



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-LTURR
Equipment Under Test	無線橋接器
Model Number	LTU-Rocket, LTU- Rocket
Test Report Serial Number	TR6234_06
Date of Test(s)	11 May and 1 – 4 June 2021
Report Issue Date	25 June 2021

Test Specification	Applicant	
47 CFR FCC Part 15, Subpart C RSS-247 Issue 2 LP0002 1 July, 2020 Section 4.10.1	Ubiquiti Inc 685 Third Avenue New York, NY 10019	香港商優比快科技有限公司台灣分公司 台北市信義區松仁路107號12樓



NVLAP LAB CODE 600241-0

Certification of Engineering Report

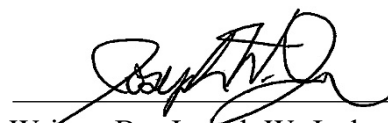
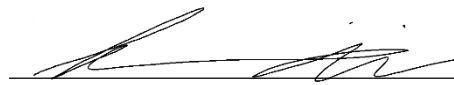
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Applicant	Ubiquiti Inc. / 香港商優比快科技有限公司台灣分公司
Manufacturer	Ubiquiti Inc.
Brand Name	UBIQUITI
Equipment Under Test	無線橋接器
Model Number	LTU-Rocket, LTU- Rocket
FCC ID	SWX-LTURR
IC ID	6545A-LTURR

On this 25th day of June 2021, I individually and for Unified Compliance Laboratory certify that the statements made in this engineering report are true, complete, and correct to the best of my knowledge and are made in good faith.

Although NVLAP has accredited the Unified Compliance Laboratory testing facilities, this report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. federal government.

Unified Compliance Laboratory


Written By: Joseph W. Jackson
Reviewed By: Alex Macon

Revision History		
Revision	Description	Date
01	Original Report Release	25 June 2021
02	Added information on similarity of named products in section 2.2	7 July 2021
03	Updated section 2.4 with correct cable length	12 July 2021
04	Amended model number in section 2.4, updated sections 5.1 and 5.4	18 August 2021
05	Updated section 5.5.2 new 30 – 1000 MHz test data and section 6 new set up photograph	29 November 2021
06	Add PoE Photographs in Section 6	25 February 2022
07	Updated antenna gain and information	16 March 2022

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1 Client Information

1.1 Applicant

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Mark Feil
Title	Compliance Manager

1.2 Manufacturer

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Mark Feil
Title	Compliance Manager

2 Equipment Under Test (EUT)

2.1 Identification of EUT

Brand Name	UBIQUITI
Model Number	LTU-Rocket
Antenna Brand	UBIQUITI
Antenna Model	LTU-Rocket
Equipment Under Test	無線橋接器
Serial Number	18E8291F087B
Dimensions (cm)	24.4 x 8.2 x 4.8

2.2 Description of EUT

The LTU-Rocket is a fixed point-to-multi-point transceivers, meant for outdoor use, operating in the 5GHz frequency bands. A Bluetooth LE transceiver is included for device management. An Ethernet port is used for data transfer and to provide power using a POE-24V-5X-HD POE supply. The LTU- Rocket and LTU-Rocket are identical products with different naming nomenclature.

This report covers the circuitry of the device subject to FCC Part 15, Subpart C, RSS-247 and LP0002. The circuitry of the device subject to FCC Part 15 Subpart B was found to be compliant and is covered under a separate Unified Compliance Laboratory test report.

2.3 EUT and Support Equipment

The EUT and support equipment used during the test are listed below.

Brand Name Model Number Serial Number	Description	Name of Interface Ports / Interface Cables
BN: LTU MN: LTU-Rocket (Note 1) SN: 18E8291F087B	Point-to-multi-point Transceiver	See Section 2.4
BN: Ubiquiti Inc. MN: POE-24V-5X-HD SN: N/A	PoE Power Supply	See Section 2.4
BN: Dell MN: XPS 13 SN: N/A	Laptop Personal Computer	Ethernet/Shielded or Unshielded Cat 5e Cable

Notes: (1) EUT

(2) Interface port connected to EUT (See Section 2.4)

The support equipment listed above was not modified in order to achieve compliance with this standard.

2.4 Interface Ports on EUT

Name of Ports	No. of Ports Fitted to EUT	Cable Description/Length
AC (PoE Injector)	1	3 conductor power cord/80 cm
PoE (PoE Injector)	1	Shielded Cat 5e cable/8 meters
Lan (PoE Injector)	1	Un-Shielded Cat 5e cable/1 meters

僅供測試用途之配件資訊 Accessories used only for supporting the tests			
名稱 Name	廠牌 Brand	型號 Model	備註 Remark
Shielded Cat 5e cable	Cable Matters	160012-BLU-8	8 meters
Shielded Cat 5e cable	Cable Matters	160012-BLU-8	1 meters
POE Power Adapter	Ubiquiti	POE-24V-5X-HD	N/A
Power cord	和可	CH-1902+CHI106	N/A

2.5 Operating Environment

Power Supply	120 Vac to 24 Volt PoE Power
AC Mains Frequency	60 Hz
Temperature	22.1 – 21.9 °C
Humidity	17.3 – 23.7 %
Barometric Pressure	1021 mBar

2.6 Operating Modes

The LTU-Rocket was connected to a personal computer laptop and tested using test software in order to enable to constant duty cycle of the Bluetooth transceiver. The measurements within this report are corrected to reference a 100% duty cycle.

2.7 EUT Exercise Software

EUT firmware version 1.0 was used to operate the transmitter using a constant transmit mode.

2.8 Block Diagram of Test Configuration

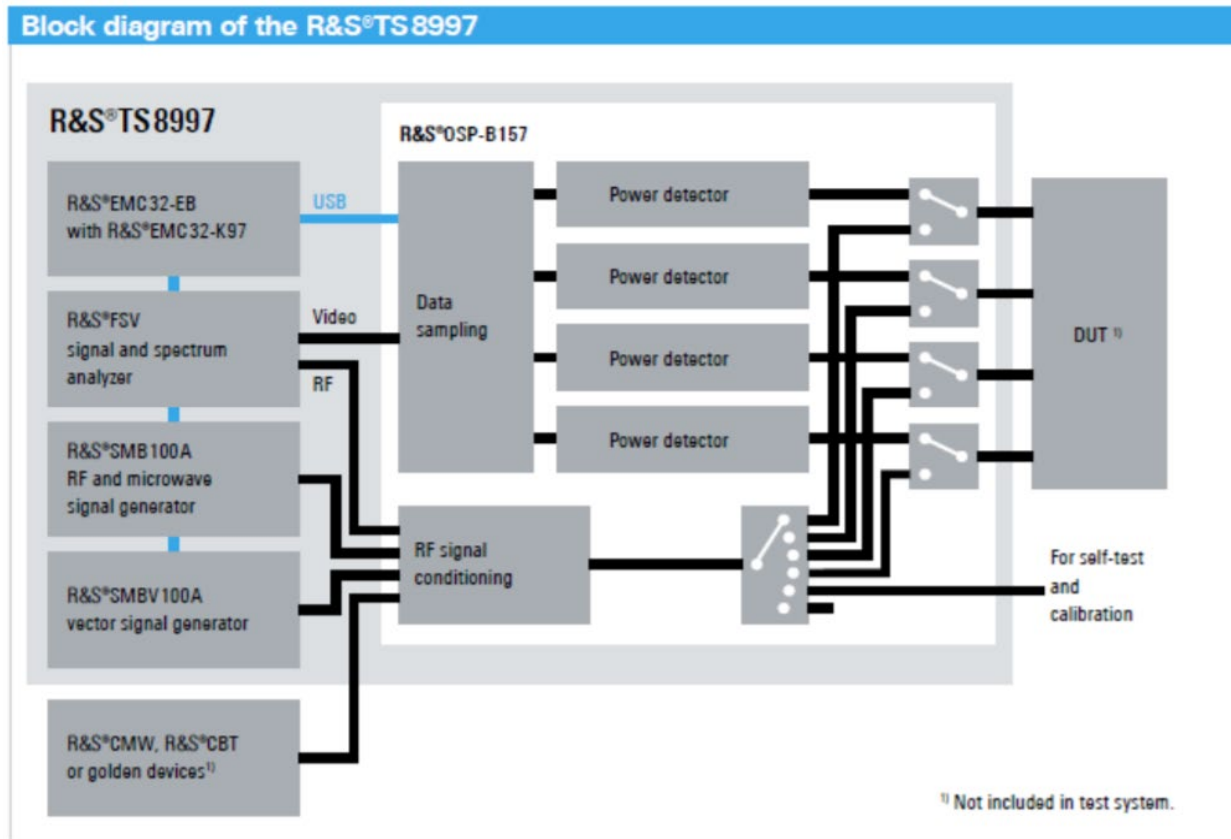


Diagram 1: Test Configuration Block Diagram

2.9 Modification Incorporated/Special Accessories on EUT

There were no modifications made to the EUT during testing to comply with the specification.

2.10 Deviation, Opinions Additional Information or Interpretations from Test Standard

There were no deviations, opinions, additional information or interpretations from the test specification.

3 Test Specification, Method and Procedures

3.1 Test Specification

Title	47 CFR FCC Part 15, Subpart C 15.203, 15.207 and 15.247 Limits and methods of measurement of radio interference characteristics of radio frequency devices. RSS-247 Issue 2 LP0002 July 1, 2020 Section 4.10.1
Purpose of Test	The tests were performed to demonstrate initial compliance

3.2 Summary of Tests

FCC Section	NCC Section	ISED Section	Environmental Phenomena	Frequency Range (MHZ)	Result
15.203	4.10.1.3	N/A	Antenna requirements	N/A	Compliant
15.207	3.3	RSS-Gen	Conducted Disturbance at Mains Port	0.15 to 30	Compliant
15.247(a)	4.10.1.6	RSS-247 §5.2	Bandwidth Requirement	2400 to 2483.5	Compliant
15.247(b)	4.10.1.2	RSS-247 §5.4	Peak Output Power	2400 to 2483.5	Compliant
15.247(d)	4.10.1.5	RSS-247 §5.5	Antenna Conducted Spurious Emissions	0.009 to 25000	Compliant
15.247(d)	4.10.2.5 – 2.8	RSS-247 §5.5	Radiated Spurious Emissions	0.009 to 25000	Compliant
15.247(e)	4.10.1.6(2)	RSS-247 §5.2	Peak Power Spectral Density	2400 to 2483.5	Compliant
The testing was performed according to the procedures in ANSI C63.10-2013, KDB 558074, KDB 789033, KDB 662911 and 47 CFR Part 15. See test standard for details.					

3.3 Results

In the configuration tested, the EUT complied with the requirements of the specification.

3.4 Test Location

Testing was performed at the Unified Compliance Laboratory 3-Meter and 10-Meter chambers located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2021. This site has also been registered with Innovations, Science and Economic Development (ISED) department and was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until June 30, 2021. Unified Compliance Laboratory has been assigned Conformity Assessment Number US0223 by ISED.

4 Test Equipment

4.1 Conducted Emissions at Mains Ports

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	AFJ	FFT3010	UCL-2500	9/18/2020	9/17/2021
LISN	AFJ	LS16C/10	UCL-2512	5/26/2020	5/26/2022
Cat6 ISN	Teseq	ISN T8-Cat6	UCL-2971	5/18/2020	5/18/2022
ISN	Teseq	ISN T800	UCL-2974	6/1/2020	6/1/2021
LISN	Com-Power	LIN-120C	UCL-2612	5/19/2021	5/19/2022
AC Power Source	Laplace Instruments	AC1000A	UCL-2857	N/A	N/A
Test Software	UCL	Revision 1	UCL-3107	N/A	N/A

Table 1: List of equipment used for Conducted Emissions Testing at Mains Port

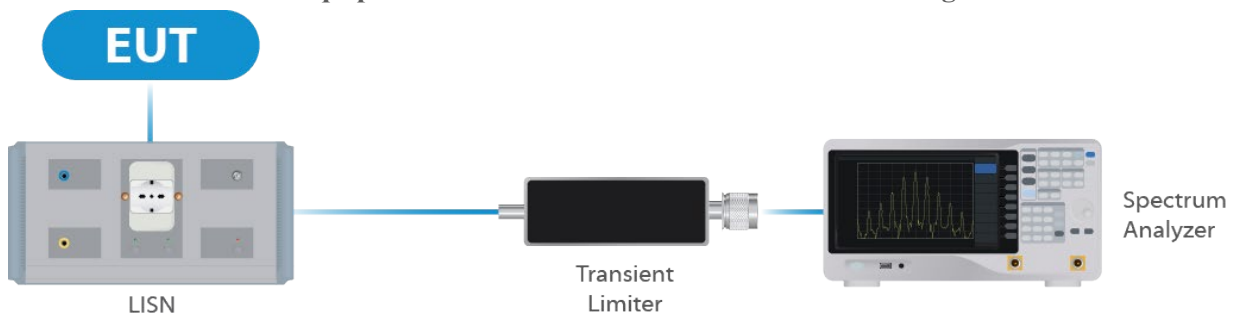


Figure 1: Conducted Emissions Test

4.2 Direct Connect at the Antenna Port Tests

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Spectrum Analyzer	R&S	FSV40	UCL-2861	8/24/2020	8/24/2021
Signal Generator	R&S	SMB100A	UCL-2864	N/A	N/A
Vector Signal Generator	R&S	SMBV100A	UCL-2873	N/A	N/A
Switch Extension	R&S	OSP-B157WX	UCL-2867	9/8/2020	9/8/2021
Switch Extension	R&S	OSP-150W	UCL-2870	3/3/2021	3/3/2022

Table 2: List of equipment used for Direct Connect at the Antenna Port

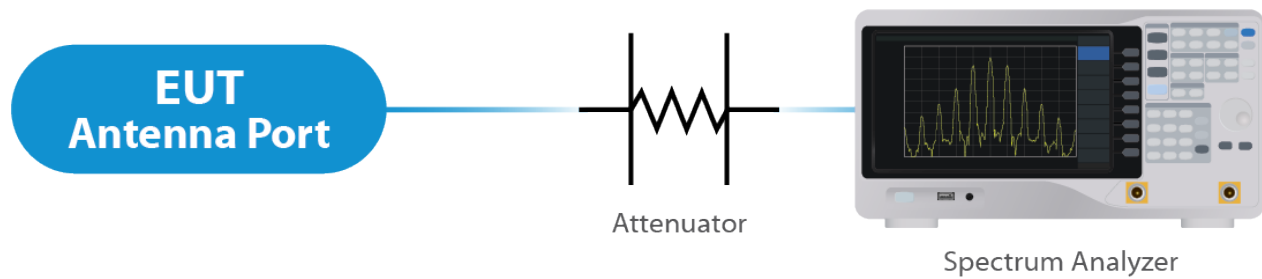


Figure 2: Direct Connect at the Antenna Port Test

4.3 Radiated Emissions

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	Keysight	N9038A	UCL-2778	6/1/2020	8/1/2021
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	9/10/2020	9/10/2021
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	7/8/2020	7/8/2021
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	11/16/2020	11/16/2021
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	5/21/2020	5/21/2022
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	9/29/2020	9/29/2021
Test Software	UCL	Revision 1	UCL-3108	N/A	N/A

Table 3: List of equipment used for Radiated Emissions

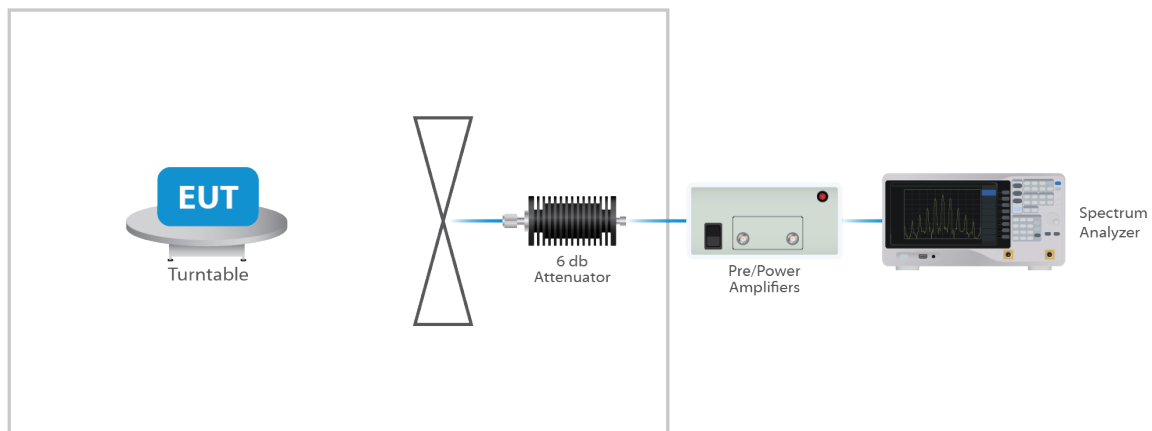


Figure 3: Radiated Emissions Test

4.4 Equipment Calibration

All applicable equipment is calibrated using either an independent calibration laboratory or Unified Compliance Laboratory personnel at intervals defined in ANSI C63.4:2014 following outlined calibration procedures. All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request.

4.5 Measurement Uncertainty

Test	Uncertainty ($\pm$ dB)	Confidence (%)
Conducted Emissions	1.44	95
Radiated Emissions (9 kHz to 30 MHz)	2.50	95
Radiated Emissions (30 MHz to 1 GHz)	4.38	95
Radiated Emissions (1 GHz to 18 GHz)	4.37	95
Radiated Emissions (18 GHz to 40 GHz)	3.93	95
Direct Connect Tests	K Factor	Value
Emissions Bandwidth	2	2.0%
Output Power	2	1.0 dB
Peak Power Spectral Density	2	1.3 dB
Band Edge	2	0.8 dB
Transmitter Spurious Emissions	2	1.8 dB

5 Test Results

5.1 §15.203 Antenna Requirements

The EUT uses an integral antenna and is manufactured by Ubiquiti Inc. The Maximum gain of the antenna is 1.5 dBi. The antenna is not user replaceable.

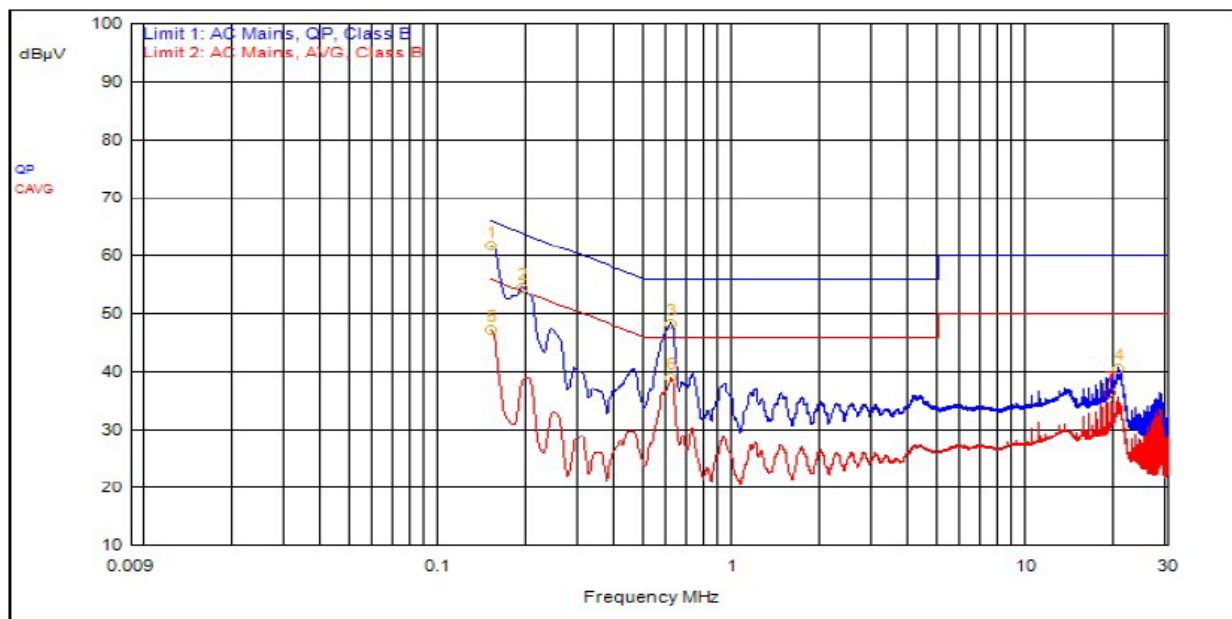
Results

The EUT complied with the specification

5.2 Conducted Emissions at Mains Ports Data

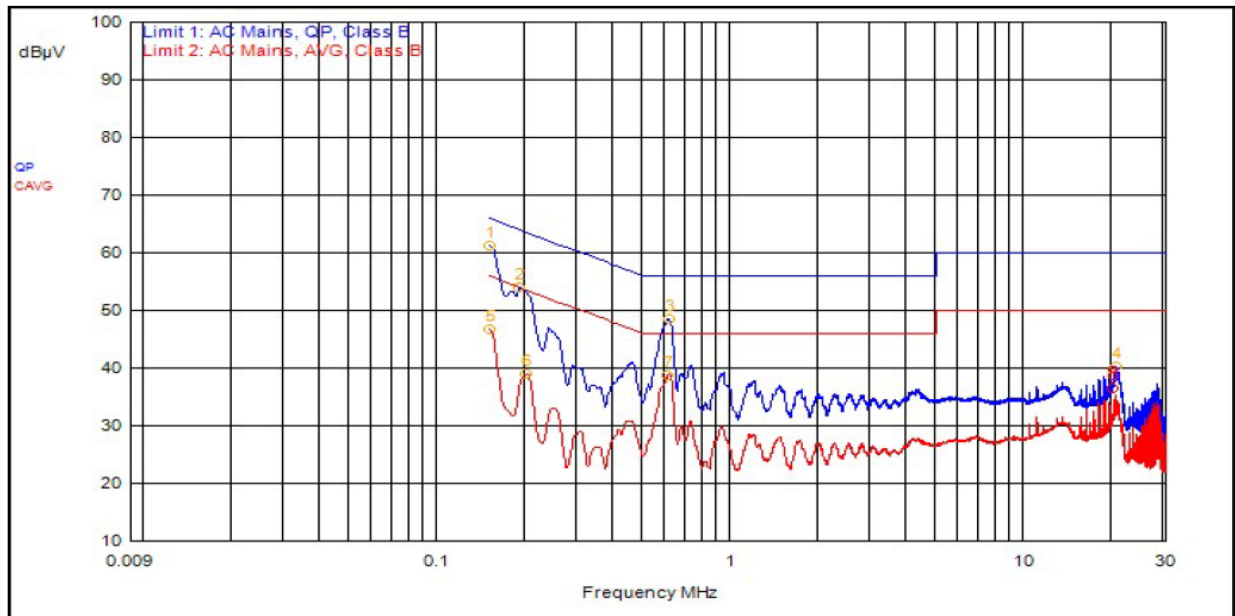
Result

The EUT complied with the specification limit.



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit	Limit Dist.
1	150.000kHz	12.2	0.0		QPeak	49.5	61.8	66.0	-4.2
6	612.000kHz	12.3	0.0		C_AVG	26.7	38.9	46.0	-7.1
3	609.000kHz	12.3	0.0		QPeak	35.9	48.2	56.0	-7.8
5	150.000kHz	12.2	0.0		C_AVG	35.0	47.2	56.0	-8.8
2	192.000kHz	12.2	0.0		QPeak	42.4	54.6	63.9	-9.3
4	20.136MHz	12.0	0.2		QPeak	28.4	40.6	60.0	-19.4
7	19.020MHz	12.1	0.2		QPeak	24.1	36.3	60.0	-23.7

Graph 1: Conducted Emissions Plot - Neutral



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit	Limit Dist.
1	150.000kHz	12.2	0.0		QPeak	48.9	61.2	66.0	-4.8
7	606.000kHz	12.3	0.0		C_AVG	26.4	38.7	46.0	-7.3
3	612.000kHz	12.3	0.0		QPeak	36.3	48.6	56.0	-7.4
5	150.000kHz	12.2	0.0		C_AVG	34.5	46.7	56.0	-9.3
2	189.000kHz	12.2	0.0		QPeak	41.7	54.0	64.1	-10.1
6	198.000kHz	12.2	0.0		C_AVG	26.6	38.9	53.7	-14.8
4	20.139MHz	12.0	0.2		QPeak	28.0	40.2	60.0	-19.8
8	19.737MHz	12.0	0.2		QPeak	24.2	36.4	60.0	-23.6

Graph 2: Conducted Emissions Plot – Line 1

5.3 Emissions Bandwidth

Digital modulation techniques system:

(A) For digitally modulated systems, the minimum 6dB bandwidth shall be at least 500 kHz.

Frequency (MHz)	Emissions 6 dB Bandwidth (MHz)	Emissions 99% Bandwidth (MHz)
2402	0.67	1.01
2442	0.67	1.00
2480	0.63	0.99

Result

In the configuration tested, the 6 dB bandwidth was greater than 500 kHz; therefore, the EUT complied with the requirements of the specification (see spectrum analyzer plot within the Annex).

5.4 Maximum Average Output Power

The maximum average RF conducted output power measured for this device was -4.0 dBm or 0.4 mW. The antenna gain is 0 dBi

Maximum Conducted Output Power Limit:

Point-to-multipoint systems (P2M): if $G_{tx} > 6$ dBi, then $P_{out} = 30 - (G_{tx} - 6)$ dBm

e.i.r.p Power Limit:

Point-to-multipoint systems (P2M): $P_{eirp} < 36$ dBm (4 W)

Frequency (MHz)	TP Settings	Measured Output Power (dBm)	Output Power (mW)
2402	8	- 6.7	0.21
2442	8	- 6.0	0.25
2480	8	- 4.0	0.40

Result

In the configuration tested, the maximum average RF output power was less than 1 watt; therefore, the EUT complied with the requirements of the specification (see spectrum analyzer plot within the Annex).

5.5 Spurious Emissions

5.5.1 Conducted Spurious Emissions

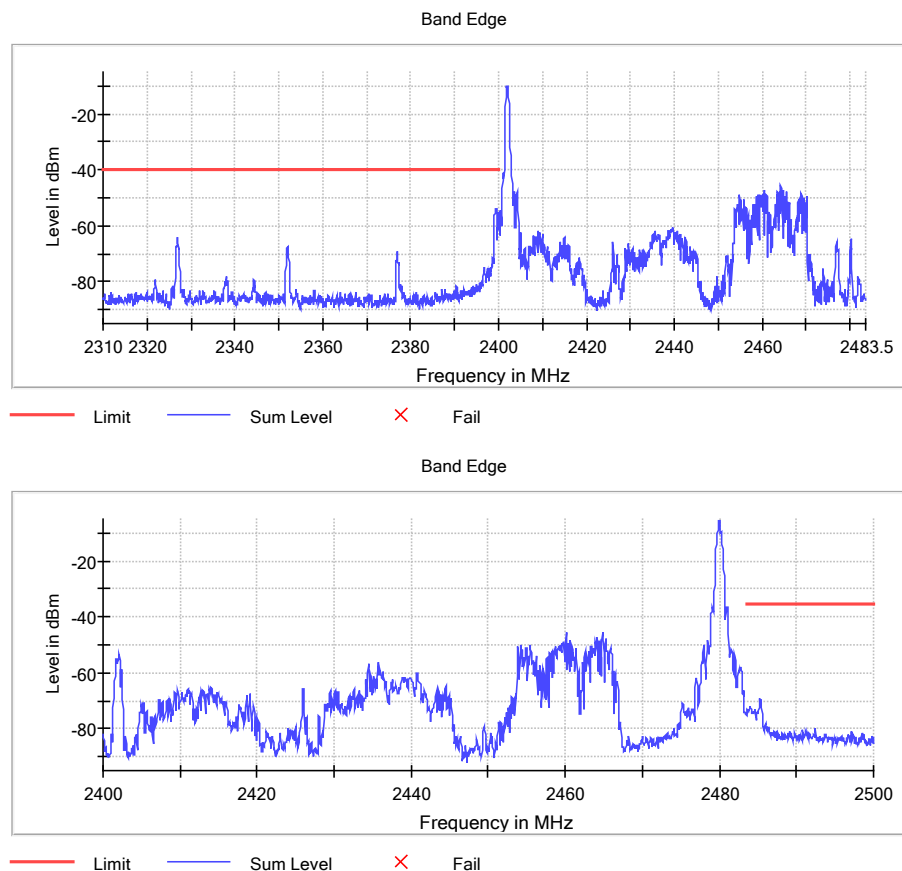
Limits on emissions outside the frequency band:

In any 100kHz 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 below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, the attenuation shall be as below:

- (1) The attenuation shall be at least 20dB when the conducted power is measured according to Appendix II of this section, based on either an RF conducted or a radiated measurement.
- (2) The attenuation shall be at least 30dB when the conducted power is measured according to the paragraph (1) (C) of this section 4.10.1.2.

In addition, radiated emissions that fall under Section 3.5 the restricted bands must also comply with the radiated emission limit specified in Section 3.6.

The plots below are of the worst case.



Result

Conducted spurious emissions were attenuated 30 dB or more below the fundamental; therefore, the EUT complies with the specification.

5.5.2 Radiated Spurious Emissions in the Restricted Bands of §15.205

Additional regulations shall apply except for this standard, the emissions from the low-power radio-frequency devices shall be less than or equal the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges. The plots below are prescan data, the tabular data is final data. When different test distances are used, a correction of $10\log(d1/d2)$ was utilized.

$$\text{dBuV} = 20 \log(\mu\text{V})$$

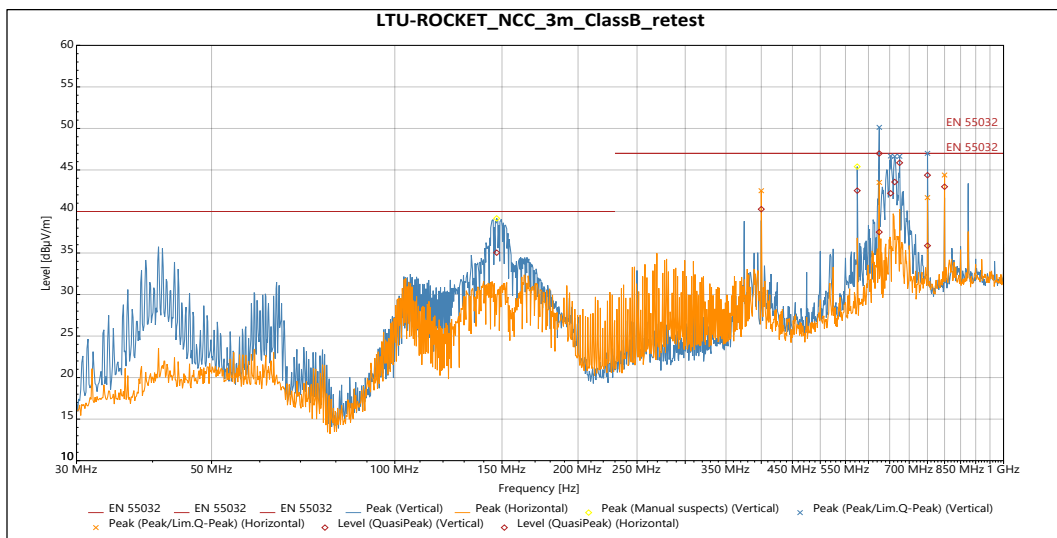
$$150\mu\text{V} = 43.5 \text{ dBuV}$$

$$\text{Ex } 20\log(3/10) = -10.45$$

Frequency (MHz)	Field strength (micro-volts/meter)	Measurement distance (meters)
0.009 – 0.490 (included)	2,400/Freq.(kHz)	300
0.490 (excluded) – 1.705 (included)	24,000/Freq. (kHz)	30
1.705 (excluded) – 30 (excluded)	30	30
30 (included) – 88 (included)	100	3
88 (excluded) – 216 (included)	150	3
216 (excluded) – 960 (included)	200	3
Above 960 (excluded)	500	3

Result

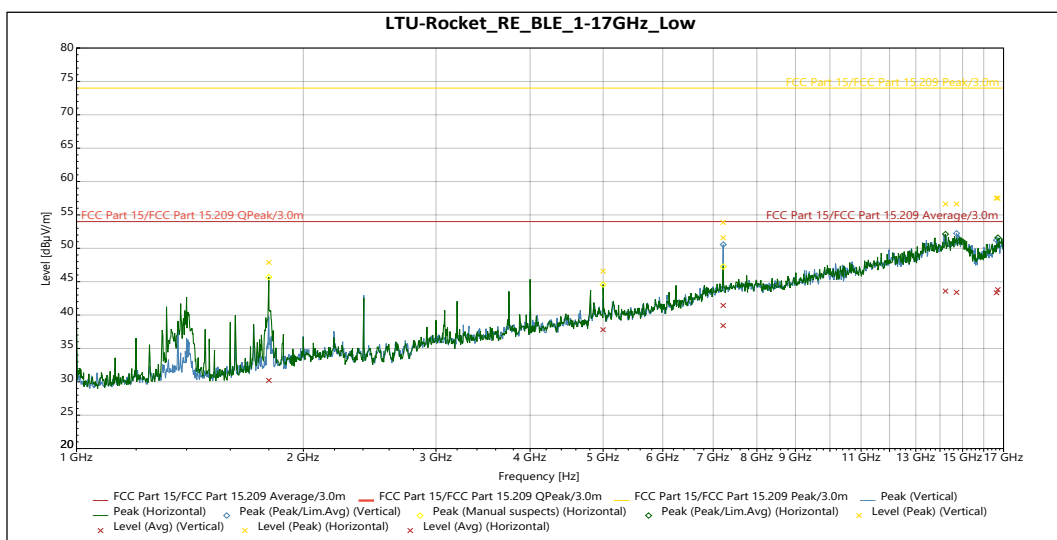
All emissions in the restricted bands of §15.205 met the limits specified in §15.209; therefore, the EUT complies with the specification.



QuasiPeak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
147.02 MHz	35.036	40	-4.964	208	1.134	Vertical	-12.725
575.01 MHz	42.512	47	-4.488	62	1.132	Vertical	-1.351
624.96 MHz	46.977	47	-0.023	351	1	Vertical	0.006
652.43 MHz	42.192	47	-4.808	3	1.172	Vertical	-0.128
662.6 MHz	43.545	47	-3.455	63	1.856	Vertical	-0.061
674.96 MHz	45.855	47	-1.145	62	1.677	Vertical	0.129
749.97 MHz	44.371	47	-2.629	53	1.542	Vertical	1.785
400.02 MHz	40.276	47	-6.724	292	1.704	Horizontal	-4.019
624.97 MHz	37.517	47	-9.483	14	1.315	Horizontal	0.006
750.03 MHz	35.879	47	-11.121	323	2.758	Horizontal	1.785
799.98 MHz	42.984	47	-4.016	328	1.495	Horizontal	1.842

Table 4: Radiated Emissions 30 – 1000 MHz



Vertical

Source	Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Peak	7.2173 GHz	53.874	74	-20.126	155	2.318	Vertical	6.62
Peak	14.726 GHz	56.654	74	-17.346	104	2.141	Vertical	14.228
Peak	16.638 GHz	57.529	74	-16.471	75	3.65	Vertical	15.112

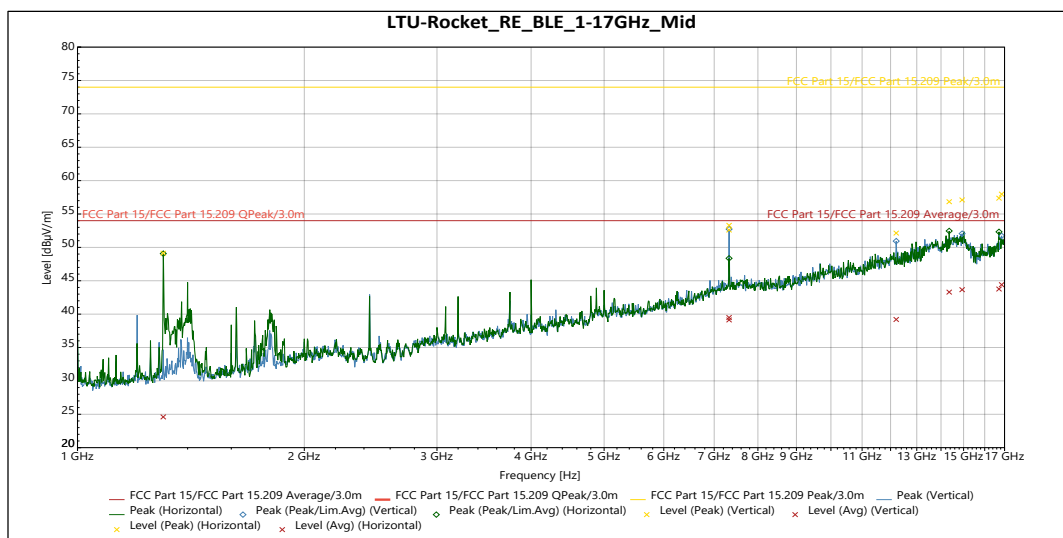
Source	Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Avg	7.2173 GHz	41.439	54	-12.561	155	2.318	Vertical	6.62
Avg	14.726 GHz	43.396	54	-10.604	104	2.141	Vertical	14.228
Avg	16.638 GHz	43.337	54	-10.663	75	3.65	Vertical	15.112

Horizontal

Source	Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Peak	1.8003 GHz	47.879	74	-26.121	168	1.631	Horizontal	-9.592
Peak	4.9994 GHz	46.582	74	-27.418	142	2.643	Horizontal	0.421
Peak	7.2172 GHz	51.581	74	-22.419	134	3.65	Horizontal	6.619
Peak	14.237 GHz	56.63	74	-17.37	100	3.297	Horizontal	14.612
Peak	16.707 GHz	57.505	74	-16.495	307	1.5	Horizontal	15.575

Source	Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Avg	1.8003 GHz	30.205	54	-23.795	168	1.631	Horizontal	-9.592
Avg	4.9994 GHz	37.803	54	-16.197	142	2.643	Horizontal	0.421
Avg	7.2172 GHz	38.41	54	-15.59	134	3.65	Horizontal	6.619
Avg	14.237 GHz	43.591	54	-10.409	100	3.297	Horizontal	14.612
Avg	16.707 GHz	43.803	54	-10.197	307	1.5	Horizontal	15.575

Table 5: Transmitting at the Lowest Frequency 1 – 17 GHz



Vertical

Source	Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Peak	7.3261 GHz	53.305	74	-20.695	196	2.827	Vertical	7.015
Peak	12.209 GHz	52.14	74	-21.86	143	3.298	Vertical	11.769
Peak	14.934 GHz	57.112	74	-16.888	351	3.315	Vertical	14.553
Peak	16.851 GHz	57.984	74	-16.016	259	1.5	Vertical	16.285

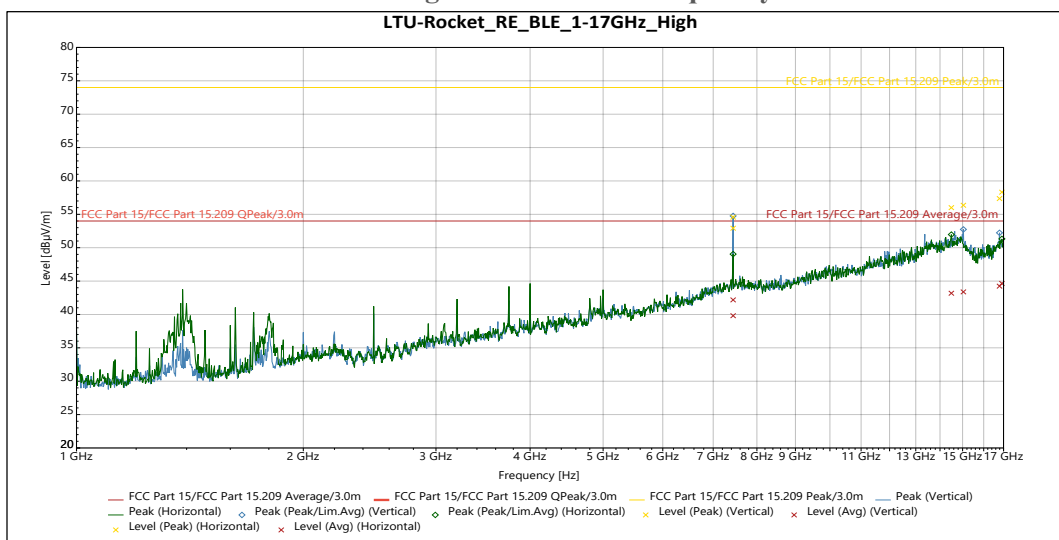
Source	Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Avg	7.3261 GHz	39.131	54	-14.869	196	2.827	Vertical	7.015
Avg	12.209 GHz	39.203	54	-14.797	143	3.298	Vertical	11.769
Avg	14.934 GHz	43.665	54	-10.335	351	3.315	Vertical	14.553
Avg	16.851 GHz	44.413	54	-9.587	259	1.5	Vertical	16.285

Horizontal

Source	Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Peak	1.2996 GHz	49.129	74	-24.871	185	1.803	Horizontal	-11.652
Peak	7.3253 GHz	52.604	74	-21.396	210	2.641	Horizontal	7.014
Peak	14.355 GHz	56.836	74	-17.164	170	3.144	Horizontal	14.298
Peak	16.715 GHz	57.372	74	-16.628	1	1.773	Horizontal	15.555

Source	Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Avg	1.2996 GHz	24.597	54	-29.403	185	1.803	Horizontal	-11.652
Avg	7.3253 GHz	39.485	54	-14.515	210	2.641	Horizontal	7.014
Avg	14.355 GHz	43.302	54	-10.698	170	3.144	Horizontal	14.298
Avg	16.715 GHz	43.757	54	-10.243	1	1.773	Horizontal	15.555

Table 6: Transmitting at the Middle Frequency 1 – 17 GHz



Vertical

Source	Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Peak	7.4394 GHz	54.582	74	-19.418	196	2.827	Vertical	7.161
Peak	15.037 GHz	56.363	74	-17.637	320	1.5	Vertical	14.439
Peak	16.792 GHz	57.356	74	-16.644	129	1.638	Vertical	16.102

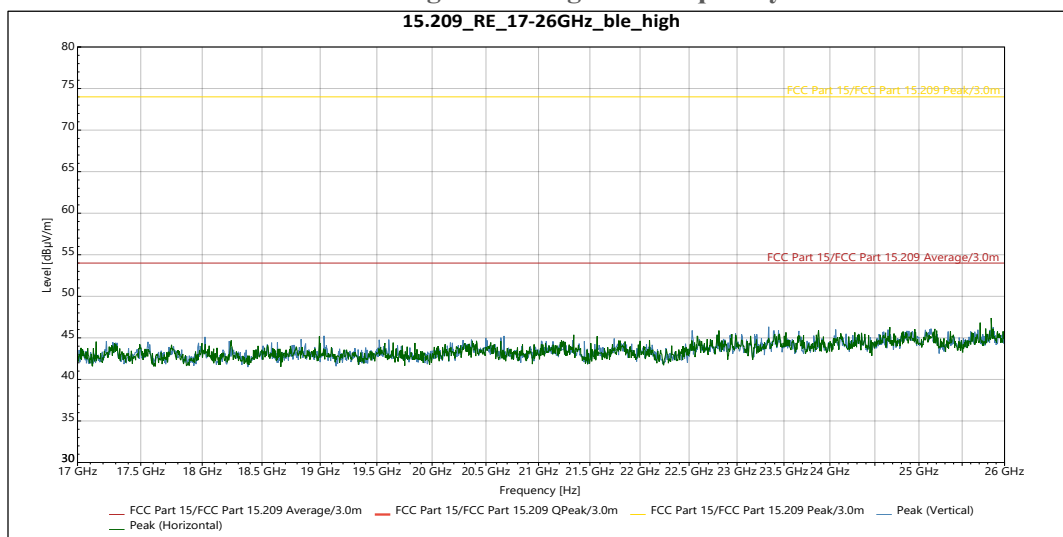
Source	Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Avg	7.4394 GHz	42.181	54	-11.819	196	2.827	Vertical	7.161
Avg	15.037 GHz	43.38	54	-10.62	320	1.5	Vertical	14.439
Avg	16.792 GHz	44.238	54	-9.762	129	1.638	Vertical	16.102

Horizontal

Source	Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Peak	7.4397 GHz	52.916	74	-21.084	125	3.278	Horizontal	7.158
Peak	14.494 GHz	56	74	-18	188	2.334	Horizontal	13.807
Peak	16.916 GHz	58.322	74	-15.678	262	3.179	Horizontal	16.563

Source	Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Avg	7.4397 GHz	39.812	54	-14.188	125	3.278	Horizontal	7.158
Avg	14.494 GHz	43.178	54	-10.822	188	2.334	Horizontal	13.807
Avg	16.916 GHz	44.647	54	-9.353	262	3.179	Horizontal	16.563

Table 7: Transmitting at the Highest Frequency 1 – 17 GHz



NOTE: No significant emissions were observed in the vertical or horizontal orientation of the antenna from 17 – 26 GHz at Low, Mid and High transmitting frequency.

Table 8: Transmitting at the Highest Frequency 17 – 26 GHz

5.6 Maximum Average Power Spectral Density

Digital modulation techniques system:

(A) For digitally modulated systems, the minimum 6dB bandwidth shall be at least 500 kHz.

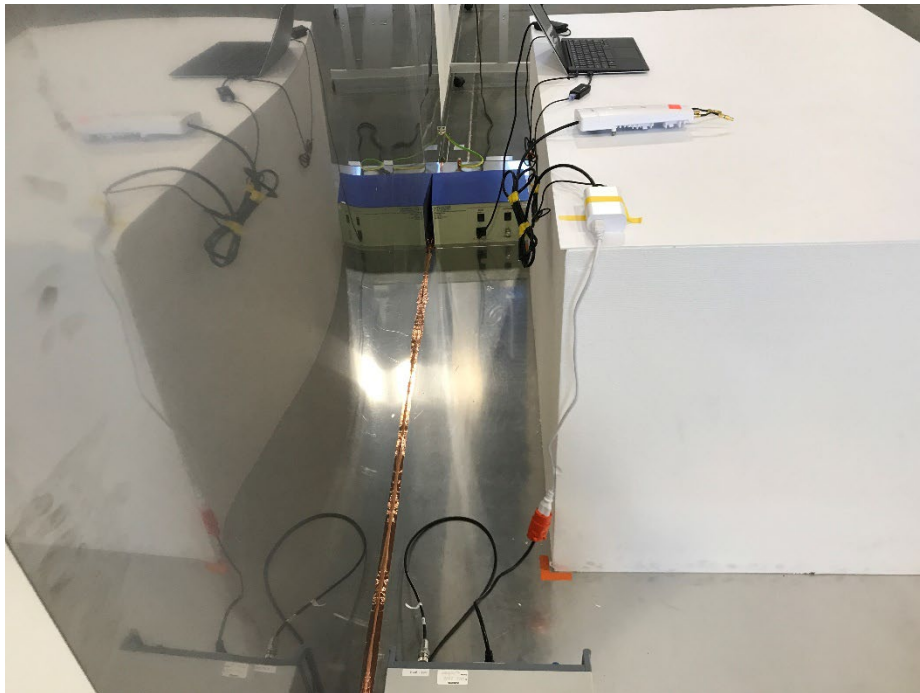
(B) For digitally modulated systems, the peak power spectral density conducted from the intentional radiator to the antenna shall be less than or equal to 8 dBm in any 3kHz band during any time interval of continuous transmission, and shall reduce the power spectral density requirement according to the Section 4.10.1.3.

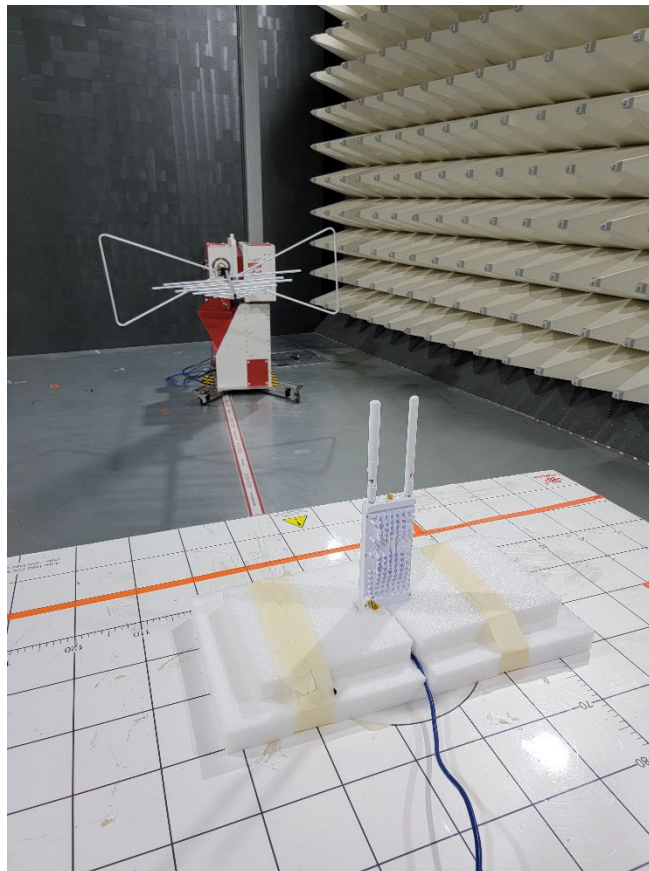
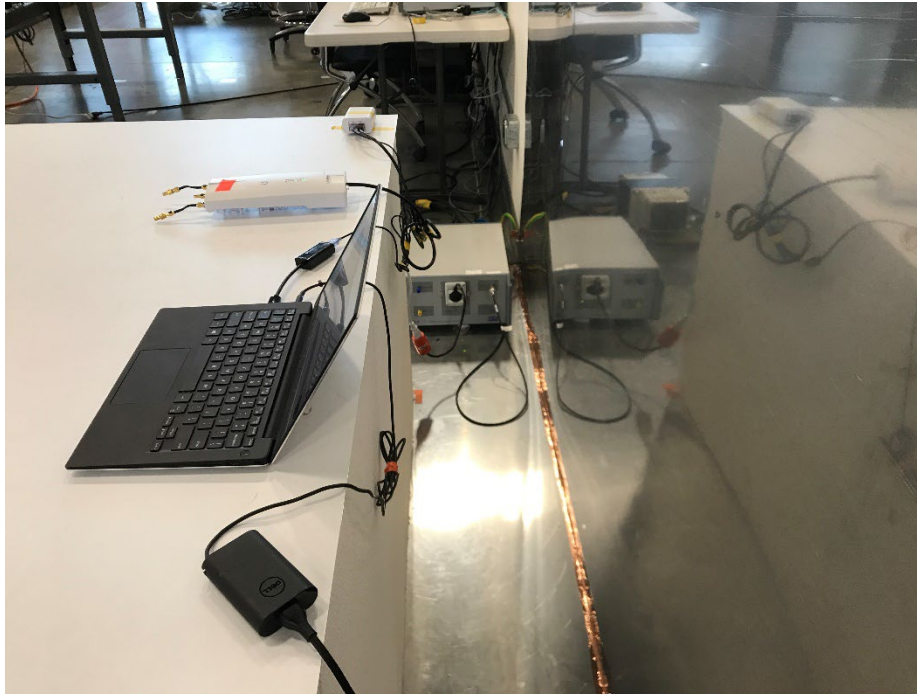
Frequency (MHz)	Measurement (dBm)	Criteria (dBm)
2402	- 14.23	8.0
2442	- 13.71	8.0
2480	- 11.59	8.0

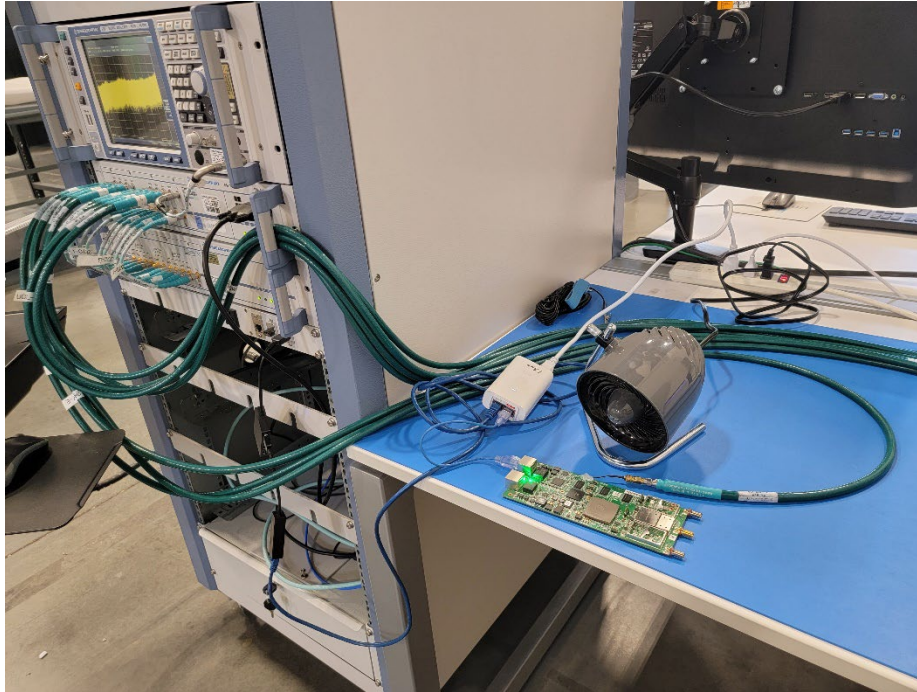
Result

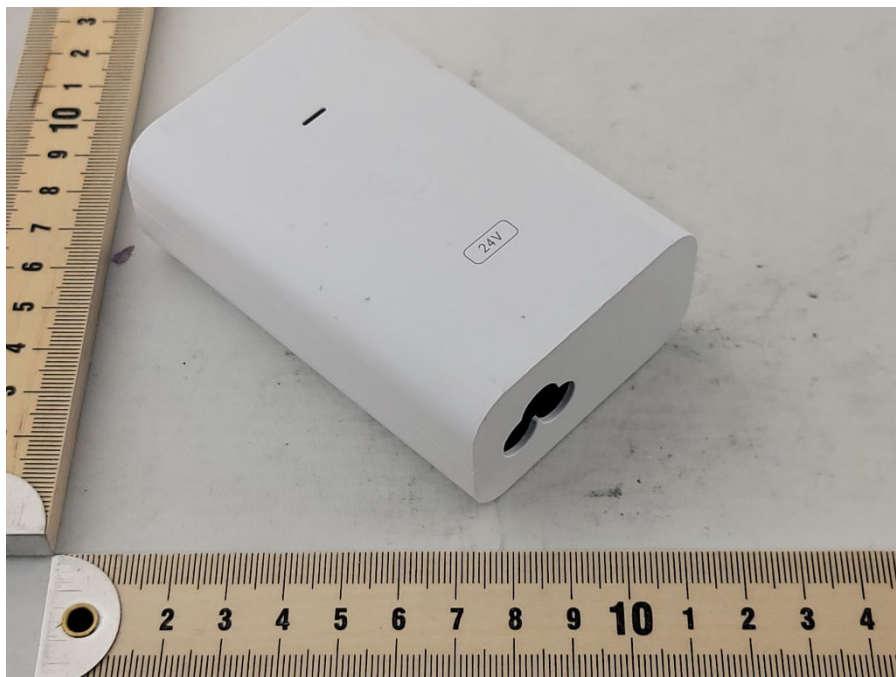
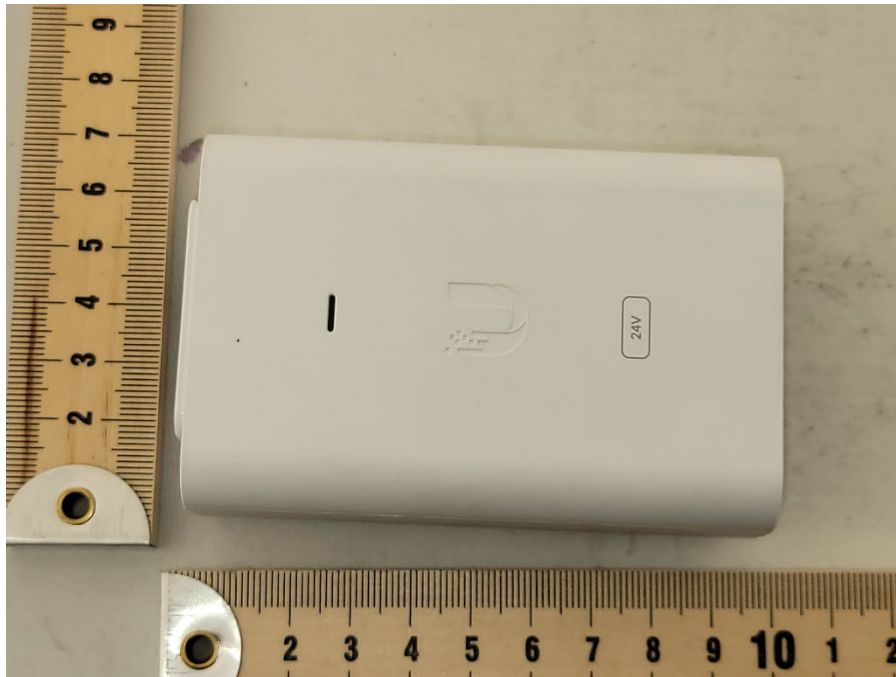
The maximum average power spectral density was less than the limit of 8 dBm; therefore, the EUT complies with the specification.

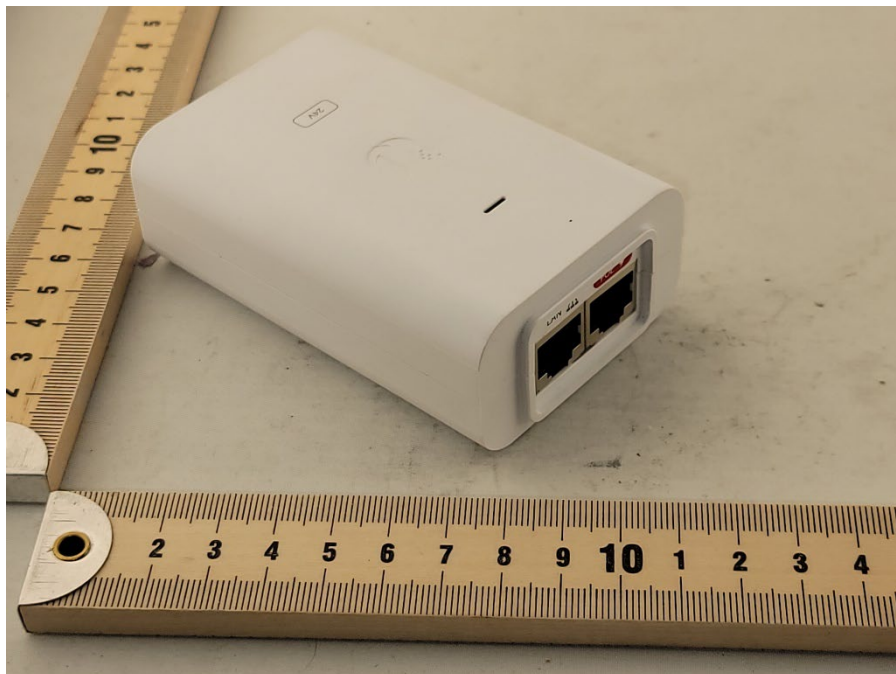
6 Test Setup Photos

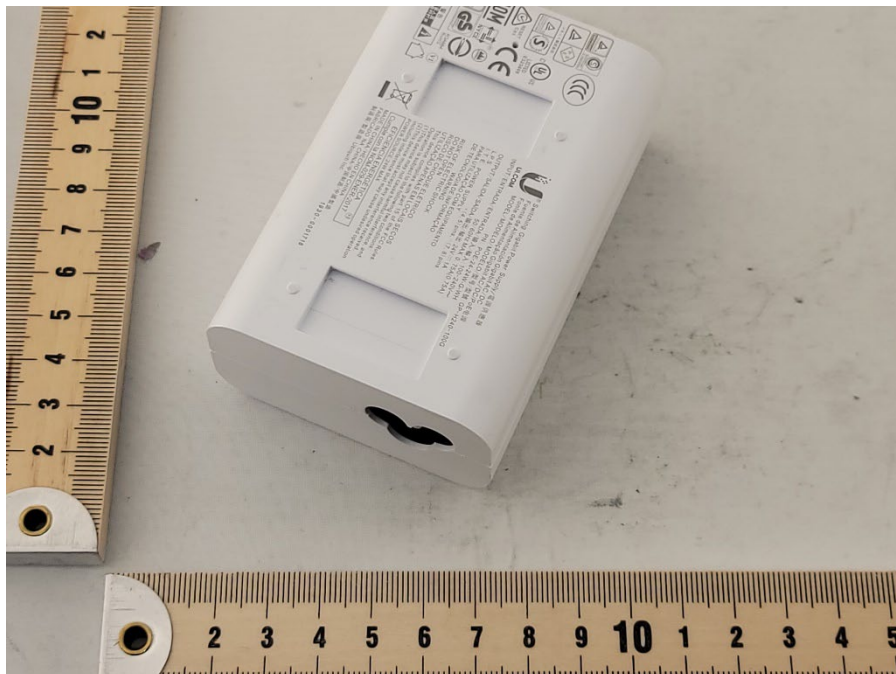












-- End of Test Report --