

# TEST REPORT

Report No.: MTi250717025-0108E1

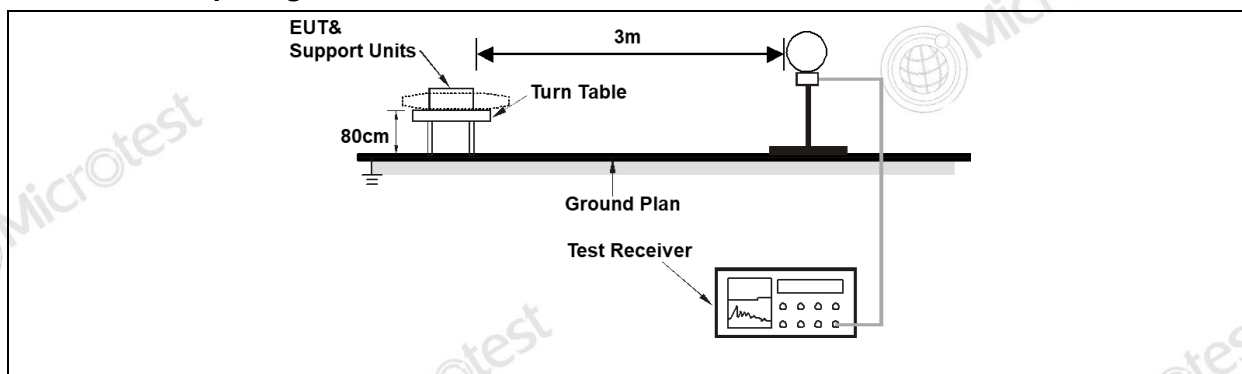
## 6.3 Emissions in frequency bands (below 30MHz)

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
<p>** 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.</p> <p>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.</p>			
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:	21 °C	Humidity:	53 %
		Atmospheric Pressure:	101 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 (Mode1) is recorded in the report		

### 6.3.2 Test Setup Diagram:

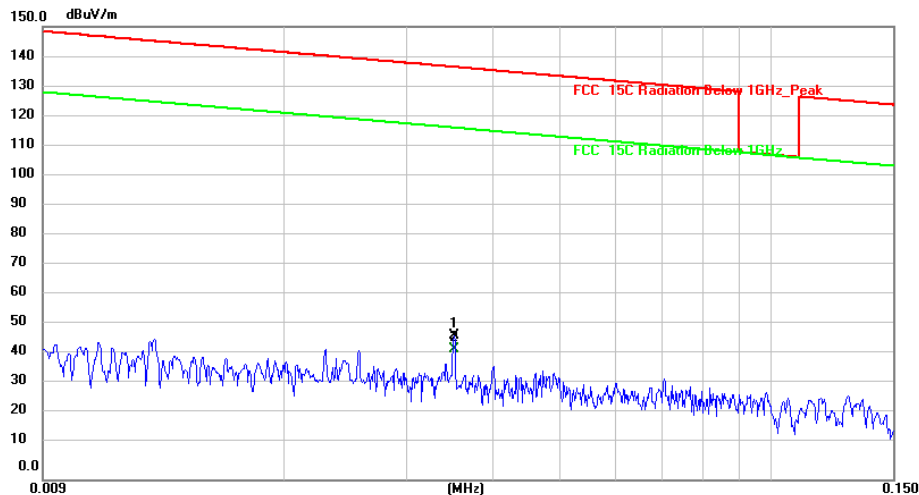


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## 6.3.3 Test Data:

Mode1 / EUT direction: X axis

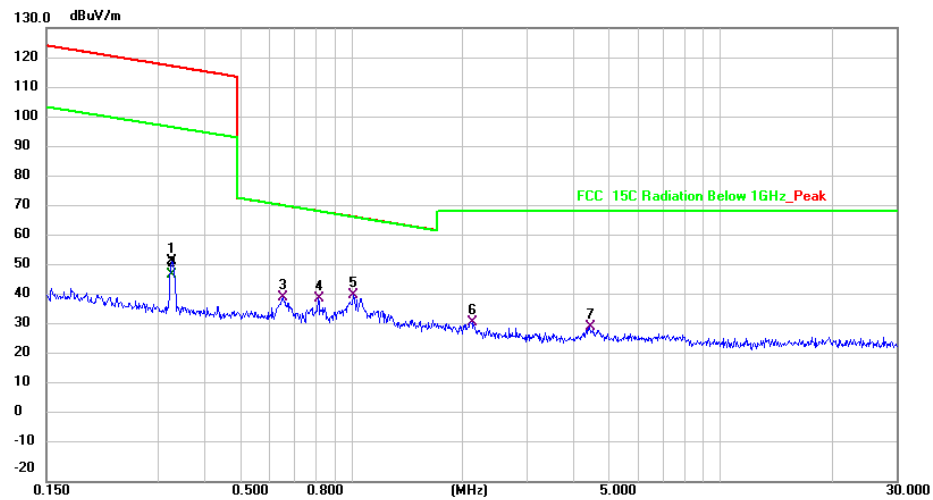


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	0.0350	26.77	20.95	47.72	136.62	-88.90	peak	
2 *	0.0350	22.25	20.95	43.20	116.62	-73.42	AVG	

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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	0.3268	31.81	21.01	52.82	117.32	-64.50	peak	
2	0.3268	27.29	21.01	48.30	97.32	-49.02	AVG	
3	0.6543	19.36	21.76	41.12	71.30	-30.18	QP	
4	0.8131	18.27	22.15	40.42	69.41	-28.99	QP	
5 *	1.0103	18.90	22.62	41.52	67.53	-26.01	QP	
6	2.1213	7.89	24.91	32.80	69.50	-36.70	QP	
7	4.4305	10.41	20.86	31.27	69.50	-38.23	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
<p>** 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.</p> <p>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.</p>			
Test Method:	ANSI C63.10-2013 section 6.5		
Procedure:	ANSI C63.10-2013 section 6.5		

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

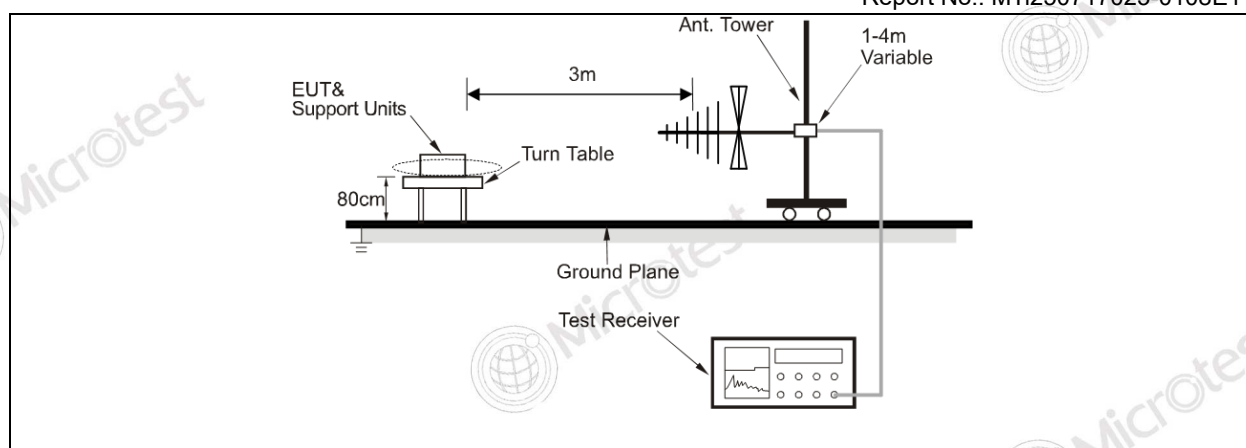
Operating Environment:			
Temperature:	21 °C	Humidity:	53 %
Pre test mode:		Mode1, Mode2	
Final test mode:		All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report	

### 6.4.2 Test Setup Diagram:

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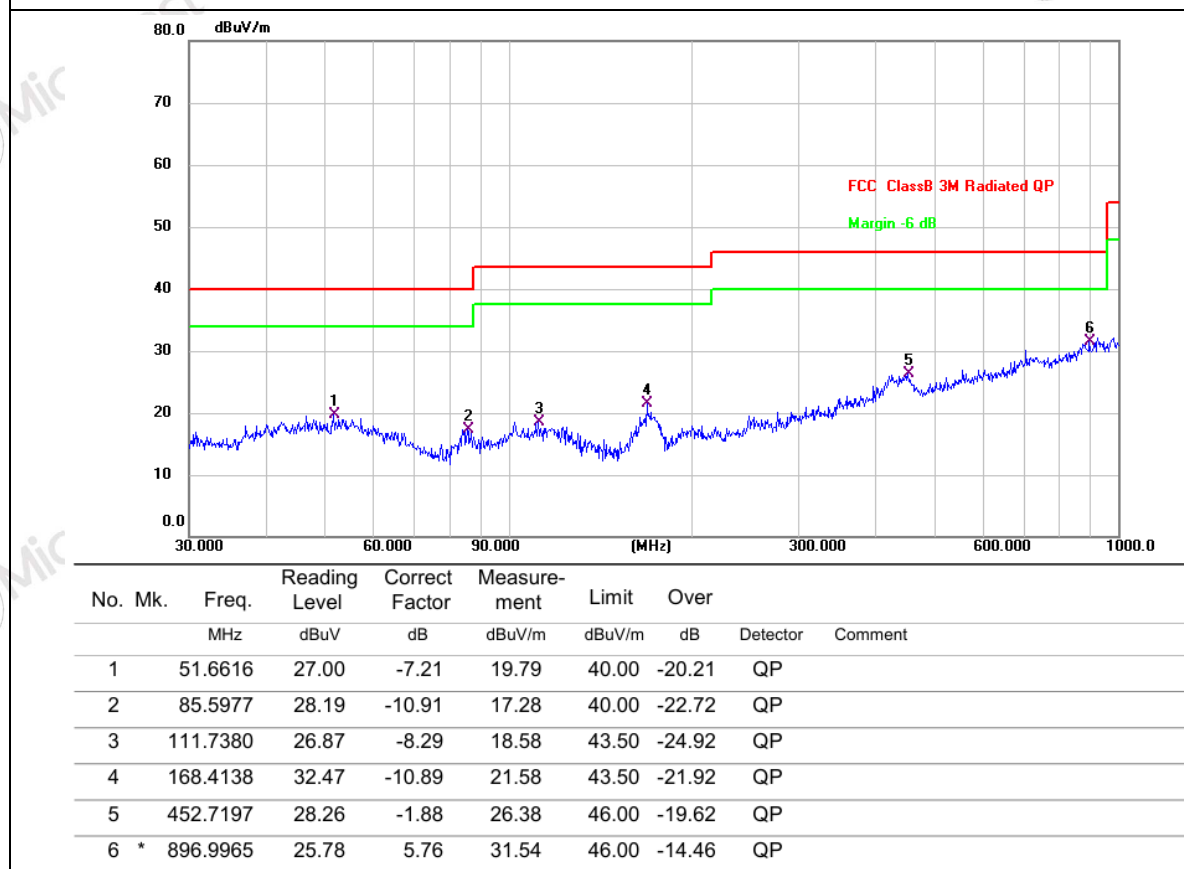


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## 6.4.3 Test Data:

Mode1 / Polarization: Horizontal

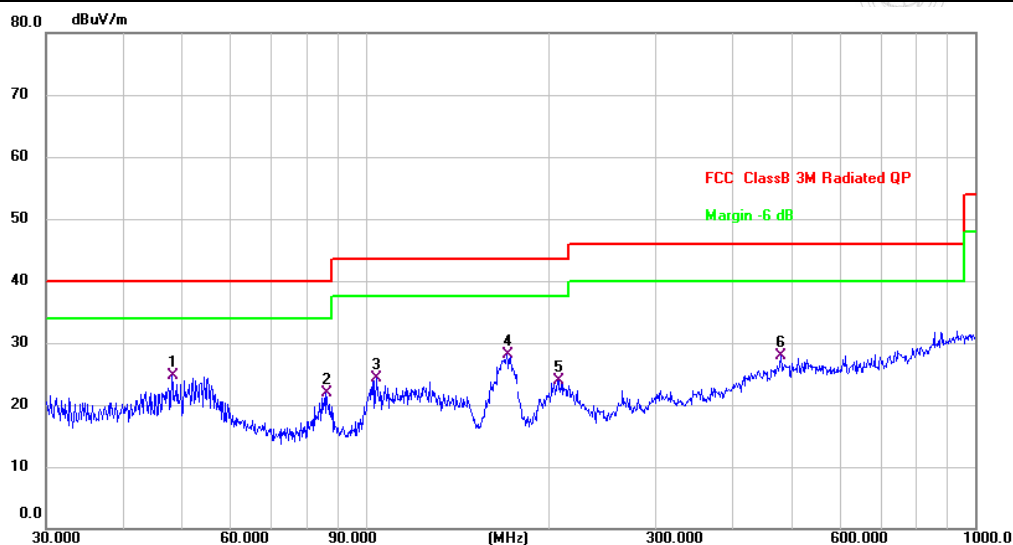




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Mode1 / Polarization: Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	48.1626	31.97	-7.36	24.61	40.00	-15.39	QP	
2		86.2001	32.66	-10.82	21.84	40.00	-18.16	QP	
3		104.1701	32.45	-8.18	24.27	43.50	-19.23	QP	
4		170.1948	39.07	-10.96	28.11	43.50	-15.39	QP	
5		207.1226	32.41	-8.41	24.00	43.50	-19.50	QP	
6		480.5276	29.86	-1.98	27.88	46.00	-18.12	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 \*\*\*\*\*