



Test Report

FCC ID: 2AXMQ-PBD100W2

Date of issue: Sept. 17, 2020

Report number: MTi20070209-4E1

Sample description: Wireless Charging Power Bank

Model(s): PB-D100W2

Applicant: Shenzhen iSonteck Co., Ltd

Address: F/5, Zhongkong Bldg, Hengfeng Industrial Park, Zhoushi Rd,
Xixiang, Bao'an District, Shenzhen China

Date of test: July 10, 2020 - Sept. 17, 2020

Shenzhen Microtest Co., Ltd.
<http://www.mtitest.com>

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Test Result Certification

Applicant's name: Shenzhen iSonteck Co., Ltd

Address: F/5, Zhongkong Bldg, Hengfeng Industrial Park, Zhoushi Rd, Xixiang, Bao'an District, Shenzhen China

Manufacture's name: Shenzhen iSonteck Co., Ltd

Address: F/5, Zhongkong Bldg, Hengfeng Industrial Park, Zhoushi Rd, Xixiang, Bao'an District, Shenzhen China

Product name: Wireless Charging Power Bank

Trademark: Vogtech or OEM

Model name: PB-D100W2

Standards: FCC Part 15C

Test procedure: ANSI C63.10-2013

This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Tested by:

Demi Mu

Sept. 17, 2020

Reviewed by:

Leo Su

Sept. 17, 2020

Approved by:

Tom Xue

Sept. 17, 2020



1 GENERAL INFORMATION

1.1 Feature of equipment under test (EUT)

Product name:	Wireless Charging Power Bank
Model name:	PB-D100W2
Model difference:	N/A
Operation frequency:	115–205 kHz
Modulation type:	Load modulation
Antenna type:	Coil Antenna
Power supply:	DC 9V from adapter AC 120V/60Hz or DC 3.7V from battery
Battery:	DC 3.7V 10000mAh
Adapter information:	N/A
EUT serial number:	MTi20070209-4-S0001

1.2 Test mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test mode	Description
Mode 1	Charging + TX

Note:

1: The test modes were carried out for all operation modes. The final test mode of the EUT was the worst test mode for EMI, and its test data was showed.

2: EUT is tested under full load.



1.3 EUT test setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.4 Ancillary equipment

Equipment	Model	S/N	Manufacturer
Adapter	HW-090200CH0	/	Huizhou BYD Electronics Co., Ltd.
Load	/	/	/



2 Summary of Test Result

Item	FCC Part No.	Description of Test	Result
1	FCC PART 15.203	Antenna requirement	Pass
2	FCC PART 15.207	Conducted emission	Pass
3	FCC PART 15.209	Radiated emission	Pass
4	FCC Part 15.215	20dB bandwidth	Pass

2.1 Operation channel list

Channel	Frequency (kHz)
Low	115
Middle	122
High	205

2.2 Test channel

Channel	Frequency (kHz)
Middle	122



3 Test Facilities and Accreditations

3.1 Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd
Location	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China.
FCC Registration No.:	448573

3.2 Environmental conditions

Temperature:	15°C~35°C
Humidity	20%~75%
Atmospheric pressure	98kPa~101kPa

3.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

RF frequency	1 x 10-7
RF power, conducted	± 1 dB
Conducted emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	± 5 %

3.4 Test software

Software Name	Manufacturer	Model	Version
RF Test System	Shenzhen JS tonscent co., ltd	JS1120-3	2.5.77.0418



4 List of test equipment

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E043	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2020/06/04	2021/06/03
MTI-E044	TRILOG Broadband Antenna	schwarzb eck	VULB 9163	9163-133 8	2020/06/05	2021/06/04
MTI-E047	Amplifier	Hewlett-P ackard	8447F	3113A061 50	2020/06/04	2021/06/03
MTI-E089	ESG Vector Signal Generator	Agilent	N5182A	MY49060 455	2020/06/03	2021/06/02
MTI-E058	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051 240	2020/07/03	2021/07/04
MTI-E062	PXA Signal Analyzer	Agilent	N9030A	MY51350 296	2020/06/04	2021/06/03
MTI-E066	MXA Signal Analyzer	Agilent	N9020A	MY50143 483	2020/06/04	2021/06/03
MTI-E078	Synthesized Sweeper	Agilent	83752A	3610A019 57	2020/06/04	2021/06/03
MTI-E079	DC Power Supply	Agilent	E3632A	MY40027 695	2020/06/04	2021/06/03
MTI-E021	EMI Test Receiver	Rohde&schwarz	ESCS30	100210	2020/06/04	2021/06/03
MTI-E022	Pulse Limiter	Schwarzb eck	VSTD 9561-F	00679	2020/06/03	2021/06/02
MTI-E023	Artificial mains network	Schwarzb eck	NSLK 8127	NSLK 8127 #841	2020/06/04	2021/06/03
MTI-E046	Active Loop Antenna	Schwarzb eck	FMZB 1519 B	00044	2020/06/05	2021/06/04
MTI-E048	Amplifier	Agilent	8449B	3008A024 00	2020/07/03	2021/07/04
MTI-E072	Thermometer Clock Humidity Monitor	-	HTC-1	/	2020/06/07	2021/06/06
MTI-E090	Test Loop Antenna	DATETEK	LA-001	77140963 4	2020/06/05	2021/06/04

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



5 Test Results

5.1 Antenna requirement

5.1.1 Standard requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device

5.1.2 EUT Antenna

The EUT antenna is Coil Antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.



5.2 Conducted emission

5.2.1 Limits

For the following equipment, when designed to be connected to the public utility (AC) power line the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies shall not exceed the limits in the following tables. Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal using a 50 μ H/50 ohms line impedance stabilization network (LISN).

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.5 -5	56	46
5 -30	60	50

Note:

the limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

5.2.2 Test Procedures

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

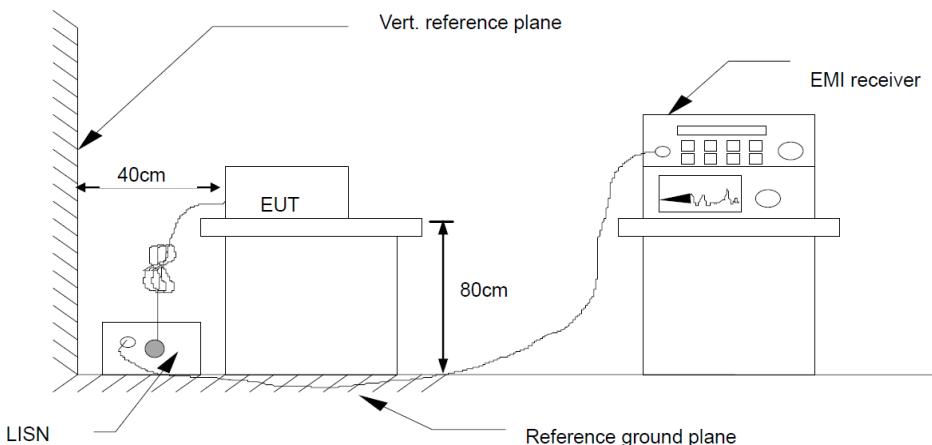
Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN is at least 80 cm from nearest part of EUT chassis.

For the actual test configuration, please refer to the related Item – photographs of the test setup.

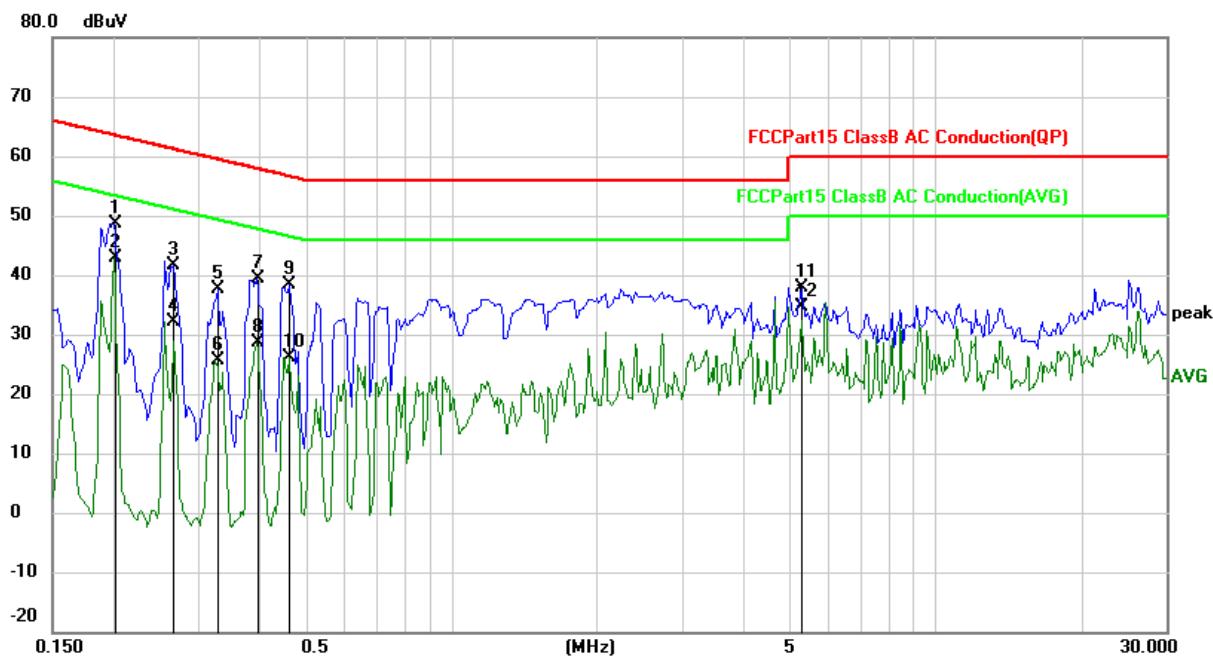
5.2.3 Test Setup



5.2.4 Test Result



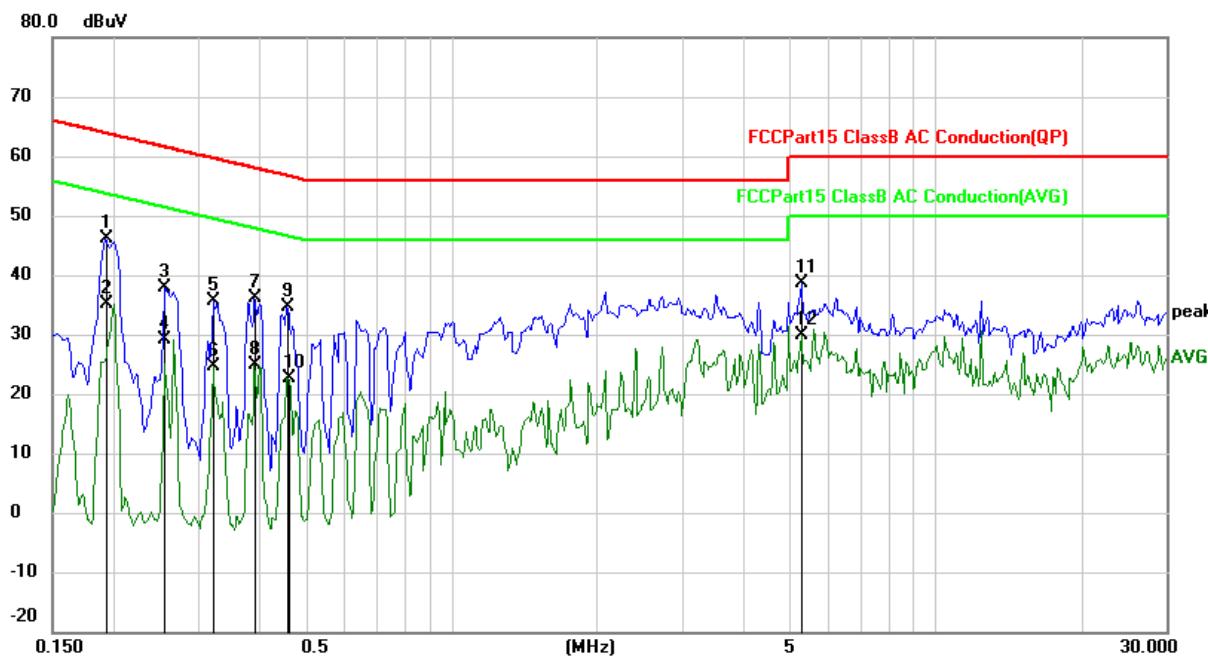
EUT:	Wireless Charging Power Bank	Model Name:	PB-D100W2
Pressure:	101kPa	Phase:	L
Test voltage:	DC 9V from adapter AC 120V/60Hz	Test mode:	Mode 1



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Over Detector
1		0.2008	38.99	9.73	48.72	63.58	-14.86	QP
2	*	0.2008	33.20	9.73	42.93	53.58	-10.65	AVG
3		0.2672	31.83	9.74	41.57	61.20	-19.63	QP
4		0.2672	22.44	9.74	32.18	51.20	-19.02	AVG
5		0.3297	27.91	9.78	37.69	59.46	-21.77	QP
6		0.3297	15.76	9.78	25.54	49.46	-23.92	AVG
7		0.3961	29.49	9.82	39.31	57.93	-18.62	QP
8		0.3961	18.83	9.82	28.65	47.93	-19.28	AVG
9		0.4625	28.53	9.86	38.39	56.65	-18.26	QP
10		0.4625	16.31	9.86	26.17	46.65	-20.48	AVG
11		5.2930	27.75	10.06	37.81	60.00	-22.19	QP
12		5.2930	24.66	10.06	34.72	50.00	-15.28	AVG



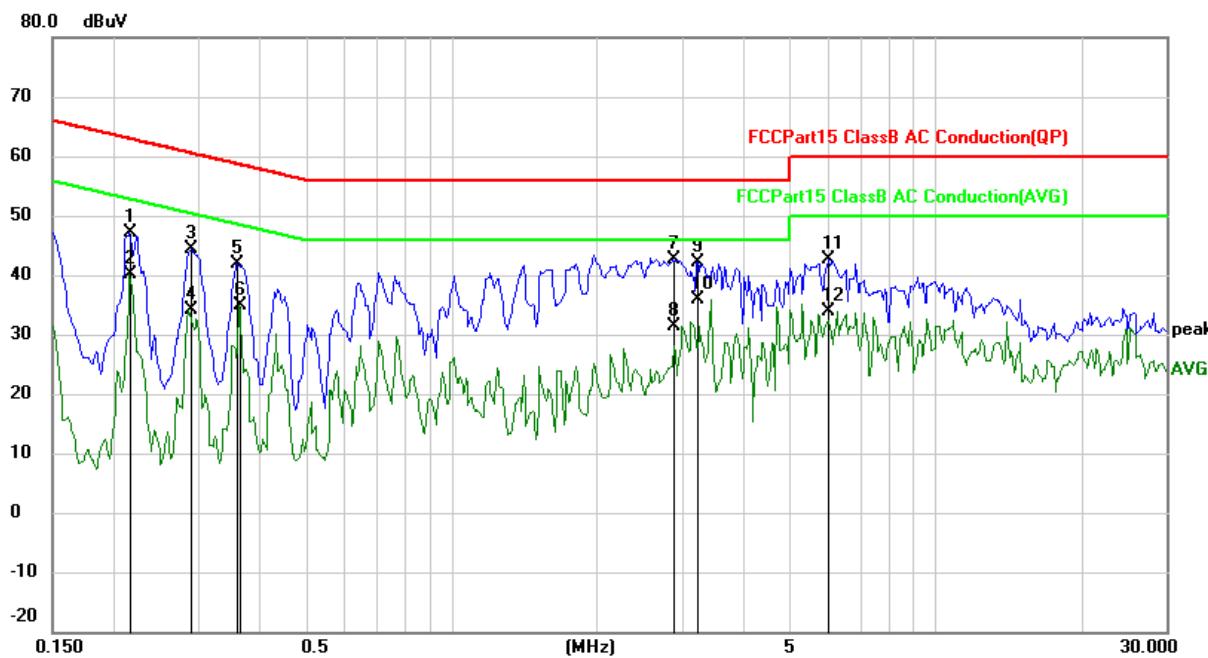
EUT:	Wireless Charging Power Bank	Model Name:	PB-D100W2
Pressure:	101kPa	Phase:	N
Test voltage:	DC 9V from adapter AC 120V/60Hz	Test mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1930	36.43	9.73	46.16	63.91	-17.75	QP
2		0.1930	25.44	9.73	35.17	53.91	-18.74	AVG
3		0.2555	28.11	9.73	37.84	61.58	-23.74	QP
4		0.2555	19.35	9.73	29.08	51.58	-22.50	AVG
5		0.3219	25.91	9.77	35.68	59.66	-23.98	QP
6		0.3219	14.83	9.77	24.60	49.66	-25.06	AVG
7		0.3922	26.19	9.82	36.01	58.02	-22.01	QP
8		0.3922	15.11	9.82	24.93	48.02	-23.09	AVG
9		0.4586	24.70	9.86	34.56	56.72	-22.16	QP
10		0.4588	12.72	9.86	22.58	46.71	-24.13	AVG
11		5.2891	28.60	10.06	38.66	60.00	-21.34	QP
12		5.2891	19.83	10.06	29.89	50.00	-20.11	AVG



EUT:	Wireless Charging Power Bank	Model Name:	PB-D100W2
Pressure:	101kPa	Phase:	L
Test voltage:	DC 5V from adapter AC 240V/60Hz	Test mode:	Mode 1



No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over
			Level dBuV	Factor dB	ment dBuV		
1		0.2164	37.44	9.73	47.17	62.96	-15.79 QP
2		0.2164	30.42	9.73	40.15	52.96	-12.81 AVG
3		0.2906	34.74	9.75	44.49	60.51	-16.02 QP
4		0.2906	24.38	9.75	34.13	50.51	-16.38 AVG
5		0.3608	32.07	9.79	41.86	58.71	-16.85 QP
6		0.3648	25.18	9.80	34.98	48.62	-13.64 AVG
7		2.8766	32.75	9.99	42.74	56.00	-13.26 QP
8		2.8766	21.34	9.99	31.33	46.00	-14.67 AVG
9		3.2225	32.23	10.01	42.24	56.00	-13.76 QP
10 *		3.2225	25.95	10.01	35.96	46.00	-10.04 AVG
11		6.0076	32.43	10.10	42.53	60.00	-17.47 QP
12		6.0076	23.74	10.10	33.84	50.00	-16.16 AVG



EUT:	Wireless Charging Power Bank	Model Name:	PB-D100W2																																																																																																																					
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<p>The figure is a spectral plot showing RF emissions in dBuV on the y-axis (from -20 to 80.0) versus Frequency in MHz on the x-axis (from 0.150 to 30.000). Two horizontal lines represent FCC Part 15 Class B limits: a red line for QP (Quasi-Peak) and a green line for AVG (Average). The QP limit starts at approximately 65 dBuV and drops to 58 dBuV at 5 MHz. The AVG limit starts at approximately 55 dBuV and drops to 45 dBuV at 5 MHz. A blue line represents the measured emission levels, which generally stay below the limits. Data points are marked with 'X' and numbered 1 through 12.</p>																																																																																																																								
<table border="1"> <thead> <tr> <th>No.</th> <th>Mk.</th> <th>Freq. MHz</th> <th>Reading Level dBuV</th> <th>Correct Factor dB</th> <th>Measure- ment dBuV</th> <th>Limit dBuV</th> <th>Over dB</th> <th>Over Detector</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td>0.2203</td><td>38.93</td><td>9.73</td><td>48.66</td><td>62.81</td><td>-14.15</td><td>QP</td></tr> <tr><td>2</td><td></td><td>0.2203</td><td>27.33</td><td>9.73</td><td>37.06</td><td>52.81</td><td>-15.75</td><td>AVG</td></tr> <tr><td>3</td><td></td><td>0.2906</td><td>36.57</td><td>9.75</td><td>46.32</td><td>60.51</td><td>-14.19</td><td>QP</td></tr> <tr><td>4</td><td>*</td><td>0.2906</td><td>31.71</td><td>9.75</td><td>41.46</td><td>50.51</td><td>-9.05</td><td>AVG</td></tr> <tr><td>5</td><td></td><td>0.3648</td><td>33.49</td><td>9.80</td><td>43.29</td><td>58.62</td><td>-15.33</td><td>QP</td></tr> <tr><td>6</td><td></td><td>0.3648</td><td>23.28</td><td>9.80</td><td>33.08</td><td>48.62</td><td>-15.54</td><td>AVG</td></tr> <tr><td>7</td><td></td><td>0.8062</td><td>31.71</td><td>9.93</td><td>41.64</td><td>56.00</td><td>-14.36</td><td>QP</td></tr> <tr><td>8</td><td></td><td>0.8062</td><td>23.18</td><td>9.93</td><td>33.11</td><td>46.00</td><td>-12.89</td><td>AVG</td></tr> <tr><td>9</td><td></td><td>1.3179</td><td>30.80</td><td>9.96</td><td>40.76</td><td>56.00</td><td>-15.24</td><td>QP</td></tr> <tr><td>10</td><td></td><td>1.3179</td><td>22.25</td><td>9.96</td><td>32.21</td><td>46.00</td><td>-13.79</td><td>AVG</td></tr> <tr><td>11</td><td></td><td>3.4766</td><td>30.77</td><td>10.02</td><td>40.79</td><td>56.00</td><td>-15.21</td><td>QP</td></tr> <tr><td>12</td><td></td><td>3.4766</td><td>24.99</td><td>10.02</td><td>35.01</td><td>46.00</td><td>-10.99</td><td>AVG</td></tr> </tbody> </table>				No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Over Detector	1		0.2203	38.93	9.73	48.66	62.81	-14.15	QP	2		0.2203	27.33	9.73	37.06	52.81	-15.75	AVG	3		0.2906	36.57	9.75	46.32	60.51	-14.19	QP	4	*	0.2906	31.71	9.75	41.46	50.51	-9.05	AVG	5		0.3648	33.49	9.80	43.29	58.62	-15.33	QP	6		0.3648	23.28	9.80	33.08	48.62	-15.54	AVG	7		0.8062	31.71	9.93	41.64	56.00	-14.36	QP	8		0.8062	23.18	9.93	33.11	46.00	-12.89	AVG	9		1.3179	30.80	9.96	40.76	56.00	-15.24	QP	10		1.3179	22.25	9.96	32.21	46.00	-13.79	AVG	11		3.4766	30.77	10.02	40.79	56.00	-15.21	QP	12		3.4766	24.99	10.02	35.01	46.00	-10.99	AVG
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11		3.4766	30.77	10.02	40.79	56.00	-15.21	QP																																																																																																																
12		3.4766	24.99	10.02	35.01	46.00	-10.99	AVG																																																																																																																



5.3 Radiated emission

5.3.1 Limits

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

The limit for radiated test was performed according to FCC PART 15C.

The tighter limit applies at the band edges.

Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP



Start ~ Stop Frequency

30MHz~1000MHz / RB 120kHz for QP

5.3.2 Test Procedures

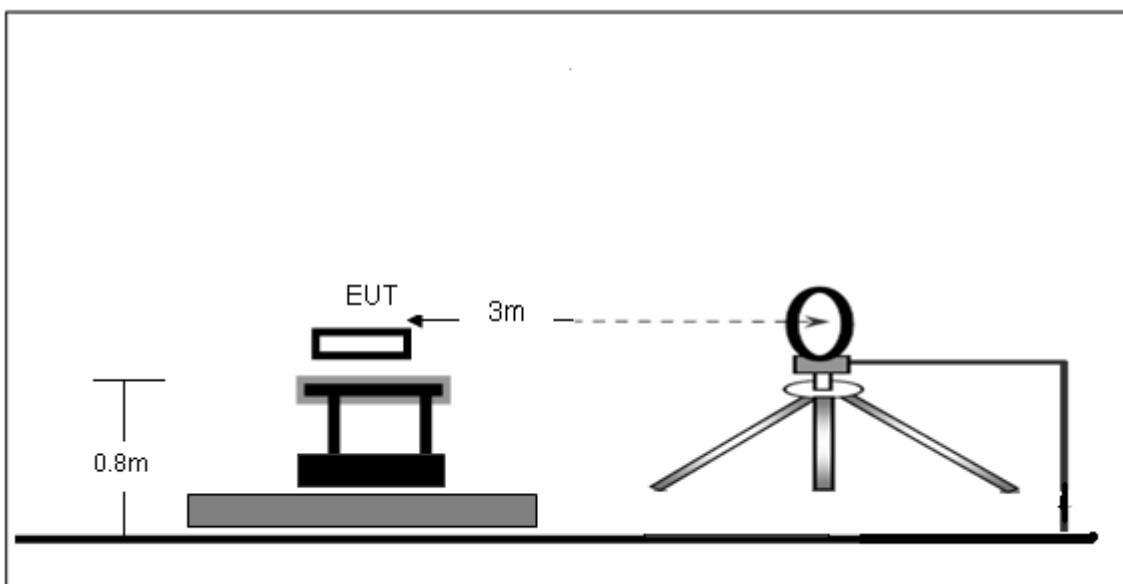
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
- h. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

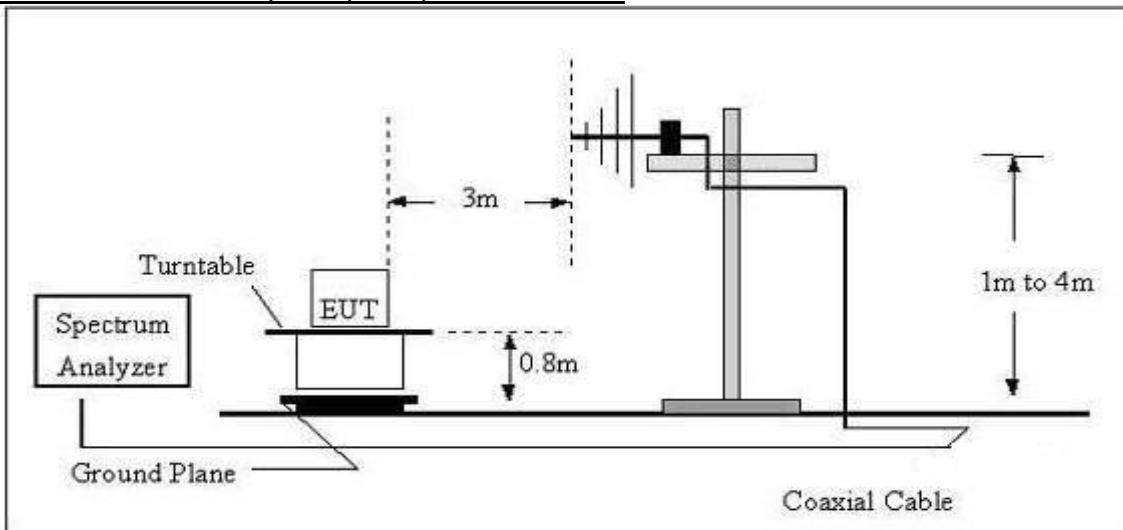


5.3.3 Test Setup

Radiated Emission Test-Up Frequency Below 30MHz



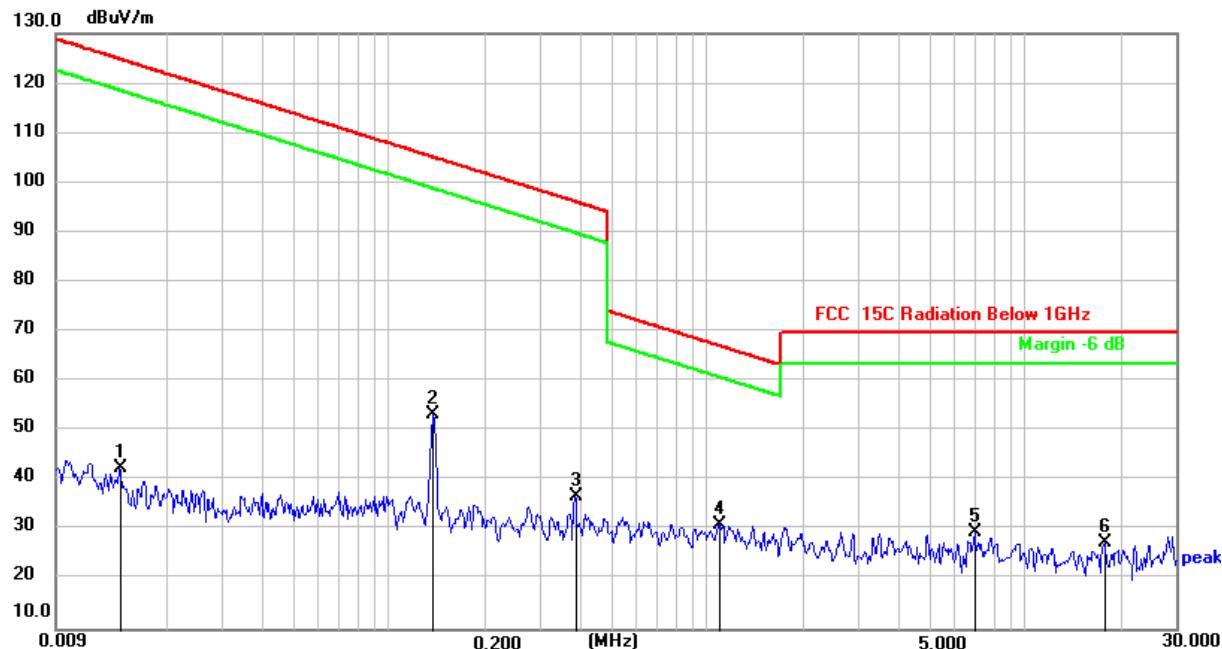
Radiated Emission Test-Up Frequency 30MHz~1GHz



5.3.4 Test Result

Frequency range (9kHz – 30MHz)

EUT:	Wireless Charging Power Bank	Model Name:	PB-D100W2
Pressure:	101kPa	Test mode:	Mode 1
Test voltage:	DC 9V from adapter AC 120V/60Hz		

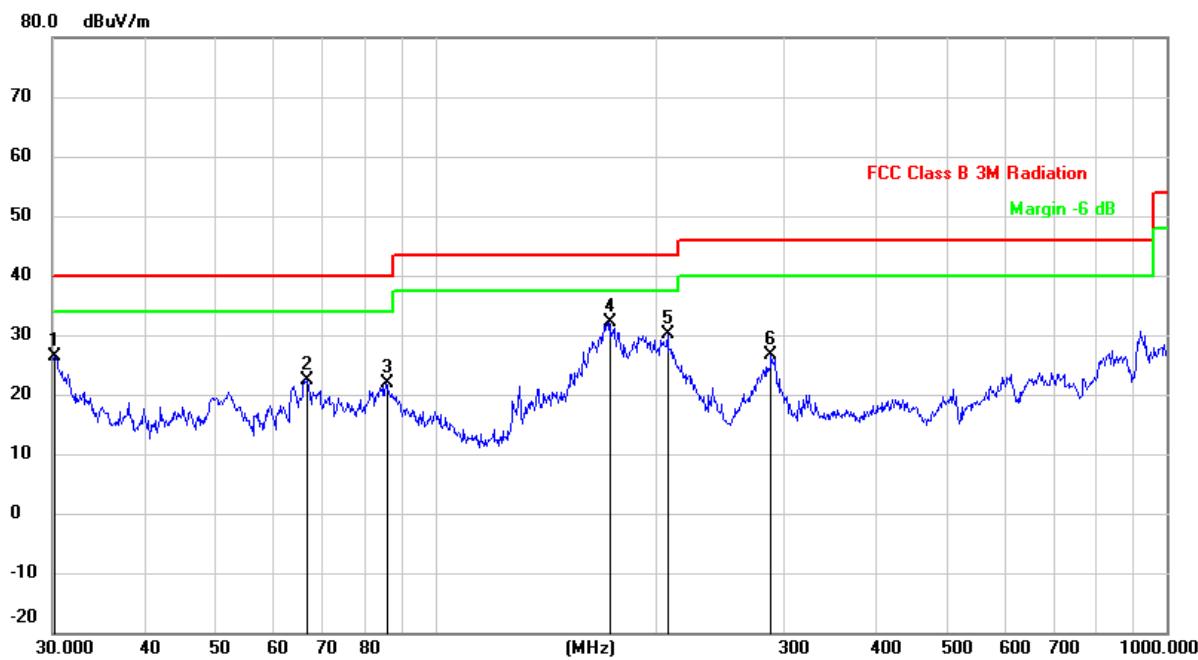


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0143	22.15	20.41	42.56	124.50	-81.94	peak
2	0.1385	33.14	20.11	53.25	104.78	-51.53	peak
3	0.3849	16.45	20.27	36.72	95.90	-59.18	peak
4 *	1.0959	10.72	20.55	31.27	66.83	-35.56	peak
5	6.9663	9.25	20.52	29.77	69.50	-39.73	peak
6	17.8508	7.56	19.86	27.42	69.50	-42.08	peak



Frequency range (30MHz – 1GHz)

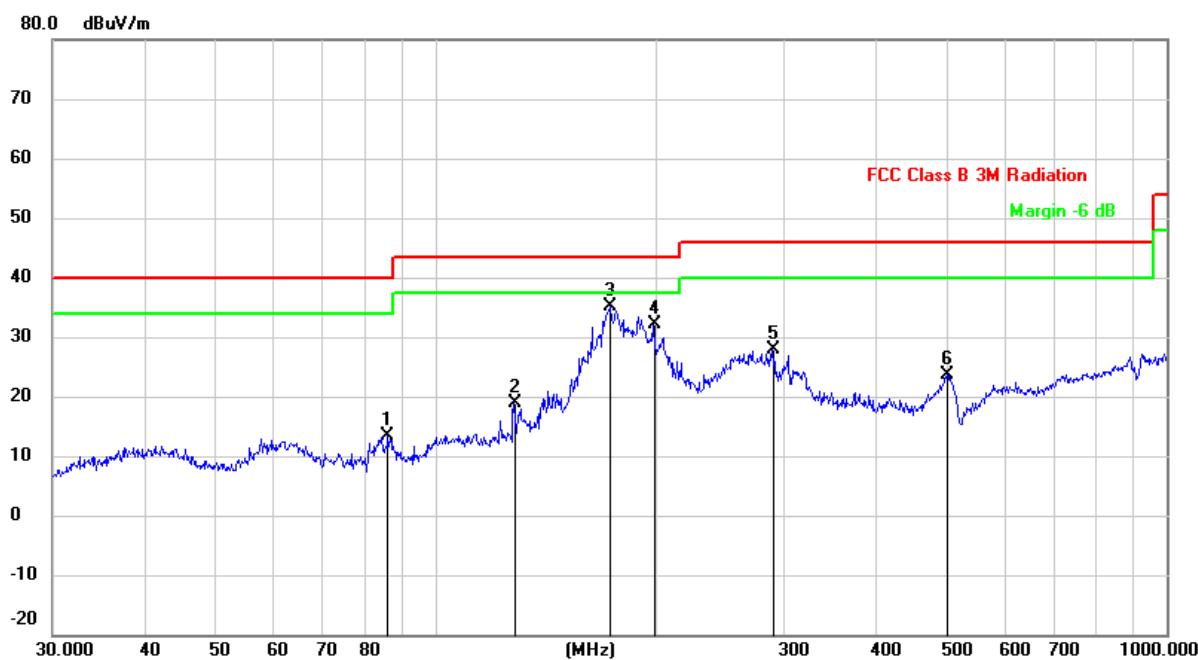
EUT:	Wireless Charging Power Bank	Model Name:	PB-D100W2
Pressure:	101kPa	Polarization:	Vertical
Test voltage:	DC 9V from adapter AC 120V/60Hz	Test mode:	Mode 1



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBuV/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Over Detector
1		30.2111	37.18	-10.79	26.39	40.00	-13.61	QP
2		66.9669	38.52	-16.03	22.49	40.00	-17.51	QP
3		85.5977	37.19	-15.42	21.77	40.00	-18.23	QP
4	*	172.5988	44.95	-12.80	32.15	43.50	-11.35	QP
5		207.8501	41.86	-11.68	30.18	43.50	-13.32	QP
6		287.9904	37.03	-10.35	26.68	46.00	-19.32	QP



EUT:	Wireless Charging Power Bank	Model Name:	PB-D100W2
Pressure:	101kPa	Polarization:	Horizontal
Test voltage:	DC 9V from adapter AC 120V/60Hz	Test mode:	Mode 1



No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over
			Level dBuV	Factor	ment dBuV/m		
1		86.2001	32.44	-19.03	13.41	40.00	-26.59 QP
2		128.1130	34.44	-15.60	18.84	43.50	-24.66 QP
3	*	173.8135	43.79	-8.66	35.13	43.50	-8.37 QP
4		198.5880	42.40	-10.24	32.16	43.50	-11.34 QP
5		289.0021	37.47	-9.70	27.77	46.00	-18.23 QP
6		501.1790	27.01	-3.49	23.52	46.00	-22.48 QP



5.4 Occupied bandwidth

5.4.1 Test method

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW \geq 1% of the 20 dB bandwidth

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth and 99% occupied bandwidth of the emission.

5.4.2 Test result

Frequency (kHz)	20dB emission bandwidth (kHz)	99% occupied bandwidth (kHz)
122	7.435	6.301

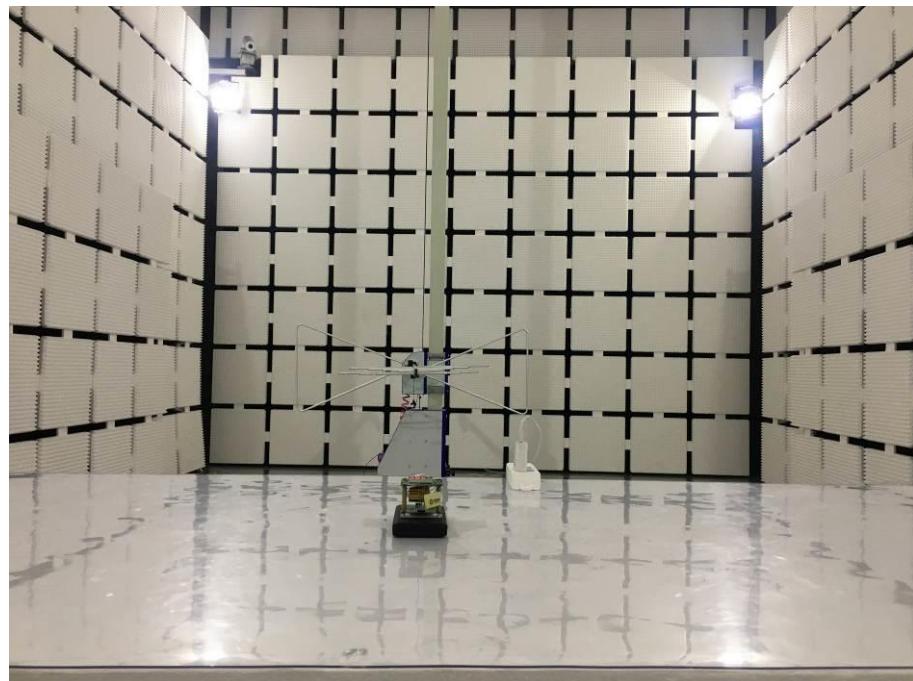
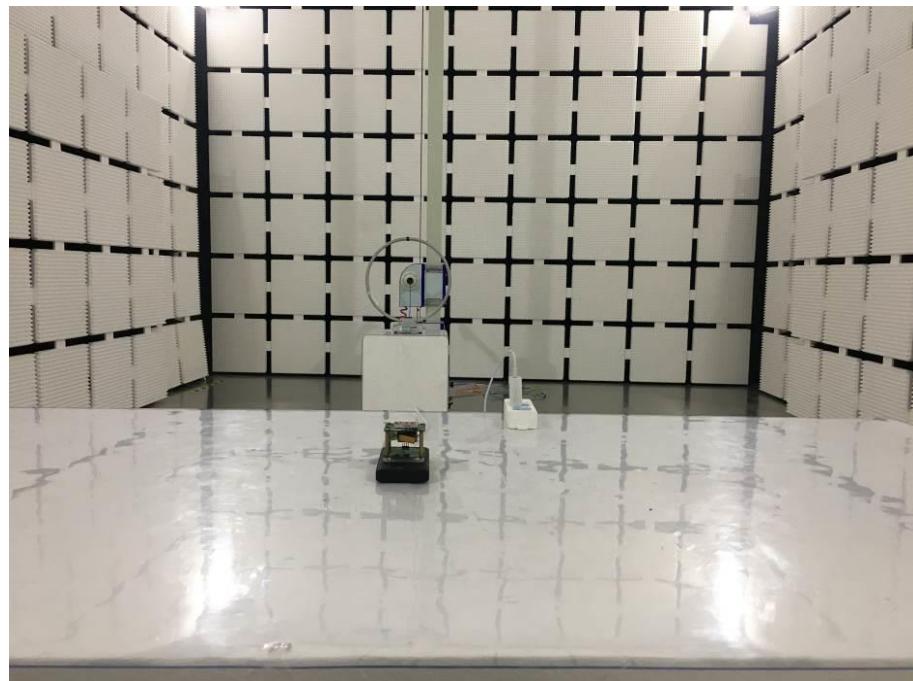
Test plots as below:





Photographs of the Test Setup

Radiated emission





Conducted emission





Photographs of the EUT

See the APPENDIX 1: EUT PHOTOS in the report No.: MTi20070209-4E1-1.

----END OF REPORT----