

# **Test Report**

Report No.	:
Date of issue	
Applicant	:
Product	:
Model(s)	•
FCC ID	:

:	MTi2	41230	021-0	)1E1

2025-01-17

**Creoh USA LLC** 

**Dual Sided Charger** 

**IJS.201** 

2AZWG-DSWAC

### Shenzhen Microtest Co., Ltd.

Tel:0755-88850135-1439 Mobile: 131-4343-1439 (Wechat same number) Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China Q/MTI-QP-12-FC028

Web: http://www.mtitest.cn Ver./Rev.: A1

E-mail: mti@51mti.com Page 1 of 28

# Micr⊚test

**TEST REPORT** 

### **Table of contents**

			() Mic	Report No.: MTi241230021-01E1	1
Micr <sup>C</sup>			Table of contents	() MC	
	1	General Description			4
		<ul><li>1.2 Description of test mod</li><li>1.3 Environmental Condition</li><li>1.4 Description of support</li></ul>	۲ des ons units	<u>e</u> Me <sup>ror</sup>	. 4 . 5 . 5
	2 3		ations		
	4 5		tion)		
		5.1 Antenna requirement			9
	6	Radio Spectrum Matter Tes	t Results (RF)		10
		6.1 Conducted Emission a	at AC power line		10
		6.2 20dB Occupied Bandv	width		13
			y bands (below 30MHz)		
		5.4 Emissions in frequenc	y bands (30MHz - 1GHz)	2	22
	Ph	ographs of the test setup			26

Microtest Tel: 0755-88850135-1439 Mobile: 131-4343-1439 (Wechat same number) Web: http://www.mtitest.cn E-mail: mti@51mti.com Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China Q/MTI-QP-12-FC028 Ver./Rev.: A1 Page 2 of 28



Report No.: MTi241230021-01E1

Test Result Certific	ation			(B) MIC
Applicant	Creoh USA	LLC		
Applicant Address	1750 Ceda America	rbridge Ave Suite	4, Lakewood, N	ew Jersey, United States of
Manufacturer	Creoh USA			Micron
Manufacturer Address	1750 Ceda America	rbridge Ave Suite 4	4, Lakewood, N	ew Jersey, United States of
Product descriptio	n KCC	res		k
Product name	Dual Sided	Charger	. dotes	
Trademark	IT'S JUST	SMART	M MIC	
Model name	IJS.201			rest
Series Model(s)	N/A	-		MICTOL
Standards	47 CFR Pa	rt 15C	*	
Test Method	ANSI C63.	10-2020	C Otest	test
Testing Information	n		<i>1</i> 0.	MICTO
Date of test	2025-01-08	3 to 2025-01-10		
Test result	Pass		, ost	
Prepared b	y:	Maleah	Deng	Madeen Davy Mich
Reviewed b	by:	David	Lee	Marlean David. Cee David. Cee Cov chen
Approved t	y:	Leon C	hen	eor chen
	Micio		AMICI	

Tel: 0755-88850135-1439Mobile: 131-4343-1439 (Wechat same number)Web: http://www.mtitest.cnE-mail: mti@51mti.comAddress: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District,<br/>Ver./Rev.: A1E-mail: mti@51mti.comQ/MTI-QP-12-FC028Ver./Rev.: A1Page 3 of 28

### **1** General Description

### 1.1 Description of the EUT

Product name:	Dual Sided Charger		
Model name:	IJS.201		
Series Model(s):	N/A		
Model difference:	N/A		
Electrical rating:	Input: DC 5V,1A Wireless Output: Earphone:3W; Watch: 2.5W		
Accessories:	N/A		
Hardware version:	V2		
Software version:	V1.3		
Test sample(s) number:	MTi241230021-01S1001		
RF specification			
Operating frequency range:	Coil 1(Earphone): 115-205KHz Coil 2(Watch): 300-350KHz		
Modulation type:	ASK		
Antenna(s) type:	Coil Antenna		

### 1.2 Description of test modes

No.	Emission test modes	
Mode1	Wireless Output(Watch(2.5W)	
Mode2	Wireless Output(Earphone(3W)	
Mode3	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 Ser		Serial No.	Manufacturer			
USB-A HUAWEI CHARGE	= $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$		HUAWEI			
Air Pods	MQD83CH/A	1	Apple			
iWatch	Apple Watch SE	/	Apple			
Support cable list	Support cable list					
Description Length (m) From To						
/	/	/	/			

#### 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.

### 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

Report No.: MTi241230021-01E1

### 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	2024-03- 20	2025-03- 19	
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2024-03- 21	2025-03- 20	
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2024-03- 20	2025-03- 19	
		20dB Occup	ied Bandwidth				
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2024-03- 20	2025-03- 19	
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB400512 40	2024-03- 21	2025-03- 20	
3	PXA Signal Analyzer	Agilent	N9030A	MY513502 96	2024-03- 21	2025-03- 20	
4	Synthesized Sweeper	Agilent	83752A	3610A019 57	2024-03- 21	2025-03- 20	
5	MXA Signal Analyzer	Agilent	N9020A	MY501434 83	2024-03- 21	2025-03- 20	
6	RF Control Unit	Tonscend	JS0806-1	19D80601 52	2024-03- 21	2025-03- 20	
7	Band Reject Filter Group	Tonscend	JS0806-F	19D80601 60	2024-03- 21	2025-03- 20	
8	ESG Vector Signal Generator	Agilent	N5182A	MY501437 62	2024-03- 20	2025-03- 19	
9	DC Power Supply	Agilent	E3632A	MY400276 95	2024-03- 21	2025-03- 20	
	Err	nissions in frequenc	y bands (below	30MHz)			
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03- 20	2025-03- 19	
2	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03- 23	2025-03- 22	
3	Amplifier	Hewlett-Packard	8447F	3113A0618 4	2024-03- 20	2025-03- 19	
Emissions in frequency bands (30MHz - 1GHz)							
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03- 20	2025-03- 19	
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06- 10	
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03- 23	2025-03- 22	
4	Amplifier	Hewlett-Packard	8447F	3113A0618 4	2024-03- 20	2025-03- 19	

### 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.
-------------------	--

#### 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)

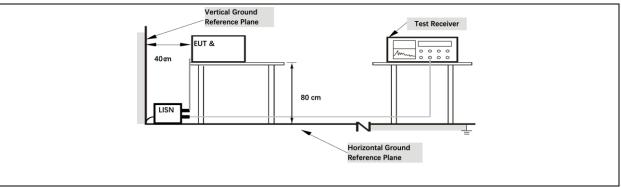
### 6.1 Conducted Emission at AC power line

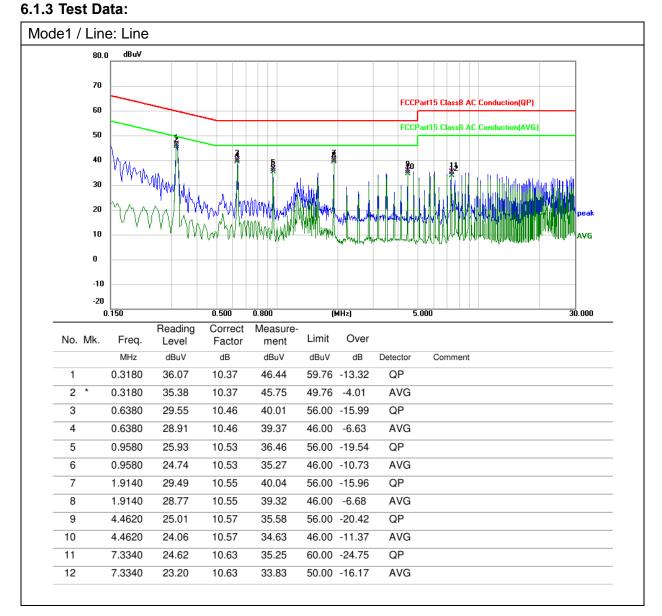
Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms 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:	ANSI C63.10-2020 section 6.2					
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices					

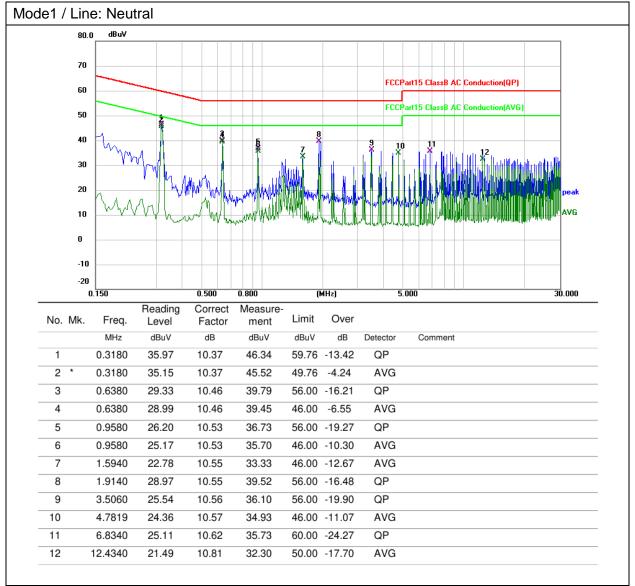
#### 6.1.1 E.U.T. Operation:

Operating Environment:						
Temperature:	Temperature:     22 °C     Humidity:     43 %     Atmospheric Pressure:     101 kPa					
Pre test mode:	Pre test mode: Mode1, Mode2, Mode3					
Final test mode: All of the listed pre-test mode were tested, only the data of the wo				a of the worst		
Final lest mode.		mode (Mode1) is recorded in the report				

#### 6.1.2 Test Setup Diagram:







### 6.2 20dB Occupied Bandwidth

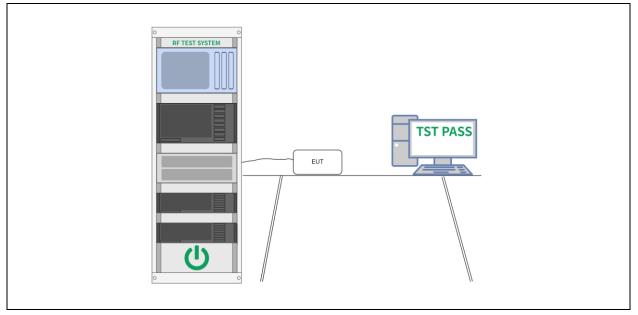
Test Requirement:	47 CFR Part 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of 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.
Test Method:	ANSI C63.10-2020, section 6.9.2
Procedure:	<ul> <li>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.</li> <li>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.</li> <li>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.</li> <li>d) Steps a) through c) might require iteration to adjust within the specified tolerances.</li> <li>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.</li> <li>f) Set detection mode to peak and trace mode to max hold.</li> <li>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).</li> <li>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.</li> <li>j) Finder the set or the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).</li> <li>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). Reset the ma</li></ul>
	emission until the delta marker amplitude is at the same level as the

reference marker amplitude. The marker-delta frequency reading at
this point is the specified emission bandwidth.
k) The occupied bandwidth shall be reported by providing plot(s) of the
measuring instrument display; the plot axes and the scale units per
division shall be clearly labeled. Tabular data may be reported in
addition to the plot(s).

### 6.2.1 E.U.T. Operation:

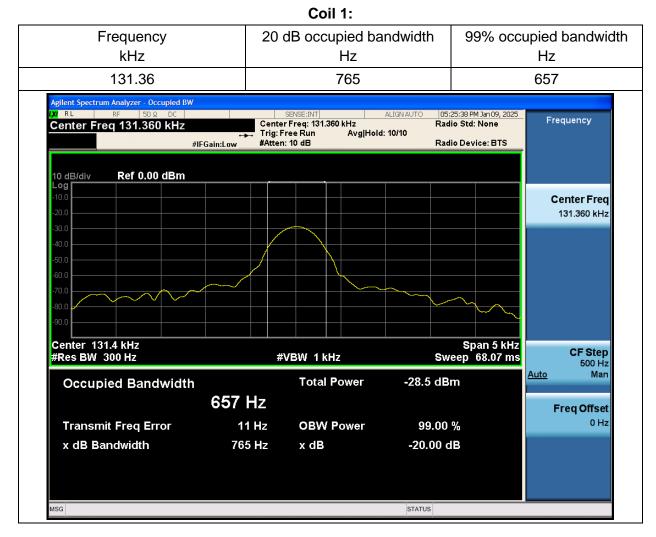
Operating Environment:						
Temperature:	Temperature:     24.6 °C     Humidity:     57 %     Atmospheric Pressure:     101 kPa					
Pre test mode:	Pre test mode: Mode1, Mode2, Mode3					
Final test mode:All of the listed pre-test mode were tested, only the data of the worst mode (Mode1, Mode2) is recorded in the report						

#### 6.2.2 Test Setup Diagram:



#### 6.2.3 Test Data:

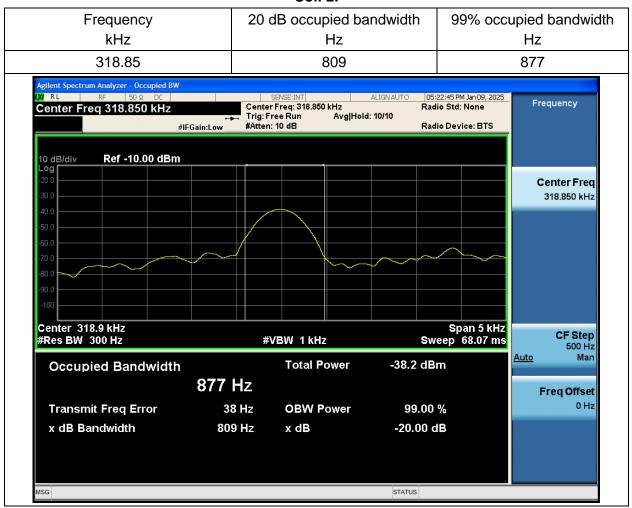
**Note:** Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.



Tel: 0755-88850135-1439Mobile: 131-4343-1439 (Wechat same number)Web: http://www.mtitest.cnE-mail: mti@51mti.comAddress: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong,ChinaQ/MTI-QP-12-FC028Page 15 of 28

Report No.: MTi241230021-01E1

**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.



Coil 2:

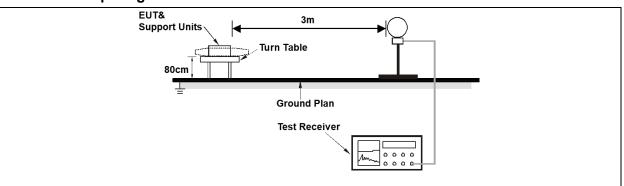
#### 6.3 Emissions in frequency bands (below 30MHz)

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		
	intentional radiators oper the frequency bands 54-7 806 MHz. However, oper permitted under other set In the emission table abo The emission limits show measurements employing frequency bands 9–90 kH Radiated emission limits measurements employing As shown in § 15.35(b), f strength limits in paragra average limits. However, not exceed the maximum more than 20 dB under a operation under paragrap shall not exceed 2500 mi azimuth.	or frequencies above 1000 MH phs (a)and (b)of this section are the peak field strength of any e permitted average limits speci ny condition of modulation. For oh (b)of this section, the peak fi illivolts/meter at 3 meters along	ot be located in MHz or 470- inds is 31 and 15.241. The band edges. On except for the 00 MHz. I on z, the field based on emission shall fied above by point-to-point eld strength		
Test Method:	ANSI C63.10-2020 section				
Procedure:	ANSI C63.10-2020 section	on 6.4			

#### 6.3.1 E.U.T. Operation:

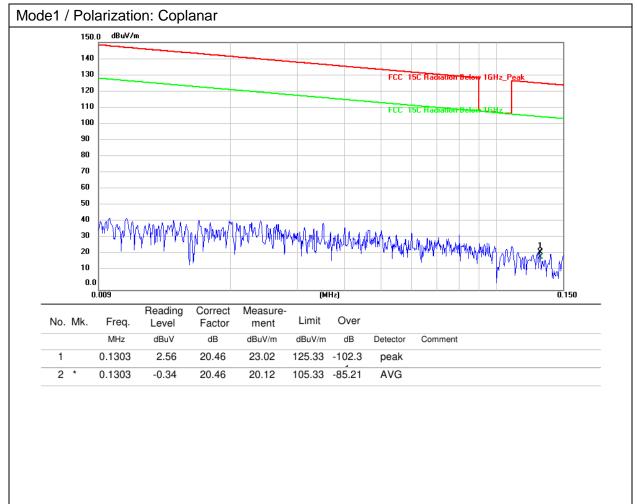
Operating Environment:						
Temperature:	emperature: 22.5 °C Humidity: 43 % Atmospheric Pressure: 101 kPa					
Pre test mode:	Pre test mode: Mode1, Mode2, Mode3					
Final test mode:All of the listed pre-test mode were tested, only the data of the worst mode (Mode1, Mode2) is recorded in the report						

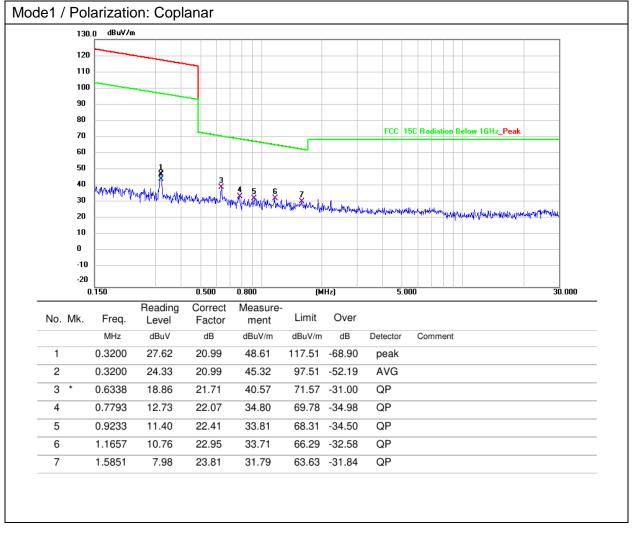
### 6.3.2 Test Setup Diagram:

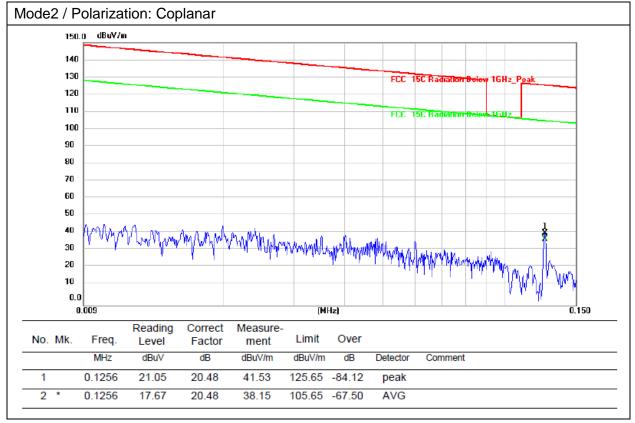


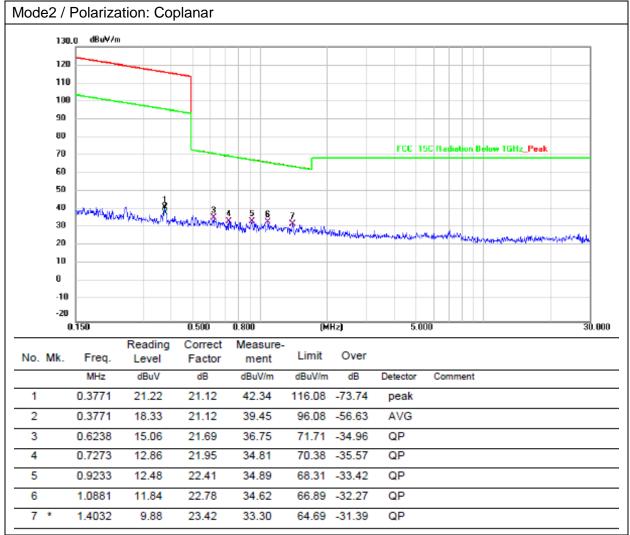
#### Report No.: MTi241230021-01E1

### 6.3.3 Test Data:









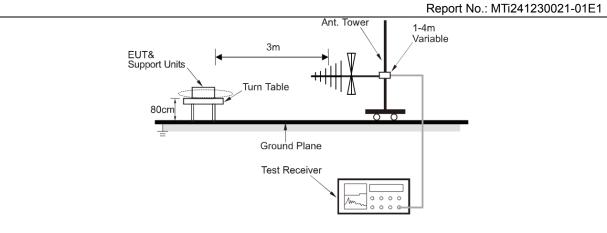
### 6.4 Emissions in frequency bands (30MHz - 1GHz)

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		
Tost Mothod:	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470- 806 MHz. However, operation within these frequency bands is permitted under other 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 measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a)and (b)of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.				
Test Method:	ANSI C63.10-2020 sectio				
Procedure:	ANSI C63.10-2020 sectio	n 6.5			

#### 6.4.1 E.U.T. Operation:

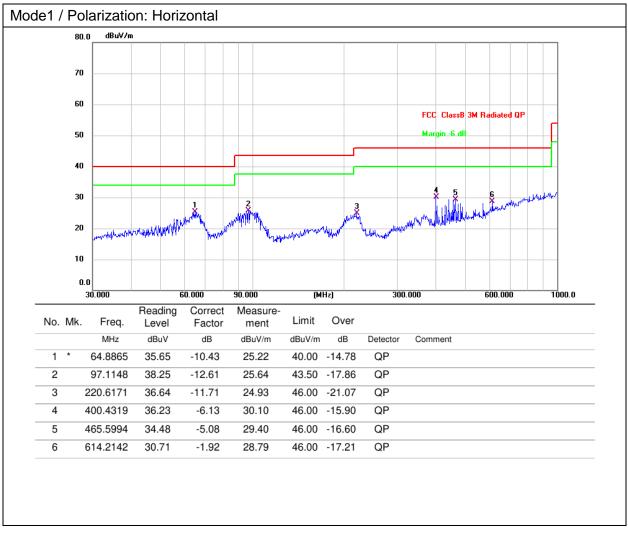
Operating Environment:						
Temperature:	Temperature:26 °CHumidity:54 %Atmospheric Pressure:101 kPa					101 kPa
Pre test mode: Mode1, Mode2, Mode3						
Final test mode:All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report						
6.4.2 Test Setup Disgram						

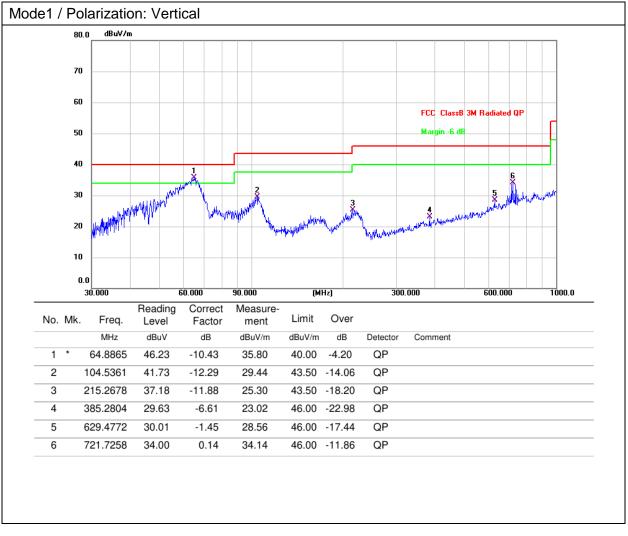
#### 6.4.2 Test Setup Diagram:



#### Report No.: MTi241230021-01E1

#### 6.4.3 Test Data:





### Photographs of the test setup

Refer to Appendix - Test Setup Photos

#### Report No.: MTi241230021-01E1

### Photographs of the EUT

Refer to Appendix - EUT Photos

Report No.: MTi241230021-01E1

# Statement

- 1. This report is invalid without the seal and signature of the laboratory.
- 2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
- 3. The report shall not be partially reproduced without the written consent of the Laboratory.
- 4. This report is invalid if transferred, altered or tampered with in any form without authorization.
- 5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
- 6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

\*\*\*\*\*\* END OF REPORT \*\*\*\*\*\*