

Test Report

Report No.: MTi240306013-04E1

Date of issue: 2024-04-24

Applicant: O-JIN CORPORATION

Product: Magnetic Wireless Power Bank Stand

Model(s): IMWP200M

FCC ID: 2A3ZZ-IMWP200

Shenzhen Microtest Co., Ltd. http://www.mtitest.cn



Instructions

- 1. This test report shall not be partially reproduced without the written consent of the laboratory.
- 2. The test results in this test report are only responsible for the samples submitted
- 3. This test report is invalid without the seal and signature of the laboratory.
- 4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.
- 5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China. Tel: (86-755)88850135 Fax: (86-755) 88850136 Web: www.mtitest.cn E-mail: mti@51mti.com

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Test Result Certification Applicant: O-JIN CORPORATION Address: 61-1, Seosomun-ro, Seodaemun-gu, Reupublic of Korea Manufacturer: O-JIN CORPORATION Address: 61-1, Seosomun-ro, Seodaemun-gu, Reupublic of Korea **Product description** Product name: Magnetic Wireless Power Bank Stand Trademark: imation IMWP200M Model name: Series Model(s): N/A 47 CFR Part 15C Standards: Test Method: ANSI C63.10-2013 **Date of Test** Date of test: 2024-03-12 to 2024-04-23 Test result: **Pass**

Test Engineer	:	Modern Tony
		(Maleah Deng)
Reviewed By	:	David. Cee
		(David Lee)
Approved By		leon chen
		(Leon Chen)



1 General Description

1.1 Description of the EUT

Product name:	Magnetic Wireless Power Bank Stand
Model name:	IMWP200M
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	USB-C Input: DC5V3A, 9V2.22A, 12V1.67A USB-C Output: 20W Max. Wireless Output: 5W, 7.5W, 10W, 15W Battery Capacity: DC3.8V 5000mAh, 19Wh
Accessories:	N/A
Hardware version:	IMWP200M-V1.0
Software version:	IMWP200M-V1.0
Test sample(s) number:	MTi240306013-04S1001
RF specification	
Operating frequency range:	115-205kHz
Modulation type:	ASK
Antenna(s) type:	Coil

1.2 Description of test modes

No.	Emission test modes
Mode1	Wireless Output(5W)
Mode2	Wireless Output(7.5W)
Mode3	Wireless Output(10W)
Mode4	Wireless Output(15W)
Mode5	Charging+ Wireless Output(5W)
Mode6	Stand by



1.3 Environmental Conditions

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

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

1.4 Description of support units

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.

Support equipment list							
Description Model Serial No. Manut							
HUAWEI QUICK CHARGE(65W)	HW-200200ZP1	JN67LSN7N03451	HUAWEI				
wireless charging load YBZ1.1		/	YBZ				
Support cable list							
Description	Length (m)	From	То				
/	/	/	/				

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	±3.1dB
Occupied channel bandwidth	±3 %
Radiated spurious emissions (9kHz~30MHz)	±4.3dB
Radiated spurious emissions (30MHz~1GHz)	±4.7dB
Temperature	±1 °C
Humidity	±5%

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

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2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15C	47 CFR Part 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15C	47 CFR Part 15.207(a)	Pass
3	20dB Occupied Bandwidth	47 CFR Part 15C	47 CFR Part 15.215(c)	Pass
4	Emissions in frequency bands (below 30MHz)	47 CFR Part 15C	47 CFR Part 15.209	Pass
5	Emissions in frequency bands (30MHz - 1GHz)	47 CFR Part 15C	47 CFR Part 15.209	Pass



3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093



4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due	
Conducted Emission at AC power line							
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2023-04-26	2024-04-25	
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2023-05-05	2024-05-04	
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2023-06-03	2024-06-02	
		20dB Od	cupied Bandwid	th			
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2023-04-26	2024-04-25	
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2023-04-25	2024-04-24	
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2023-04-25	2024-04-24	
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2023-04-25	2024-04-24	
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2023-04-26	2024-04-25	
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2023-04-26	2024-04-25	
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2023-05-05	2024-05-04	
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2023-04-25	2024-04-24	
9	DC Power Supply	Agilent	E3632A	MY40027695	2023-05-05	2024-05-04	
		Emissions in frequ	ency bands (bel	low 30MHz)			
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25	
2	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2023-06-11	2025-06-10	
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2023-04-25	2024-04-24	
		Emissions in freque	ency bands (30N	ИНz - 1GHz)			
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25	
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10	
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2023-06-11	2025-06-10	
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2023-04-25	2024-04-24	
5	Multi-device Controller	TuoPu	TPMDC	/	2023-05-04	2024-05-03	



5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
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5.1.1 Conclusion:

The antenna of the EUT is permanently attached.

The EUT complies with the requirement of FCC PART 15.203.



6 Radio Spectrum Matter Test Results (RF)

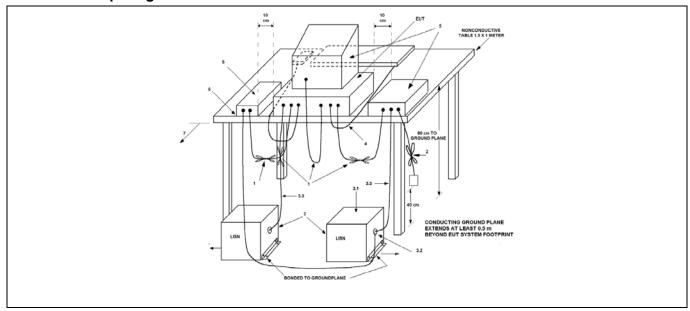
6.1 Conducted Emission at AC power line

Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power I the radio frequency voltage that is conducted back onto the AC power line any frequency or frequencies, within the band 150 kHz to 30 MHz, shall receive the limits in the following table, as measured using a 50 μH/50 or line impedance stabilization network (LISN).						
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBµV)				
		Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	*Decreases with the logarithm of the frequency.					
Test Method:	est Method: ANSI C63.10-2013 section 6.2					
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices					

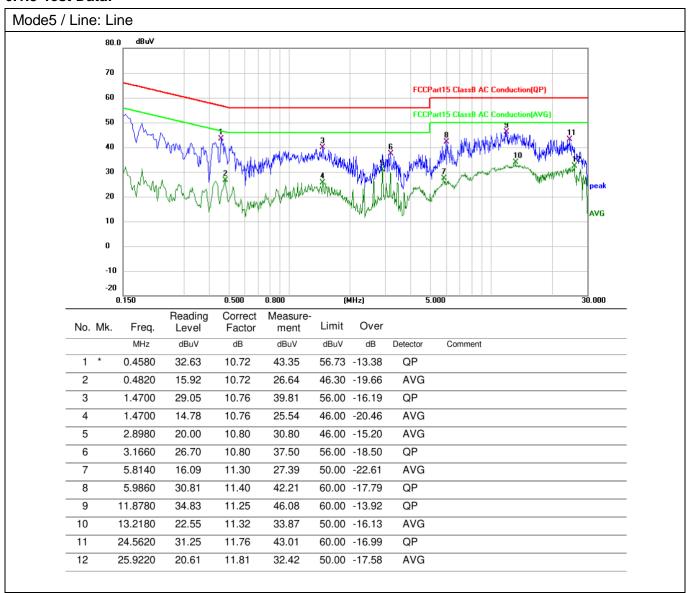
6.1.1 E.U.T. Operation:

Operating Envi	Operating Environment:								
Temperature:	Temperature: 25.9 °C Humidity: 44 % Atmospheric Pressure: 101 kPa								
Pre test mode:	Pre test mode: Mode5								
Final test mode	Final test mode: Mode5								

6.1.2 Test Setup Diagram:



6.1.3 Test Data:



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Page 13 of 24 Report No.: MTi240306013-04E1 Mode5 / Line: Neutral dBuV 80.0 70 60 50 40 30 20

		0.150		0.500	0.800	()	₩Hz)	5.0	00	30.000
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	*	0.4740	33.24	10.74	43.98	56.44	-12.46	QP		
2		0.4860	19.97	10.74	30.71	46.24	-15.53	AVG		
3		0.9180	24.10	10.76	34.86	56.00	-21.14	QP		
4		0.9620	9.43	10.76	20.19	46.00	-25.81	AVG		
5		1.4140	24.04	10.78	34.82	56.00	-21.18	QP		
6		1.5260	13.43	10.78	24.21	46.00	-21.79	AVG		
7		2.8980	25.19	10.82	36.01	56.00	-19.99	QP		
8		3.1740	19.10	10.83	29.93	46.00	-16.07	AVG		
9		11.4500	31.49	11.23	42.72	60.00	-17.28	QP		
10		11.8820	20.44	11.25	31.69	50.00	-18.31	AVG		
11		22.2420	20.15	11.67	31.82	50.00	-18.18	AVG		
12		24.7139	29.67	11.76	41.43	60.00	-18.57	QP		



6.2 20dB Occupied Bandwidth

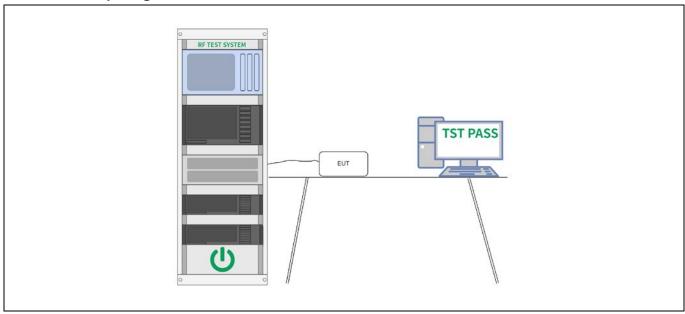
Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. Test Method: ANSI C63.10-2013, section 6.9.2 Procedure: a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW]) below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value. Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the "-xx dB down amplitude" determined in step h). If a marker is at or sli	Test Requirement:	47 CFR Part 15.215(c)
a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB oBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx	Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 BR BW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitude" determined in step h). If a marker is below this "-xx dB do		ANSI C63.10-2013, section 6.9.2
I plot(o)		center frequency. The span range for the ÉMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that te and marker is at or slightly below the "-xx dB down amplitude" value, then it shall be as close as possible to this value



6.2.1 E.U.T. Operation:

Operating Environment:								
Temperature:	Temperature: 24 °C Humidity: 59 % Atmospheric Pressure: 101 kPa							
Pre test mode:	Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5							
Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report								

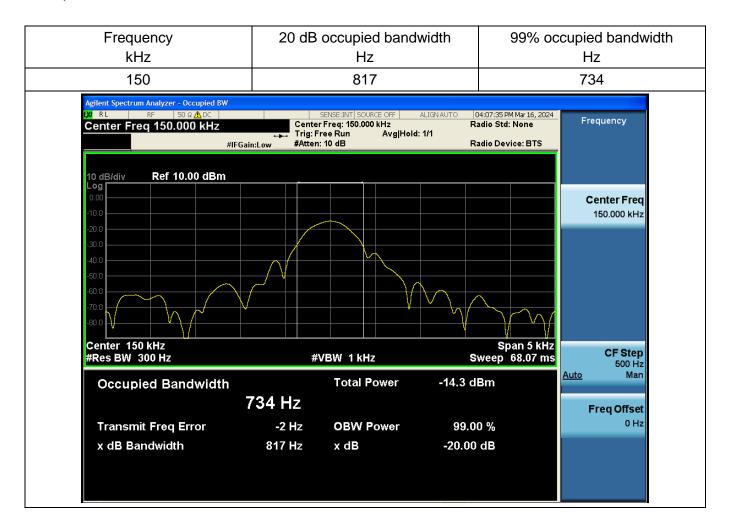
6.2.2 Test Setup Diagram:





6.2.3 Test Data:

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.





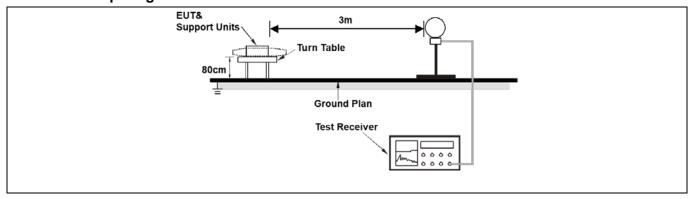
6.3 Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR Part 15.209						
Test Limit:	Frequency (MHz)	Field strength	Measuremen				
		(microvolts/meter)	t 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				
	** Except as provided in	paragraph (g), fundamental em	issions from				
		rating under this section shall n					
		ИНz, 76-88 МНz, 174-216 МНz					
		n these frequency bands is per	mitted under other				
		f this part, e.g., §§ 15.231 and 15.241.					
		ove, the tighter limit applies at the					
		n in the above table are based					
		si-peak detector except for the					
		bove 1000 MHz. Radiated emis					
		n measurements employing an	•				
		for frequencies above 1000 MH					
		nd (b)of this section are based					
		strength of any emission shall n					
	maximum permitted average limits specified above by more than 20 dB u						
any condition of modulation. For point-to-point operation under paragi							
(b)of this section, the peak field strength shall not exceed 2500							
millivolts/meter at 3 meters along the antenna azimuth.							
Test Method:	ANSI C63.10-2013 section 6.4						
Procedure:	ANSI C63.10-2013 secti	on 6.4					

6.3.1 E.U.T. Operation:

Operating Environment:								
Temperature:	Temperature: 22.5 °C Humidity: 43 % Atmospheric Pressure: 101 kPa							
Pre test mode:	Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5, Mode6							
Final test mode	e:		•	re-test mode w	vere tested, only the data	of the worst mode		

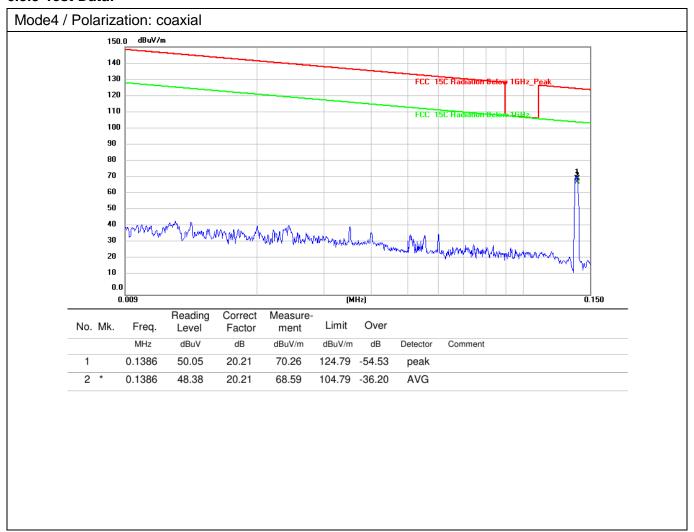
6.3.2 Test Setup Diagram:



Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China. Tel: (86-755)88850135 Fax: (86-755) 88850136 Web: www.mtitest.cn E-mail: mti@51mti.com



6.3.3 Test Data:



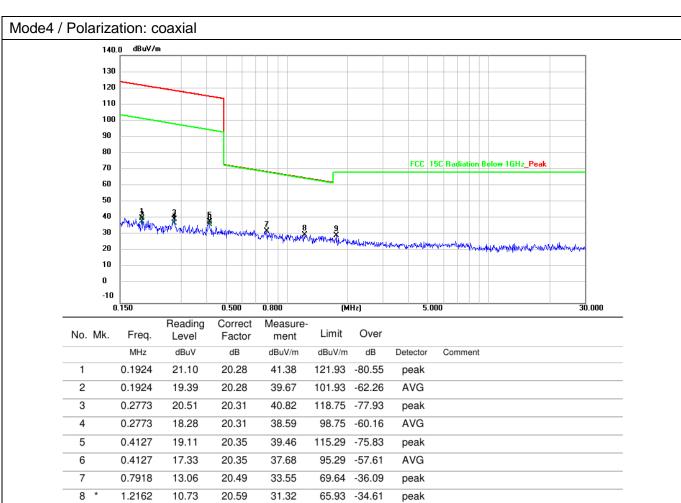
1.7529

10.48

20.63

31.11

9



69.50 -38.39

peak



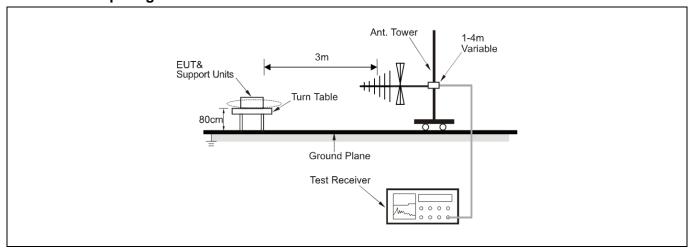
6.4 Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR Part 15.209						
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t 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				
	intentional radiators operating under this section shall not be located in frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MI However, operation within these frequency bands is permitted under of sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector except for the frequency band kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in three bands are based on measurements employing an average detect As shown in § 15.35(b), for frequencies above 1000 MHz, the field strellimits in paragraphs (a)and (b)of this section are based on average limits in paragraphs (a)and (b)of this section shall not exceed the maximum permitted average limits specified above by more than 20 did any condition of modulation. For point-to-point operation under paragra (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.						
Test Method:	ANSI C63.10-2013 sec	ion 6.5					
Procedure:	ANSI C63.10-2013 sec	ion 6.5					

6.4.1 E.U.T. Operation:

Operating Envi	Operating Environment:									
Temperature: 22.5 °C Humidity: 43 % Atmospheric Pressure: 101 kPa										
Pre test mode:		Mode	e1, Mode2,	Mode3, Mode4	1, Mode5, Mode6					
Final test mode	e:		•	re-test mode v ded in the repo	vere tested, only the data ort	of the worst mode				

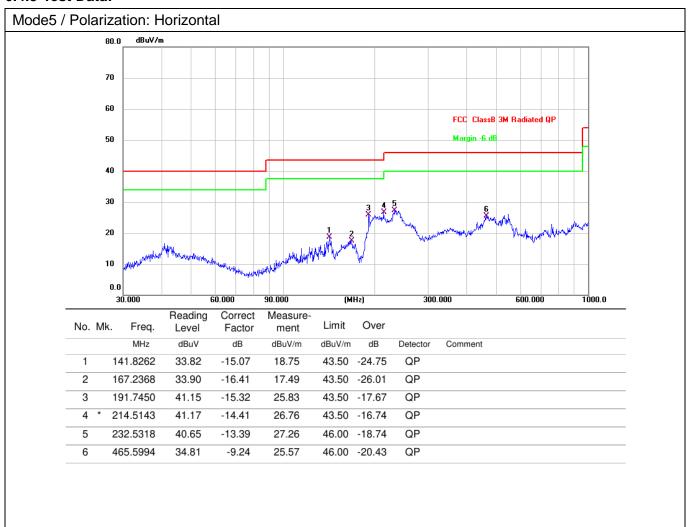
6.4.2 Test Setup Diagram:

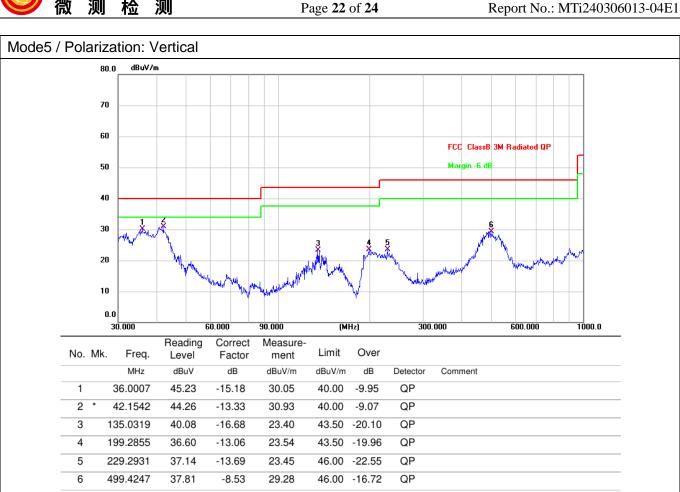


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6.4.3 Test Data:







Photographs of the test setup

Refer to Appendix - Test Setup Photos.



Photographs of the EUT

Refer to Appendix - EUT Photos

----End of Report----