Microtest
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Test Report

Report No.: MTi241106009-01E1

Date of issue: 2024-12-02

Applicant: youqujile shenzhen chuangyi electronic technology co.,ltd

Product name: Wireless Charger

Model(s): CS02, CS03, CS04, CS05, CS06, CS07, CS08

FCC ID: 2BF7P-WCSCH

Shenzhen Microtest Co., Ltd.

http://www.mtitest.cn

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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.

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Test Result Certification	
Applicant:	youqujile shenzhen chuangyi electronic technology co.,ltd
Address:	Room 101, Building A, No.5 Yanhe Rd, 3rd Industry Zone, Bantian ST, Longgang, Shenzhen,China
Manufacturer:	youqujile shenzhen chuangyi electronic technology co.,ltd
Address:	Room 101, Building A, No.5 Yanhe Rd, 3rd Industry Zone, Bantian ST, Longgang, Shenzhen,China
Product description	
Product name:	Wireless Charger
Trade mark:	N/A
Model name:	CS02
Series Model(s):	CS03, CS04, CS05, CS06, CS07, CS08
Standards:	47 CFR Part 15C
Test Method:	ANSI C63.10-2013
Date of Test	
Date of test:	2024-11-08 to 2024-11-18
Test result:	Pass

Test Engineer	:	Yanice Xie
		(Yanice.Xie)
Reviewed By	:	David. Lee
		(David Lee)
Approved By	:	Leon chen
		(Leon Chen)

1 General Description

1.1 Description of the EUT

Product name:	Wireless Charger
Model name:	CS02
Series Model(s):	CS03, CS04, CS05, CS06, CS07, CS08
Model difference:	All the models are the same circuit and module, except the model name.
Electrical rating:	Input: DC 9V/2A, 12V/1.5A Wireless output: Phone:5W/7.5W/10W/15W Max Earphone:5W Watch:2.5W
Accessories:	Cable:USB-A to Type-C 1m
Hardware version:	V1.0
Software version:	V1.0
Test sample(s) number:	MTi241106009-01S1001
RF specification	
Operating frequency range:	Coil 1 (Phone): 115-205kHz Coil 2 (Earphone): 115-205kHz Coil 3 (Watch): 300-350kHz
Modulation type:	ASK
Antenna(s) type:	Coil

1.2 Description of test modes

No.	Emission test modes
Mode1	Wireless output Phone(5W)+Earphone(5W)+Watch(2.5W)
Mode2	Wireless output Phone(7.5W)+Earphone(5W)+Watch(2.5W)
Mode3	Wireless output Phone(10W)+Earphone(5W)
Mode4	Wireless output Phone(10W)+Watch(2.5W))
Mode5	Wireless output Phone(7.5W)+Earphone(5W)
Mode6	Wireless output Phone(7.5W)+Watch(2.5W)
Mode7	Wireless output Phone(5W)+Earphone(5W)
Mode8	Wireless output Phone(5W)+Watch(2.5W)
Mode9	Wireless output Earphone(5W)+Watch(2.5W)
Mode10	Wireless output Phone(5W)
Mode11	Wireless output Phone(7.5W)
Mode12	Wireless output Phone(10W)
Mode13	Wireless output Phone(15W)
Mode14	Wireless Output Watch(2.5W)
Mode15	Wireless Output Earphone (5W)
Mode16	Standby

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.	Manufacturer
Adapter	/	/	Lenovo
wireless charging load	YBZ1.1	/	YBZ
Air Pods	MQD83CH/A	/	Apple
Watch	iWatch SE	FH7PP6BAG91J6	Apple
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	Requirement	Result
1	Antenna requirement	47 CFR Part 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15.207(a)	Pass
3	20dB Occupied Bandwidth	47 CFR Part 15.215(c)	Pass
4	Emissions in frequency bands (below 30MHz)	47 CFR Part 15.209	Pass
5	Emissions in frequency bands (30MHz - 1GHz)	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	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 Occupied Bandwidth						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2024-03-20	2025-03-19
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2024-03-21	2025-03-20
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2024-03-21	2025-03-20
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2024-03-21	2025-03-20
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2024-03-21	2025-03-20
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2024-03-21	2025-03-20
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2024-03-21	2025-03-20
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2024-03-20	2025-03-19
9	DC Power Supply	Agilent	E3632A	MY40027695	2024-03-21	2025-03-20
Emissions in frequency 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	3113A06184	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	3113A06184	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 μH/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

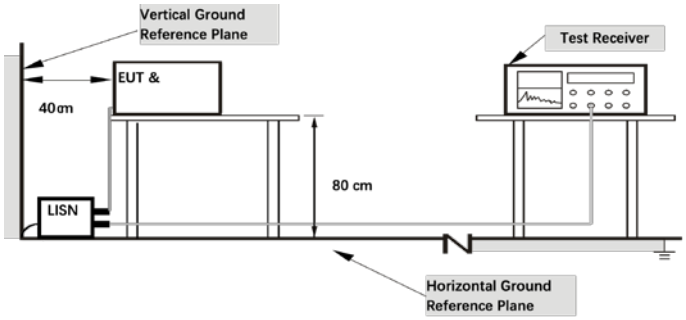
*Decreases with the logarithm of the frequency.

Test Method:	ANSI C63.10-2013 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:

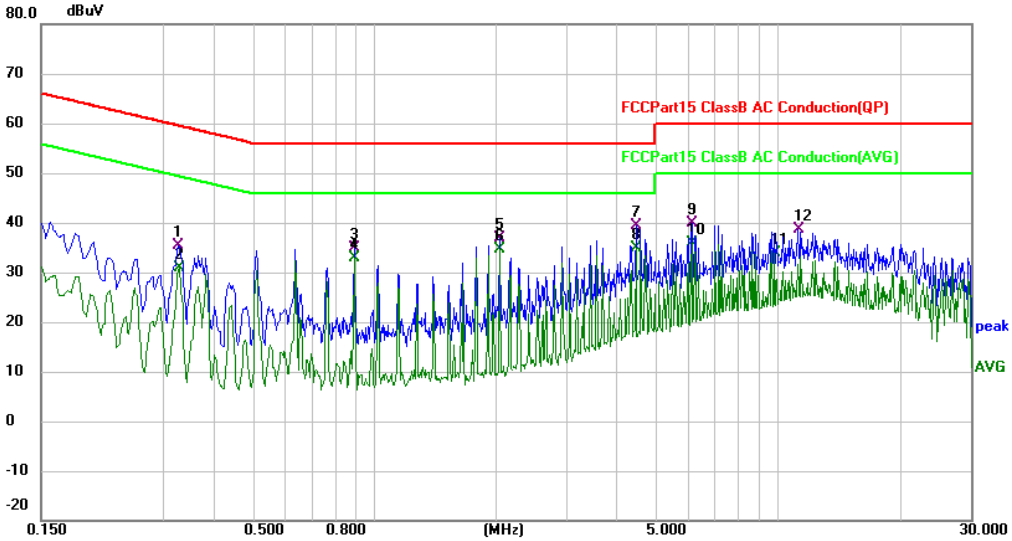
Operating Environment:					
Temperature:	25.9 °C	Humidity:	44 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode2) is recorded in the report				

6.1.2 Test Setup Diagram:



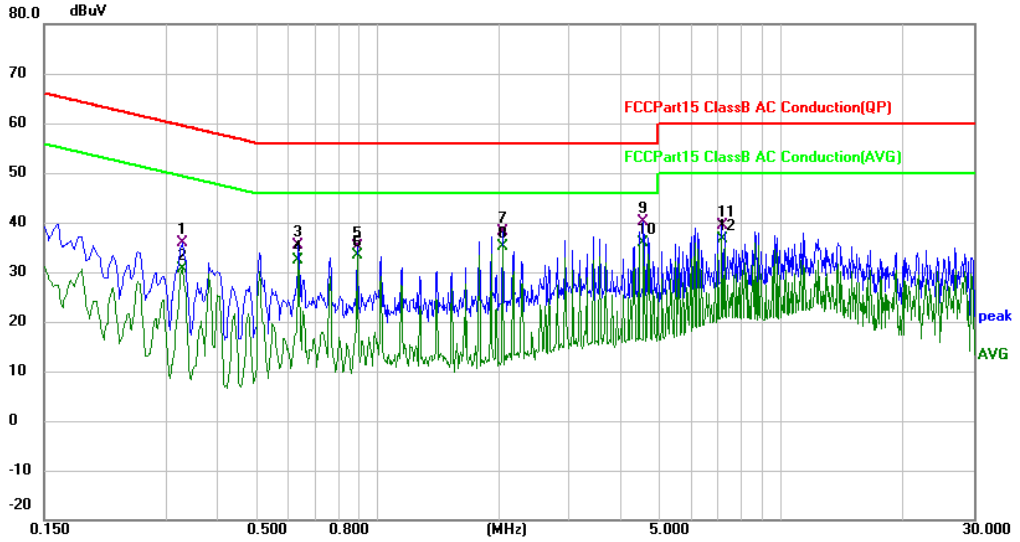
6.1.3 Test Data:

Mode2 / Line: Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3260	25.12	10.37	35.49	59.55	-24.06	QP	
2		0.3300	20.40	10.37	30.77	49.45	-18.68	AVG	
3		0.8940	24.43	10.52	34.95	56.00	-21.05	QP	
4		0.8940	22.46	10.52	32.98	46.00	-13.02	AVG	
5		2.0420	26.42	10.55	36.97	56.00	-19.03	QP	
6		2.0420	24.16	10.55	34.71	46.00	-11.29	AVG	
7		4.4659	28.69	10.57	39.26	56.00	-16.74	QP	
8	*	4.4659	24.22	10.57	34.79	46.00	-11.21	AVG	
9		6.1219	29.27	10.60	39.87	60.00	-20.13	QP	
10		6.1219	25.27	10.60	35.87	50.00	-14.13	AVG	
11		9.8219	23.30	10.67	33.97	50.00	-16.03	AVG	
12		11.2259	27.92	10.74	38.66	60.00	-21.34	QP	

Mode2 / Line: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3300	25.53	10.37	35.90	59.45	-23.55	QP	
2		0.3300	20.37	10.37	30.74	49.45	-18.71	AVG	
3		0.6380	24.94	10.46	35.40	56.00	-20.60	QP	
4		0.6380	21.99	10.46	32.45	46.00	-13.55	AVG	
5		0.8940	24.63	10.52	35.15	56.00	-20.85	QP	
6		0.8940	22.89	10.52	33.41	46.00	-12.59	AVG	
7		2.0420	27.48	10.55	38.03	56.00	-17.97	QP	
8		2.0420	24.68	10.55	35.23	46.00	-10.77	AVG	
9		4.5900	29.50	10.57	40.07	56.00	-15.93	QP	
10	*	4.5900	25.30	10.57	35.87	46.00	-10.13	AVG	
11		7.1419	28.83	10.62	39.45	60.00	-20.55	QP	
12		7.1419	25.95	10.62	36.57	50.00	-13.43	AVG	

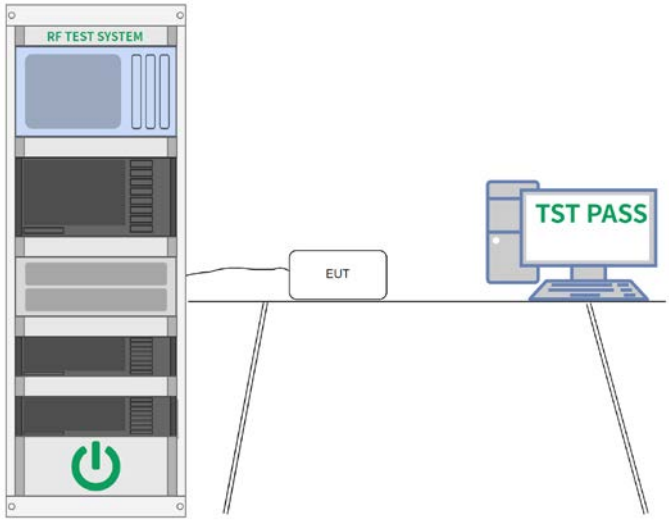
6.2 20dB Occupied Bandwidth

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 C63.10-2013, 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" 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 down amplitude" value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "-xx dB down amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the 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:	25 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode13, Mode14, Mode15) is recorded in the report				

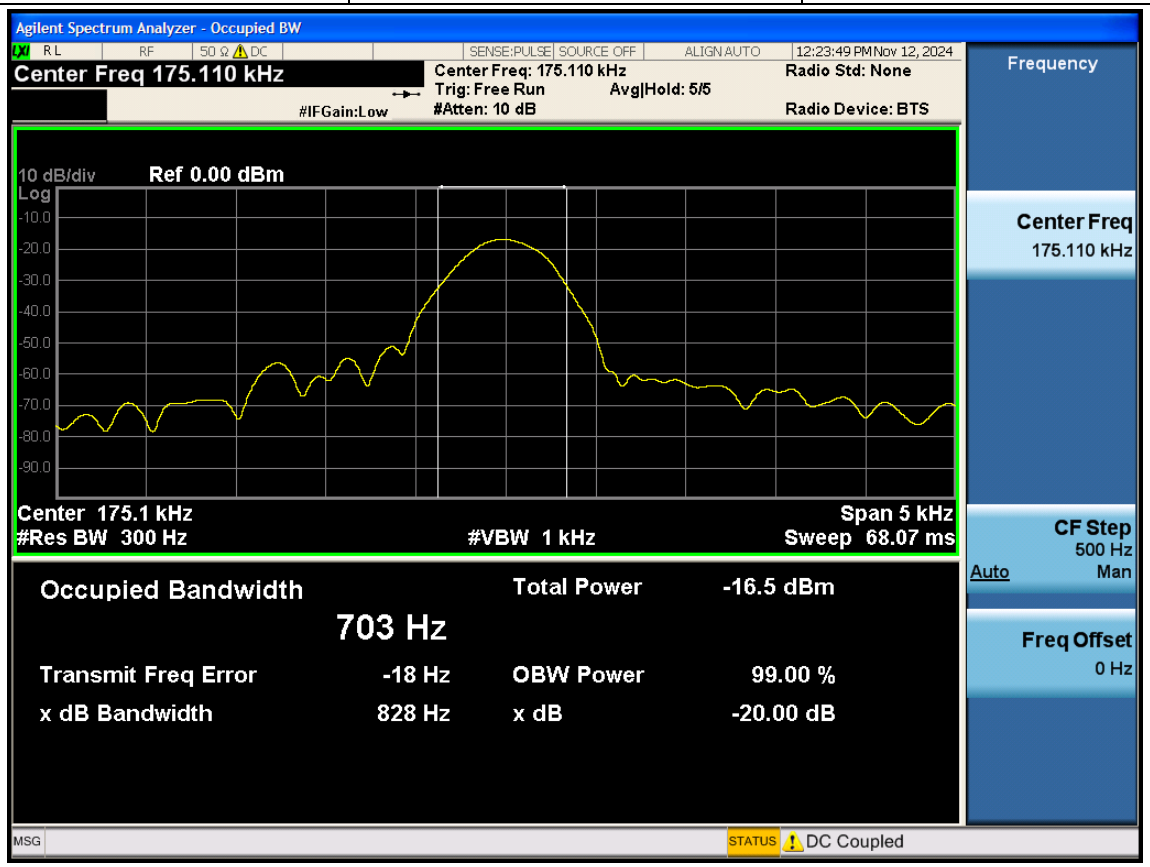
6.2.2 Test Setup Diagram:



6.2.3 Test Data:

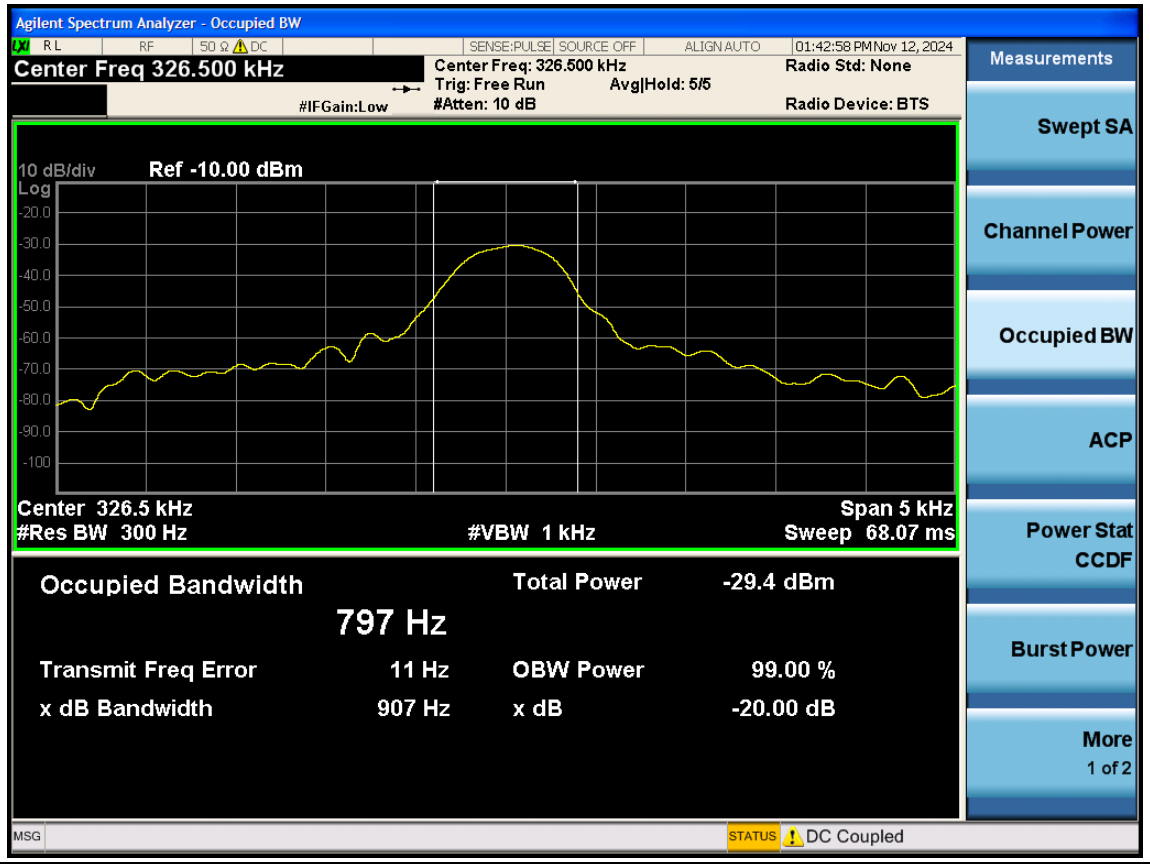
Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Frequency kHz	20 dB occupied bandwidth Hz	99% occupied bandwidth Hz
175.110	828	703



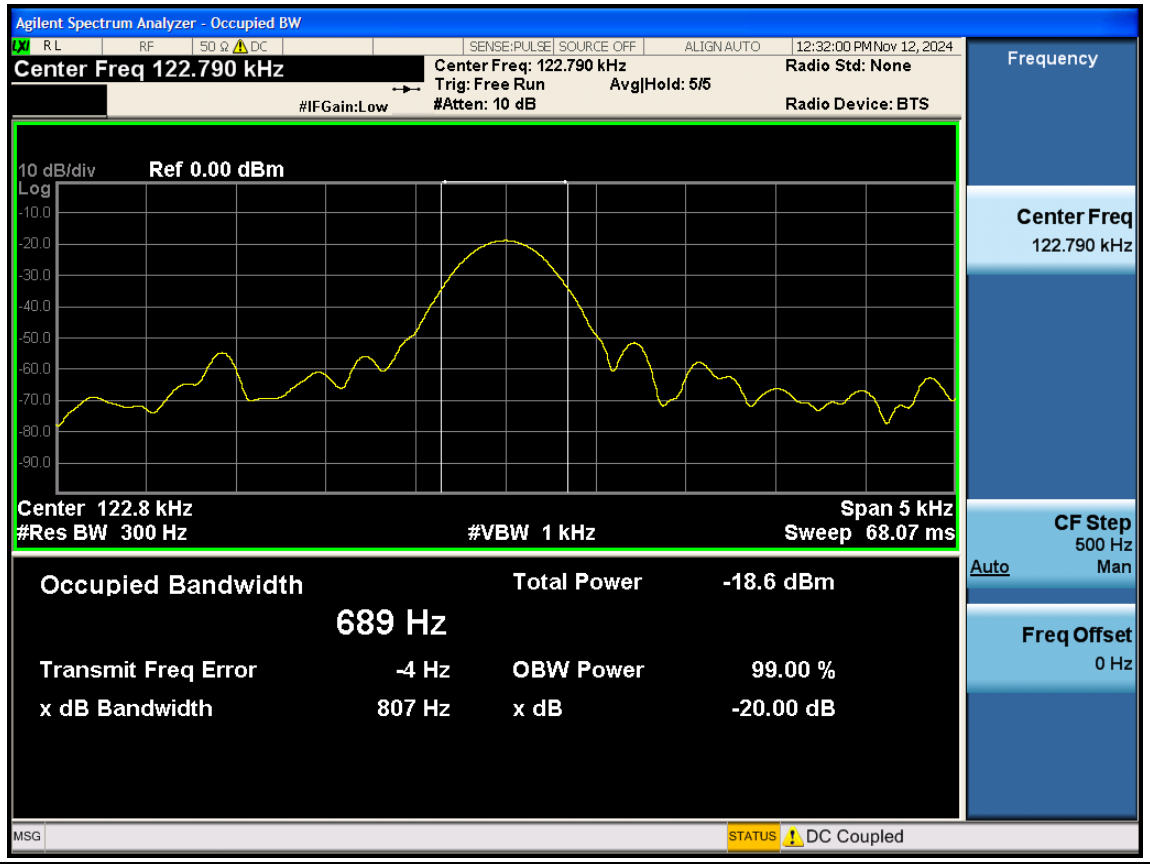
Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Frequency kHz	20 dB occupied bandwidth Hz	99% occupied bandwidth Hz
326.5	907	797



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.

Frequency kHz	20 dB occupied bandwidth Hz	99% occupied bandwidth Hz
122.790	807	689



6.3 Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR Part 15.209
Test Limit:	

Frequency (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

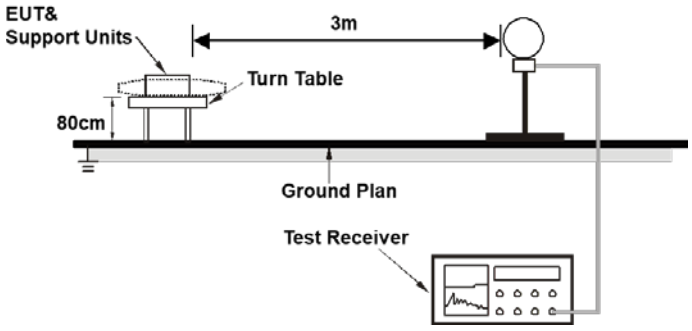
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this 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 C63.10-2013 section 6.4
Procedure:	ANSI C63.10-2013 section 6.4

6.3.1 E.U.T. Operation:

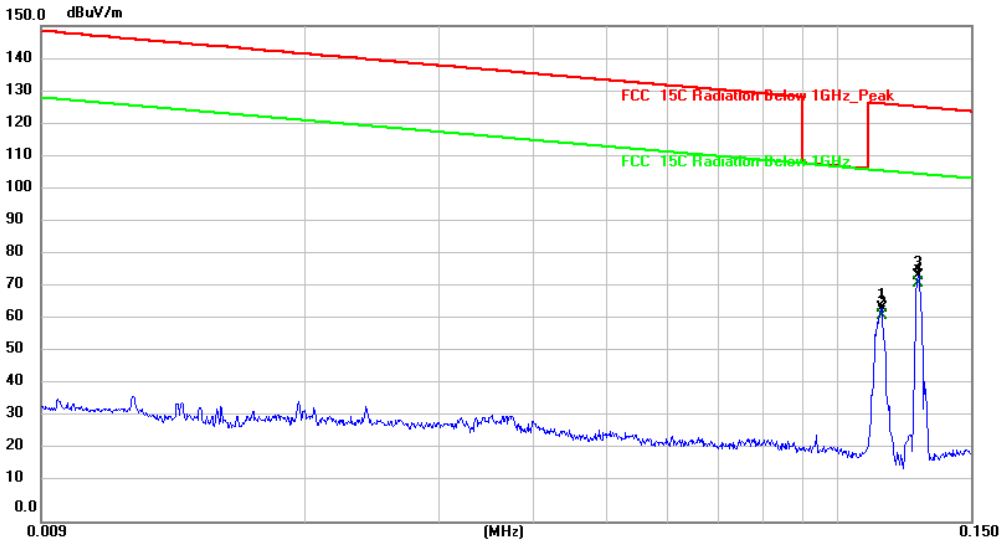
Operating Environment:					
Temperature:	22.5 °C	Humidity:	43 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode2) is recorded in the report				

6.3.2 Test Setup Diagram:



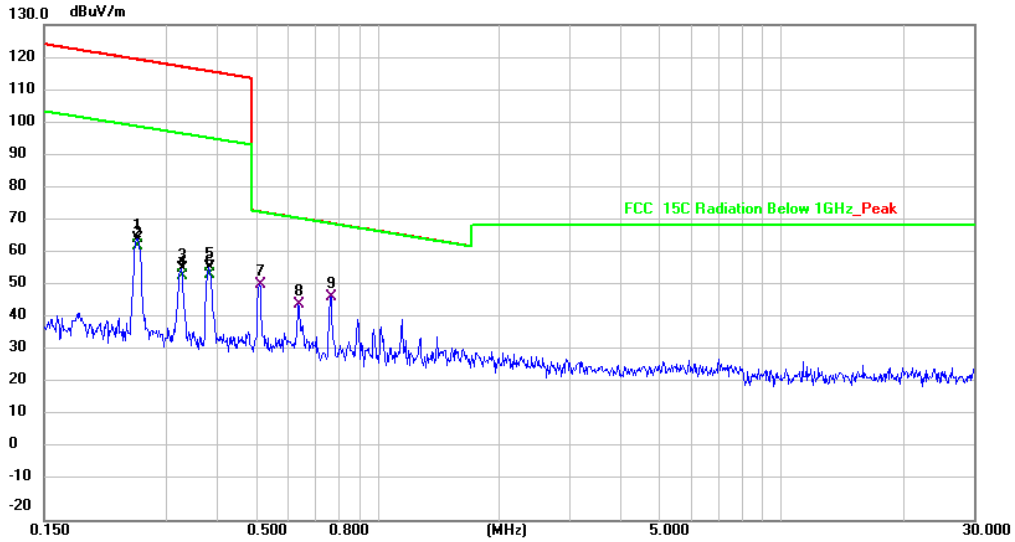
6.3.3 Test Data:

Mode2 / Polarization: Coplanar



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1144	44.34	20.50	64.84	126.46	-61.62	peak	
2		0.1144	41.90	20.50	62.40	106.46	-44.06	AVG	
3		0.1276	53.98	20.47	74.45	125.51	-51.06	peak	
4	*	0.1276	51.63	20.47	72.10	105.51	-33.41	AVG	

Mode2 / Polarization: Coplanar



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2548	44.49	20.83	65.32	119.49	-54.17	peak	
2		0.2548	42.27	20.83	63.10	99.49	-36.39	AVG	
3		0.3268	35.41	21.01	56.42	117.32	-60.90	peak	
4		0.3268	33.19	21.01	54.20	97.32	-43.12	AVG	
5		0.3832	35.68	21.13	56.81	115.94	-59.13	peak	
6		0.3832	33.27	21.13	54.40	95.94	-41.54	AVG	
7	*	0.5101	30.06	21.42	51.48	73.45	-21.97	QP	
8		0.6372	23.63	21.73	45.36	71.52	-26.16	QP	
9		0.7669	25.66	22.05	47.71	69.92	-22.21	QP	

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

Test Requirement:	47 CFR Part 15.209
Test Limit:	

Frequency (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

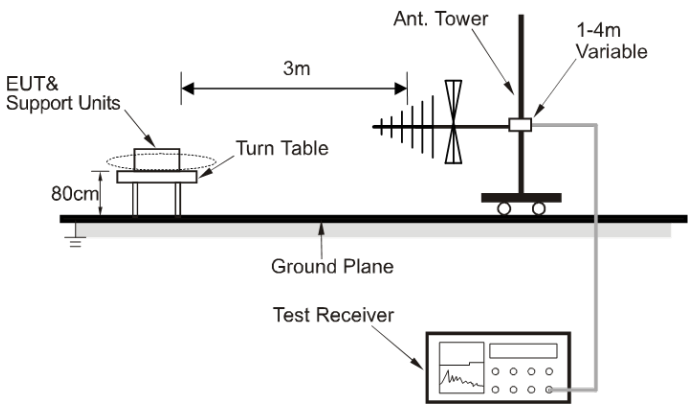
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this 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 C63.10-2013 section 6.5
Procedure:	ANSI C63.10-2013 section 6.5

6.4.1 E.U.T. Operation:

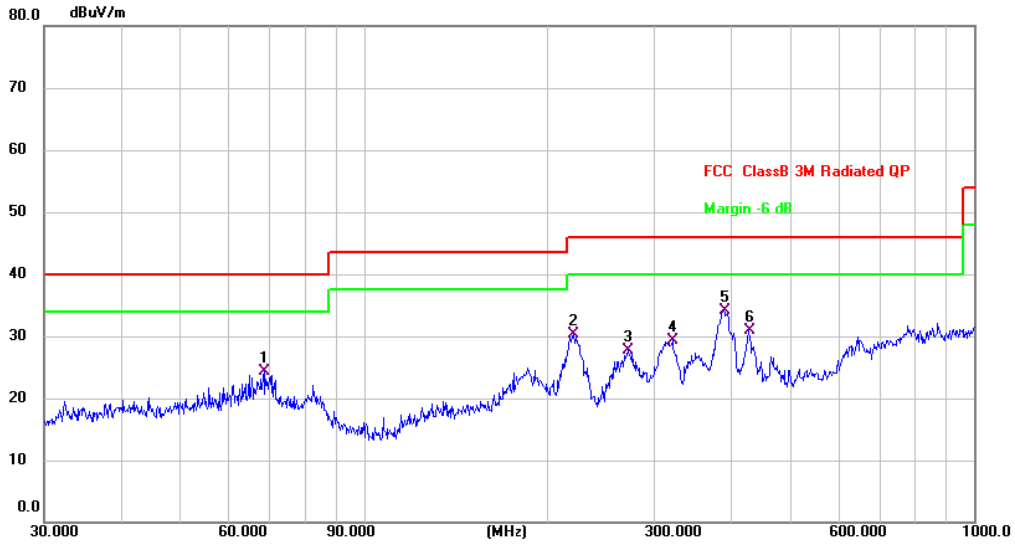
Operating Environment:					
Temperature:	26 °C	Humidity:	54 %	Atmospheric Pressure:	98.3 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report				

6.4.2 Test Setup Diagram:



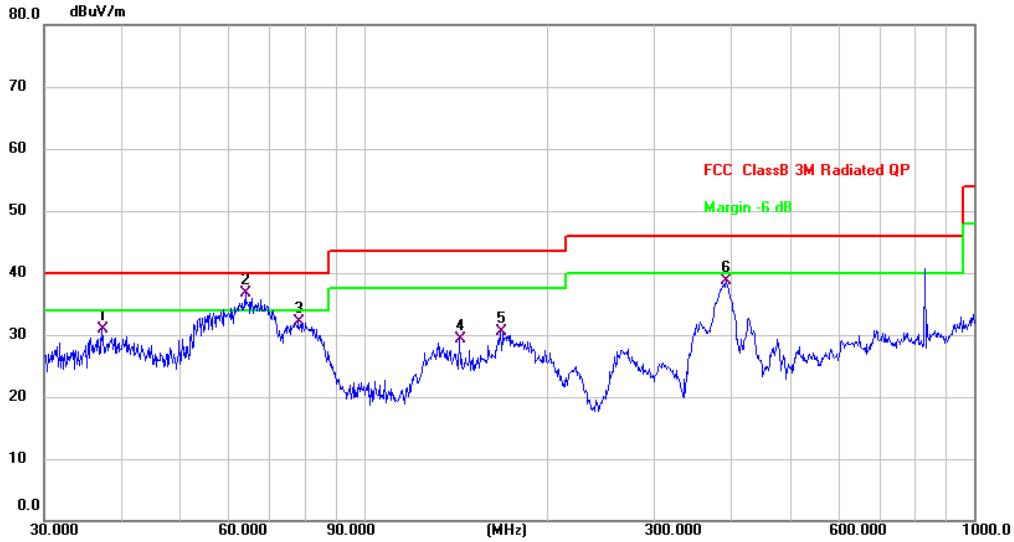
6.4.3 Test Data:

Mode1 / Polarization: Horizonta



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		68.6310	35.36	-10.98	24.38	40.00	-15.62	QP	
2		221.3921	41.90	-11.66	30.24	46.00	-15.76	QP	
3		271.3246	36.70	-8.96	27.74	46.00	-18.26	QP	
4		321.0608	36.81	-7.55	29.26	46.00	-16.74	QP	
5	*	389.3549	40.59	-6.55	34.04	46.00	-11.96	QP	
6		428.0193	36.44	-5.48	30.96	46.00	-15.04	QP	

Mode1 / Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		37.2855	39.74	-8.92	30.82	40.00	-9.18	QP	
2	*	63.9828	46.92	-10.25	36.67	40.00	-3.33	QP	
3		78.1389	44.68	-12.56	32.12	40.00	-7.88	QP	
4		143.3261	37.83	-8.57	29.26	43.50	-14.24	QP	
5		167.2368	38.92	-8.37	30.55	43.50	-12.95	QP	
6		393.4723	45.00	-6.33	38.67	46.00	-7.33	QP	

Photographs of the test setup

Refer to Appendix - Test Setup Photos

Photographs of the EUT

Refer to Appendix - EUT Photos

----End of Report----