

FCC Test Report

Applicant : **Makeblock Co., Ltd.**

Address : **4th Floor, Building C3, Nanshan iPark, No.1001
Xueyuan Avenue, Nanshan District, Shenzhen,
Guangdong Province, China**

Product Name : **xTool Smart Control Transceiver**

Report Date : **Aug. 23, 2023**

Shenzhen Anbotek Compliance Laboratory Limited



Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,
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Report No.: 18220WC30151001

FCC ID: 2AH9Q-MXHP002A

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TEST REPORT

Applicant : Makeblock Co., Ltd.
Manufacturer : Makeblock Co., Ltd.
Product Name : xTool Smart Control Transceiver
Test Model No. : MXH-P002a-001
Reference Model No. : N/A
Trade Mark : N/A
Rating(s) : Input: 5V $\overline{=}$ 100mA

Test Standard(s) : 47 CFR Part 15.247 2022

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:

Jul. 21, 2023

Date of Test:

Jul. 21, 2023 to Aug. 07, 2023

Prepared By:

Ella Liang

(Ella Liang)

Approved & Authorized Signer:

Edward Pan

(Edward Pan)

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Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Aug. 23, 2023

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1. General Information

1.1. Client Information

Applicant	:	Makeblock Co., Ltd.
Address	:	4th Floor, Building C3, Nanshan iPark, No.1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong Province, China
Manufacturer	:	Makeblock Co., Ltd.
Address	:	4th Floor, Building C3, Nanshan iPark, No.1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong Province, China
Factory	:	Makeblock Co., Ltd.
Address	:	4th Floor, Building C3, Nanshan iPark, No.1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong Province, China

1.2. Description of Device (EUT)

Product Name	:	xTool Smart Control Transceiver
Test Model No.	:	MXH-P002a-001
Reference Model No.	:	N/A
Trade Mark	:	N/A
Test Power Supply	:	AC 120V/60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Operation Frequency	:	2420~2470MHz
Number of Channel	:	3
Modulation Type	:	GFSK
Antenna Type	:	Ceramic Antenna
Antenna Gain(Peak)	:	3dBi (Provided by customer)
Remark: (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter(RE)	Xiaomi	MDY-11-EX	SA62212LA04358J

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1.4. Description of Test Modes

Pretest Modes	Descriptions
TM1	Keep the EUT in continuously transmitting mode

1.5. Channel List

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
01	2420	/	/	/	/	/	/	/	/
02	2450	/	/	/	/	/	/	/	/
03	2470	/	/	/	/	/	/	/	/

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	



1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	/	P
Conducted Emission at AC power line	Mode1	P
Occupied Bandwidth	Mode1	P
Maximum Conducted Output Power	Mode1	P
Power Spectral Density	Mode1	P
Emissions in non-restricted frequency bands	Mode1	P
Band edge emissions (Radiated)	Mode1	P
Emissions in restricted frequency bands (below 1GHz)	Mode1	P
Emissions in restricted frequency bands (above 1GHz)	Mode1	P
Note: P: Pass N: N/A, not applicable		

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1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.:184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518128

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1.9. Test Equipment List**Emissions in restricted frequency bands (below 1GHz)**

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/

Conducted Emission at AC power line

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2022-10-23	2023-10-22
2	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2022-10-13	2023-10-12
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/

Occupied Bandwidth**Maximum Conducted Output Power****Power Spectral Density****Emissions in non-restricted frequency bands**

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	MXG RF Vector Signal Generator	Agilent	N5182A	MY481806 56	2022-10-13	2023-10-12
2	Power Meter	Agilent	N1914A	MY500011 02	2022-10-26	2023-10-25
3	DC Power Supply	IVYTECH	IV3605	1804D360 510	2022-10-22	2023-10-21
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5	Oscilloscope	Tektronix	MDO3012	C020298	2022-10-19	2023-10-18

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Band edge emissions (Radiated) Emissions in restricted frequency bands (above 1GHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	2022-10-13	2023-10-12
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/
5	Horn Antenna	A-INFO	LB-180400-KF	J211060628	2022-10-23	2023-10-22
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

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2. Antenna requirement

Test Requirement:	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.
EUT Antenna:	The antenna is a Ceramic Antenna which permanently attached, and the best case gain of the antenna is 3 dBi . It complies with the standard requirement.

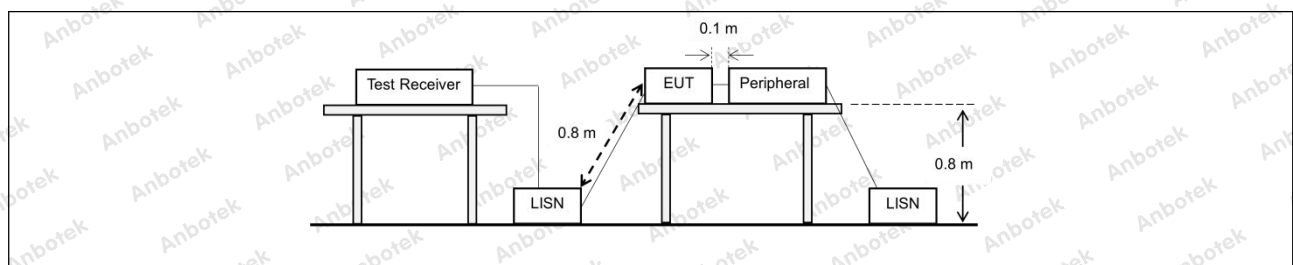
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), 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 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		

3.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: Keep the EUT in continuously transmitting mode

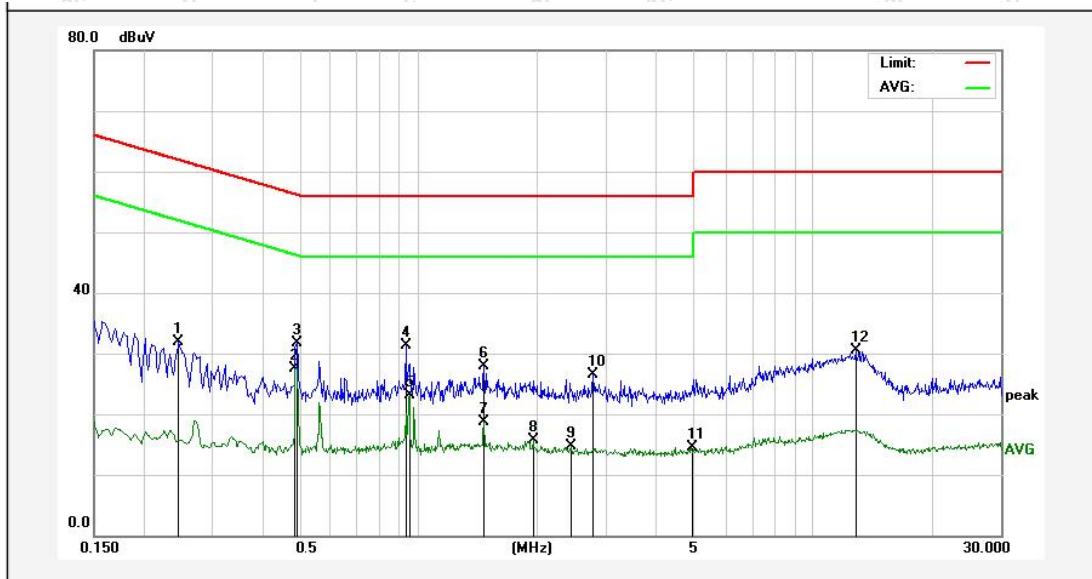
3.2. Test Setup



3.3. Test Data

Temperature:	22.4 °C	Humidity:	54 %	Atmospheric Pressure:	99 kPa
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TM1 / Line: Line / Band: 2.4G/ CH: H

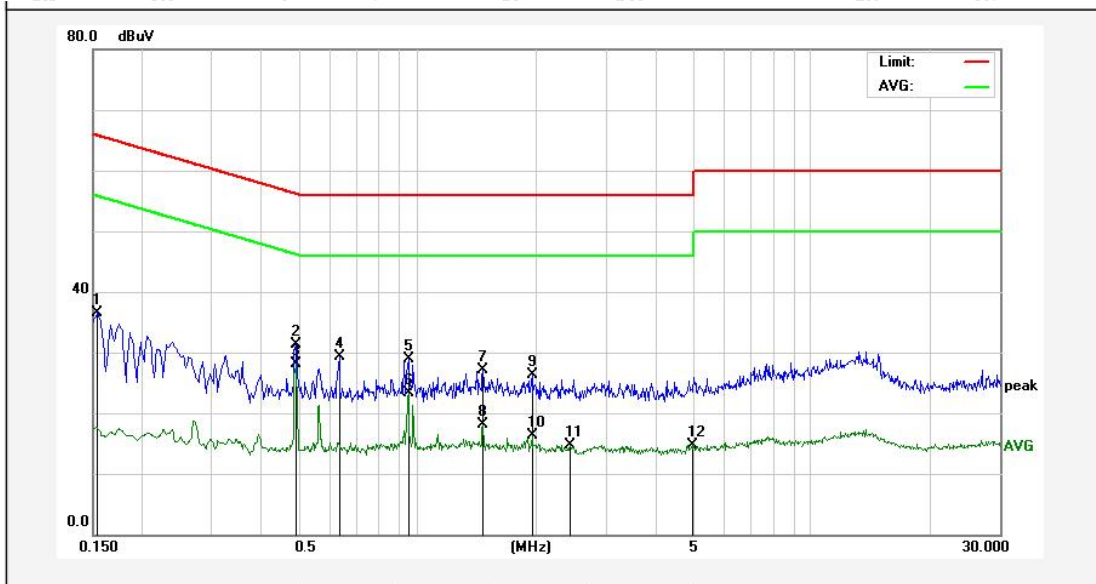


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2460	15.00	16.84	31.84	61.89	-30.05	QP	
2	0.4860	10.21	17.36	27.57	46.24	-18.67	AVG	
3	0.4900	14.35	17.38	31.73	56.17	-24.44	QP	
4	0.9300	13.71	17.54	31.25	56.00	-24.75	QP	
5	0.9500	5.60	17.55	23.15	46.00	-22.85	AVG	
6	1.4660	10.28	17.57	27.85	56.00	-28.15	QP	
7	1.4660	1.10	17.57	18.67	46.00	-27.33	AVG	
8	1.9540	-1.84	17.55	15.71	46.00	-30.29	AVG	
9	2.4420	-2.97	17.59	14.62	46.00	-31.38	AVG	
10	2.7740	8.80	17.61	26.41	56.00	-29.59	QP	
11	4.9220	-2.99	17.42	14.43	46.00	-31.57	AVG	
12	12.8540	12.86	17.69	30.55	60.00	-29.45	QP	



Temperature:	22.4 °C	Humidity:	54 %	Atmospheric Pressure:	99 kPa
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TM1 / Line: Neutral / Band: 2.4G/ CH: H



No.	Freq. (MHz)	Reading (dBUV)	Factor (dB)	Result (dBUV)	Limit (dBUV)	Over Limit (dB)	Detector	Remark
1	0.1539	19.93	16.67	36.60	65.78	-29.18	QP	
2	0.4900	13.83	17.38	31.21	56.17	-24.96	QP	
3	0.4900	10.75	17.38	28.13	46.17	-18.04	AVG	
4	0.6340	11.86	17.44	29.30	56.00	-26.70	QP	
5	0.9500	11.29	17.55	28.84	56.00	-27.16	QP	
6	0.9500	5.66	17.55	23.21	46.00	-22.79	AVG	
7	1.4660	9.53	17.57	27.10	56.00	-28.90	QP	
8	1.4660	0.60	17.57	18.17	46.00	-27.83	AVG	
9	1.9540	8.73	17.55	26.28	56.00	-29.72	QP	
10	1.9540	-1.27	17.55	16.28	46.00	-29.72	AVG	
11	2.4420	-2.84	17.59	14.75	46.00	-31.25	AVG	
12	4.9620	-2.61	17.41	14.80	46.00	-31.20	AVG	

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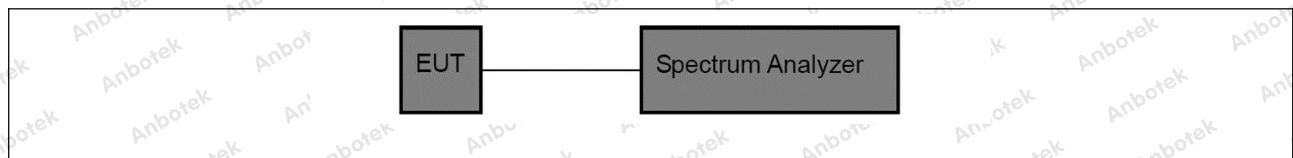
4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8
Procedure:	<p>11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing 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 “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.</p> <p>11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.</p>

4.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: Keep the EUT in continuously transmitting mode

4.2. Test Setup



4.3. Test Data

Temperature:	24.3 °C	Humidity:	53.7 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.



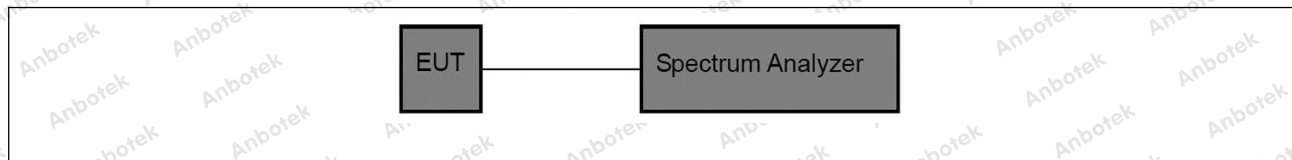
5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

5.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: Keep the EUT in continuously transmitting mode

5.2. Test Setup



5.3. Test Data

Temperature:	24.3 °C	Humidity:	53.7 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.



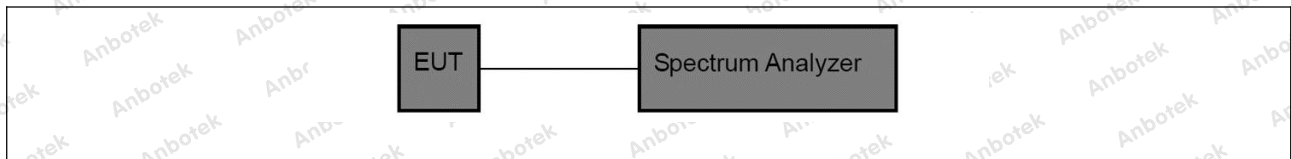
6. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

6.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: Keep the EUT in continuously transmitting mode

6.2. Test Setup



6.3. Test Data

Temperature:	24.3 °C	Humidity:	53.7 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.



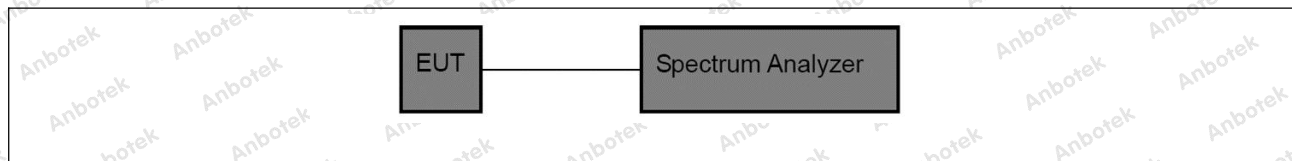
7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

7.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: Keep the EUT in continuously transmitting mode

7.2. Test Setup



7.3. Test Data

Temperature:	24.3 °C	Humidity:	53.7 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.



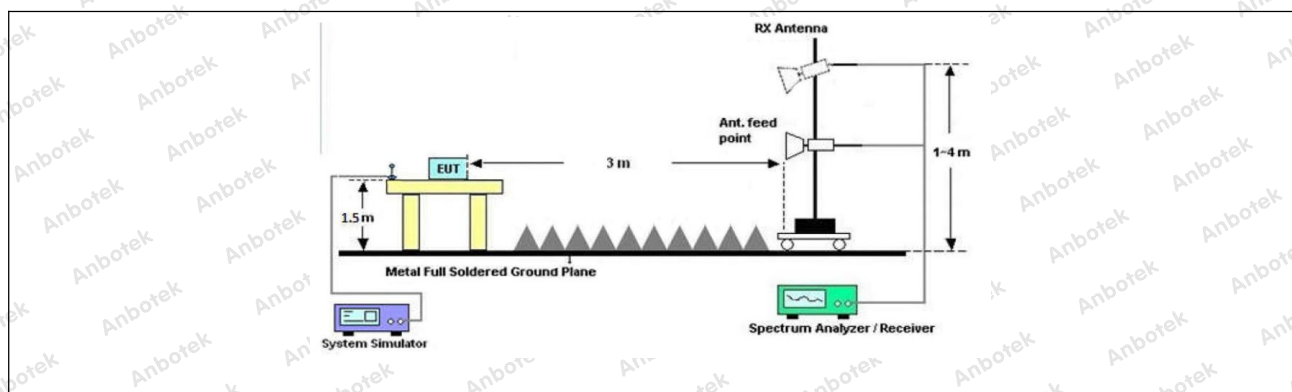
8. Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
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.			
Test Method:	ANSI C63.10-2020 section 6.10		
Procedure:	ANSI C63.10-2020 section 6.10.5.2		

8.1. EUT Operation

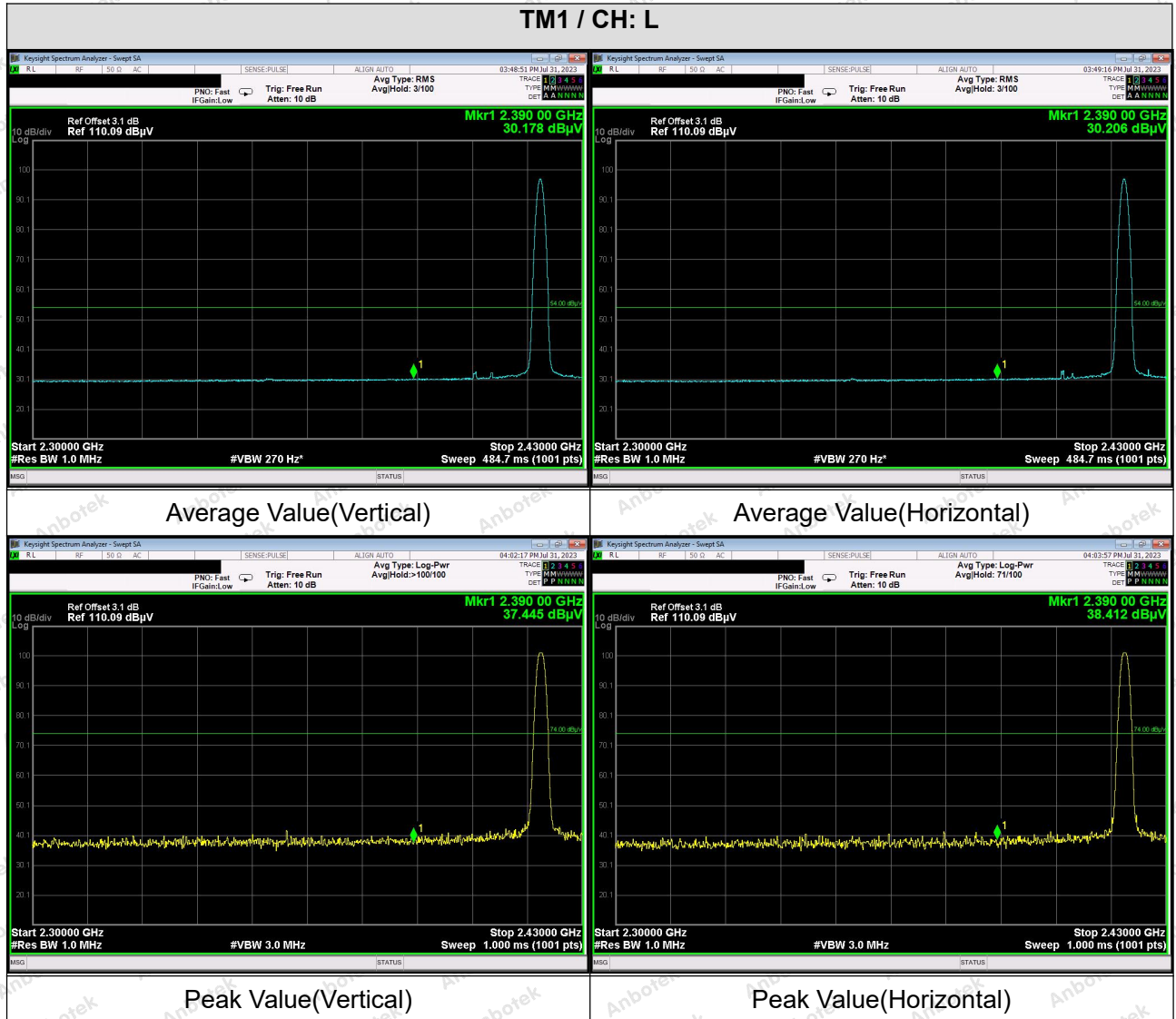
Operating Environment:	
Test mode:	1: TM1: Keep the EUT in continuously transmitting mode

8.2. Test Setup

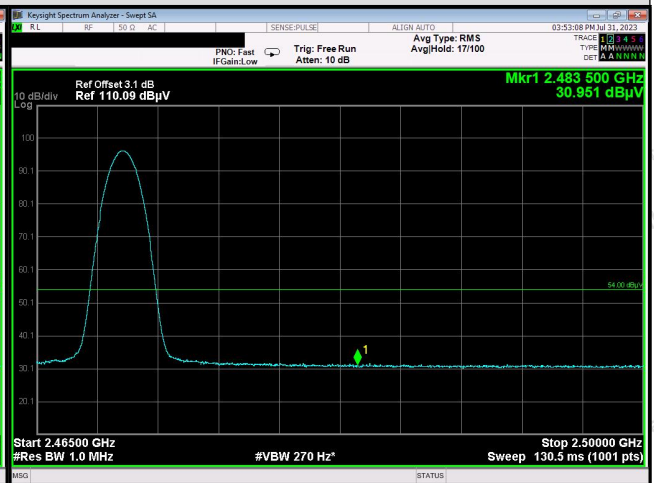
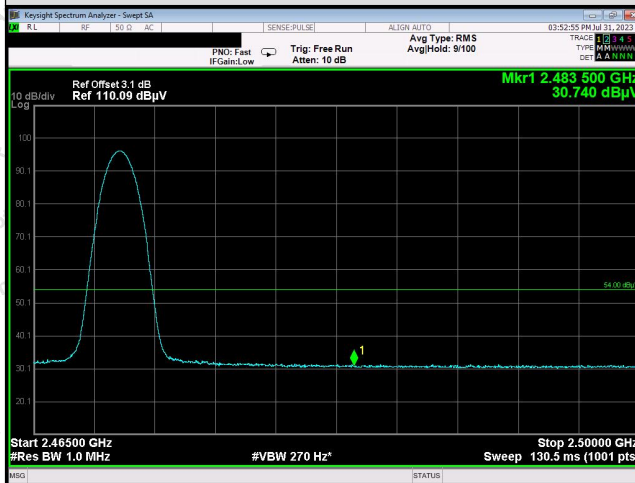


8.3. Test Data

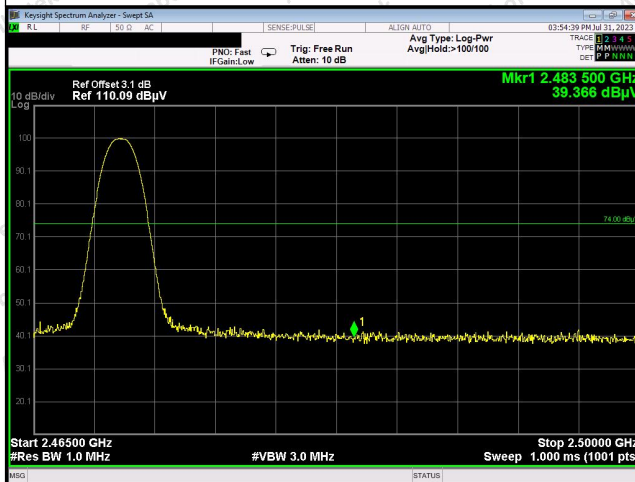
Temperature:	24.3 °C	Humidity:	53.7 %	Atmospheric Pressure:	101 kPa
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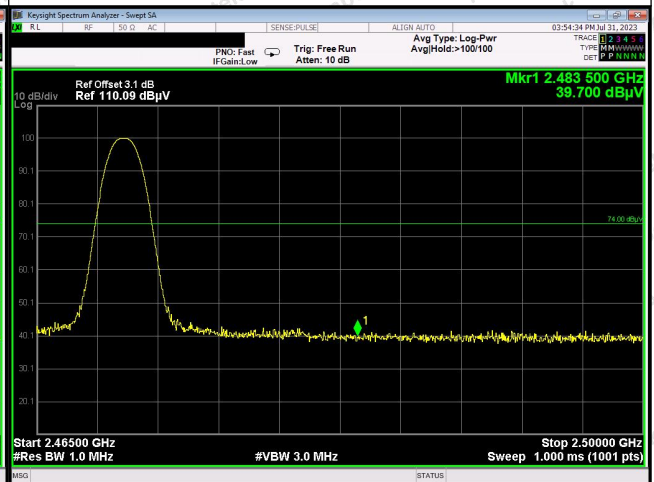
TM1 / CH: H



Average Value(Vertical)



Average Value(Horizontal)



Peak Value(Vertical)

Peak Value(Horizontal)



9. Emissions in restricted frequency bands (below 1GHz)

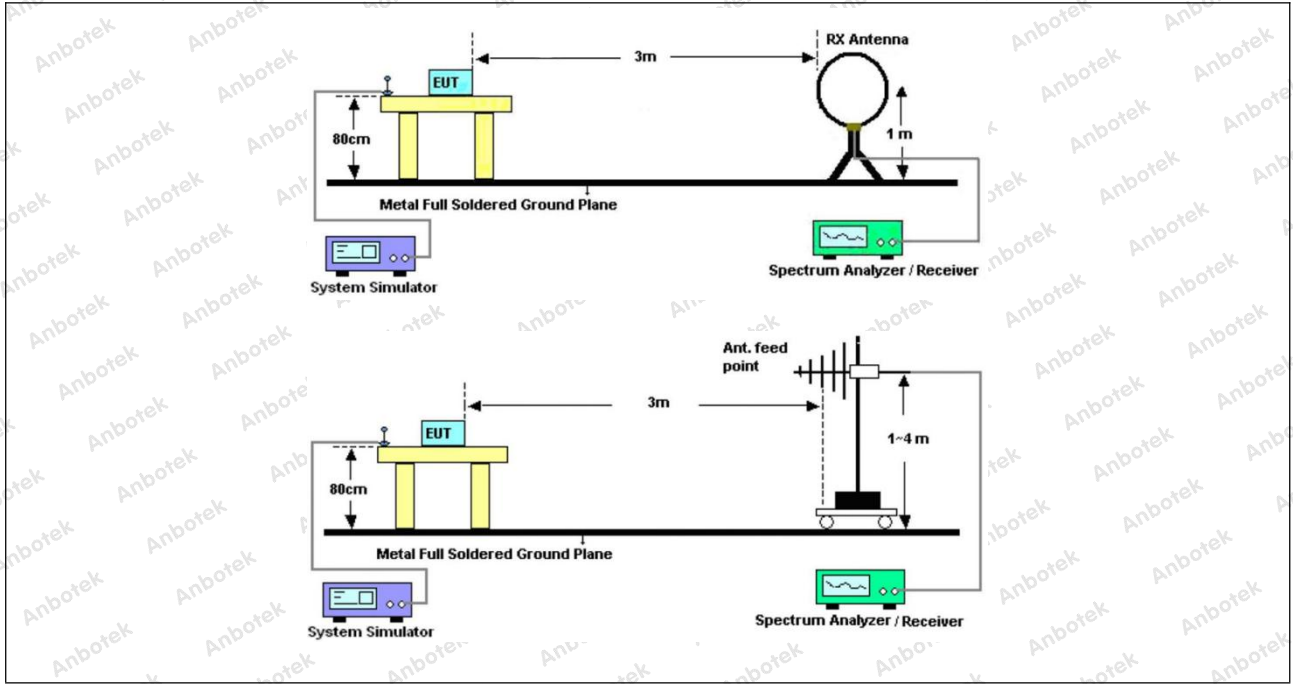
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement 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.		
Test Method:	ANSI C63.10-2020 section 6.6.4		
Procedure:	ANSI C63.10-2020 section 6.6.4		

9.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: Keep the EUT in continuously transmitting mode



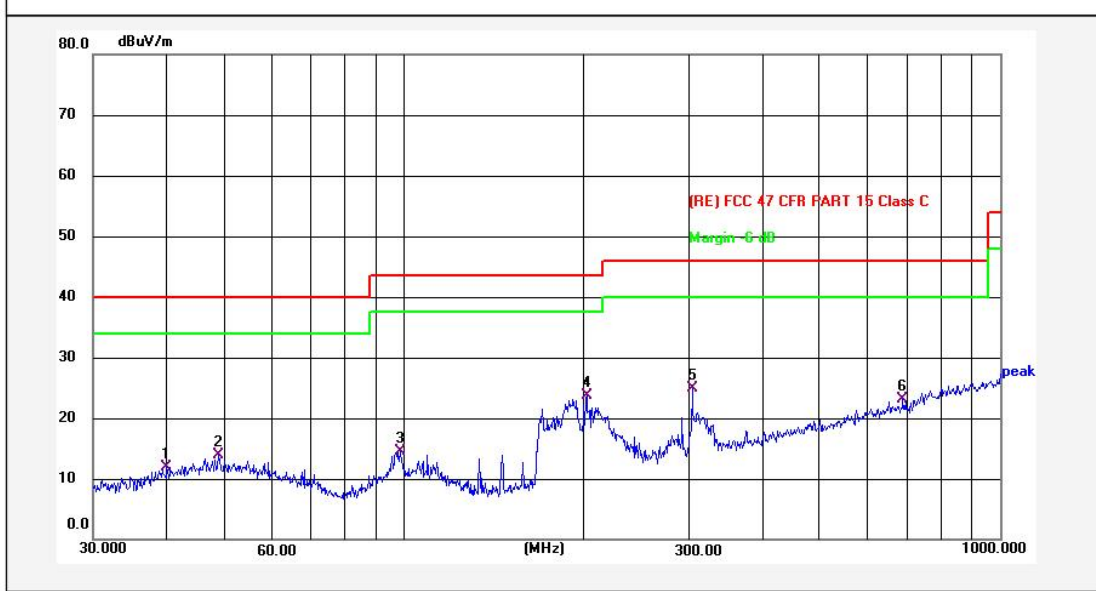
9.2. Test Setup



9.3. Test Data

Temperature:	24.3 °C	Humidity:	53.7 %	Atmospheric Pressure:	101 kPa
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TM1 / Polarization: Horizontal / Band: 2.4G/ CH: H

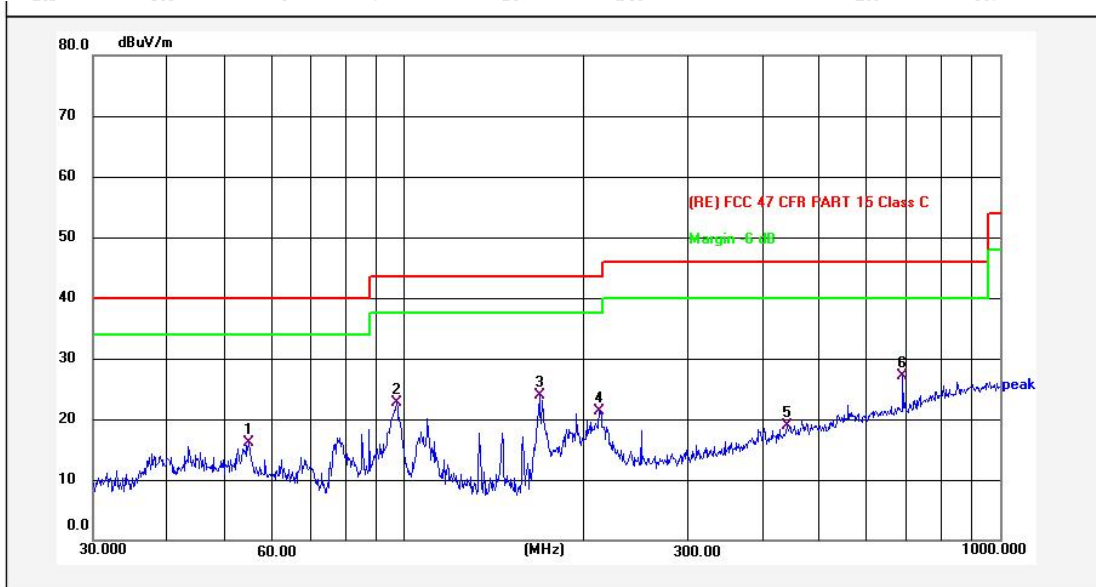


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.9242	34.52	-22.55	11.97	40.00	-28.03	QP			
2	48.8215	35.24	-21.43	13.81	40.00	-26.19	QP			
3	98.7892	36.75	-22.20	14.55	43.50	-28.95	QP			
4	202.5439	45.71	-21.94	23.77	43.50	-19.73	QP			
5	304.3430	44.96	-20.03	24.93	46.00	-21.07	QP			
6	687.7533	35.53	-12.38	23.15	46.00	-22.85	QP			



Temperature:	24.3 °C	Humidity:	53.7 %	Atmospheric Pressure:	101 kPa
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TM1 / Polarization: Vertical / Band: 2.4G/ CH: H



No.	Freq. (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	54.7868	38.00	-21.98	16.02	40.00	-23.98	QP			
2	97.2426	45.22	-22.49	22.73	43.50	-20.77	QP			
3	168.8573	48.10	-24.17	23.93	43.50	-19.57	QP			
4	212.6420	43.19	-21.83	21.36	43.50	-22.14	QP			
5	437.6951	35.53	-16.60	18.93	46.00	-27.07	QP			
6	687.7533	39.46	-12.38	27.08	46.00	-18.92	QP			

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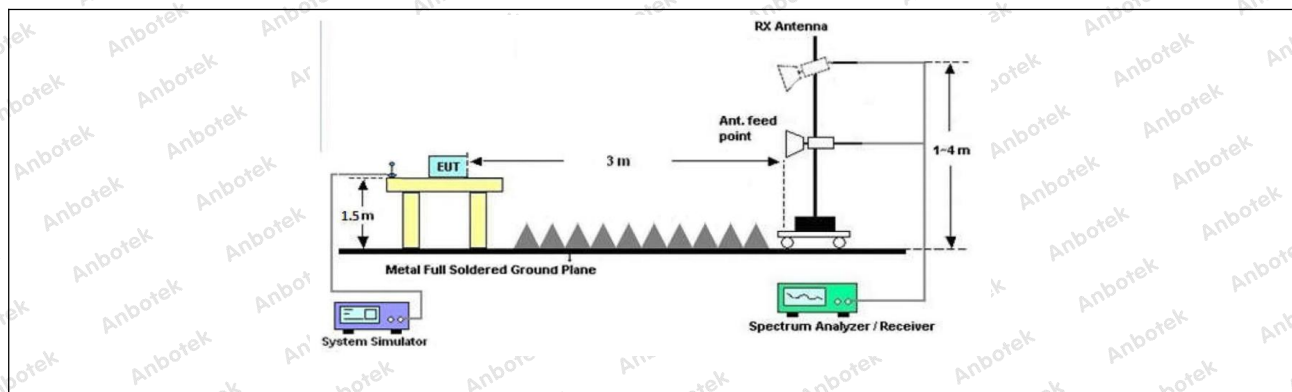
10. Emissions in restricted frequency bands (above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
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.		
Test Method:	ANSI C63.10-2020 section 6.6.4		
Procedure:	ANSI C63.10-2020 section 6.6.4		

10.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: Keep the EUT in continuously transmitting mode

10.2. Test Setup



10.3. Test Data

Temperature:	23.4 °C	Humidity:	49.1 %	Atmospheric Pressure:	102 kPa
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TM1 / CH: L						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4840.00	29.22	15.27	44.49	74.00	-29.51	Vertical
7260.00	31.00	18.09	49.09	74.00	-24.91	Vertical
9680.00	32.18	23.76	55.94	74.00	-18.06	Vertical
12100.00	*			74.00		Vertical
14520.00	*			74.00		Vertical
4840.00	29.72	15.27	44.99	74.00	-29.01	Horizontal
7260.00	31.44	18.09	49.53	74.00	-24.47	Horizontal
9680.00	30.06	23.76	53.82	74.00	-20.18	Horizontal
12100.00	*			74.00		Horizontal
14520.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4840.00	18.60	15.27	33.87	54.00	-20.13	Vertical
7260.00	20.03	18.09	38.12	54.00	-15.88	Vertical
9680.00	21.20	23.76	44.96	54.00	-9.04	Vertical
12100.00	*			54.00		Vertical
14520.00	*			54.00		Vertical
4840.00	18.07	15.27	33.34	54.00	-20.66	Horizontal
7260.00	20.50	18.09	38.59	54.00	-15.41	Horizontal
9680.00	19.37	23.76	43.13	54.00	-10.87	Horizontal
12100.00	*			54.00		Horizontal
14520.00	*			54.00		Horizontal

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TM1 / CH: M						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4900.00	29.24	15.42	44.66	74.00	-29.34	Vertical
7350.00	30.85	18.02	48.87	74.00	-25.13	Vertical
9800.00	31.19	23.80	54.99	74.00	-19.01	Vertical
12250.00	*			74.00		Vertical
14700.00	*			74.00		Vertical
4900.00	29.42	15.42	44.84	74.00	-29.16	Horizontal
7350.00	31.43	18.02	49.45	74.00	-24.55	Horizontal
9800.00	29.76	23.80	53.56	74.00	-20.44	Horizontal
12250.00	*			74.00		Horizontal
14700.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4900.00	18.33	15.42	33.75	54.00	-20.25	Vertical
7350.00	20.13	18.02	38.15	54.00	-15.85	Vertical
9800.00	21.06	23.80	44.86	54.00	-9.14	Vertical
12250.00	*			54.00		Vertical
14700.00	*			54.00		Vertical
4900.00	17.98	15.42	33.40	54.00	-20.60	Horizontal
7350.00	20.06	18.02	38.08	54.00	-15.92	Horizontal
9800.00	19.88	23.80	43.68	54.00	-10.32	Horizontal
12250.00	*			54.00		Horizontal
14700.00	*			54.00		Horizontal

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TM1 / CH: H						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4940.00	29.51	15.58	45.09	74.00	-28.91	Vertical
7410.00	30.86	17.93	48.79	74.00	-25.21	Vertical
9880.00	31.74	23.83	55.57	74.00	-18.43	Vertical
12350.00	*			74.00		Vertical
14820.00	*			74.00		Vertical
4940.00	29.49	15.58	45.07	74.00	-28.93	Horizontal
7410.00	31.46	17.93	49.39	74.00	-24.61	Horizontal
9880.00	30.44	23.83	54.27	74.00	-19.73	Horizontal
12350.00	*			74.00		Horizontal
14820.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4940.00	19.45	15.58	35.03	54.00	-18.97	Vertical
7410.00	21.14	17.93	39.07	54.00	-14.93	Vertical
9880.00	21.61	23.83	45.44	54.00	-8.56	Vertical
12350.00	*			54.00		Vertical
14820.00	*			54.00		Vertical
4940.00	19.42	15.58	35.00	54.00	-19.00	Horizontal
7410.00	21.43	17.93	39.36	54.00	-14.64	Horizontal
9880.00	19.78	23.83	43.61	54.00	-10.39	Horizontal
12350.00	*			54.00		Horizontal
14820.00	*			54.00		Horizontal

Remark:

1. Result = Reading + Factor
2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

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