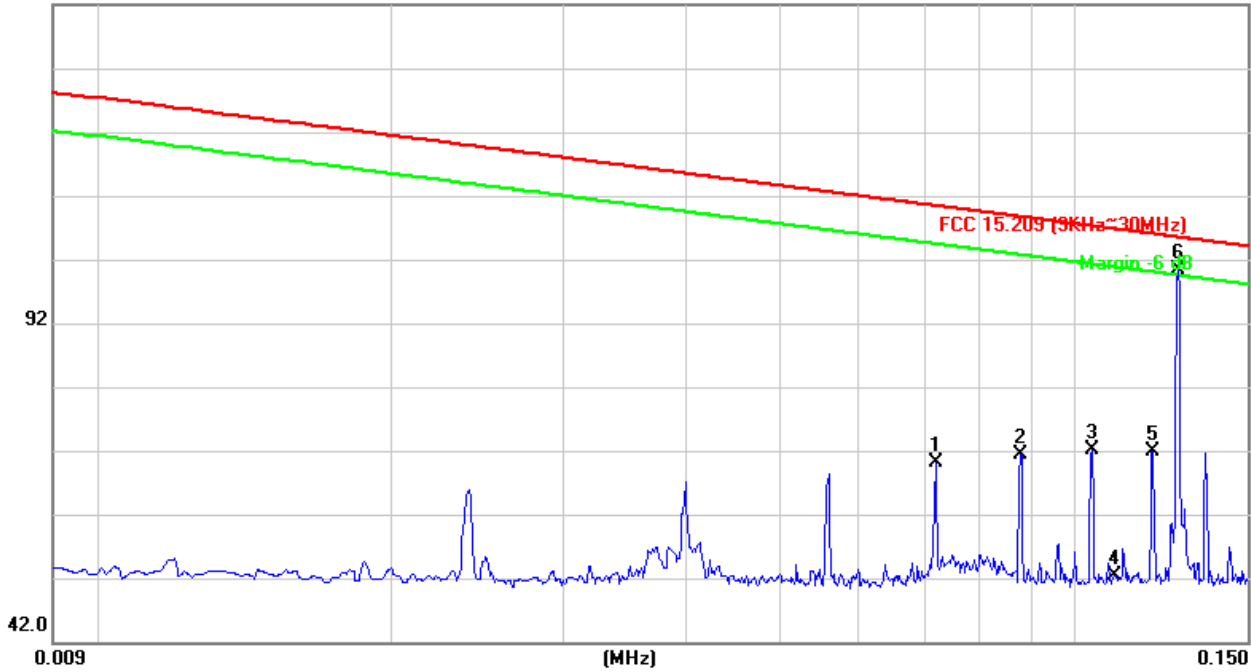
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.0408	36.95	21.58	58.53	115.33	-56.80	100	256
2	0.0560	34.50	21.59	56.09	112.60	-56.51	100	245
3	0.0816	37.53	21.64	59.17	109.36	-50.19	100	148
4	0.0880	37.02	21.65	58.67	108.71	-50.04	100	193
5	0.1100	31.00	21.68	52.68	106.78	-54.10	100	115
6*	0.1276	74.94	22.42	97.36	105.49	-8.13	100	209

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

142.0 dBuV/m



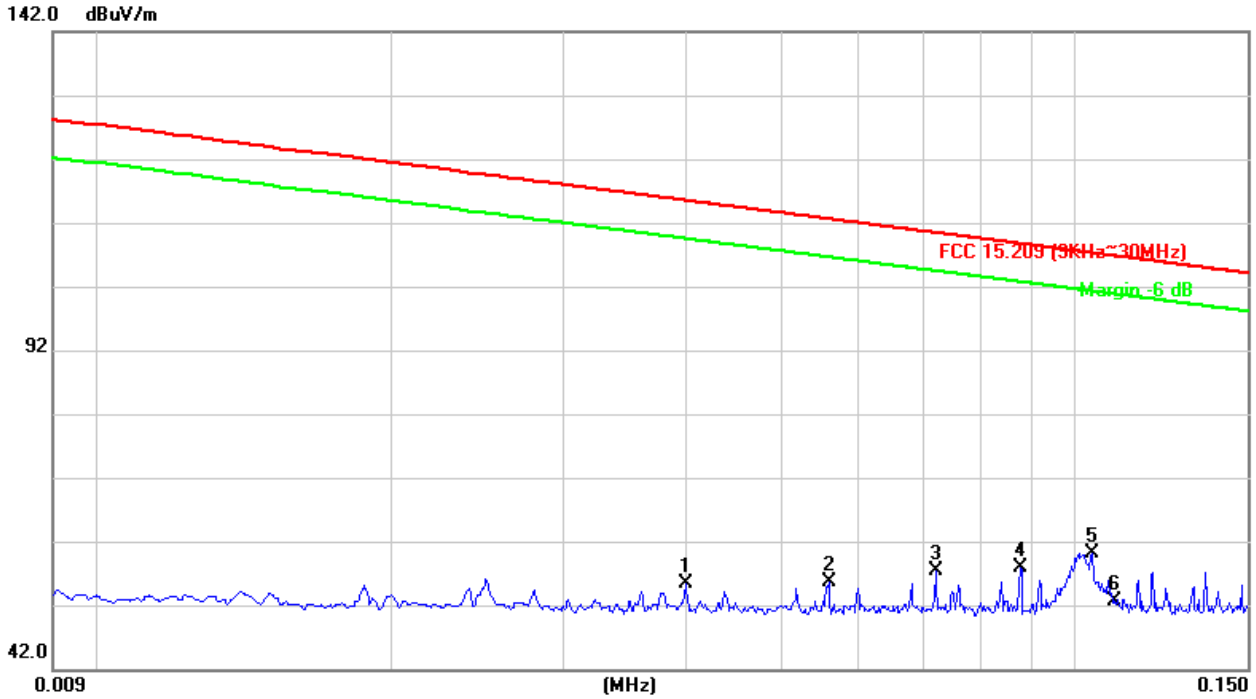
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.0720	48.61	21.61	70.22	110.45	-40.23	100	56
2	0.0880	49.70	21.65	71.35	108.71	-37.36	100	126
3	0.1041	50.08	22.10	72.18	107.26	-35.08	100	289
4	0.1100	30.62	21.68	52.30	106.78	-54.48	100	210
5	0.1202	49.50	22.38	71.88	106.01	-34.13	100	39
6*	0.1276	77.93	22.42	100.35	105.49	-5.14	100	218

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
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Horizontal

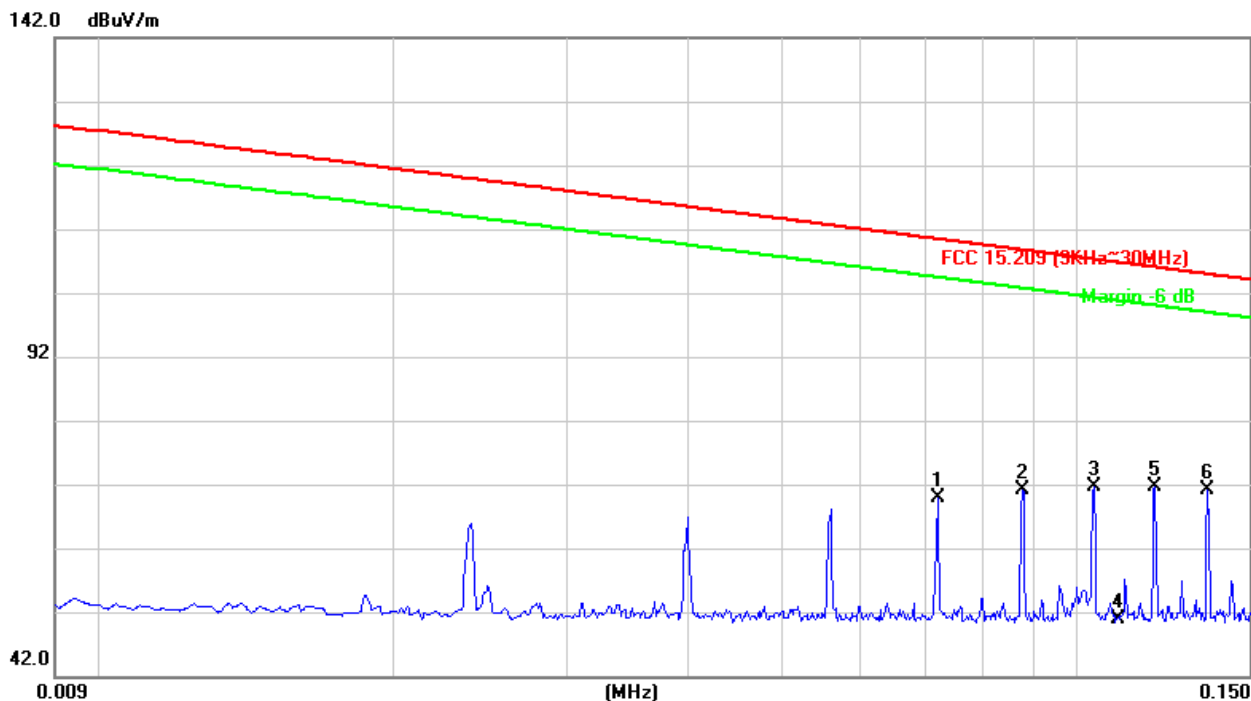


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.0400	33.94	21.56	55.50	115.53	-60.03	100	208
2	0.0560	34.15	21.59	55.74	112.62	-56.88	100	62
3	0.0720	35.69	21.61	57.30	110.45	-53.15	100	152
4	0.0880	36.17	21.65	57.82	108.71	-50.89	100	116
5*	0.1041	38.13	22.10	60.23	107.26	-47.03	100	289
6	0.1100	30.92	21.68	52.60	106.78	54.18	100	125

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



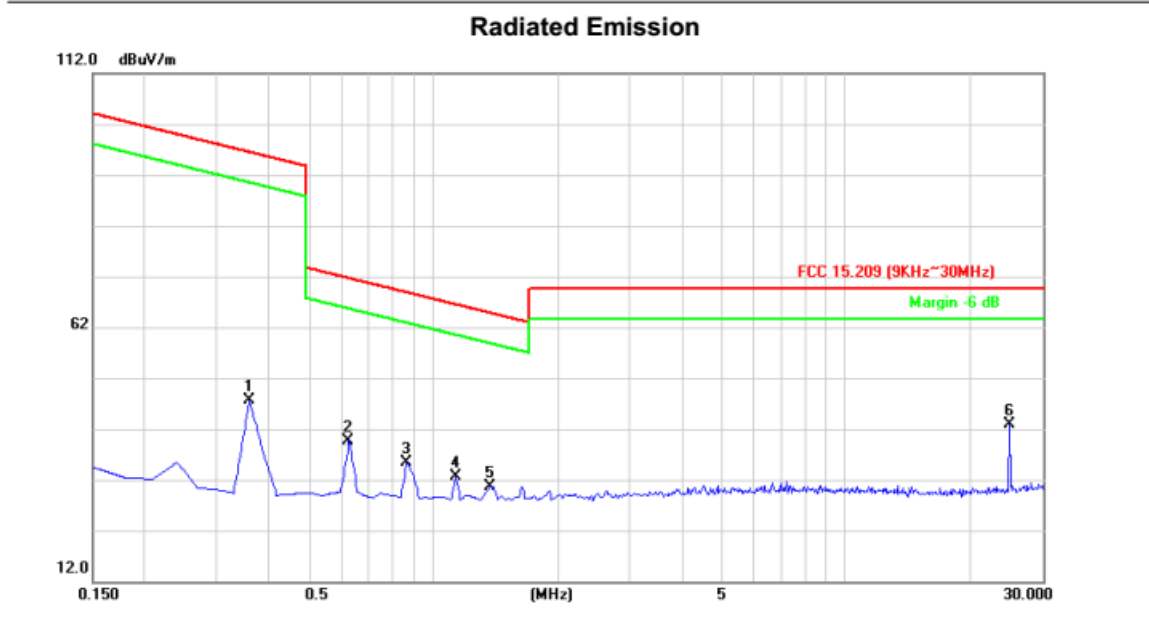
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.0720	48.21	21.61	69.82	110.45	-40.63	100	236
2	0.0880	49.41	21.65	71.06	108.71	-37.65	100	25
3	0.1041	49.54	22.10	71.64	107.26	-35.62	100	109
4	0.1100	29.28	21.68	50.96	106.78	-55.82	100	150
5	0.1202	49.16	22.38	71.54	106.01	-34.47	100	94
6*	0.1361	48.77	22.45	71.22	104.93	-33.71	100	189

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

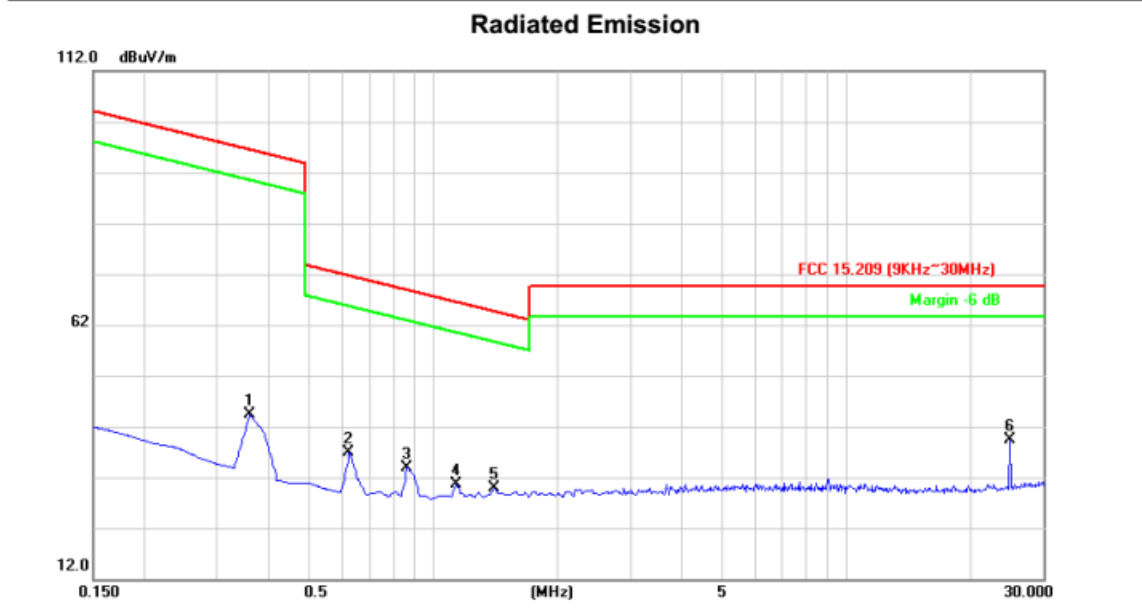


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.3591	24.84	22.78	47.62	96.50	-48.88	100	58
2	0.6280	17.28	22.32	39.60	71.64	-32.04	100	115
3	0.8671	12.88	22.51	35.39	68.84	-33.45	100	206
4	1.1360	10.99	21.68	32.67	66.50	-33.83	100	175
5	1.3750	8.69	21.97	30.66	64.84	-34.18	100	39
6*	25.0100	19.54	23.42	42.96	69.54	-26.58	100	287

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

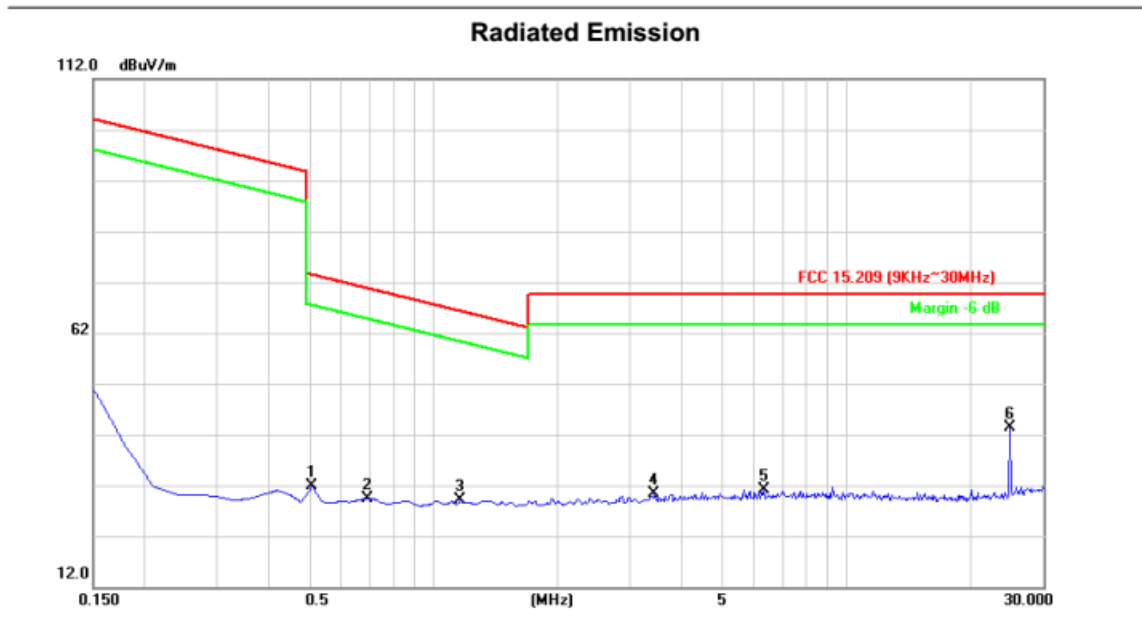


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.3591	21.53	22.78	44.31	96.50	-52.19	100	68
2	0.6280	14.51	22.32	36.83	71.64	-34.81	100	153
3	0.8671	11.30	22.51	33.81	68.84	-35.03	100	178
4	1.1360	9.02	21.68	30.70	66.50	-35.80	100	205
5	1.4050	7.83	21.99	29.82	64.65	-34.83	100	84
6*	25.0100	15.97	23.42	39.39	69.54	-30.15	100	308

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	

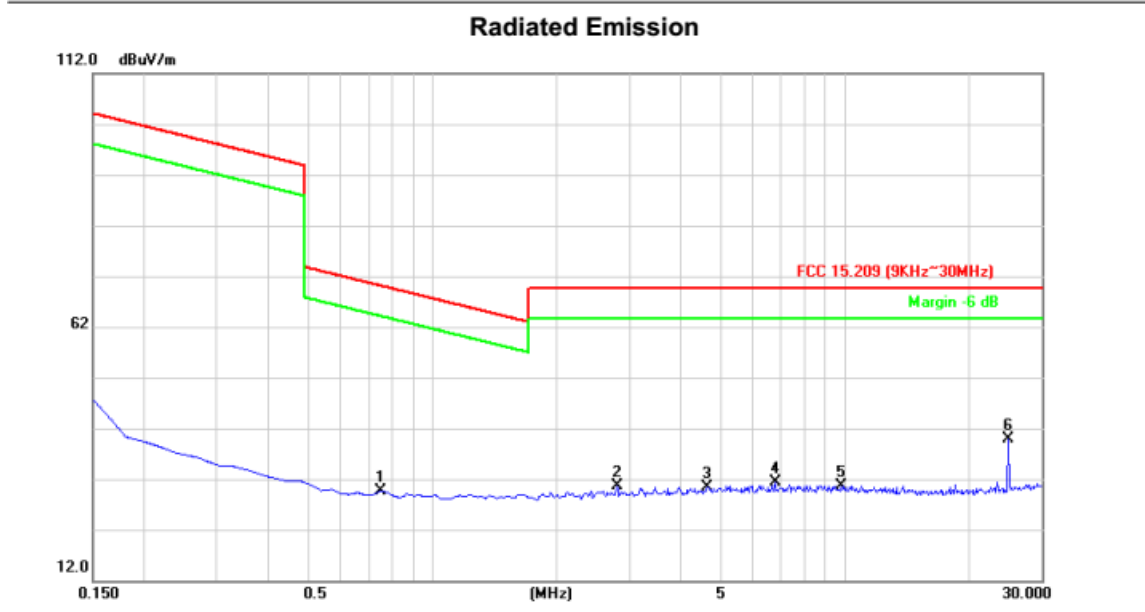


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.5085	9.34	22.51	31.85	73.48	-41.63	100	25
2	0.6877	7.04	22.38	29.42	70.86	-41.44	100	152
3	1.1660	7.34	21.73	29.07	66.27	-37.20	100	205
4	3.4367	7.75	22.64	30.39	69.54	-39.15	100	68
5	6.3351	7.99	23.09	31.08	69.54	-38.46	100	189
6*	25.0100	20.04	23.42	43.46	69.54	-26.08	100	289

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



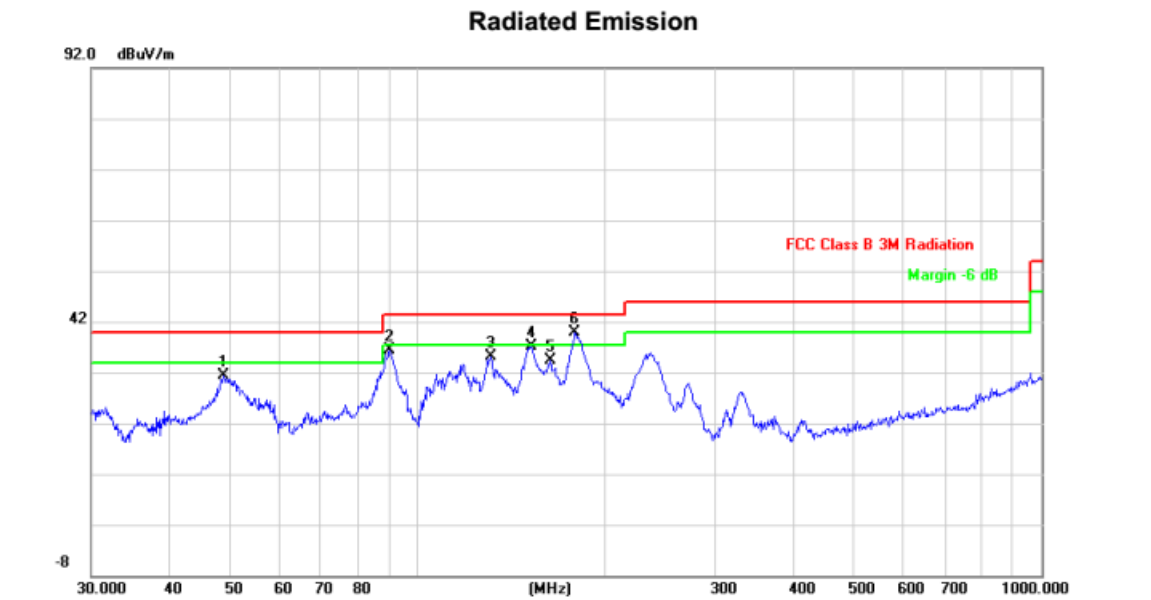
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height(cm)	Table Angle (Degree)
1	0.7475	7.26	22.38	29.64	70.13	-40.49	100	35
2	2.8093	8.70	21.97	30.67	69.54	-38.87	100	141
3	4.6617	7.55	22.81	30.36	69.54	-39.18	100	219
4	6.7833	8.40	22.89	31.29	69.54	-38.25	100	102
5	9.8012	7.61	23.12	30.73	69.54	-38.81	100	167
6*	25.0100	16.46	23.42	39.88	69.54	-29.66	100	274

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
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Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
	1	48.8430	16.71	14.60	31.31	40.00	-8.69	QP 100	0
	2	90.2205	21.49	14.77	36.26	43.50	-7.24	QP 100	265
	3	131.2965	20.27	14.92	35.19	43.50	-8.31	QP 200	234
	4	152.1297	21.97	15.13	37.10	43.50	-6.40	QP 100	163
	5	163.1818	19.12	15.26	34.38	43.50	-9.12	QP 200	197
	6 *	178.7584	24.36	15.41	39.77	43.50	-3.73	QP 400	197

Note:

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

Horizontal

Radiated Emission



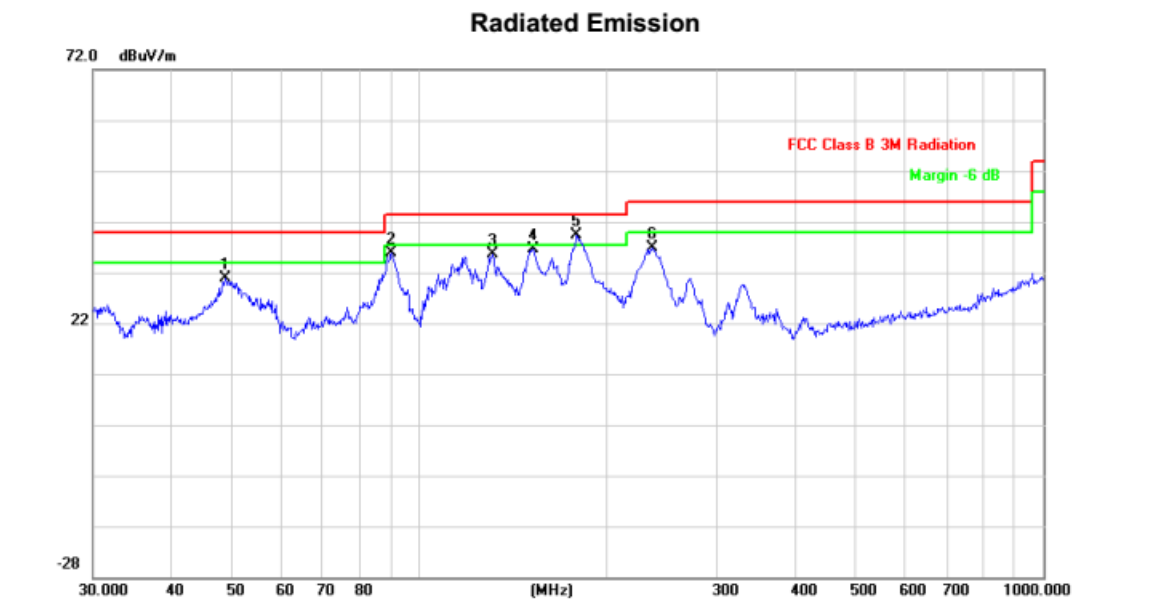
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		135.0320	18.30	12.99	31.29	43.50	-12.21	QP	200	232
2		151.0666	16.93	13.28	30.21	43.50	-13.29	QP	200	184
3		163.1818	17.44	13.53	30.97	43.50	-12.53	QP	200	197
4	*	180.0165	24.84	14.39	39.23	43.50	-4.27	QP	100	180
5		191.0738	14.12	15.10	29.22	43.50	-14.28	QP	100	289
6		234.9910	17.92	16.25	34.17	46.00	-11.83	QP	100	292

Note:

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

30MHz~1GHz	Test mode: Standby + Transmitting
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Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		48.8427	16.21	14.60	30.81	40.00	-9.19	QP	100	32
2		90.2202	20.99	14.77	35.76	43.50	-7.74	QP	100	271
3		131.2965	20.77	14.92	35.69	43.50	-7.81	QP	200	238
4		152.1297	21.47	15.13	36.60	43.50	-6.90	QP	100	161
5 *		178.7581	23.86	15.41	39.27	43.50	-4.23	QP	200	199
6		236.6447	20.58	16.29	36.87	46.00	-9.13	QP	200	187

Note:

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

Horizontal

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		89.5900	16.37	12.56	28.93	43.50	-14.57	QP	100	154
2		119.4360	13.37	12.41	25.78	43.50	-17.72	QP	200	238
3		135.0318	19.30	12.99	32.29	43.50	-11.21	QP	200	192
4	*	180.0164	24.66	14.39	39.05	43.50	-4.45	QP	200	183
5		234.9910	17.42	16.25	33.67	46.00	-12.33	QP	100	299
6		327.8872	13.09	18.50	31.59	46.00	-14.41	QP	100	175

Note:

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

3.3 20dB bandwidth measurement

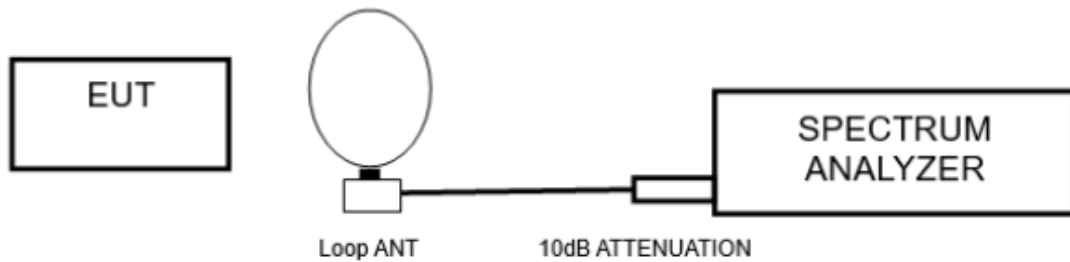
3.3.1 Limit

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	
<input checked="" type="radio"/> Conducted Measurement	<input type="radio"/> Radiated Measurement
Test Mode	
<input checked="" type="radio"/> Wireless charging + Transmitting	<input checked="" type="radio"/> Standby + Transmitting
Environmental Conditions	
<input checked="" type="radio"/> Normal	<input type="radio"/> Normal and Extreme
Note: ● : Test ○ : No Test	

3.3.3 Test Setup



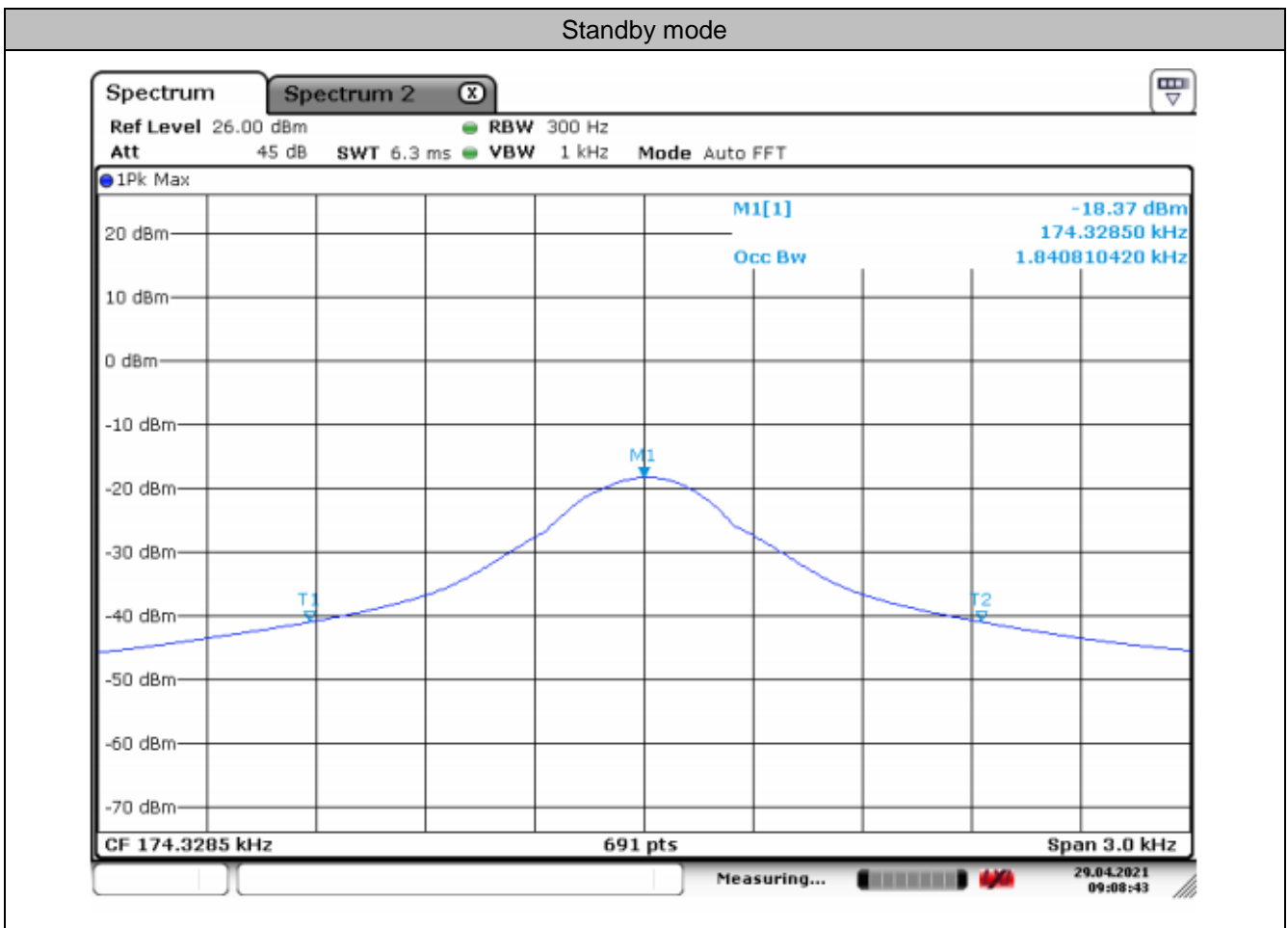
3.3.4 EUT operating condition

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

3.3.5 Test results

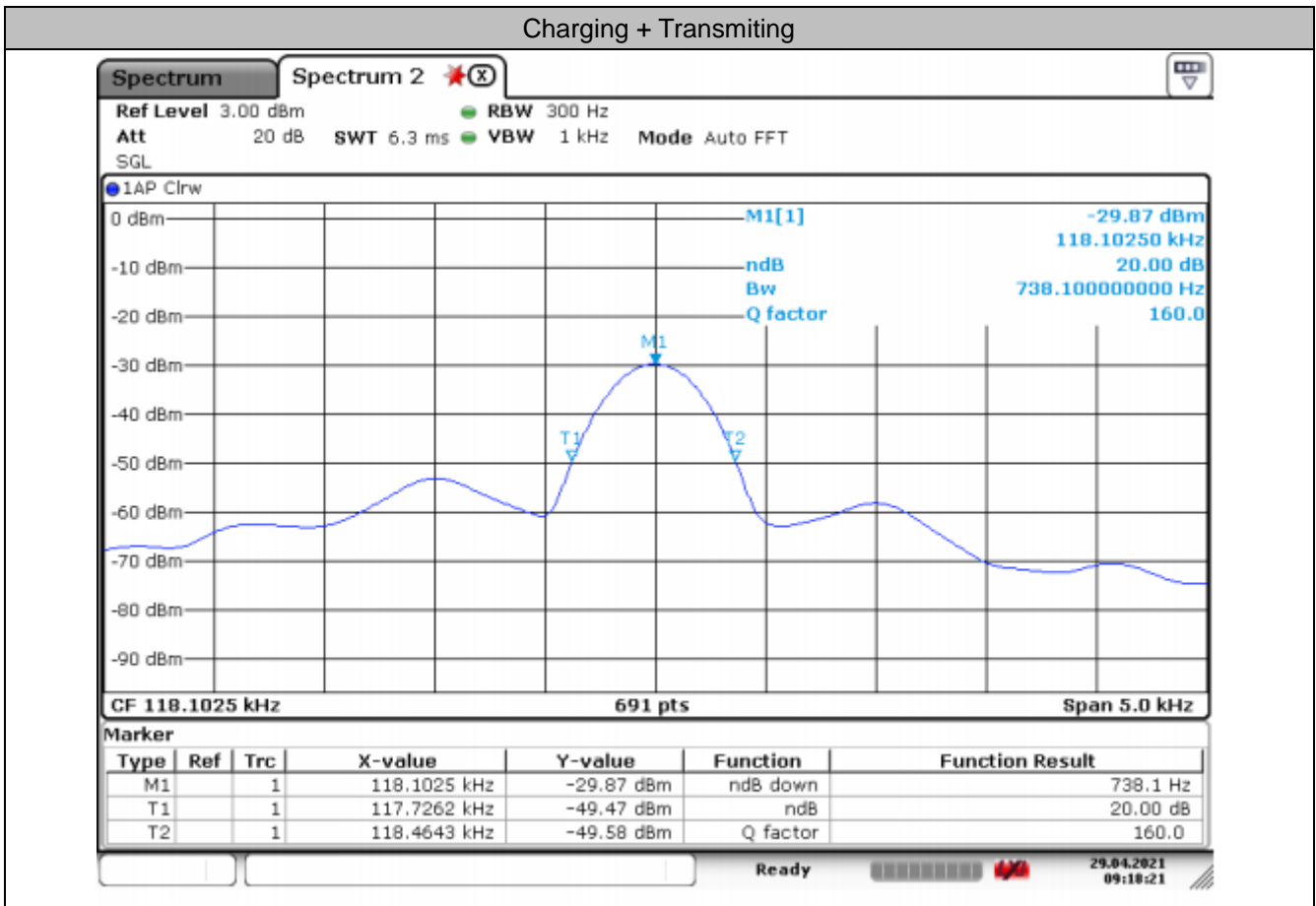
Test mode	Channel frequency (kHz)	20dB bandwidth (kHz)
Standby mode	160~180	1.841

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	0.738

Lower & Upper Test Frequency Point (MHz)	Test Frequency (KHz)	P/F
Lower	117.726	Pass
Upper	118.464	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)