

Test Report

Report No. : MTi250702007-0308E1
Date of issue : 2026-01-06
Applicant : CIO Co.,Ltd.
Product : SMARTCOBY SLIM II Wireless2.2 SS5K
Model(s) : CIO-MB20W1C-SS5K-S2W25
FCC ID : 2BTD7-SS5K-S2W25

Shenzhen Microtest Co., Ltd.

TEST REPORT

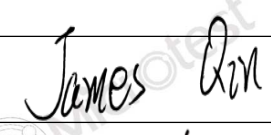
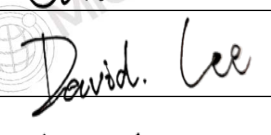
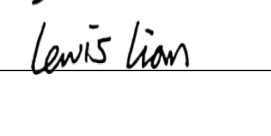
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Test Result Certification		
Applicant	CIO Co.,Ltd.	
Applicant Address	4F, Moriguchi CID Building, 2-5-18 Honmachi, Moriguchi-shi, Osaka 570-0028, Japan	
Manufacturer	CIO Co.,Ltd.	
Manufacturer Address	4F, Moriguchi CID Building, 2-5-18 Honmachi, Moriguchi-shi, Osaka 570-0028, Japan	
Factory	HU NAN GIANTSUN POWER ELECTRONICS CO., LTD	
Factory Address	Building15, 16, 17, Taiwan Industrial Zone, Nonferrous Metals Industrial park, Chenzhou, 423038, Hunan, P.R. China	
Product description		
Product name	SMARTCOBY SLIM II Wireless2.2 SS5K	
Trademark		
Model name	CIO-MB20W1C-SS5K-S2W25	
Series Model(s)	N/A	
Standards	47 CFR Part 15C	
Test Method	ANSI C63.10-2020+COR 1-2023	
Testing Information		
Date of test	2025-11-28 to 2025-12-01	
Test result	Pass	
Prepared by:	James Qin	
Reviewed by:	David Lee	
Approved by:	Lewis Lian	

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1 General Description

1.1 Description of the EUT

Product name:	SMARTCOBY SLIM II Wireless2.2 SS5K
Model name:	CIO-MB20W1C-SS5K-S2W25
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	Battery Capacity: 2500mAh/7.4V/18.5Wh Rated Capacity: 2900mAh (5V/3A) Battery Cell: 2500mAh*2PCS Wireless Output: Max 25W USB-C Input: 5V=3A/9V=2.22A/12V=1.67A(Max 20W) USB-C Output: 5V=3A/9V=2.22A/12V=1.67A/ PPS 5-11V=2A (Max 22W)
Accessories:	N/A
Hardware version:	1.0
Software version:	1.0
Test sample(s) number:	MTi250702007-03-R001
RF specification	
Operation frequency:	115-205kHz(5W/ 7.5W) 360kHz(15W MPP/ 25W MPP)
Modulation type:	ASK
Antenna type:	Coil

1.2 Description of test modes

No.	Emission test modes
Mode1	Charging+Wireless Output(5W)
Mode2	Charging+Wireless Output(7.5W)
Mode3	Wireless Output(5W)
Mode4	Wireless Output(7.5W)
Mode5	Wireless Output(15W MPP)
Mode6	Wireless Output(25W MPP)
Mode7	Stand by

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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
HUAWEI QUICK CHARGE(65W)	HW-200200ZP1	JN67LSN7N03451	HUAWEI
wireless charging load	YBZ3.0	/	YBZ
wireless charging load	YBZ2.1	/	YBZ

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.

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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

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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

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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	2025-03-14	2026-03-13
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2025-03-18	2026-03-17
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2025-03-18	2026-03-17
4	EMI Measurement Software	Farad	EZ-EMC Ver.EMEC-3A1	/	/	/
20dB Occupied Bandwidth						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2025-03-18	2026-03-17
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2025-03-14	2026-03-13
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2025-03-14	2026-03-13
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2025-03-14	2026-03-13
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2025-03-14	2026-03-13
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2025-03-18	2026-03-17
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2025-03-14	2026-03-13
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2025-03-14	2026-03-13
9	DC Power Supply	Agilent	E3632A	MY40027695	2025-03-18	2026-03-17
10	RF Test System	Tonscend	JS1120-3 Test System Ver. V3.5.39	/	/	/
Emissions in frequency bands (below 30MHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2025-03-14	2026-03-13
2	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2026-03-22
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2025-03-18	2026-03-17
4	EMI Measurement Software	Farad	EZ-EMC Ver.EMEC-3A1	/	/	/
Emissions in frequency bands (30MHz - 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2025-03-14	2026-03-13
2	TRILOG Broadband	schwarabeck	VULB 9163	9163-1338	2025-05-23	2027-05-22

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No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
	Antenna					
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2026-03-22
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2025-03-18	2026-03-17
5	EMI Measurement Software	Farad	EZ-EMC Ver.EMEC-3A1	/	/	/

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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.

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6 Radio Spectrum Matter Test Results (RF)

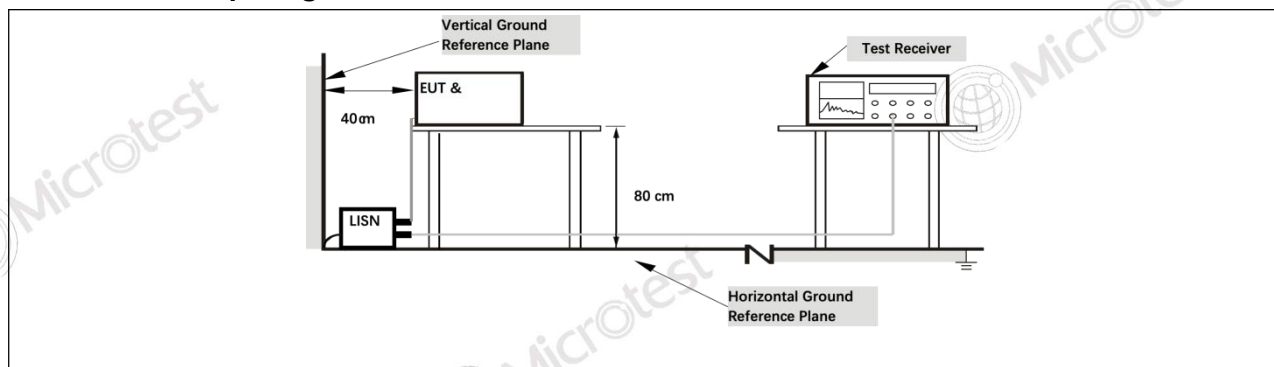
6.1 Conducted Emission at AC power line

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 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		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+COR 1-2023 section 6.2		
Procedure:	Refer to ANSI C63.10-2020+COR 1-2023 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:	23 °C	Humidity:	29 %	Atmospheric Pressure:	100 kPa
Pre test mode:	Mode1, Mode2				
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:

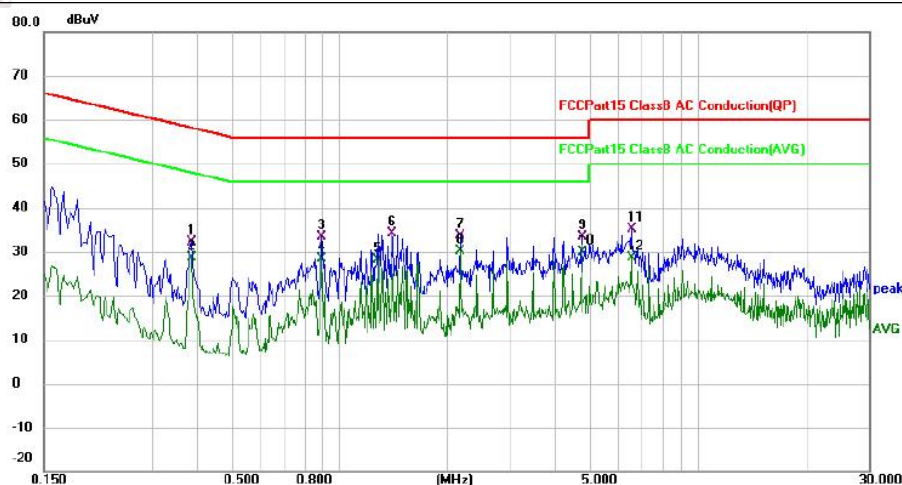


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6.1.3 Test Data:

Mode2 / Line: Line

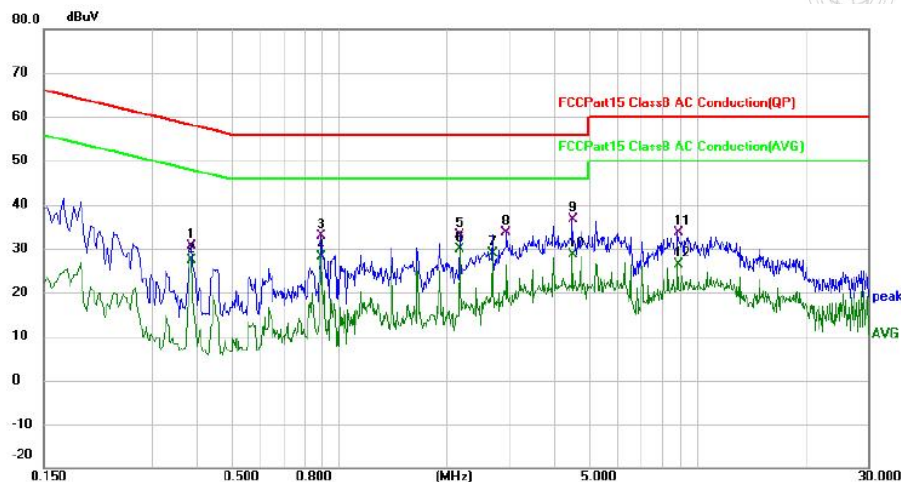


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3860	21.42	10.79	32.21	58.15	-25.94	QP	
2		0.3860	17.75	10.79	28.54	48.15	-19.61	AVG	
3		0.8980	22.65	10.74	33.39	56.00	-22.61	QP	
4		0.8980	17.75	10.74	28.49	46.00	-17.51	AVG	
5		1.2780	17.81	10.31	28.12	46.00	-17.88	AVG	
6		1.4100	23.86	10.33	34.19	56.00	-21.81	QP	
7		2.1780	23.36	10.36	33.72	56.00	-22.28	QP	
8	*	2.1780	19.67	10.36	30.03	46.00	-15.97	AVG	
9		4.7380	22.93	10.51	33.44	56.00	-22.56	QP	
10		4.7380	19.40	10.51	29.91	46.00	-16.09	AVG	
11		6.5300	25.01	10.22	35.23	60.00	-24.77	QP	
12		6.5300	18.30	10.22	28.52	50.00	-21.48	AVG	

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Mode2 / Line: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3860	20.22	10.41	30.63	58.15	-27.52	QP	
2		0.3860	17.09	10.41	27.50	48.15	-20.65	AVG	
3		0.8980	22.41	10.41	32.82	56.00	-23.18	QP	
4		0.8980	17.79	10.41	28.20	46.00	-17.80	AVG	
5		2.1740	22.58	10.45	33.03	56.00	-22.97	QP	
6	*	2.1740	19.36	10.45	29.81	46.00	-16.19	AVG	
7		2.6900	18.49	10.38	28.87	46.00	-17.13	AVG	
8		2.9460	23.35	10.39	33.74	56.00	-22.26	QP	
9		4.4820	26.40	10.20	36.60	56.00	-19.40	QP	
10		4.4820	18.43	10.20	28.63	46.00	-17.37	AVG	
11		8.8340	23.37	10.24	33.61	60.00	-26.39	QP	
12		8.8340	16.15	10.24	26.39	50.00	-23.61	AVG	

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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+COR 1-2023, 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 $[(\text{reference value}) - \text{xx}]$. 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

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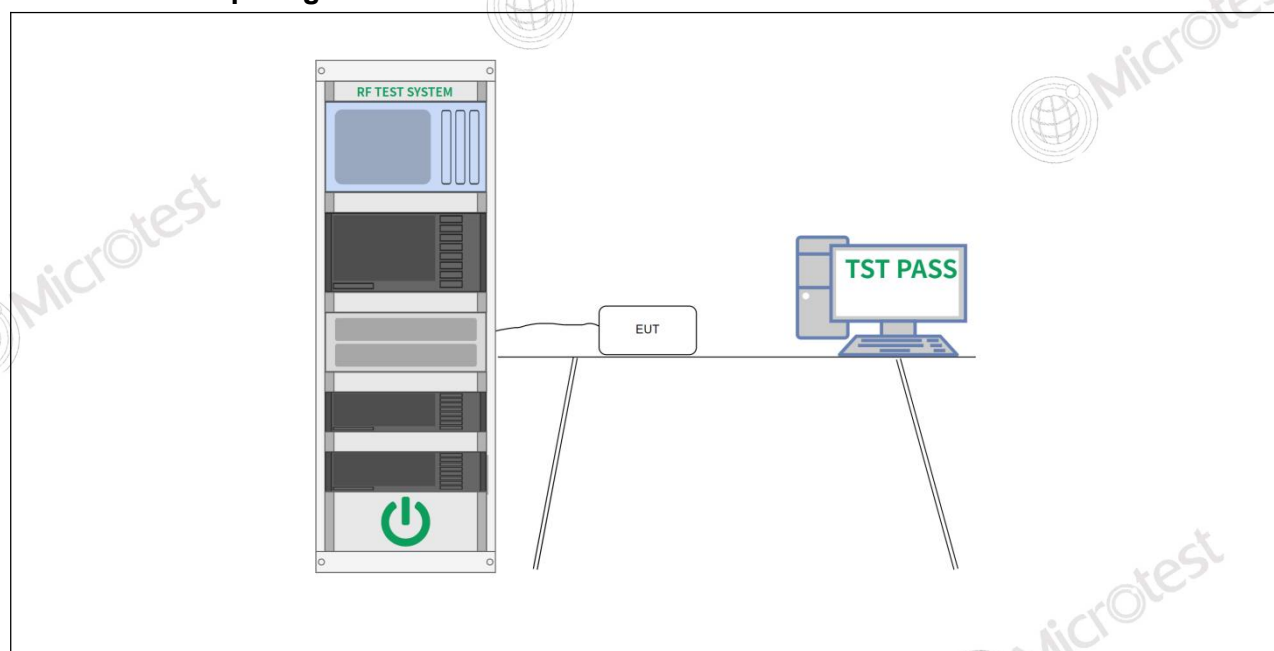
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	measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
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6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.9 °C	Humidity:	28 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode4, Mode6) is recorded in the report				

6.2.2 Test Setup Diagram:



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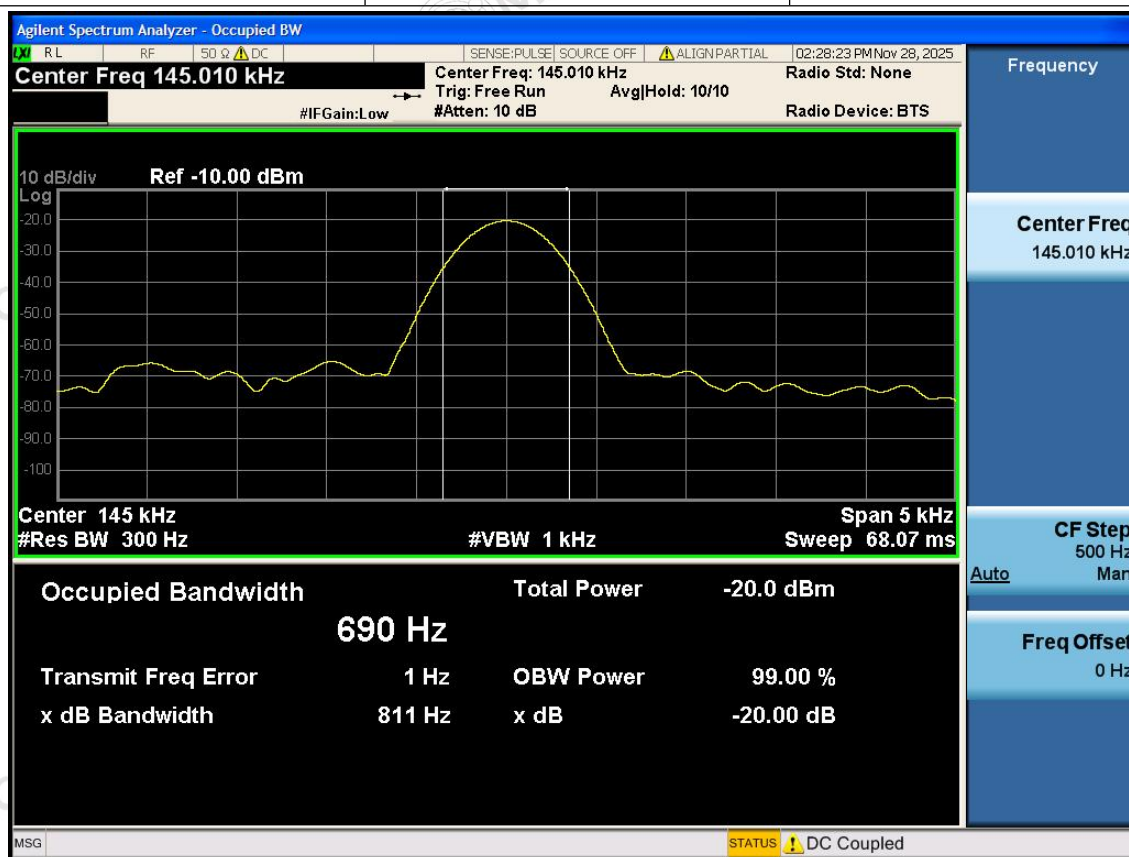
Report No.: MTi250702007-0308E1

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.

Mode4

Frequency kHz	20 dB occupied bandwidth Hz	99% occupied bandwidth Hz
145.01	811	690

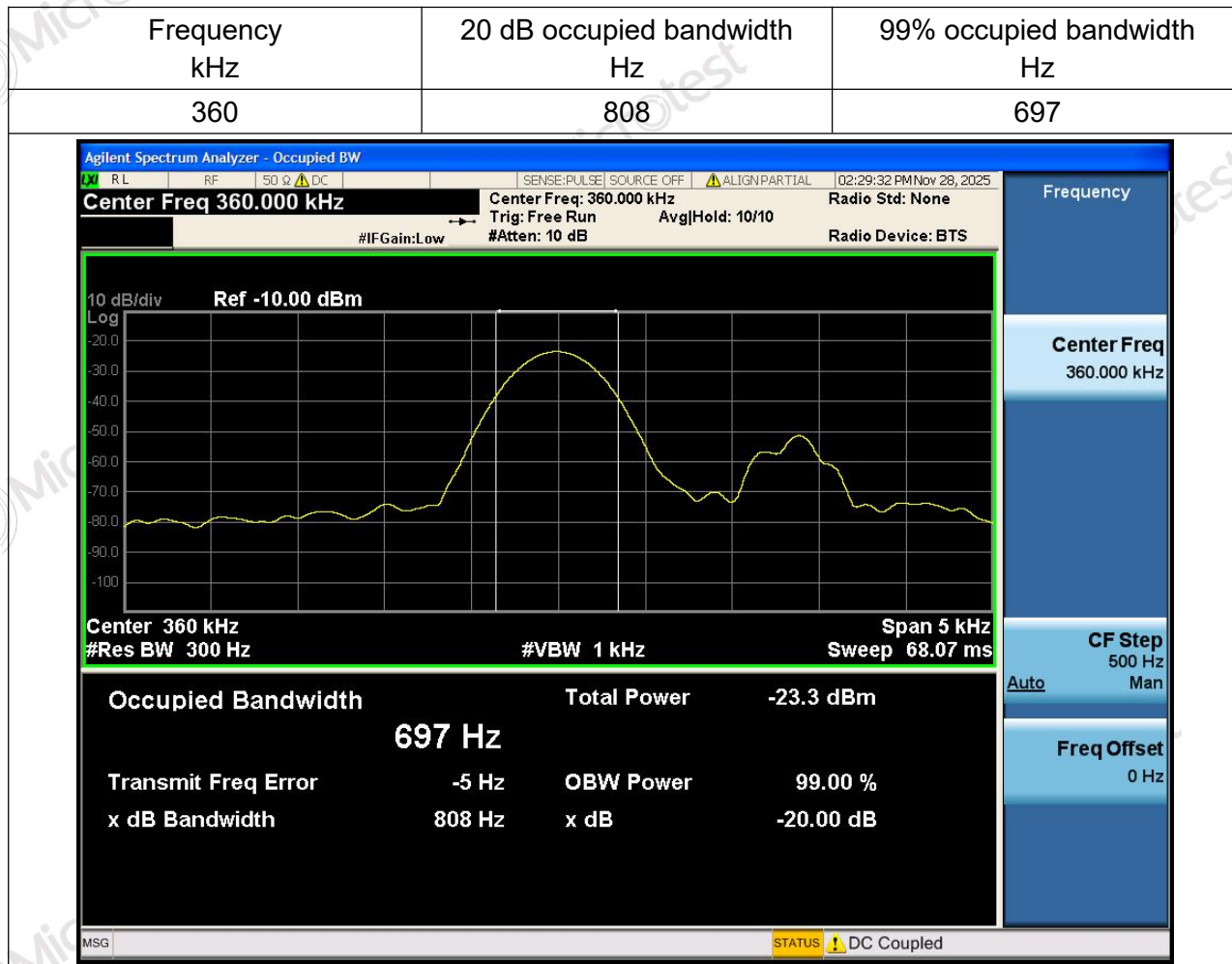


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Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Mode6



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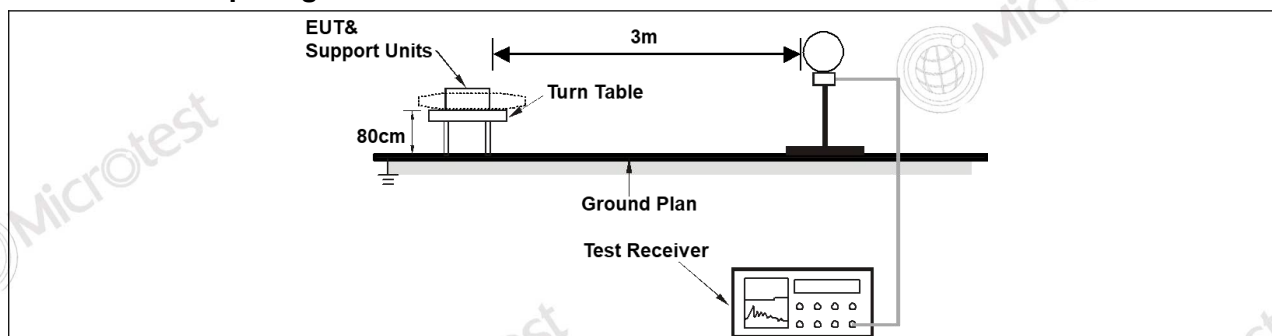
6.3 Emissions in frequency bands (below 30MHz)

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 C63.10-2020+COR 1-2023 section 6.4		
Procedure:	ANSI C63.10-2020+COR 1-2023 section 6.4		

6.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	26 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode4, Mode6) is recorded in the report				

6.3.2 Test Setup Diagram:

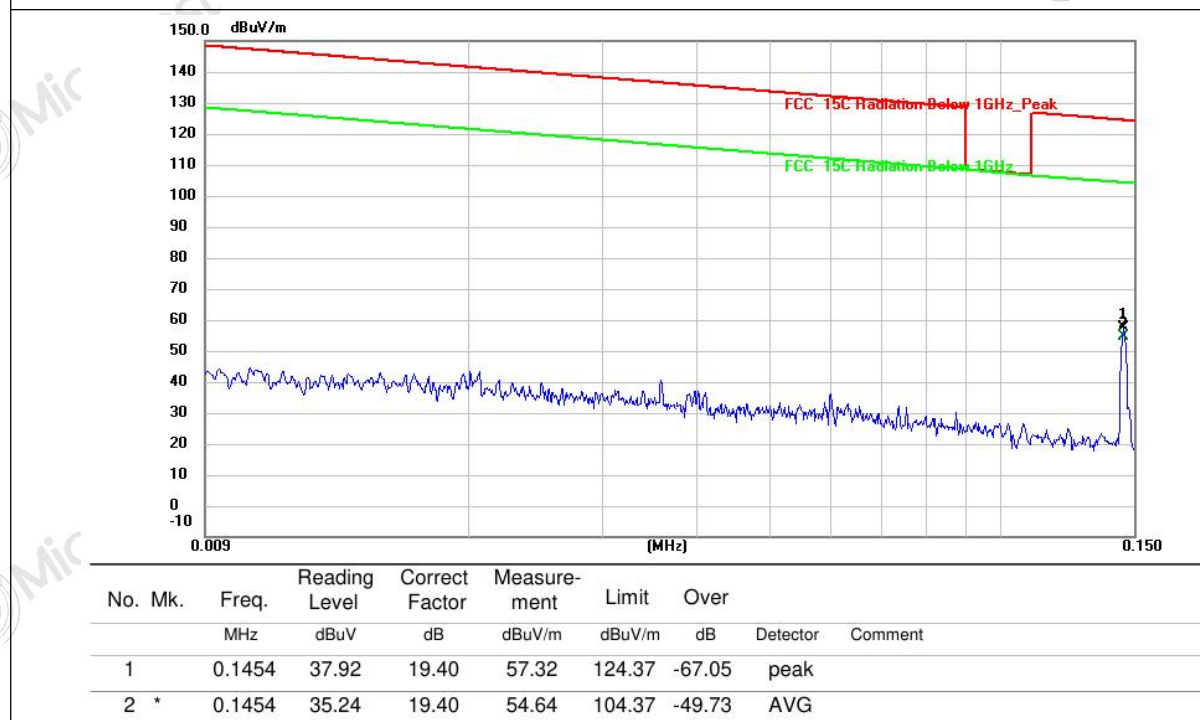


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6.3.3 Test Data:

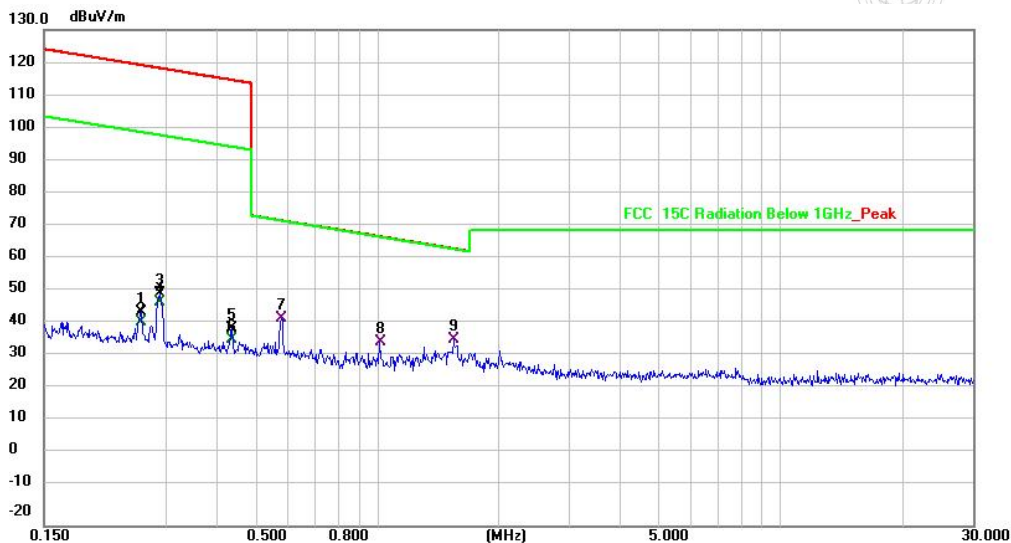
Mode4 / Polarization: Coaxial



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Mode4 / Polarization: Coaxial

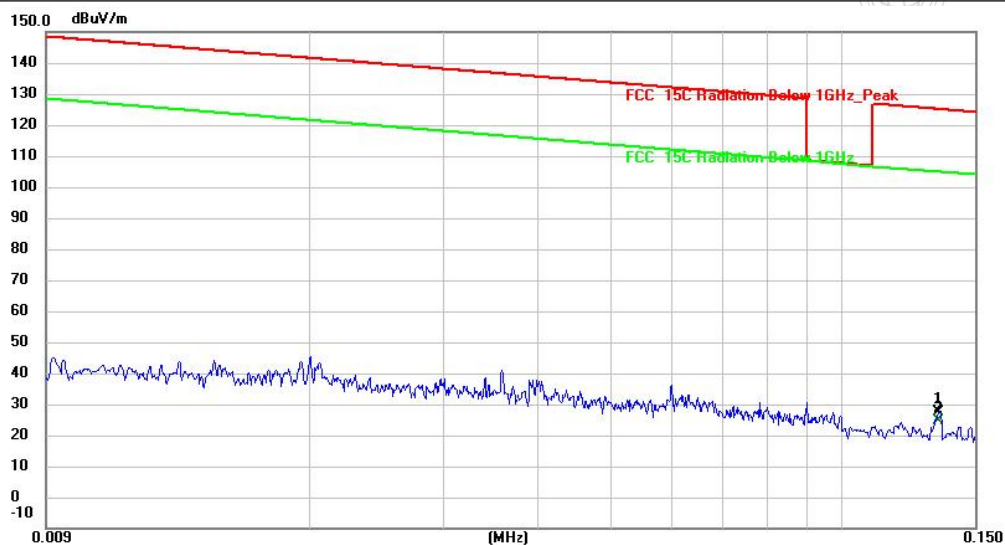


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.2615	25.47	19.36	44.83	119.26	-74.43	peak	
2		0.2615	22.16	19.36	41.52	99.26	-57.74	AVG	
3		0.2893	31.04	19.39	50.43	118.39	-67.96	peak	
4		0.2893	28.46	19.39	47.85	98.39	-50.54	AVG	
5		0.4374	20.24	19.57	39.81	114.79	-74.98	peak	
6		0.4374	16.85	19.57	36.42	94.79	-58.37	AVG	
7		0.5792	23.18	19.70	42.88	72.35	-29.47	QP	
8		1.0157	15.82	19.80	35.62	67.49	-31.87	QP	
9	*	1.5436	16.54	19.86	36.40	63.86	-27.46	QP	

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Mode6 / Polarization: Coaxial

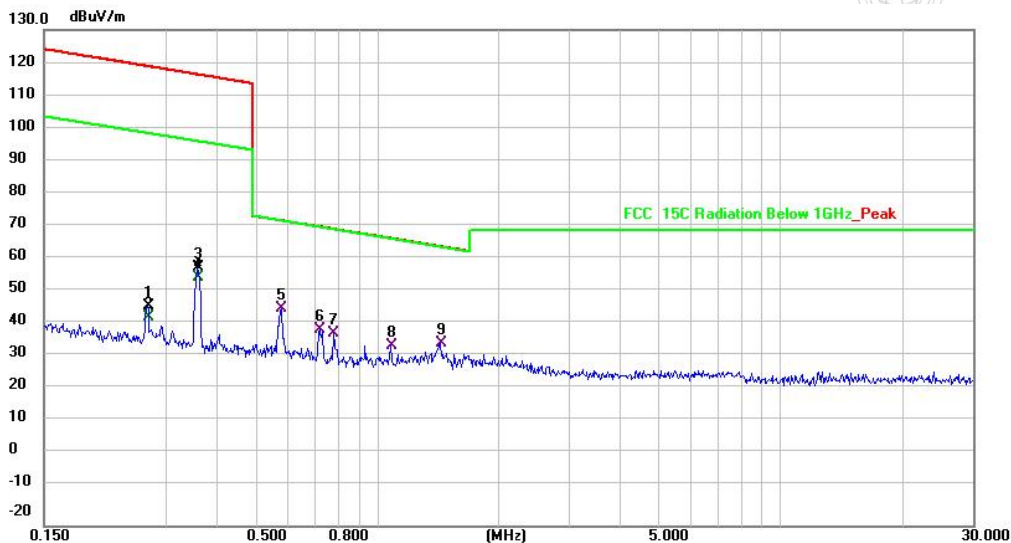


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.1344	7.80	19.46	27.26	125.06	-97.80	peak	
2	*	0.1344	5.12	19.46	24.58	105.06	-80.48	AVG	

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Mode6 / Polarization: Coaxial



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.2701	27.03	19.37	46.40	118.98	-72.58	peak	
2		0.2701	23.82	19.37	43.19	98.98	-55.79	AVG	
3		0.3600	38.61	19.46	58.07	116.48	-58.41	peak	
4		0.3600	35.90	19.46	55.36	96.48	-41.12	AVG	
5	*	0.5792	26.21	19.70	45.91	72.35	-26.44	QP	
6		0.7198	19.76	19.78	39.54	70.47	-30.93	QP	
7		0.7793	18.48	19.72	38.20	69.78	-31.58	QP	
8		1.0824	14.92	19.81	34.73	66.94	-32.21	QP	
9		1.4333	15.61	19.84	35.45	64.50	-29.05	QP	

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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 C63.10-2020+COR 1-2023 section 6.5		
Procedure:	ANSI C63.10-2020+COR 1-2023 section 6.5		

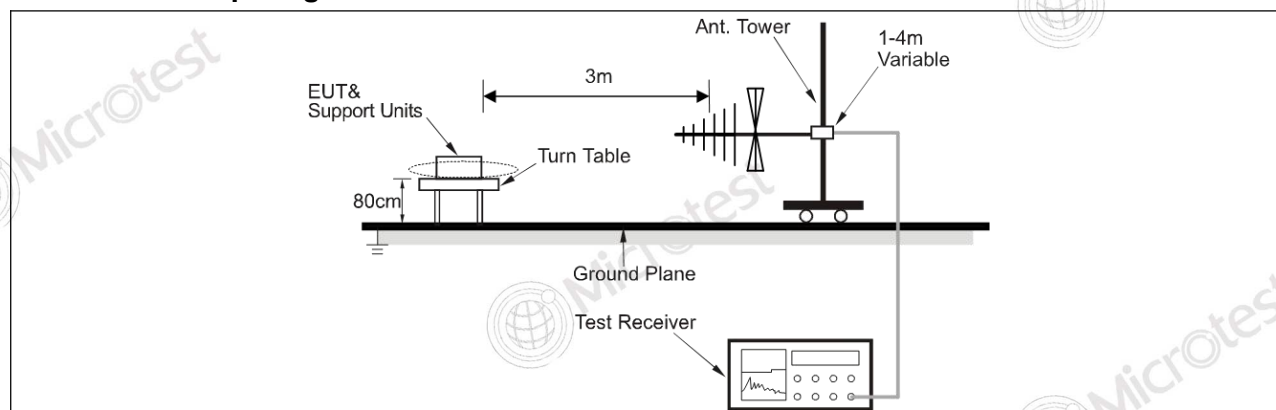
6.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24 °C	Humidity:	57 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7				
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				

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6.4.2 Test Setup Diagram:

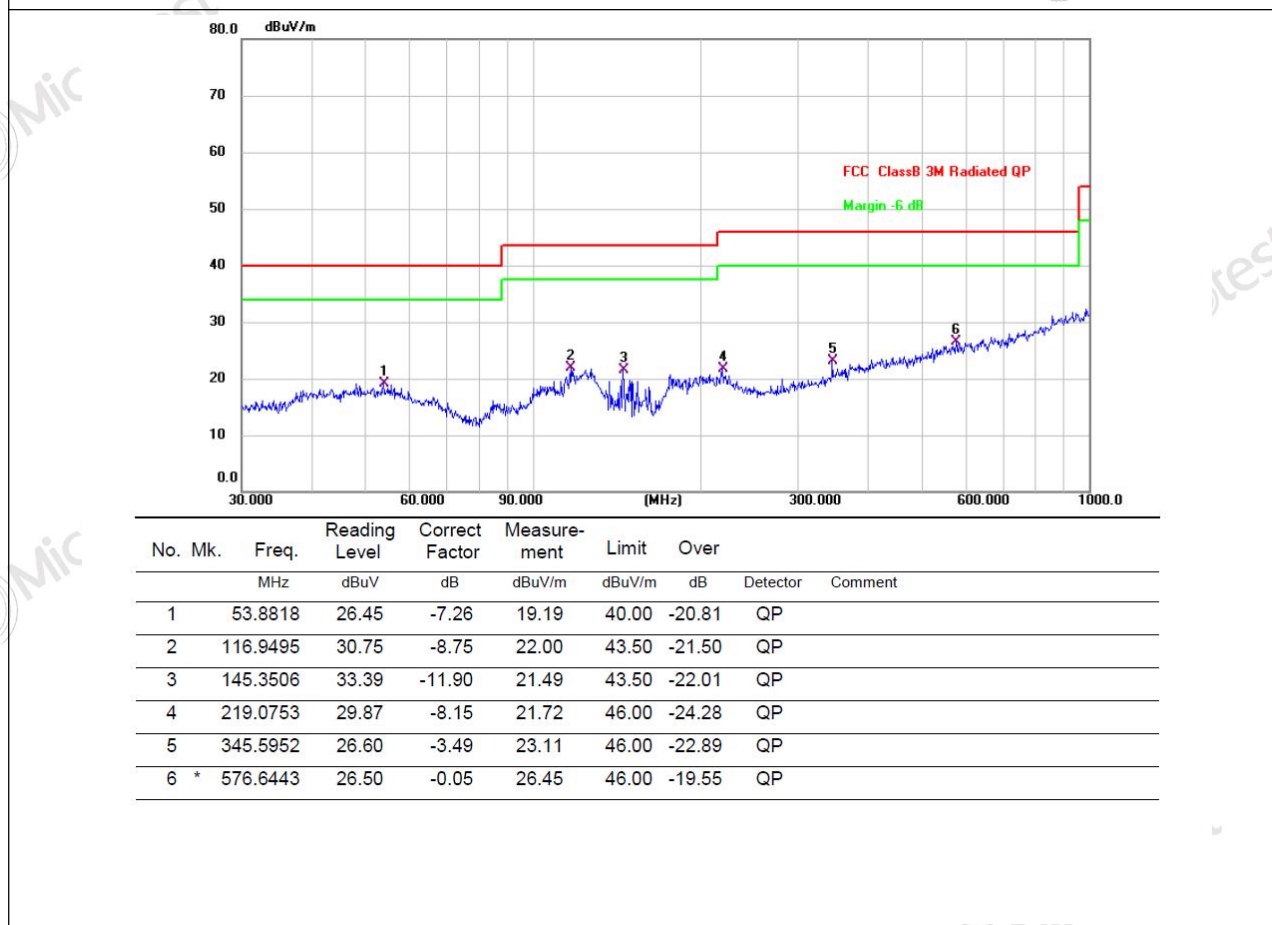


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6.4.3 Test Data:

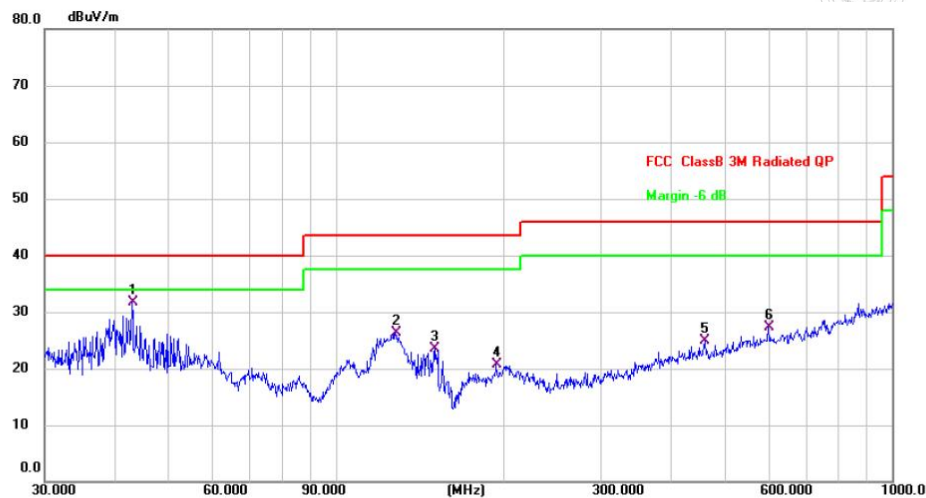
Mode2 / Polarization: Horizontal



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Mode2 / Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	43.0505	39.59	-7.84	31.75	40.00	-8.25	QP	
2		128.1130	37.56	-11.34	26.22	43.50	-17.28	QP	
3		150.5378	34.84	-11.40	23.44	43.50	-20.06	QP	
4		194.4534	29.31	-8.61	20.70	43.50	-22.80	QP	
5		460.7271	26.79	-1.90	24.89	46.00	-21.11	QP	
6		599.3212	26.80	0.51	27.31	46.00	-18.69	QP	

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Photographs of the test setup

Refer to Appendix - Test Setup Photos

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Photographs of the EUT

Refer to Appendix - EUT Photos

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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 *****