UNIFIED COMPLIANCE LABORATORY

427 West 12800 South
Draper, UT 84020

Test Report

Certification

FCC ID	SWX-LTUXR
IC ID	6545A-LTUXR
Equipment Under Test	LTU-XR
Test Report Serial Number	TR6276_01
Date of Test(s)	9, 29 and 30 June 2021
Report Issue Date	9 July 2021

Test Specification	Applicant
47 CFR FCC Part 15, Subpart C	Ubiquiti Inc. 685 Third Avenue New York, NY 10019 U.S.A.

NVLAP TESTING ilac-MRA

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.

Applicant	Ubiquiti Inc.
Manufacturer	Ubiquiti Inc.
Brand Name	LTU
Model Number	LTU-XR
FCC ID	SWX-LTUXR
IC ID	6545A-LTUXR

On this 9th day of July 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.

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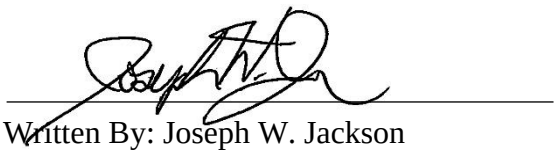
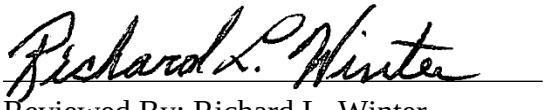
Unified Compliance Laboratory



Written By: Joseph W. Jackson



Reviewed By: Richard L. Winter

Revision History		
Revision	**Description**	**Date**
01	Original Report Release	9 July 2021

Table of Contents

1 Client Information 5
1.1 Applicant 5
1.2 Manufacturer 5
2 Equipment Under Test (EUT) 6
2.1 Identification of EUT 6
2.2 Description of EUT 6
2.3 EUT and Support Equipment 6
2.4 Interface Ports on EUT 7
2.5 Operating Environment 7
2.6 Operating Modes 7
2.7 EUT Exercise Software 7
2.8 Block Diagram of Test Configuration 8
2.9 Modification Incorporated/Special Accessories on EUT 8
2.10 Deviation, Opinions Additional Information or Interpretations from Test Standard 8
3 Test Specification, Method and Procedures 9
3.1 Test Specification 9
3.2 Methods & Procedures 9
3.3 FCC Part 15, Subpart C 9
3.4 Results 10
3.5 Test Location 10
4 Test Equipment 11
4.1 Conducted Emissions at Mains Ports 11
4.2 Direct Connect at the Antenna Port Tests 11
4.3 Radiated Emissions 12
4.4 Equipment Calibration 12
4.5 Measurement Uncertainty 13
5 Test Results 14
5.1 §15.203 Antenna Requirements 14
5.2 Conducted Emissions at Mains Ports Data 14
5.3 §15.247(a)(2) Emissions Bandwidth 16
5.4 §15.247(b)(3) Maximum Average Output Power 16
5.5 §15.247(d) Spurious Emissions 17
5.6 §15.247(e) Maximum Average Power Spectral Density 23

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	LTU
Model Number	LTU-XR
Serial Number	68D79A1F2C26
Dimensions (cm)	74.7 x 52.5 x 34.7

2.2 Description of EUT

The LTU-XR is a high-performance point-to-multi-point transceiver operating in the 5 GHz WiFi band. The LTU-XR is designed to provide 550 Mbps wireless throughput and allows independent transmit and receive channel configurations to avoid local interference. The LTU-XR has an integrated Bluetooth transceiver for system management control. The LTU-XR is powered from a Model POE-24-12W-G-WH PoE Power adapter.

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: LTU MN: LTU-XR (Note 1) SN: 68D79A1F2C26	Wireless Transceiver	See Section 2.4
BN: Ubiquiti MN: POE-24-12W-G-WH (Note 1) SN: N/A	PoE Power Adapter	Shielded or Un-Shielded Cat 5e cable (Note 2)
BN: Dell MN: XPS 13 SN: N/A	Laptop Computer	Shielded or Un-Shielded Cat 5e cable (Note 2)

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 Mains	1	3 conductor power cord/80cm
PoE	1	Shielded or Un-Shielded Cat 5e Cable/> 3 meters
Data	1	Shielded or Un-Shielded Cat 5e Cable/> 3 Meters

2.5 Operating Environment

Power Supply	120 Vac to 24 Volt PoE Power
AC Mains Frequency	60 Hz
Temperature	21.4 – 25.4 °C
Humidity	33.9 – 38.0 %
Barometric Pressure	1015 mBar

2.6 Operating Modes

The LTU-XR was connected to a personal computer laptop and tested using test software in order to enable to constant transmission 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

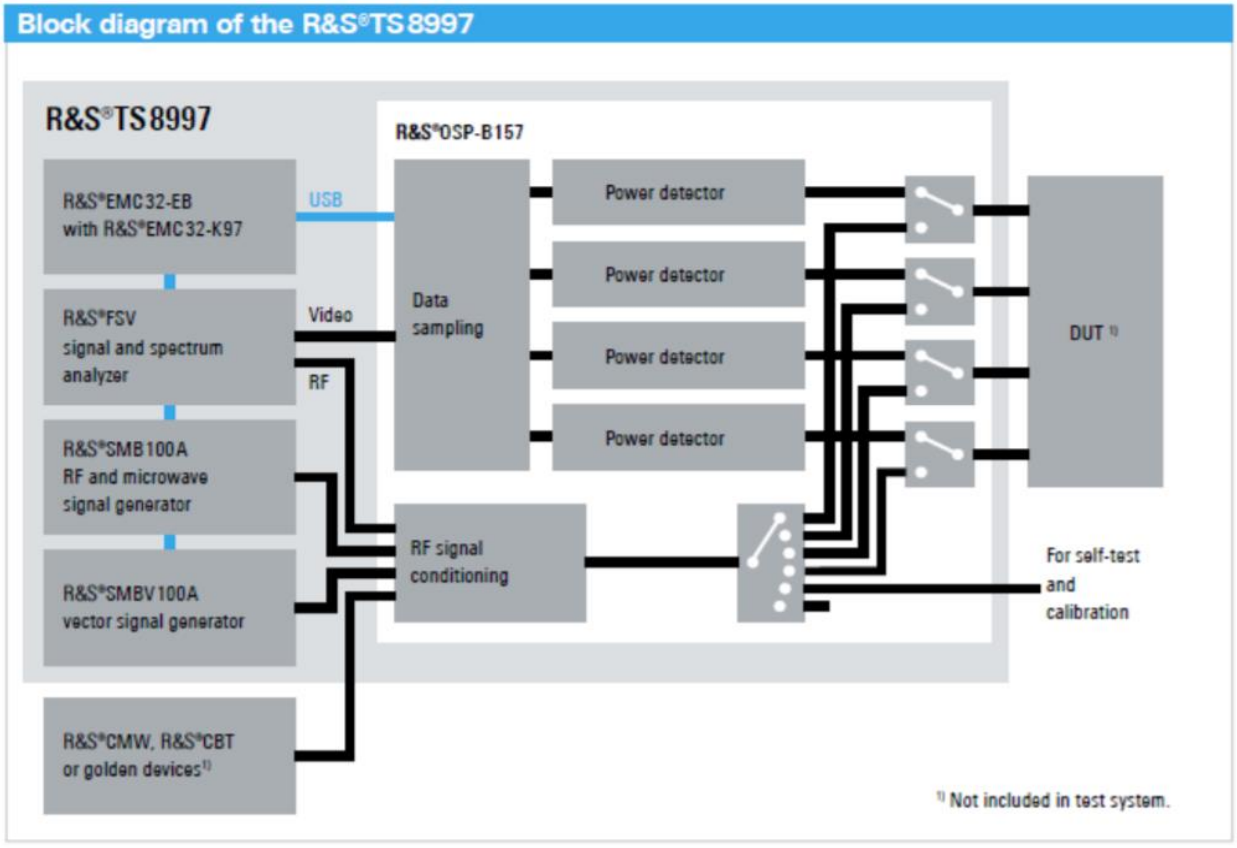


Diagram 1: Test Configuration Block Diagram

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.
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 40000	N/A
15.247(d)	RSS-247 § 5.4	Radiated Spurious Emissions	0.009 to 40000	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 C63.10-2013, 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 2022. 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, 2022. 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	6/4/2021	6/4/2022
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

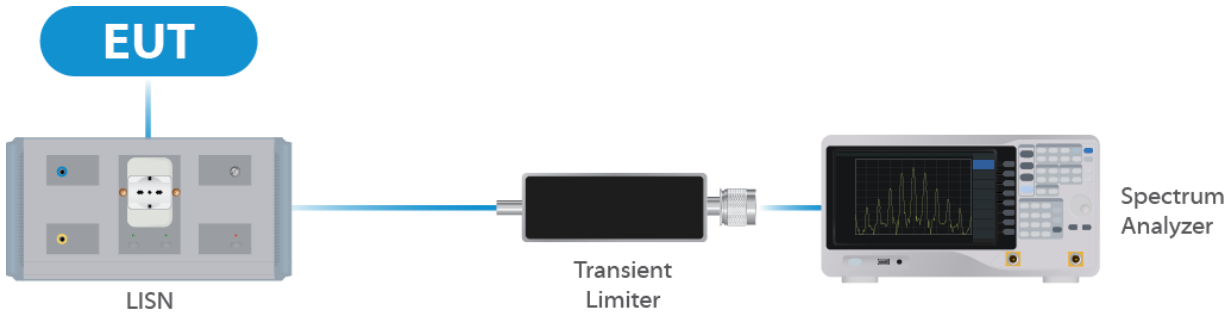


Figure 1: Conducted Emissions Test

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

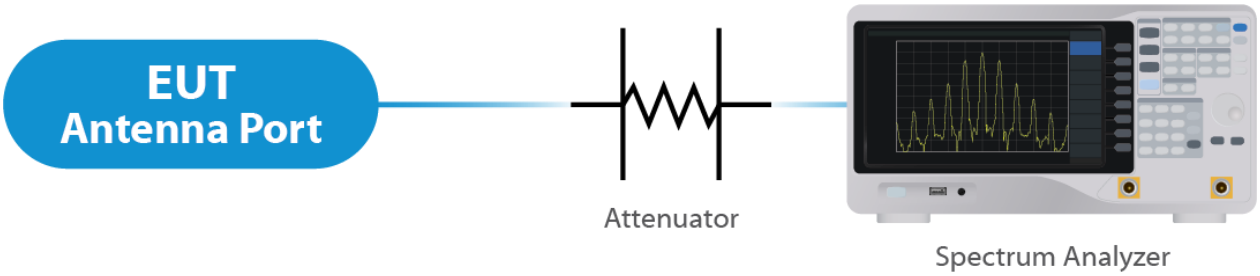


Figure 2: Direct Connect at the Antenna Port Test

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

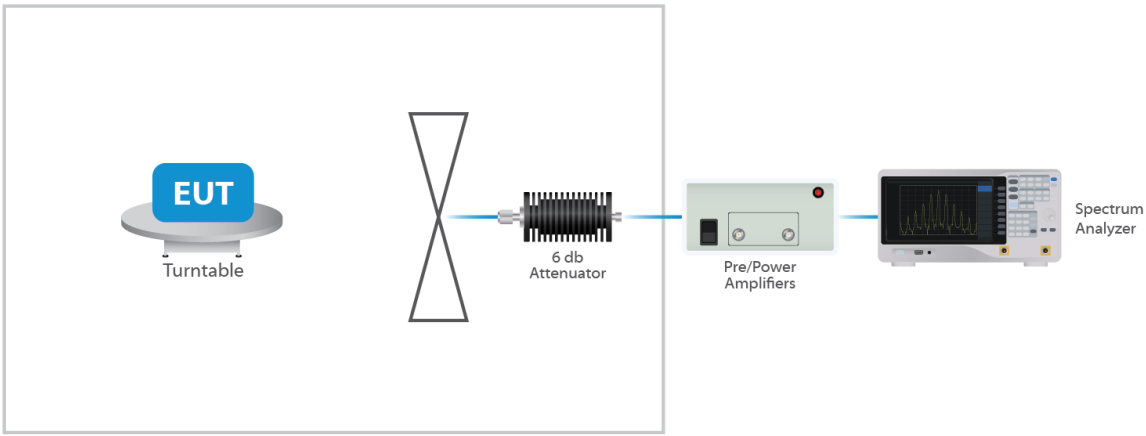


Figure 3: Radiated Emissions Test

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 (± 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

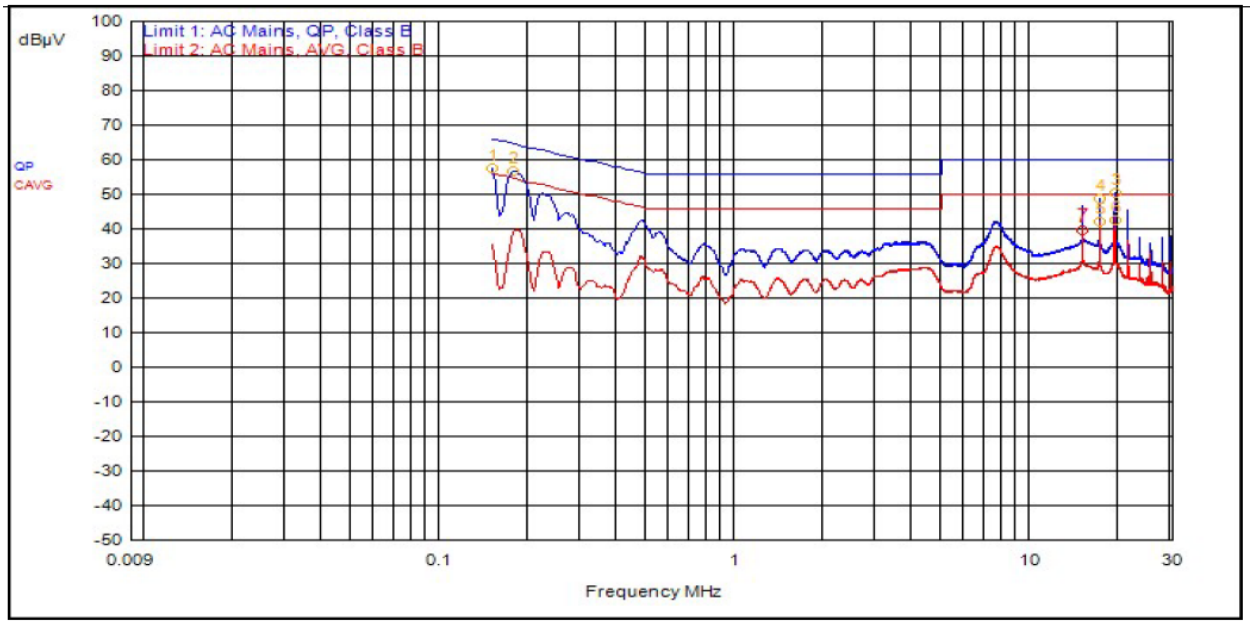
5.1 §15.203 Antenna Requirements

The EUT uses an integral antenna. The Maximum gain of the antenna is 5.0 dBi. The antenna is not user replaceable.

Results

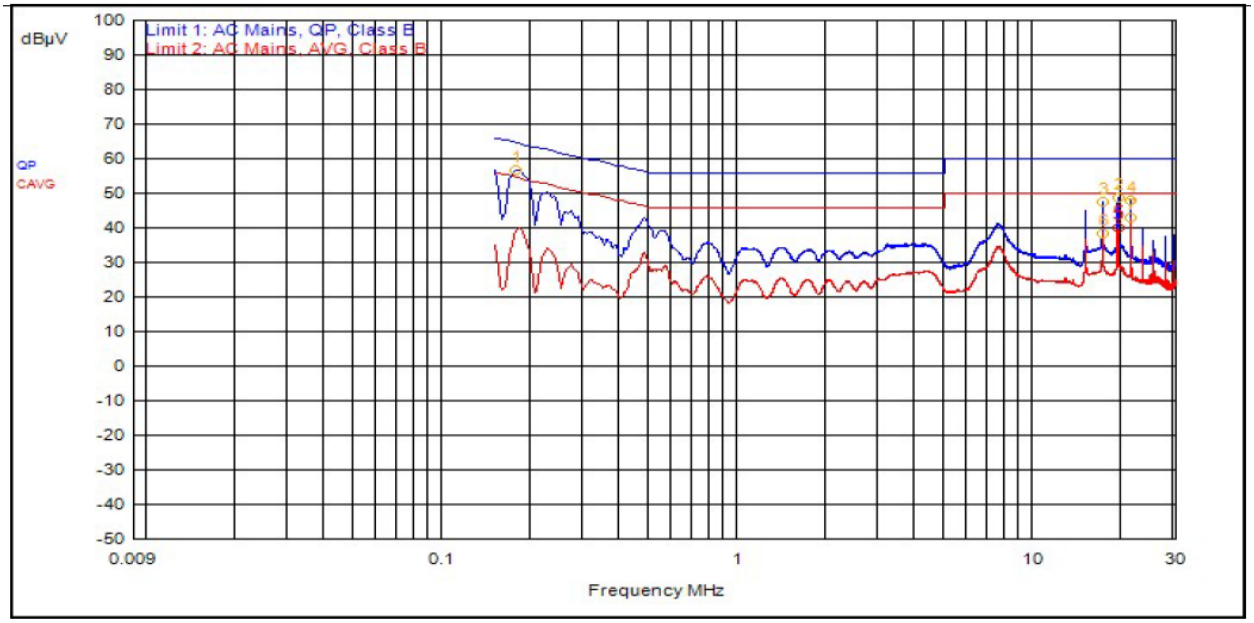
The EUT complied with the specification

5.2 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.
2	177,000kHz	12.4	0.0		QPeak	44.2	56.6	64.6	-8.0		
1	150,000kHz	12.4	0.0		QPeak	45.1	57.4	66.0	-8.6		
3	19.080MHz	12.3	0.2		QPeak	37.8	50.3	60.0	-9.7		
4	16.959MHz	12.4	0.2		QPeak	36.3	48.9	60.0	-11.1		
5	16.959MHz	12.4	0.2		C_AVG	29.4	42.0			50.0	-8.0
6	19.077MHz	12.3	0.2		C_AVG	30.2	42.7			50.0	-7.3
7	14.838MHz	12.5	0.2		C_AVG	26.9	39.6			50.0	-10.4

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.
1	177,000kHz	12.4	0.0		QPeak	44.2	56.6	64.6	-8.0		
2	19.074MHz	12.3	0.2		QPeak	36.1	48.6	60.0	-11.4		
4	21.195MHz	12.3	0.2		QPeak	35.3	47.8	60.0	-12.2		
3	16.956MHz	12.4	0.2		QPeak	35.0	47.6	60.0	-12.4		
5	19.074MHz	12.3	0.2		C_AVG	27.4	39.9			50.0	-10.1
6	16.953MHz	12.4	0.2		C_AVG	25.6	38.2			50.0	-11.8
7	21.195MHz	12.3	0.2		C_AVG	30.4	42.8			50.0	-7.2

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	0.63	1.01
2442	0.71	1.00
2480	0.61	1.01

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 – 17.9 dBm or 0.016 mW. The limit is 30 dBm or 1 Watt when using antennas with 6 dBi or less gain. The antenna has a gain of 5.0 dBi.

Frequency (MHz)	Measured Output Power (dBm)	Output Power (mW)
2402	- 26.8	0.002
2442	- 23.5	0.005
2480	- 17.9	0.016

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

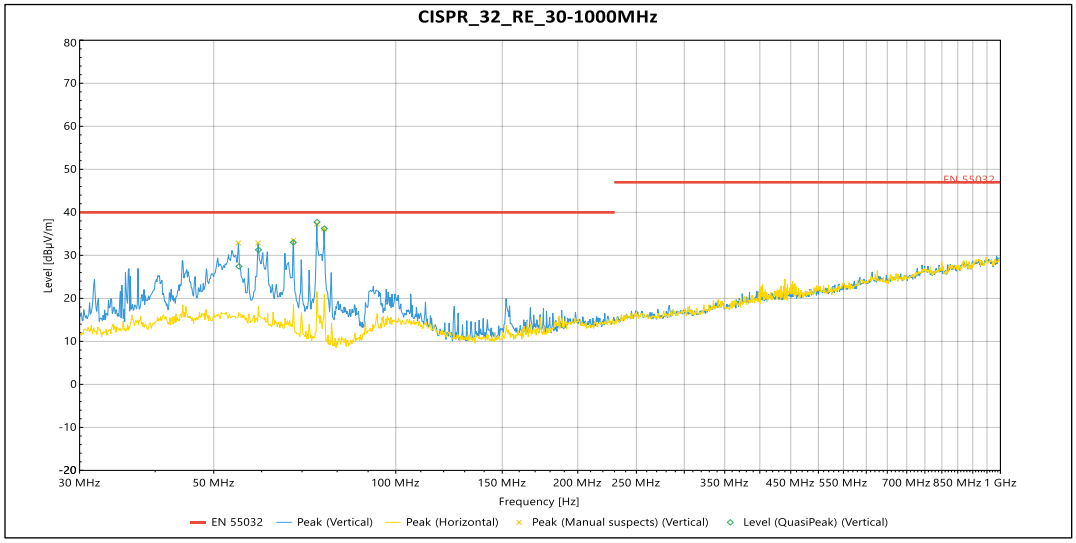
Conducted spurious emissions were attenuated 30 dB or more below the fundamental; therefore, the EUT complies with the specification.

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.

Result

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

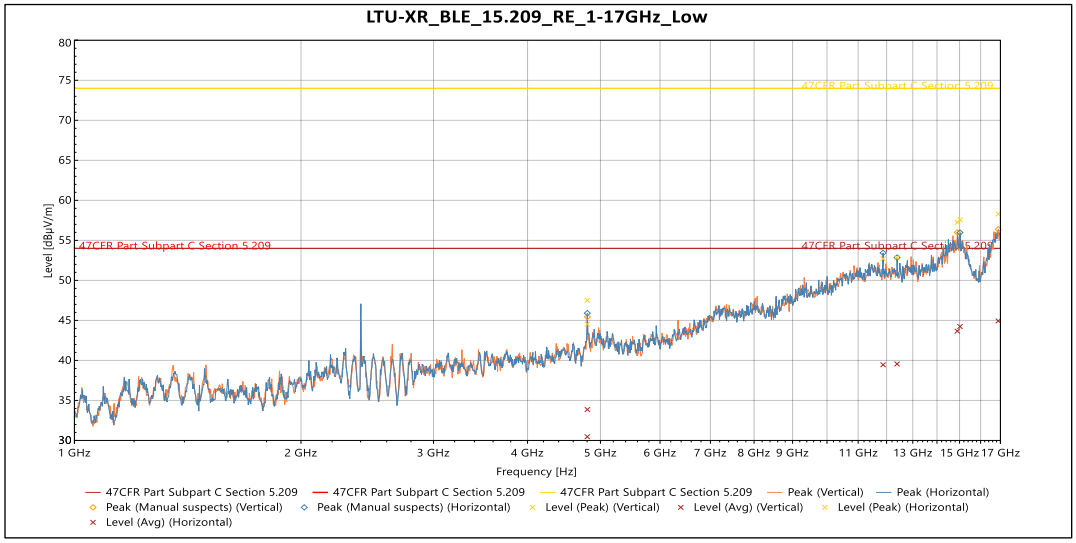


Vertical

Source	Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
QuasiPeak	55.046 MHz	27.43	40	-12.57	230	3.751	Vertical	-12.734
QuasiPeak	59.28 MHz	31.266	40	-8.734	113	3.983	Vertical	-13.298
QuasiPeak	67.692 MHz	33.008	40	-6.992	157	3.974	Vertical	-15.527
QuasiPeak	74.077 MHz	37.732	40	-2.268	93	3.955	Vertical	-18.014
QuasiPeak	76.184 MHz	36.207	40	-3.793	321	3.914	Vertical	-18.687

Horizontal: There were no significant emissions observed in this orientation of the antenna.

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	4.80355 GHz	47.499	74	-26.501	73	1.5	Vertical	-8.379
Peak	14.89855 GHz	57.252	74	-16.748	26	1.842	Vertical	9.705
Peak	16.8895 GHz	58.289	74	-15.711	141	2.142	Vertical	12.009

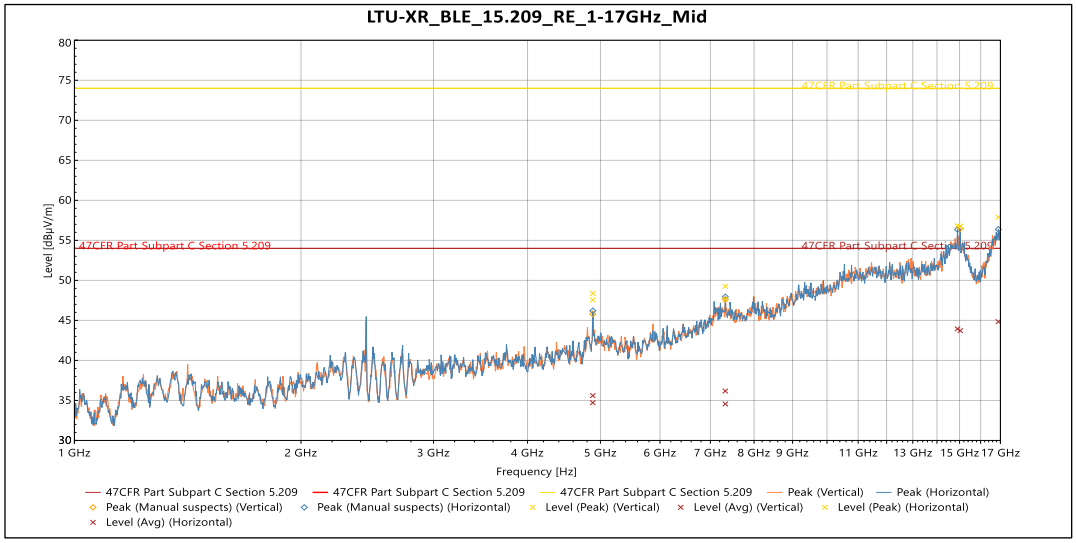
Source	Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Avg	4.80355 GHz	33.858	54	-20.142	73	1.5	Vertical	-8.379
Avg	14.89855 GHz	43.66	54	-10.34	26	1.842	Vertical	9.705
Avg	16.8895 GHz	44.931	54	-9.069	141	2.142	Vertical	12.009

Horizontal

Source	Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Peak	4.80255 GHz	44.514	74	-29.486	128	2.142	Horizontal	-8.365
Peak	11.8725 GHz	52.712	74	-21.288	207	3.648	Horizontal	6.249
Peak	12.3905 GHz	52.807	74	-21.193	305	3.802	Horizontal	6.098
Peak	15.0215 GHz	57.566	74	-16.434	257	3.307	Horizontal	10.254

Source	Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Avg	4.80255 GHz	30.456	54	-23.544	128	2.142	Horizontal	-8.365
Avg	11.8725 GHz	39.449	54	-14.551	207	3.648	Horizontal	6.249
Avg	12.3905 GHz	39.556	54	-14.444	305	3.802	Horizontal	6.098
Avg	15.0215 GHz	44.228	54	-9.772	257	3.307	Horizontal	10.254

Table 5: Radiated Emissions 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	4.8835 GHz	47.571	74	-26.429	78	1.847	Vertical	-8.332
Peak	7.32655 GHz	47.621	74	-26.379	350	2.142	Vertical	-1.819
Peak	15.0345 GHz	56.757	74	-17.243	163	2.645	Vertical	9.874

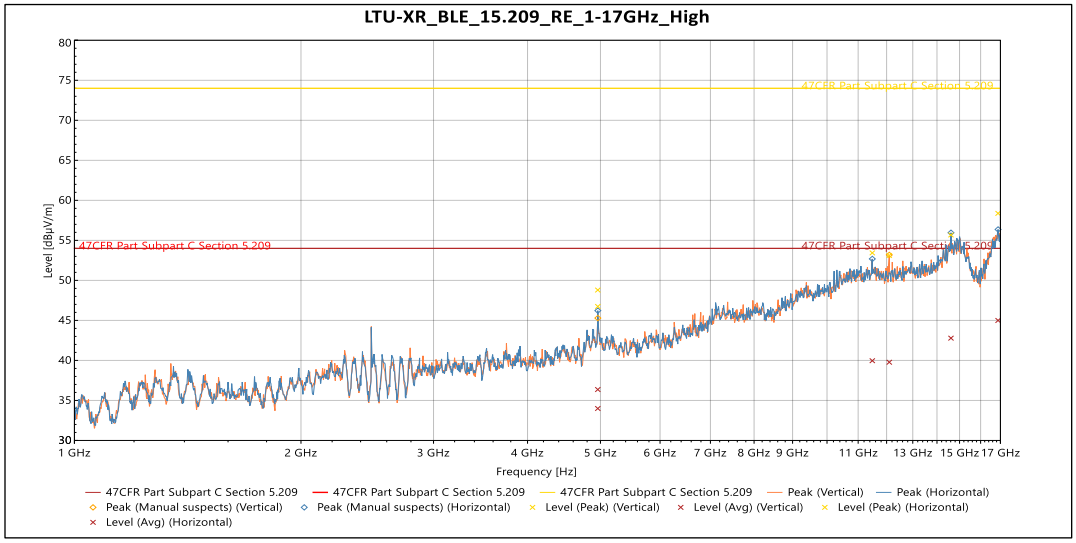
Source	Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Avg	4.8835 GHz	34.715	54	-19.285	78	1.847	Vertical	-8.332
Avg	7.32655 GHz	34.562	54	-19.438	350	2.142	Vertical	-1.819
Avg	15.0345 GHz	43.716	54	-10.284	163	2.645	Vertical	9.874

Horizontal

Source	Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Peak	4.8845 GHz	48.373	74	-25.627	44	4	Horizontal	-8.343
Peak	7.3255 GHz	49.256	74	-24.744	128	2.329	Horizontal	-1.797
Peak	14.9075 GHz	56.816	74	-17.184	298	2.146	Horizontal	10.081
Peak	16.89155 GHz	57.881	74	-16.119	106	1.643	Horizontal	11.982

Source	Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Avg	4.8845 GHz	35.602	54	-18.398	44	4	Horizontal	-8.343
Avg	7.3255 GHz	36.168	54	-17.832	128	2.329	Horizontal	-1.797
Avg	14.9075 GHz	43.944	54	-10.056	298	2.146	Horizontal	10.081
Avg	16.89155 GHz	44.837	54	-9.163	106	1.643	Horizontal	11.982

Table 6:Radiated Emissions 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	4.95955 GHz	46.742	74	-27.258	79	2.824	Vertical	-8.465
Peak	12.0995 GHz	53.111	74	-20.889	273	3.311	Vertical	6.723

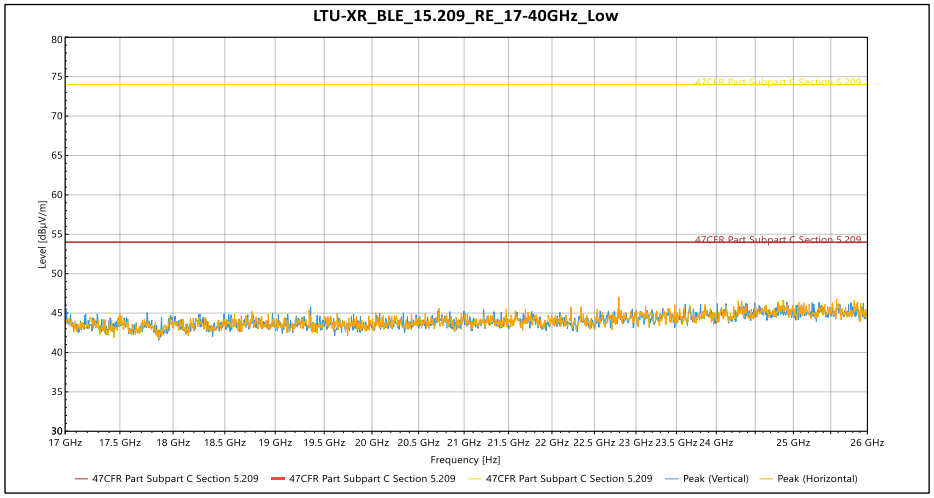
Source	Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Avg	4.95955 GHz	33.993	54	-20.007	79	2.824	Vertical	-8.465
Avg	12.0995 GHz	39.767	54	-14.233	273	3.311	Vertical	6.723

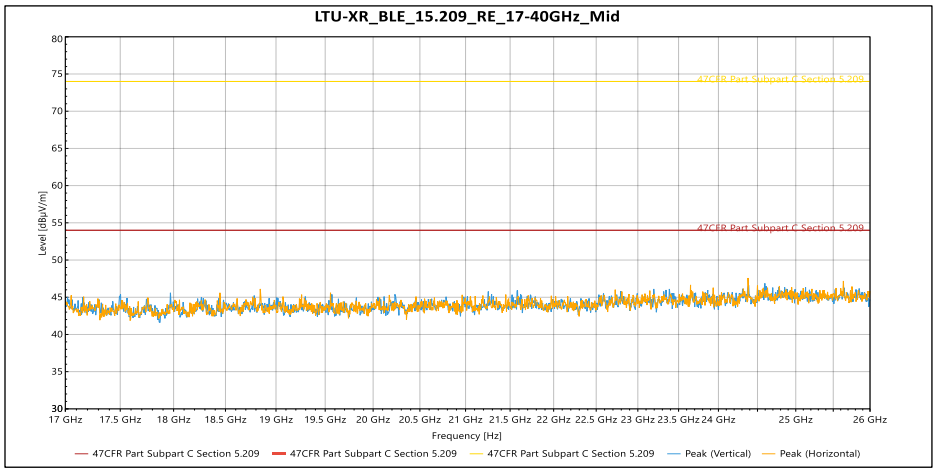
Horizontal

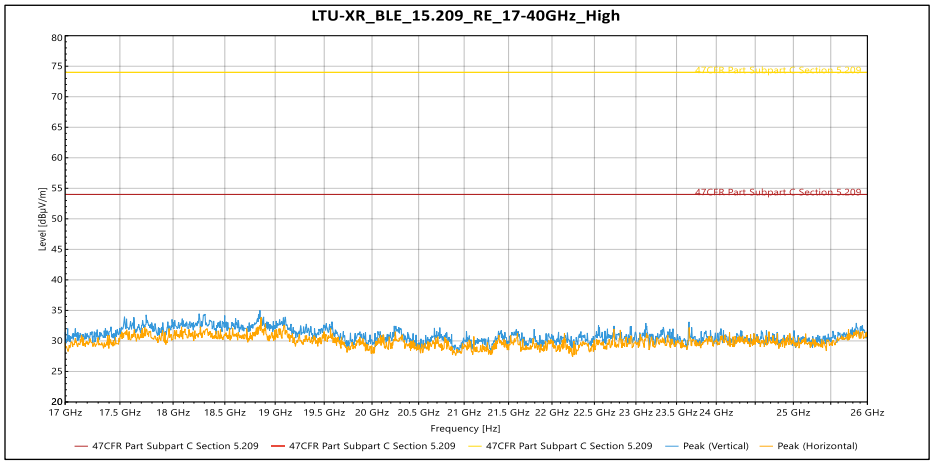
Source	Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Peak	4.95955 GHz	48.786	74	-25.214	42	3.307	Horizontal	-8.465
Peak	11.4865 GHz	53.433	74	-20.567	57	3.798	Horizontal	6.101
Peak	14.61255 GHz	55.665	74	-18.335	31	3.311	Horizontal	8.873
Peak	16.8775 GHz	58.368	74	-15.632	192	1.842	Horizontal	12.154

Source	Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
Avg	4.95955 GHz	36.365	54	-17.635	42	3.307	Horizontal	-8.465
Avg	11.4865 GHz	39.962	54	-14.038	57	3.798	Horizontal	6.101
Avg	14.61255 GHz	42.779	54	-11.221	31	3.311	Horizontal	8.873
Avg	16.8775 GHz	44.991	54	-9.009	192	1.842	Horizontal	12.154

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







Vertical: No significant emissions were observed in this frequency range.

Horizontal: No significant emissions were observed in this frequency range.

Table 8: Radiated Emissions Transmitting Low, Mid, High 17 – 40 GHz

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	- 32.41	8.0
2442	- 29.00	8.0
2480	- 23.54	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 --