

Test Report

Report No. : MTi260810011-0104E3
Date of issue : 2026-08-25
Applicant : Zhuhai Quin Technology Co., Ltd.
Product : Smart Mini Label Maker
Model(s) : D50, D50S, D51, D52, D51S, D51 PRO, D50Pro,
D50S, D55, D50A, D50T, V30D
FCC ID : 2ASRB-D50A

Shenzhen Microtest Co., Ltd.

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Test Result Certification		
Applicant	Zhuhai Quin Technology Co., Ltd.	
Applicant Address	1ST FLOOR, BUILDING 1, NO. 456 CHUANGYUAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY	
Manufacturer	Zhuhai Quin Technology Co., Ltd.	
Manufacturer Address	1ST FLOOR, BUILDING 1, NO. 456 CHUANGYUAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY	
Product description		
Product name	Smart Mini Label Maker	
Trademark	N/A	
Model name	D50	
Series Model(s)	D50S, D51, D52, D51S, D51 PRO, D50Pro, D50S, D55, D50A, D50T, V30D	
Standards	47 CFR Part 15.225	
Test Method	ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024	
Testing Information		
Date of test	2026-08-18 to 2026-08-25	
Test result	Pass	
Prepared by:	Letter Lan	<i>Letter Lan</i>
Reviewed by:	David Lee	<i>David Lee</i>
Approved by:	Lewis Lian	<i>Lewis Lian</i>

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1 General Description

1.1 Description of the EUT

Product name:	Smart Mini Label Maker
Model name:	D50
Series Model(s):	D50S, D51, D52, D51S, D51 PRO, D50Pro, D50S, D55, D50A, D50T, V30D
Model difference:	All the models are the same circuit and module, except the model number and colour.
Electrical rating:	Input: 5V $\pm$ 2A Battery: 7.4VDC 1000mAh
Accessories:	Cable: USB-A to Type-C cable 0.3m
Hardware version:	Q136_A
Software version:	_1.0.0
Test sample(s) number:	MTi260810011-01-R001
RF specification	
Operating frequency range:	13.56MHz
Channel number:	1
Modulation type:	ASK
Antenna(s) type:	Coil

1.2 Description of test modes

No.	Emission test modes
Mode1	TX

1.2.1 Operation channel list

Channel	Frequency (MHz)
1	13.56

Test Channel List Operation Band: 1

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
13.56	/	13.56	/

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Test Software: No need

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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
MI CHARGE	MDY-11-EX	SA623116200029J	MI

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 %
Time	±1 %
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 15.225	47 CFR 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15.225	47 CFR 15.207(a)	Pass
3	20dB Bandwidth	47 CFR Part 15.225	47 CFR 15.215(c)	Pass
4	Frequency Tolerance	47 CFR Part 15.225	47 CFR 15.225(e)	Pass
5	Field Strength of The Fundamental Signal	47 CFR Part 15.225	47 CFR 15.225(a)	Pass
6	Emissions in frequency bands (below 30MHz)	47 CFR Part 15.225	47 CFR 15.225(d)	Pass
7	Emissions in frequency bands (30M-1GHz)	47 CFR Part 15.225	47 CFR 15.225(d)	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	2026-03-10	2027-03-09
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2026-03-11	2027-03-10
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2026-03-10	2027-03-09
4	EMI Test Software	Farad	EZ-EMC	Ver. EMEC-3A1	/	/
20dB Bandwidth Frequency Tolerance						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2026-03-09	2027-03-08
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2026-03-09	2027-03-08
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2026-03-10	2027-03-09
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2026-03-10	2027-03-09
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2026-03-09	2027-03-08
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2026-03-11	2027-03-10
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2026-03-11	2027-03-10
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2026-03-10	2027-03-09
9	DC Power Supply	Agilent	E3632A	MY40027695	2026-03-09	2027-03-08
10	RF Test System	Tonscend	JS1120-3 Test System	V3.6.21	/	/
Field Strength of The Fundamental Signal Emissions in frequency bands (below 30MHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2026-03-10	2027-03-09
2	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2026-03-08	2028-03-07
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2026-03-10	2027-03-09
4	EMI Test Software	Farad	EZ-EMC	Ver. EMEC-3A1	/	/
Emissions in frequency bands (30M-1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2026-03-10	2027-03-09
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2025-05-23	2027-05-22
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2026-03-08	2028-03-07

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No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2026-03-10	2027-03-09
5	EMI Test 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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6 Radio Spectrum Matter Test Results (RF)

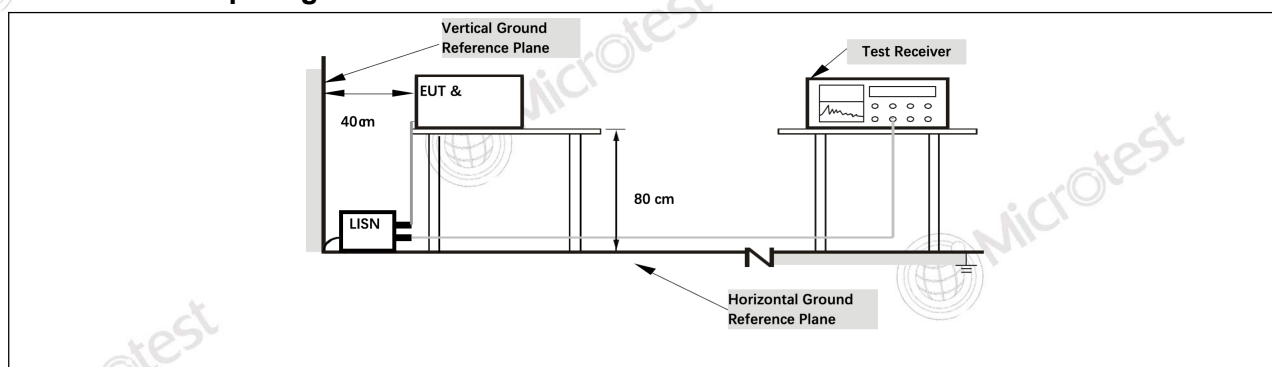
6.1 Conducted Emission at AC power line

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+C63.10a-2024 section 6.2		
Procedure:	Refer to ANSI C63.10-2020+C63.10a-2024 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:	24 °C	Humidity:	65 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.1.2 Test Setup Diagram:

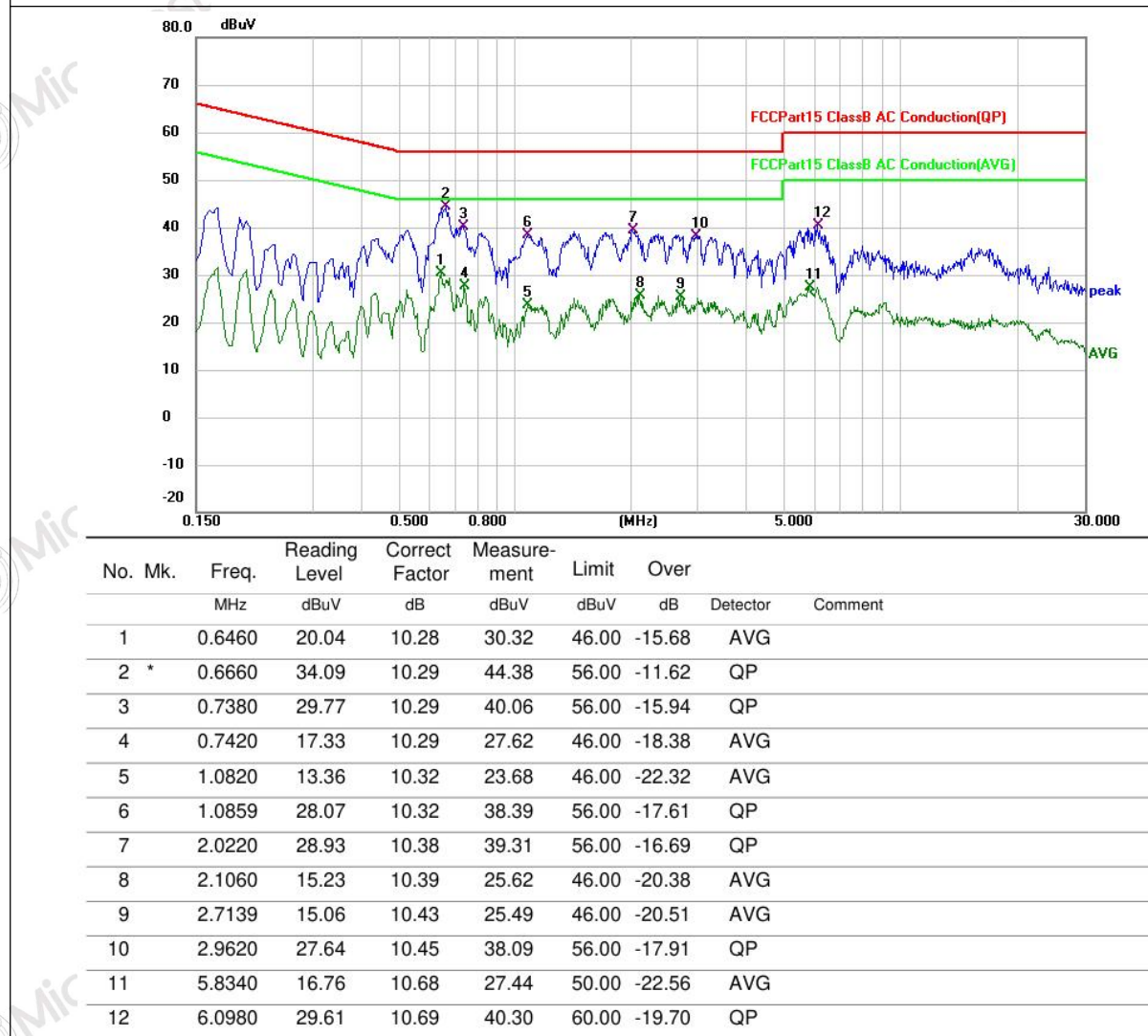


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6.1.3 Test Data:

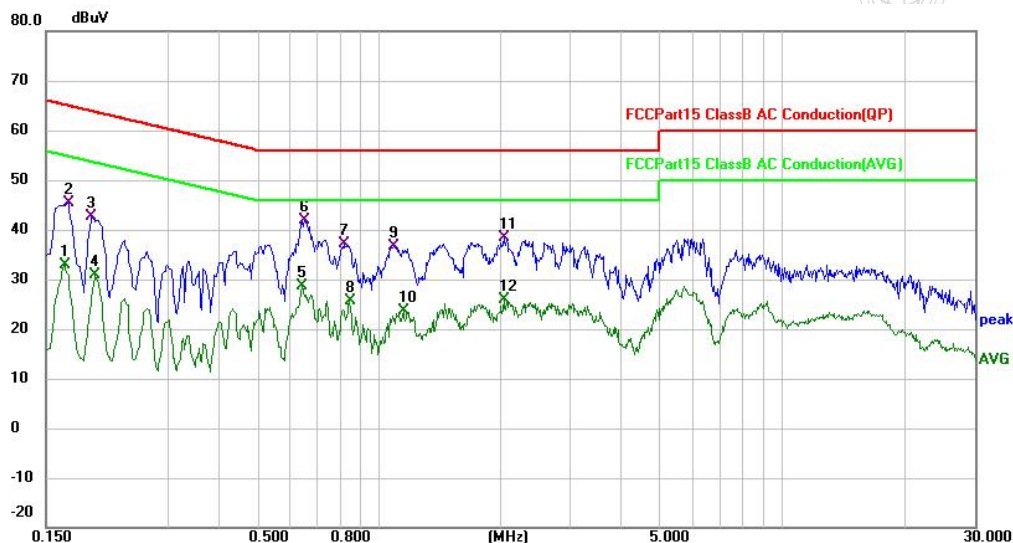
Mode1 / Line: Line / CH: M



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Mode1 / Line: Neutral / CH: M



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1660	22.63	10.31	32.94	55.16	-22.22	AVG	
2		0.1700	35.08	10.31	45.39	64.96	-19.57	QP	
3		0.1940	32.39	10.30	42.69	63.86	-21.17	QP	
4		0.1980	20.48	10.30	30.78	53.69	-22.91	AVG	
5		0.6460	18.32	10.28	28.60	46.00	-17.40	AVG	
6	*	0.6540	31.52	10.29	41.81	56.00	-14.19	QP	
7		0.8180	26.76	10.31	37.07	56.00	-18.93	QP	
8		0.8460	15.21	10.31	25.52	46.00	-20.48	AVG	
9		1.0900	26.21	10.32	36.53	56.00	-19.47	QP	
10		1.1500	13.22	10.33	23.55	46.00	-22.45	AVG	
11		2.0380	27.88	10.39	38.27	56.00	-17.73	QP	
12		2.0380	15.54	10.39	25.93	46.00	-20.07	AVG	

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6.2 20dB Bandwidth

Test Requirement:	47 CFR 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+C63.10a-2024, 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).

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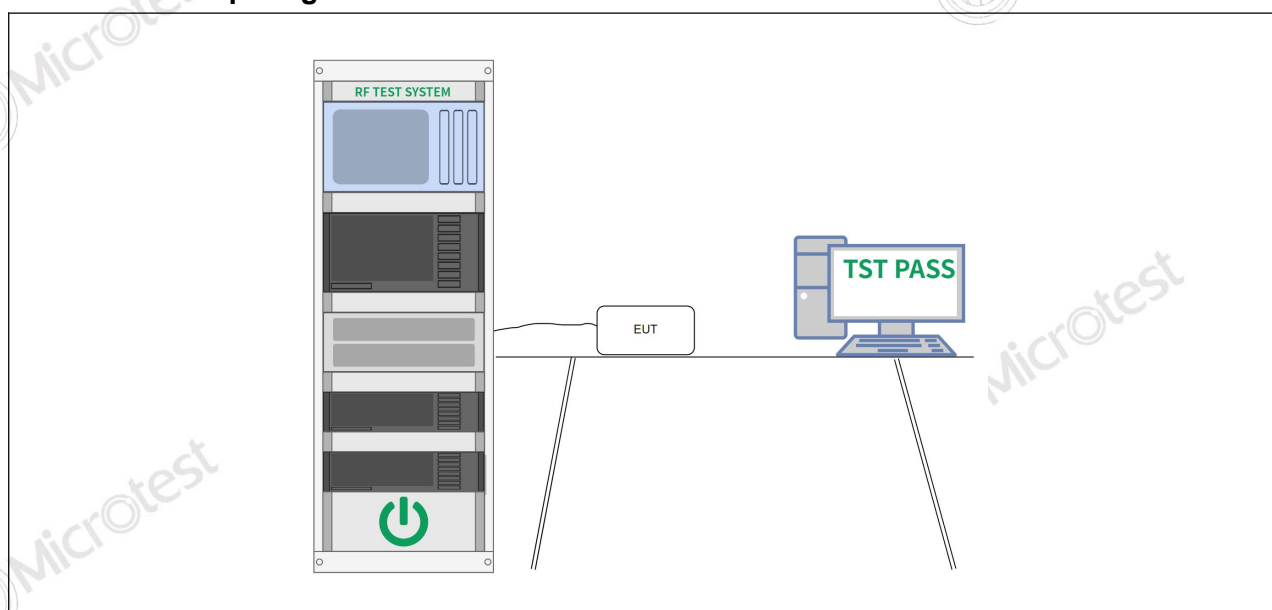
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	j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “íxx dB down amplitude” determined in step h). If a marker is below 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 “íxx 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).
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6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25.1 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.2.2 Test Setup Diagram:

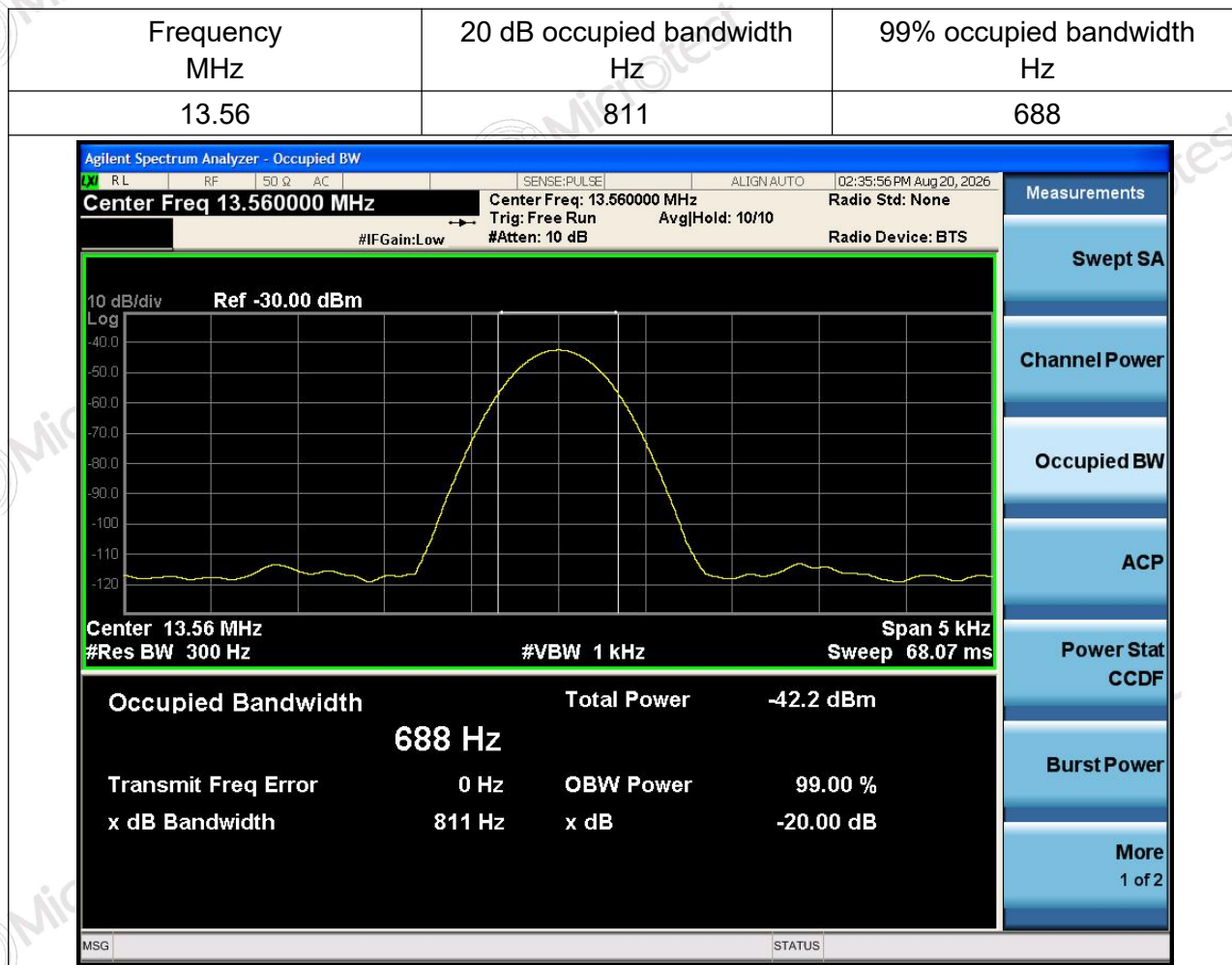


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6.2.3 Test Data:

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.



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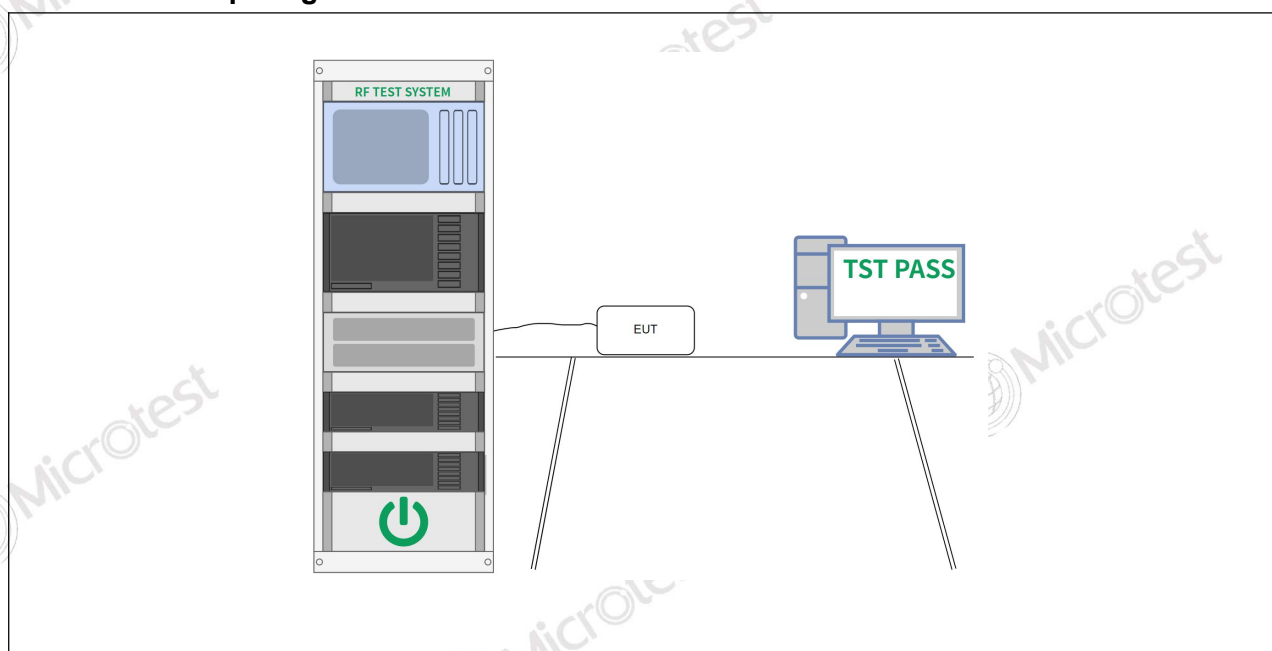
6.3 Frequency Tolerance

Test Requirement:	47 CFR 15.225(e)
Test Limit:	The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.
Test Method:	ANSI C63.10-2020+C63.10a-2024, Section 6.8
Procedure:	Refer to ANSI C63.10-2020+C63.10a-2024, Section 6.8

6.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25.1 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.3.2 Test Setup Diagram:



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6.3.3 Test Data:

Power Supply (VDC)	Temperature (°C)	Measured Frequency (MHz)	Frequency Deviation	Limit
7.4	-20	13.5603	0.002%	+/-0.01%
	-10	13.5604	0.003%	
	0	13.5603	0.002%	
	10	13.5602	0.001%	
	20	13.5604	0.003%	
	30	13.5602	0.001%	
	40	13.5603	0.002%	
	50	13.5602	0.001%	
6.29	20	13.5603	0.002%	
8.14	20	13.5602	0.001%	

Note: All of the listed pre-test mode were tested, only the data of the worst mode is recorded in the report.

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6.4 Field Strength of The Fundamental Signal

Test Requirement:	47 CFR 15.225(a)
Test Limit:	The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
Test Method:	ANSI C63.10-2020+C63.10a-2024, Section 6.4
Procedure:	Refer to ANSI C63.10-2020+C63.10a-2024, Section 6.4

6.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.2 °C	Humidity:	31 %	Atmospheric Pressure:	99.8 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

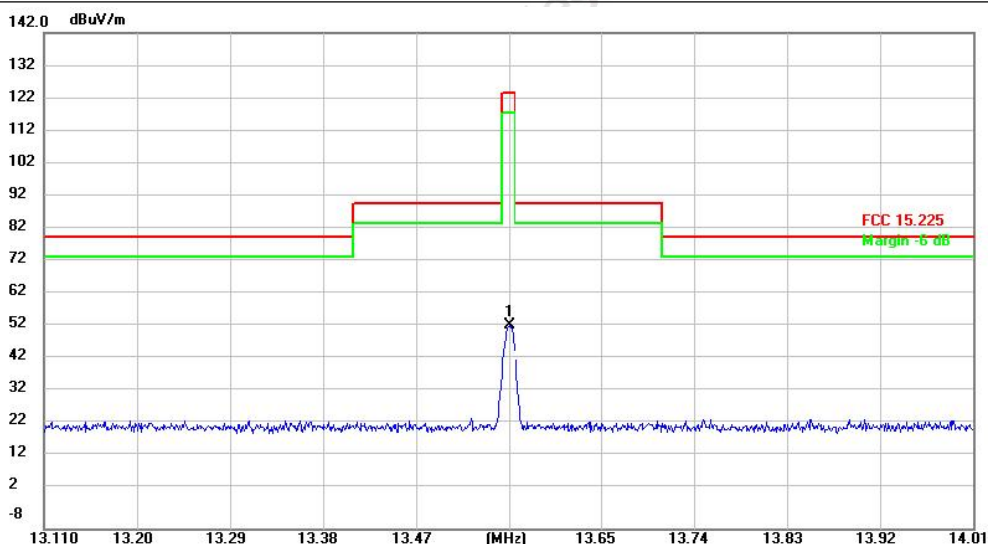
6.4.2 Test Data:

Calculation formula:

Measurement (dBμV/m) = Reading Level (dBμV) + Correct Factor (dB/m)

Over (dB) = Measurement (dBμV/m) – Limit (dBμV/m)

Mode1 / Polarization: Horizontal / CH: M



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	13.5600	34.06	19.46	53.52	123.99	-70.47	peak	

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6.5 Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR 15.225(d)																										
Test Limit:	Refer to 47 CFR Part 15.225(d), The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in § 15.209. <table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> ** 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.			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
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																									
Test Method:	ANSI C63.10-2020+C63.10a-2024, Section 6.4																										
Procedure:	Refer to ANSI C63.10-2020+C63.10a-2024 section 6.4																										

6.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25 °C	Humidity:	61 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

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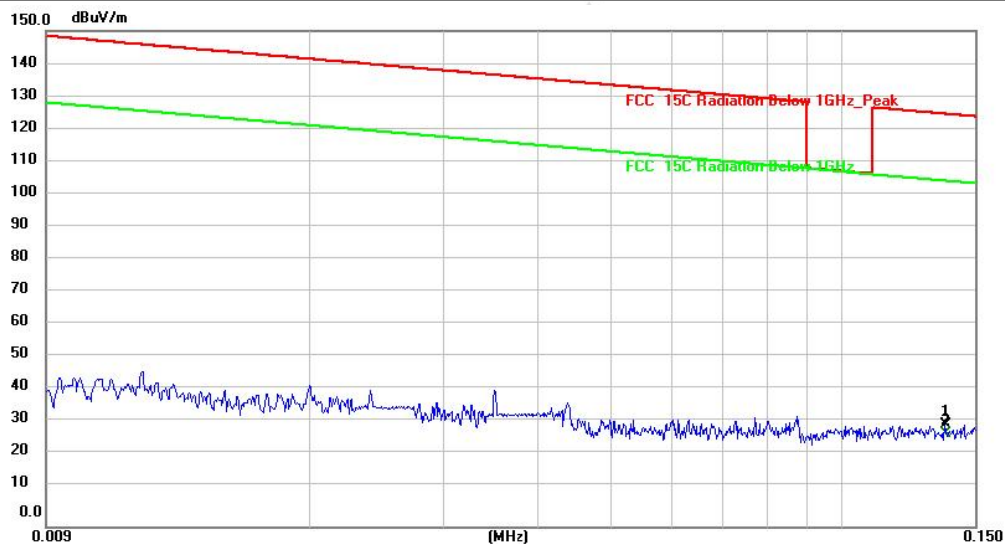
6.5.2 Test Data:

Calculation formula:

Measurement (dB μ V/m) = Reading Level (dB μ V) + Correct Factor (dB/m)

Over (dB) = Measurement (dB μ V/m) – Limit (dB μ V/m)

Mode1 / EUT direction: X axis



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	0.1367	12.15	18.91	31.06	124.91	-93.85	peak	
2 *	0.1367	9.45	18.91	28.36	104.91	-76.55	AVG	

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Mode1 / EUT direction: X axis



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.4564	36.07	20.03	56.10	114.42	-58.32	peak	
2		0.4564	33.17	20.03	53.20	94.42	-41.22	AVG	
3	*	0.9087	31.49	20.94	52.43	68.45	-16.02	QP	
4		1.3958	26.33	22.14	48.47	64.73	-16.26	QP	
5		1.8779	20.38	23.15	43.53	69.50	-25.97	QP	
6		2.3336	12.70	23.94	36.64	69.50	-32.86	QP	
7		4.6964	25.27	18.70	43.97	69.50	-25.53	QP	
8		13.6228	32.23	19.46	51.69	69.50	-17.81	QP	

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6.6 Emissions in frequency bands (30M-1GHz)

Test Requirement:	47 CFR 15.225(d)																										
Test Limit:	Refer to 47 CFR Part 15.225(d), The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in § 15.209. <table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> ** 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.			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
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																									
Test Method:	ANSI C63.10-2020+C63.10a-2024, Section 6.5																										
Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be																										

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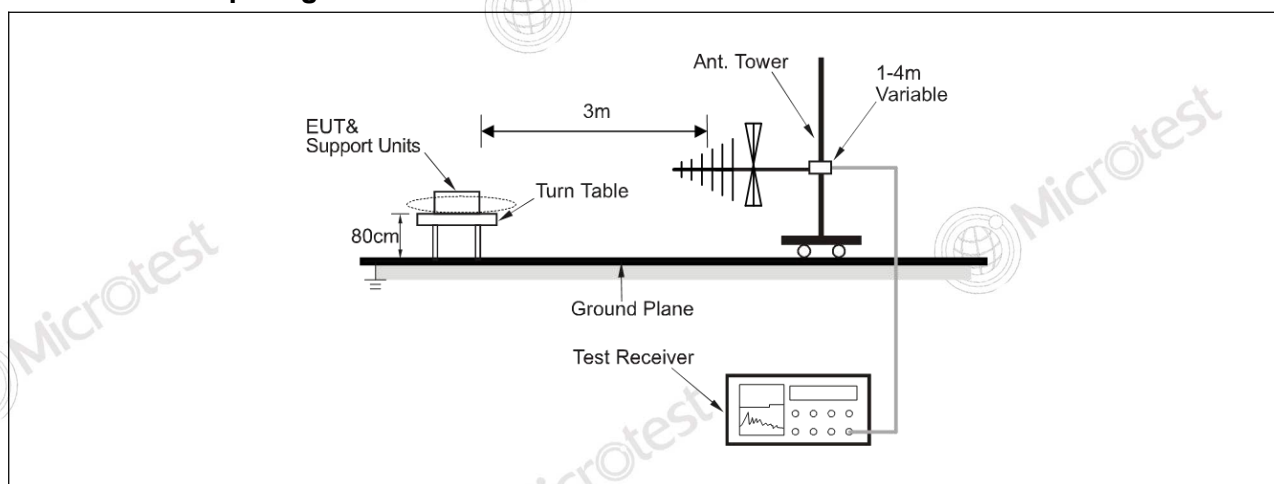
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	re-tested one by one using quasi-peak method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
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6.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25 °C	Humidity:	61 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.6.2 Test Setup Diagram:



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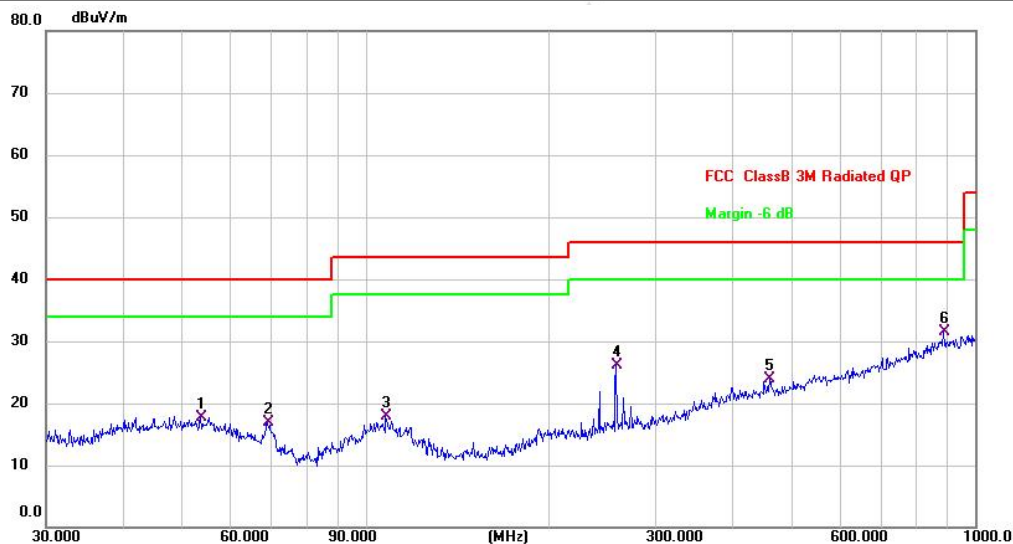
6.6.3 Test Data:

Calculation formula:

Measurement (dBμV/m) = Reading Level (dBμV) + Correct Factor (dB/m)

Over (dB) = Measurement (dBμV/m) – Limit (dBμV/m)

Mode1 / Polarization: Horizontal / CH: M



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	53.6932	25.98	-8.33	17.65	40.00	-22.35	QP	
2	69.1141	28.42	-11.56	16.86	40.00	-23.14	QP	
3	107.8877	26.36	-8.47	17.89	43.50	-25.61	QP	
4	258.3264	33.83	-7.82	26.01	46.00	-19.99	QP	
5	460.7271	26.61	-2.66	23.95	46.00	-22.05	QP	
6 *	887.6099	26.25	5.26	31.51	46.00	-14.49	QP	

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Mode1 / Polarization: Vertical / CH: M



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		49.7068	26.64	-8.57	18.07	40.00	-21.93	QP	
2		108.2667	25.36	-8.53	16.83	43.50	-26.67	QP	
3		257.4222	28.73	-7.81	20.92	46.00	-25.08	QP	
4		406.0880	25.62	-3.17	22.45	46.00	-23.55	QP	
5		582.7425	26.13	-1.04	25.09	46.00	-20.91	QP	
6	*	906.4824	24.52	5.43	29.95	46.00	-16.05	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 *****