



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-UTRLR
IC ID	6545A-UTRLR
Equipment Under Test	UTR-LR
Test Report Serial Number	TR11003_01
Date of Test(s)	17 - 19, 23 June 2026
Report Issue Date	31 July 2026

Test Specification	Applicant
47 CFR FCC Part 15, Subpart C RSS-247, Issue 4 (July 2025)	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.



NVLAP LAB CODE 600241-0

Certification of Engineering Report

This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart C. This report may be reproduced in full. Partial reproduction of this report may only be made with the written consent of the laboratory. The results in this report apply only to the sample tested with the specifications provided by the manufacturer.

Applicant	Ubiquiti Inc.
Manufacturer	Ubiquiti Inc.
Brand Name	UBIQUITI
Model Number	UTR-LR
FCC ID	SWX-UTRLR
IC ID	6545A-UTRLR

On this 31st day of July 2026, 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. Unified Compliance laboratory is not responsible for incorrect information provided by the manufacturer.

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Unified Compliance Laboratory


Written By: Joseph W Jackson
Reviewed By: Kimberly DeBole

Revision History		
Revision	Description	Date
01	Original Report Release	31 July 2026

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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	Alex Macon
Title	Compliance Officer

1.2 Manufacturer

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Alex Macon
Title	Compliance Officer

2 Equipment Under Test (EUT)

2.1 Identification of EUT

Brand Name	UBIQUITI
Model Number	UTR-LR
Serial Number	E6D95A
Dimensions (cm)	6.5 x 9.6 x 1.9

2.2 Description of EUT

The UniFi Travel Router Long-Range (UTR-LR) is a compact travel router and VPN functionality for secure connections on the go. The UTR-LR has 2x2 2.4 GHz and 2x2 5GHz dual-band wireless transmitters. The UTR-LR has a Bluetooth transmitter for management control. The UTR is an indoor device and is powered from a USB-C power port.

This report covers the circuitry of the device subject to FCC Part 15, Subpart C. 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: UBIQUITI MN: UTR-LR (Note 1) SN: E6D95A	Wireless Router	See Section 2.4
BN: UBIQUITI MN: E005-1I050100VU SN: N/A	USB Power Adapter	2 Conductor power cord to AC mains/80cm
BN: Dell MN: XPS 13 SN: N/A	Laptop Personal Computer	Unshielded Cat 5e cable/3 meters

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
USB-C Power	1	2 conductor power to AC mains/80cm
USB-C Passthrough	1	USB-C cable/3 meters
Ethernet	2	Unshielded Cat 5e cable/3 meters

2.5 Operating Environment

Power Supply	120 Volts AC Main to USB-C
AC Mains Frequency	60 Hz
Temperature	21.4 - 24.8 °C
Humidity	24.8 - 34.4 %
Barometric Pressure	1017 mBar

2.6 Operating Modes

The UTR-LR was connected to a personal computer laptop and tested using test software in order to enable to constant duty cycle. 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

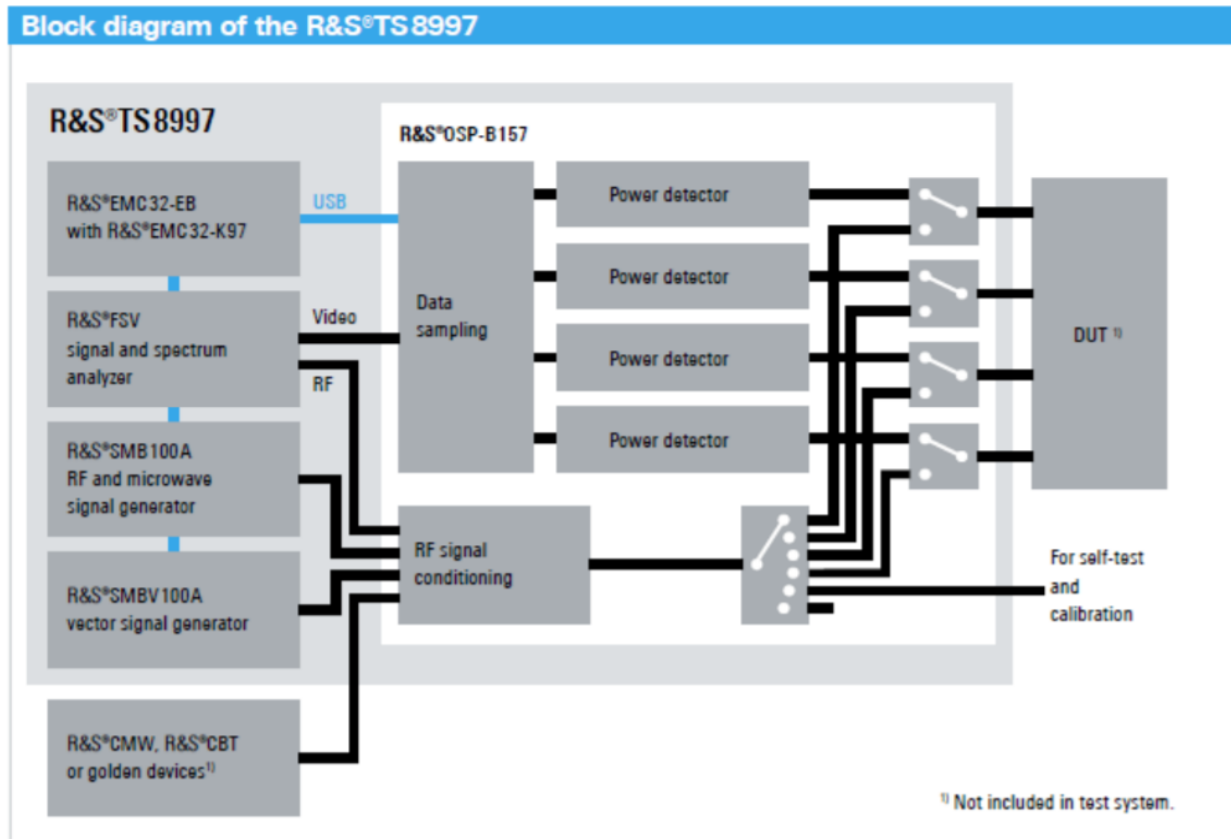


Diagram 1: Test Configuration Block Diagram

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.
Purpose of Test	The tests were performed to demonstrate initial compliance

3.2 Methods & Procedures

3.2.1 47 CFR FCC Part 15 Section 15.203

See test standard for details.

3.2.2 47 CFR FCC Part 15 Section 15.207

See test standard for details.

3.2.3 47 CFR FCC Part 15 Section 15.247

See test standard for details.

3.3 FCC Part 15, Subpart C

3.3.1 Summary of Tests

FCC Section	ISED Section	Environmental Phenomena	Frequency Range (MHZ)	Result
15.203	N/A	Antenna requirements	Structural Requirement	Compliant
15.207	RSS-Gen	Conducted Disturbance at Mains Port	0.15 to 30	Compliant
15.247(a)	RSS-247 § 5.2	Bandwidth Requirement	2400 to 2483.5	Compliant
15.247(b)	RSS-247 § 5.4	Peak Output Power	2400 to 2483.5	Compliant
15.247(d)	RSS-247 § 5.4	Antenna Conducted Spurious Emissions	0.009 to 26000	N/A
15.247(d)	RSS-247 § 5.4	Radiated Spurious Emissions	0.009 to 26000	Compliant
15.247(e)	RSS-247 § 5.2	Peak Power Spectral Density	2400 to 2483.5	Compliant
The testing was performed according to the procedures in ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024, KDB 558074 and 47 CFR Part 15. Where applicable, KDB 662911 was followed to sum required measurements.				

3.4 Results

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

3.5 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 2027. 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 30 June 2027.

Unified Compliance Laboratory has been assigned Registration Number 376708 by the FCC, MRA Designation Number US5037 and 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	11/18/2025	11/18/2026
LISN	AFJ	LS16C/10	UCL-2512	8/12/2025	8/12/2026
ISN	Teseq	ISN T800	UCL-2971	3/4/2026	3/4/2027
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

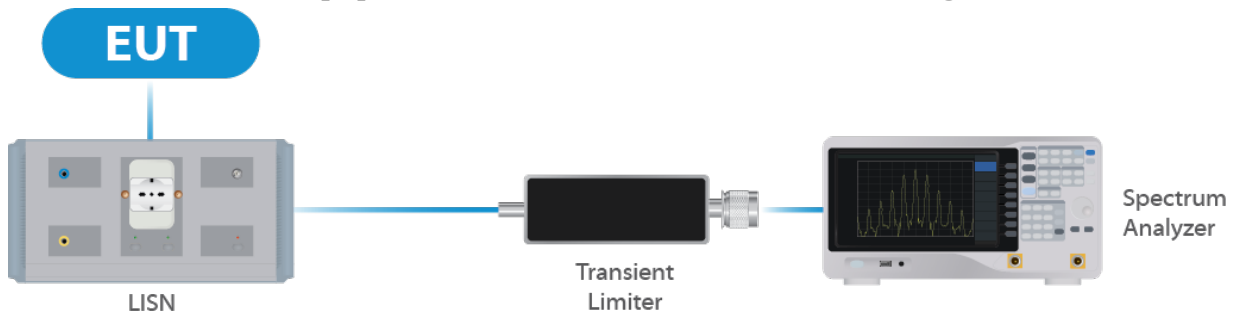


Figure 1: Conducted Emissions Test

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	3/18/2026	3/18/2027
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	4/7/2026	4/7/2027
Switch Extension	R&S	OSP-150W	UCL-2870	4/6/2026	4/6/2027
Test Software	R&S	EMC32	UCL-9442	--	--

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

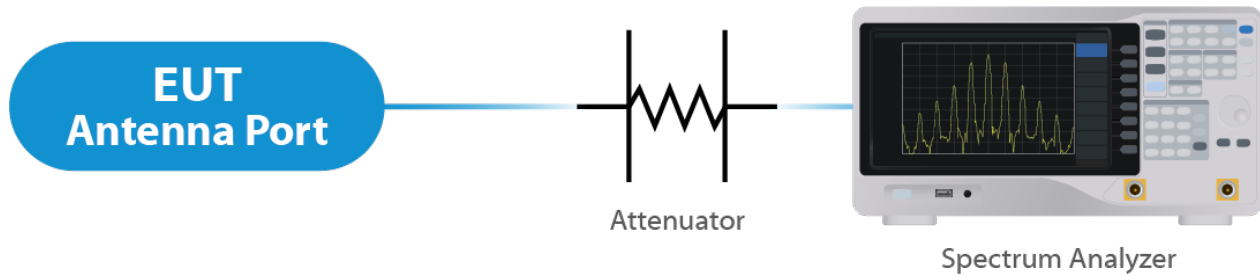


Figure 2: Direct Connect at the Antenna Port Test

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	12/18/2025	12/18/2026
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	7/22/2025	7/22/2026
Tri Log Antenna	Scwarzbeck	VULB 9163	UCL-3062	12/16/2025	12/16/2027
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	4/2/2025	4/2/2027
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	2/11/2025	2/4/2027
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	4/7/2025	4/7/2027
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	7/22/2025	7/22/2026
Test Software	Nexio	BatEMC	UCL-5253 & UCL-5249	N/A	N/A

Table 3: List of equipment used for Radiated Emissions

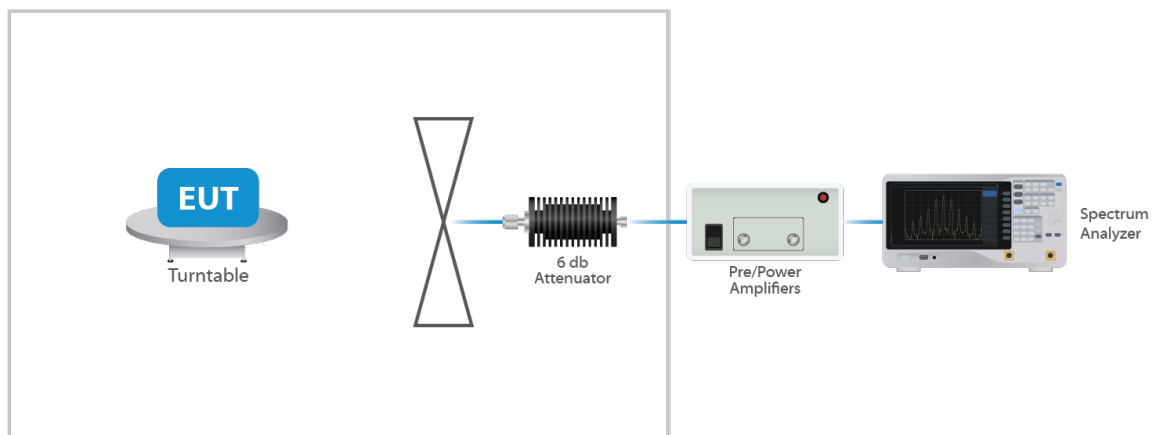


Figure 3: Radiated Emissions Test

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

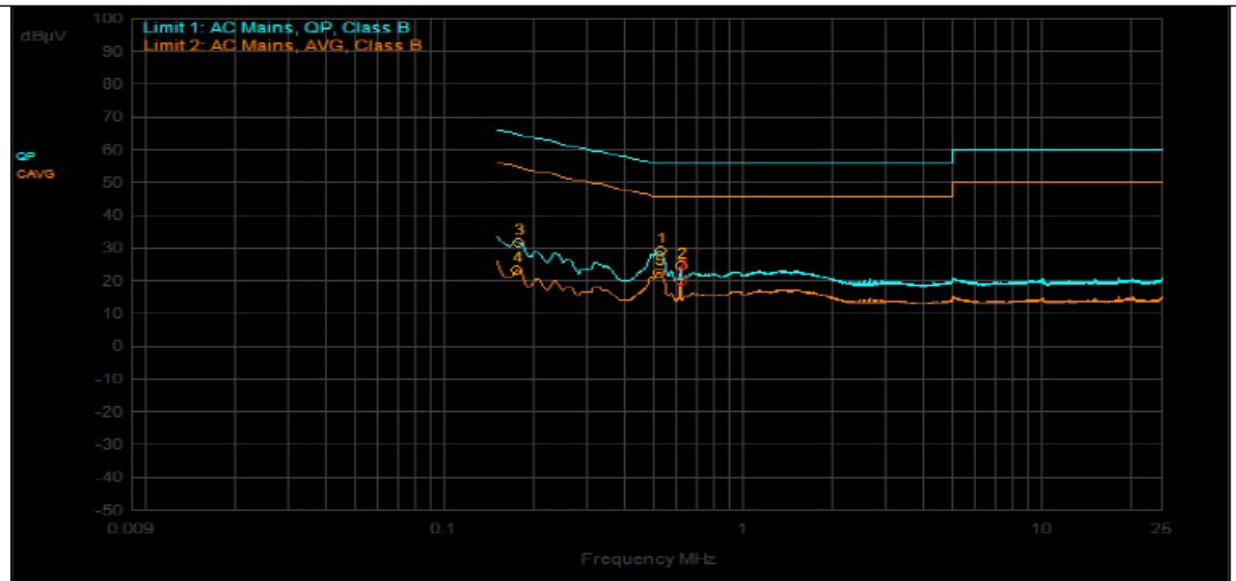
5.1 §15.203 Antenna Requirements

The EUT uses an integral internal antenna. As per the manufacturer, the Maximum gain of the antenna is -6 dBi. The antenna is not user replaceable.

Results

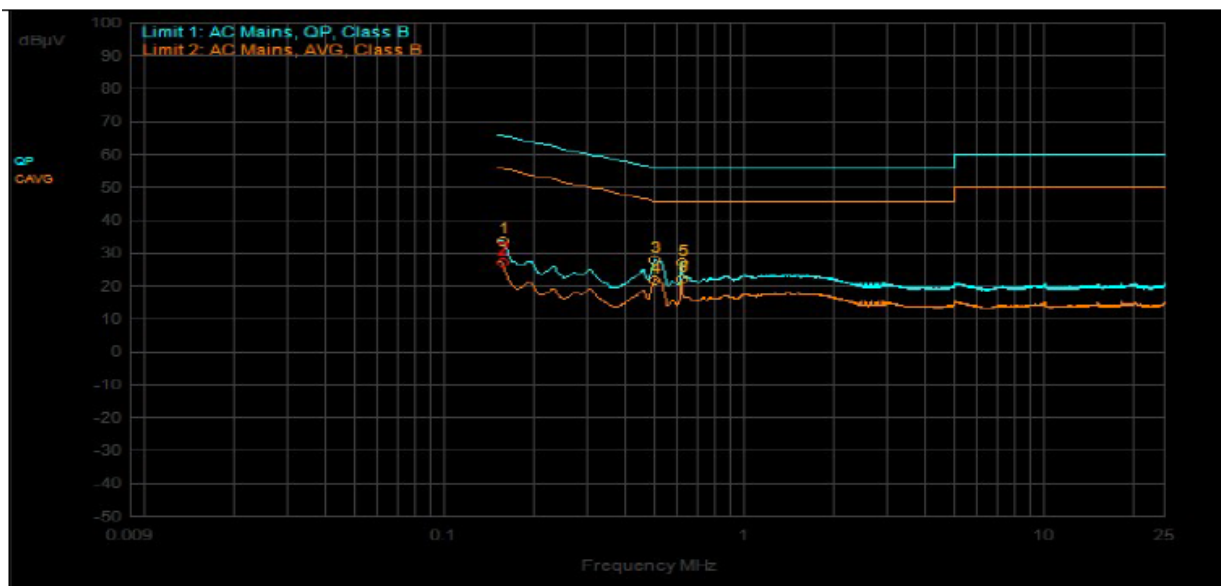
The EUT complied with the specification

5.2 §15.207 Conducted Emissions at Mains Ports Data



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.	P/F
MU	MHz	dB	dB	dB	Type	dBµV	dBµV	dBµV	dB	dBµV	dB	P/F
1	525,000kHz	9.52	0.00		QPeak	19.47	28.99	56.00	-27.01			
2	615,000kHz	9.50	0.00		QPeak	15.04	24.54	56.00	-31.46			
3	177,000kHz	9.51	0.00		QPeak	22.06	31.57	64.63	-33.05			
4	174,000kHz	9.51	0.00		C_AVG	13.81	23.32			54.77	-31.45	
5	522,000kHz	9.52	0.00		C_AVG	13.04	22.56			46.00	-23.44	
7	615,000kHz	9.50	0.00		C_AVG	10.33	19.83			46.00	-26.17	

Graph 1: Conducted Emissions Plot - Neutral



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.	P/F
MU	MHz	dB	dB	dB	Type	dBμV	dBμV	dBμV	dB	dBμV	dB	P/F
3	501,000kHz	9.59	0.00		QPeak	18.30	27.89	56.00	-28.11			
5	615,000kHz	9.61	0.00		QPeak	17.30	26.91	56.00	-29.09			
1	156,000kHz	9.52	0.00		QPeak	24.17	33.69	65.67	-31.99			
2	156,000kHz	9.52	0.00		C_AVG	17.49	27.01			55.67	-28.66	
4	498,000kHz	9.59	0.00		C_AVG	12.22	21.81			46.03	-24.23	
8	615,000kHz	9.61	0.00		C_AVG	12.55	22.16			46.00	-23.84	

Graph 2: Conducted Emissions Plot – Line 1

Result

The EUT complied with the specification limit.

5.3 §15.247(a)(2) Emissions Bandwidth

Frequency (MHz)	Emissions 6 dB Bandwidth (MHz)	Emissions 99% Bandwidth (MHz)
2402	0.6	1.00
2442	0.7	0.98
2480	0.6	0.98

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 §15.247(b)(3) Maximum Average Output Power

The maximum average RF conducted output power measured for this device was 5.37 dBm or 3.44 mW. The limit is 30 dBm or 1 Watt when using antennas with 6 dBi or less gain. The antenna has a gain of -6 dBi.

Frequency (MHz)	Measured Output Power (dBm)	Output Power (mW)
2402	4.57	2.86
2442	5.37	3.44
2480	2.96	1.98

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 §15.247(d) Spurious Emissions

5.5.1 Conducted Spurious Emissions

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental frequency was investigated to measure any antenna-conducted emissions. The table show the measurement data from spurious emissions noted across the frequency range when transmitting at the lowest frequency, middle frequency and upper frequency. Shown within the Annex are plot(s) with the EUT tuned to the upper and lower channels. These demonstrate compliance with the provisions of this section at the band edges.

The emissions must be attenuated 30 dB below the highest power spectral density level measured within the authorized band as measured with a 100 kHz RBW.

Result

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

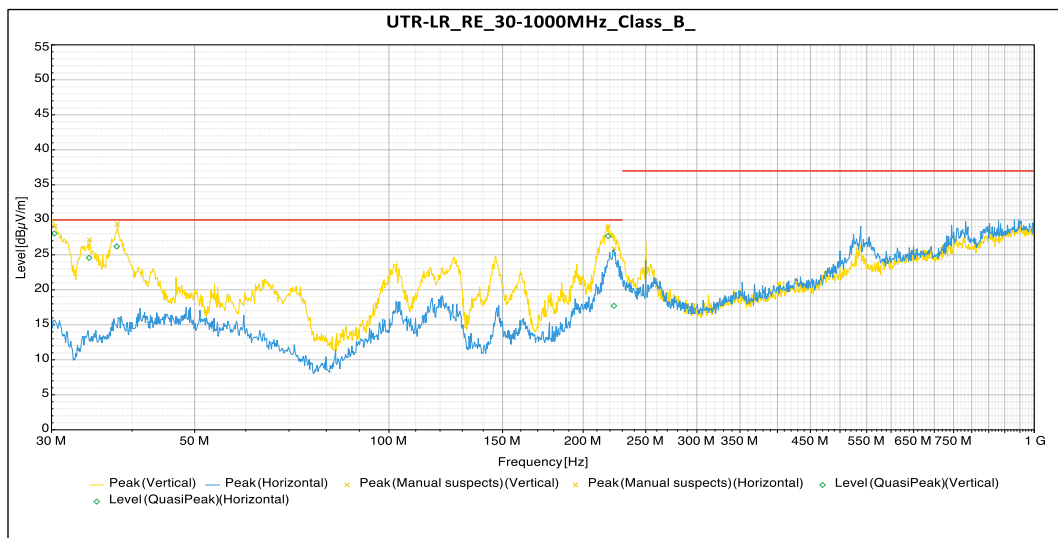
5.5.2 Radiated Spurious Emissions in the Restricted Bands of §15.205

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental emissions was investigated to measure any radiated emissions in the restricted bands. The following tables show measurements of any emissions that fell into the restricted bands of §15.205. The tables show the worst-case emissions measured from the EUT. For frequencies above 18.0 GHz, a measurement distance of 1 meter was used. The noise floor was a minimum of 6 dB below the limits. The emissions in the restricted bans must meet the limits specified in §15.209. Tabular data for each of the spurious emissions is shown below for each of the units. Plots of the band edges are also shown.

Correction Factor = Antenna Factor (dBi) + Cable Loss (dB) - Pre-Amplifier Gain (dB), and is added to the Receiver reading.

Result

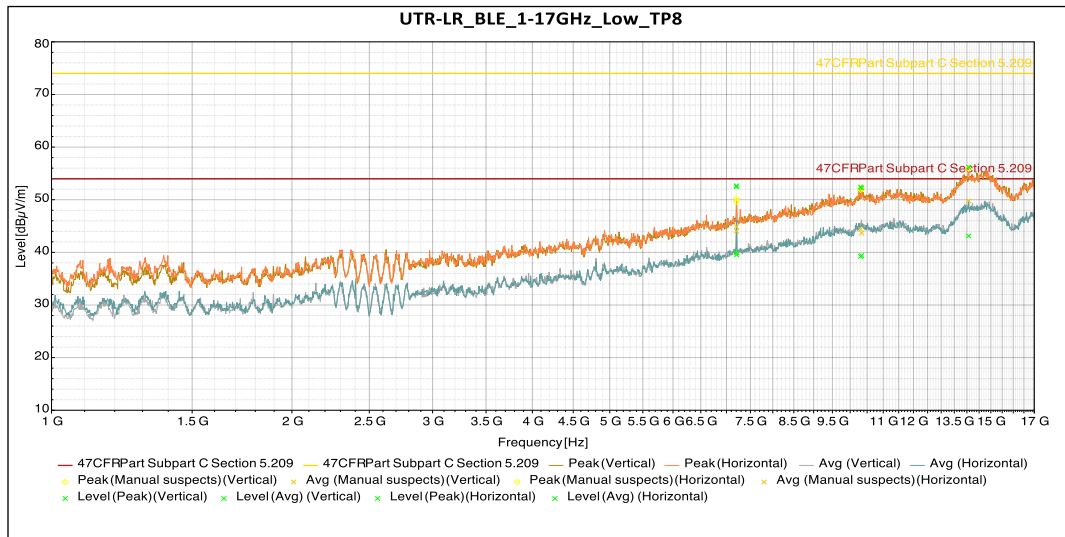
All emissions in the restricted bands of §15.205 met the limits specified in §15.209; therefore, the EUT complies with the specification.



QuasiPeak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
30.29 MHz	28.04	30.0	-1.96	115	1.05	Vertical	-17.22
34.30 MHz	24.57	30.0	-5.43	185	1.48	Vertical	-16.13
37.87 MHz	26.20	30.00	-3.80	218	1.02	Vertical	-14.13
218.64 MHz	27.67	30.0	-2.33	167	1.13	Vertical	-14.10
223.14 MHz	17.71	30.0	-12.29	290	2.97	Horizontal	-13.78

Table 4: Radiated Emissions 30 – 1000 MHz



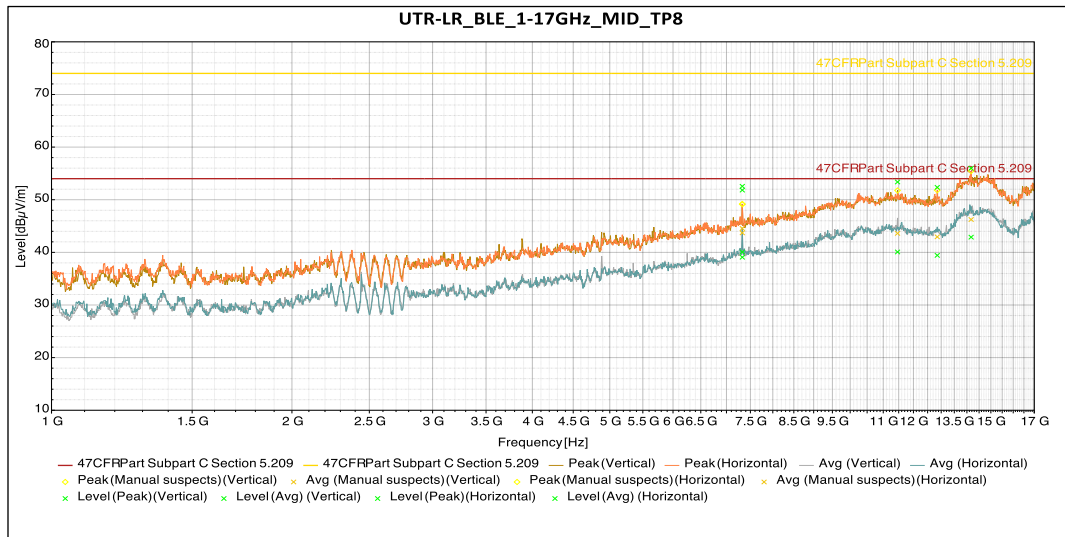
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
7.21 GHz	52.45	74.0	-21.55	350	3.652	Vertical	-0.58
10.31 GHz	52.42	74.0	-21.58	290	3.311	Vertical	6.70
7.21 GHz	52.66	74.0	-21.34	359	3.802	Horizontal	-0.60
10.33 GHz	52.27	74.0	-21.73	50	3.7978	Horizontal	6.83
14.07 GHz	56.19	74.0	-17.81	81	3.802	Horizontal	10.95

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
7.21 GHz	39.51	54.0	-14.49	350	3.652	Vertical	-0.58
10.31 GHz	39.22	54.0	-14.78	290	3.311	Vertical	6.70
7.21 GHz	39.91	54.0	-14.09	359	3.802	Horizontal	-0.60
10.33 GHz	39.38	54.0	-14.62	50	3.7978	Horizontal	6.83
14.07 GHz	43.13	54.0	-10.87	81	3.802	Horizontal	10.95

Table 5: Radiated Emissions 1 – 17 GHz at the Lowest Frequency



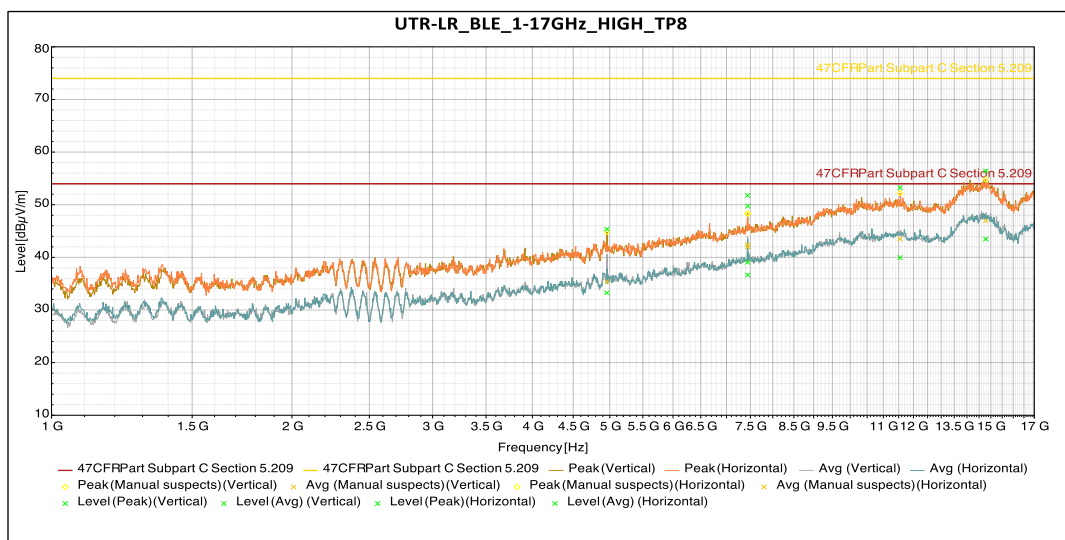
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
7.33 GHz	51.83	74.0	-22.17	114	3.657	Vertical	-0.16
11.46 GHz	53.37	74.0	-20.63	185	3.802	Vertical	7.84
7.33 GHz	52.55	74.0	-21.45	9	3.798	Horizontal	-0.16
12.85 GHz	52.35	74.0	-21.65	308	3.798	Horizontal	7.64
14.17 GHz	55.99	74.0	-18.01	56	3.802	Horizontal	11.04

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
7.33 GHz	39.08	54.0	-14.92	114	3.657	Vertical	-0.16
11.46 GHz	40.07	54.0	-13.93	185	3.802	Vertical	7.84
7.33 GHz	40.06	54.0	-13.94	9	3.798	Horizontal	-0.16
12.85 GHz	39.43	54.0	-14.57	308	3.798	Horizontal	7.64
14.17 GHz	42.89	54.0	-11.11	56	3.802	Horizontal	11.04

Table 6: Radiated Emissions 1 – 17 GHz at the Middle Frequency



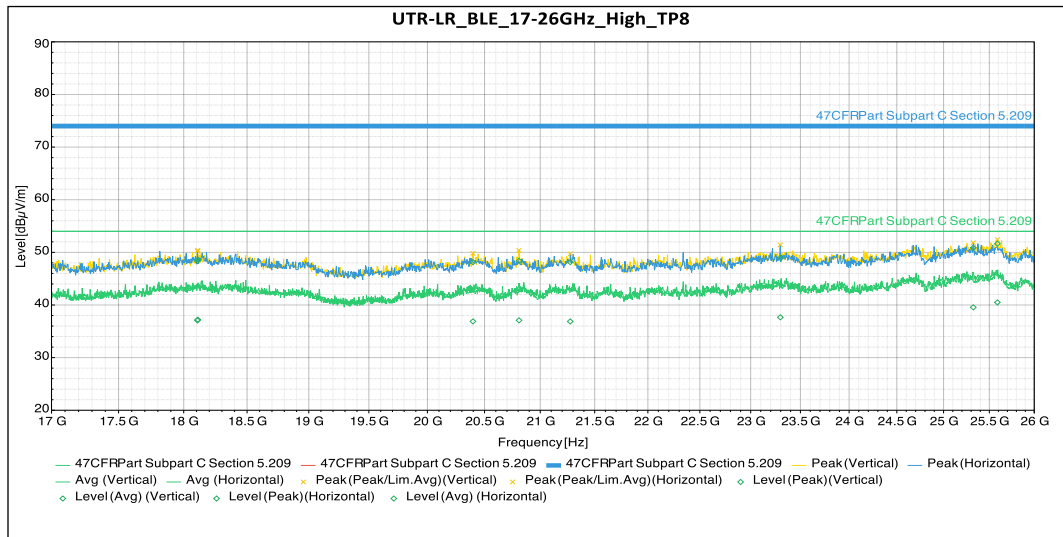
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
4.96 GHz	45.36	74.0	-28.64	155	2.645	Vertical	-7.30
7.44 GHz	49.73	74.0	-24.27	73	2.65	Vertical	0.21
7.44 GHz	51.76	74.0	-22.24	3	4	Horizontal	0.22
11.55 GHz	53.25	74.0	-20.75	277	3.798	Horizontal	7.97
14.78 GHz	56.42	74.0	-17.58	46	3.802	Horizontal	11.85

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
4.96 GHz	33.27	54.0	-20.73	155	2.645	Vertical	-7.30
7.44 GHz	36.65	54.0	-17.35	73	2.65	Vertical	0.21
7.44 GHz	39.06	54.0	-14.94	3	4	Horizontal	0.22
11.55 GHz	39.94	54.0	-14.06	277	3.798	Horizontal	7.97
14.78 GHz	43.48	54.0	-10.52	46	3.802	Horizontal	11.85

Table 7: Radiated Emissions 1 – 17 GHz at the Highest Frequency



Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
18.11 GHz	48.61	74.0	-25.39	305	Vertical	-0.61
20.81 GHz	48.39	74.0	-25.61	303	Vertical	0.32
25.59 GHz	51.65	74.0	-22.35	273	Vertical	3.13
18.11 GHz	48.34	74.0	-25.66	219	Horizontal	-0.61
23.30 GHz	48.93	74.0	-25.07	193	Horizontal	0.93
25.32 GHz	50.88	74.0	-23.12	161	Horizontal	2.51

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
18.11 GHz	37.21	54.0	-16.79	305	Vertical	-0.61
20.81 GHz	37.09	54.0	-16.91	303	Vertical	0.32
25.59 GHz	40.49	54.0	-13.51	273	Vertical	3.13
18.11 GHz	37.07	54.0	-16.93	219	Horizontal	-0.61
23.30 GHz	37.66	54.0	-16.34	193	Horizontal	0.93
25.32 GHz	39.55	54.0	-14.45	161	Horizontal	2.51

Table 8: Radiated Emissions 17 – 26 GHz at the Highest Frequency (worse case)

5.6 §15.247(e) Maximum Average Power Spectral Density

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. Results of this testing are summarized.

Frequency (MHz)	Measurement (dBm)	Criteria (dBm)
2402	-1.57	8.0
2442	-0.81	8.0
2480	-2.98	8.0

Result

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

-- End of Test Report --