



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-U6MESHR
ISED ID	6545A-U6MESHR
Equipment Under Test	U6-Mesh
Test Report Serial Number	TR6054_02
Date of Test(s)	3, 16 March 2021; 4, 11, 13 May 2021
Report Issue Date	18 May 2021

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



NVLAP LAB CODE 600241-0

Certification of Engineering Report

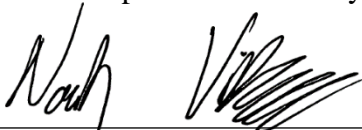
This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart E. This report may be reproduced in full. Partial reproduction of this report may only be made with 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	UniFi
Model Number	U6-Mesh
FCC ID	SWX-U6MESHR
ISED ID	6545A-U6MESHR

On this 18th day of May 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: Noah Vickers



Reviewed By: Alex Macon

Revision History		
Revision	Description	Date
01	Original Report Release	18 May 2021
02	Amended Sections 2.6 and 3.3.1	16 June 2021

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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	UniFi
Model Number	U6-Mesh
Serial Number	68D79A1F02AB
Dimensions (cm)	4.85 x 4.85 x 15.95

2.2 Description of EUT

The U6-Mesh is a four-stream WiFi 6 access point that provides up to 2.7 Gbps aggregate radio rate with 5 GHz (MU-MIMO and OFDMA) and 2.4 GHz (MIMO) radios. The U6-Mesh has a sleek design and is intended for indoor or outdoor use. The U6-Mesh has an Ethernet port for data transfer and is powered by an 803.2at PoE power adapter.

The table below shows the channels used in each band with the different modulation bandwidths.

Band	Modulation Bandwidth	Frequency (MHz)
UNII-1	20 MHz	5180, 5200, 5220, 5240
	40 MHz	5190, 5230
	80 MHz	5210
UNII-3	20 MHz	5745, 5765, 5785, 5805, 5825
	40 MHz	5755, 5795
	80 MHz	5775

This report covers the circuitry of the device subject to FCC Part 15, Subpart E. 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 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: UniFi MN: U6-Mesh (Note 1) SN: 68D79A1F02AB	WiFi Access Point	See Section 2.4
BN: Ubiquiti MN: U-POE-at	PoE Power Adapter	Shielded or Un-Shielded Cat 5e cable (Note 2)

SN: N/A		
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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
Ethernet/PoE	1	Shielded or Un-Shielded Cat 5e cable

2.5 Operating Environment

Power Supply	120 VAC to 48 Volts PoE Power
AC Mains Frequency	60 Hz
Temperature	21.1 – 25.2 °C
Humidity	15.95 – 28.82 %
Barometric Pressure	1012 mBar

2.6 Operating Modes

The U6-Mesh was connected to a personal computer laptop through the PoE Adapter. Test software was used in order to enable a constant duty cycle. The measurements within this report are corrected to reference a 100% duty cycle. Emissions modes of 802.11 a/n/ac/ax were investigated. All measurements are reports with the worst-case mode (802.11ax) unless otherwise stated.

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

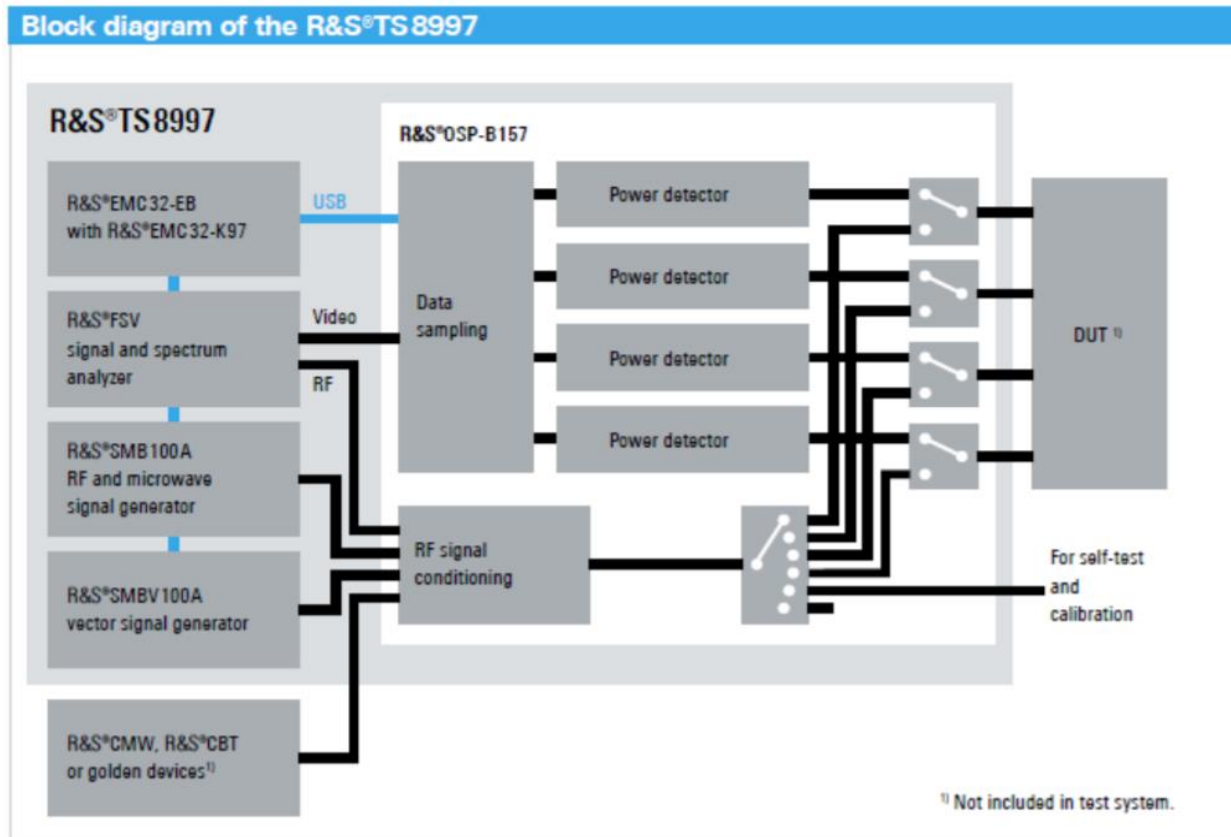


Diagram 1: Test Configuration Block Diagram

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 E, Section 15.407 Limits and methods of measurement of radio interference characteristics of Unlicensed National Information Infrastructure 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 15.407

See test standard for details.

3.3 FCC Part 15, Subpart E

3.3.1 Summary of Tests

FCC Section	ISED Section	Environmental Phenomena	Frequency Range (MHZ)	Result
15.407(a)	N/A	Antenna requirements	Structural Requirement	Compliant
15.407(b)	RSS-Gen	Conducted Disturbance at Mains Port	0.15 to 30	Compliant
15.407(c)	RSS-247 §6.2.2, §6.2.3	Bandwidth Requirement	5725 to 5850	Compliant
15.407(e)	RSS-247 §6.2.2, §6.2.3	Peak Output Power	5725 to 5850	Compliant
15.407(f)	RSS-247 §6.2.2, §6.2.3	Antenna Conducted Spurious Emissions	0.009 to 25000	N/A
15.407(g)	RSS-247 §6.2.2, §6.2.3	Radiated Spurious Emissions	0.009 to 25000	Compliant
15.407(h)	RSS-247 §6.2.2, §6.2.3	Peak Power Spectral Density	5725 to 5850	Compliant

The testing was performed according to the procedures in ANSI C63.10-2013, KDB 789033 and 47 CFR Part 15. Where applicable, KDB 662911 was used to sum the 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 10-Meter chamber 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 as 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	9/18/2021
LISN	AFJ	LS16C/10	UCL-2512	5/26/2020	5/26/2021
Cat6 ISN	Teseq	ISN T8-Cat6	UCL-2971	5/18/2020	5/18/2021
ISN	Teseq	ISN T800	UCL-2974	6/1/2020	6/1/2021
LISN	Com-Power	LIN-120C	UCL-2612	5/19/2020	5/19/2021
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

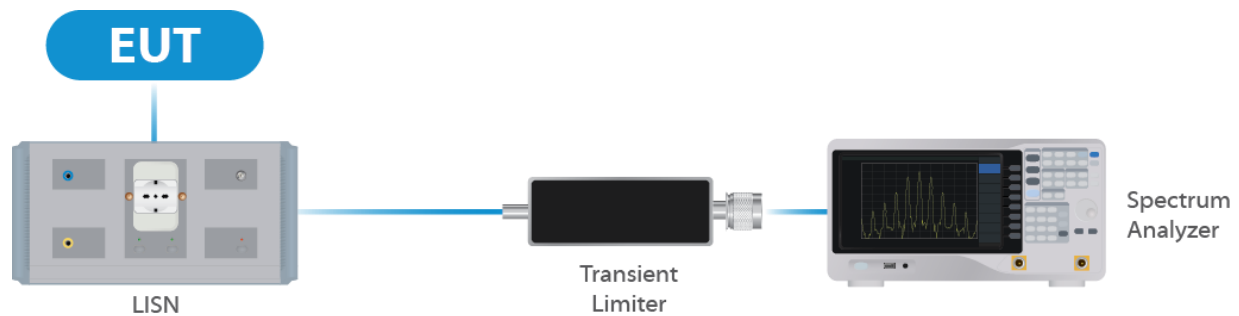


Figure 1: Conducted Emissions Test

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	8/25/2020	8/25/2021
Switch Extension	R&S	OSP-150W	UCL-2870	8/21/2020	8/21/2021

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

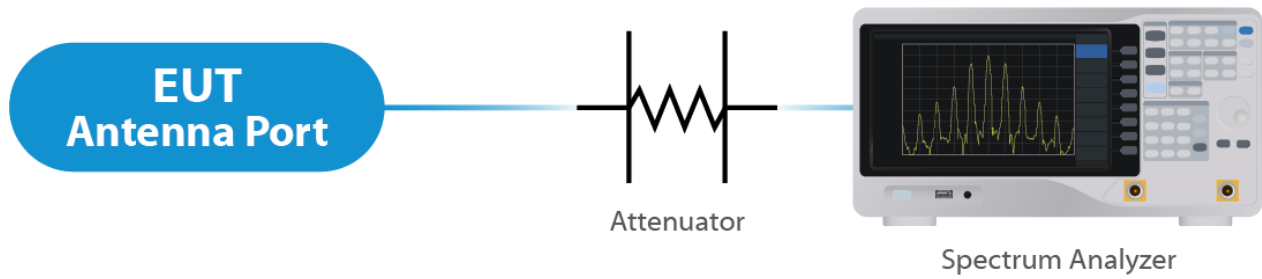


Figure 2: Direct Connect at the Antenna Port Test

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	6/1/2021
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	5/20/2020	5/20/2021
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	5/21/2020	5/21/2021
18 – 40 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

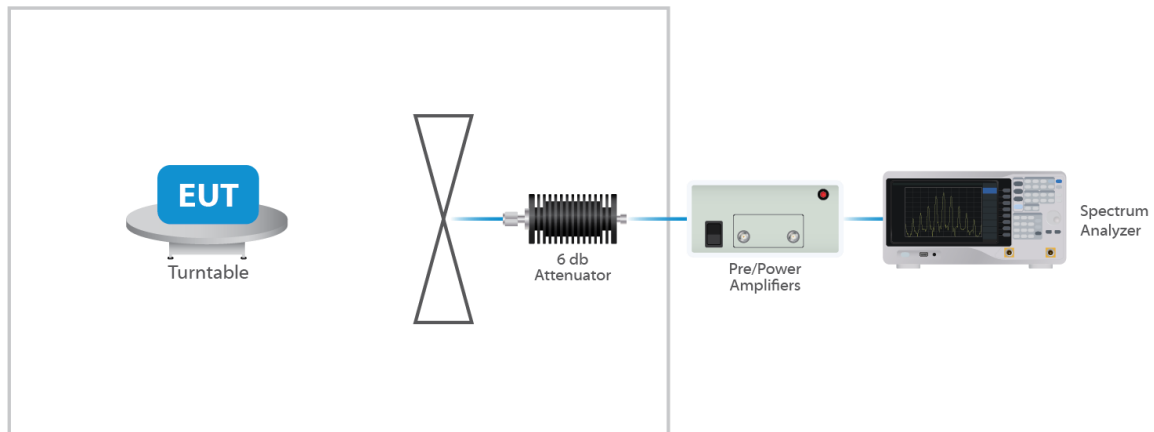


Figure 3: Radiated Emissions Test

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

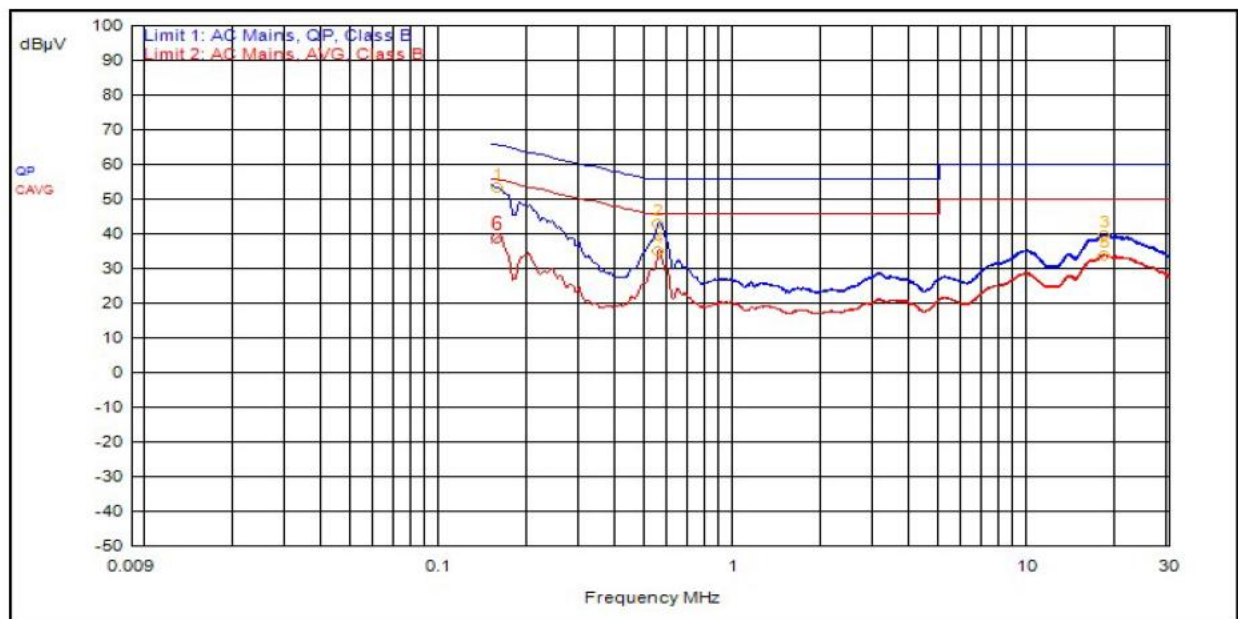
The EUT uses an integral antenna. The Maximum gain of the antenna is 5 dBi. The antenna is not user replaceable.

Results

The EUT complied with the specification

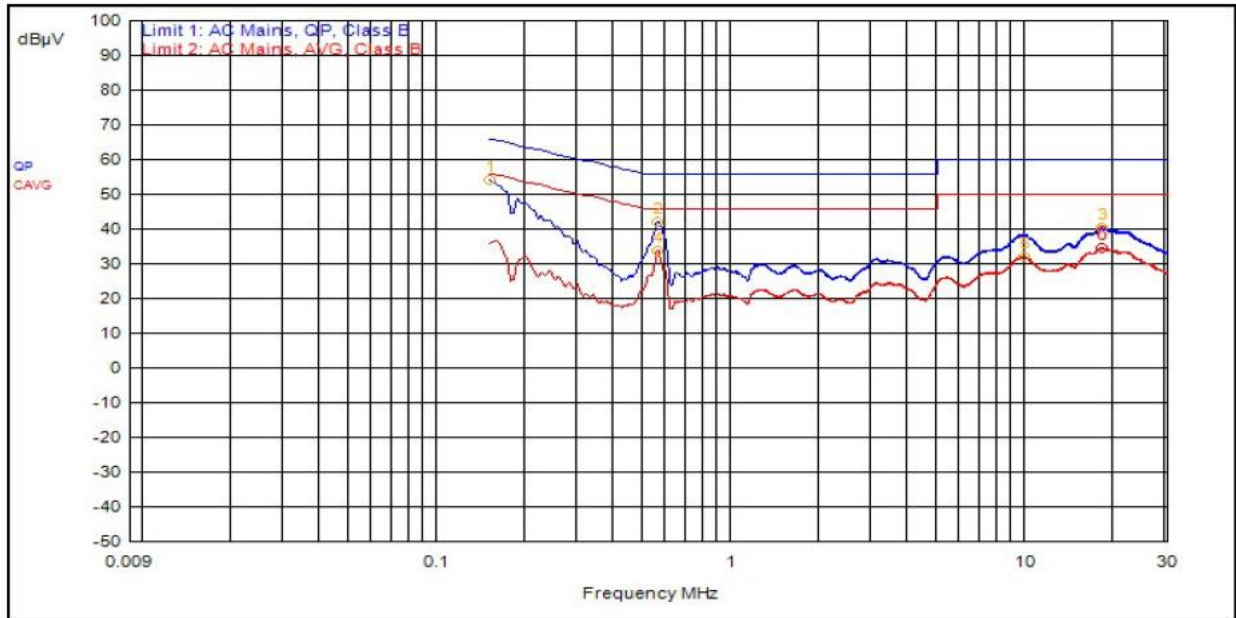
5.2 Conducted Emissions at Mains Ports Data

5.2.1 Line



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit	Limit Dist.
4	552.000kHz	12.4	0.0		C_AVG	22.7	35.1	46.0	-10.9
1	156.000kHz	12.4	0.0		QPeak	40.8	53.2	65.7	-12.4
2	552.000kHz	12.4	0.0		QPeak	30.7	43.1	56.0	-12.9
5	17.889MHz	12.3	0.2		C_AVG	21.4	33.9	50.0	-16.1
6	156.000kHz	12.4	0.0		C_AVG	26.4	38.8	55.7	-16.9
3	17.958MHz	12.3	0.2		QPeak	27.1	39.6	60.0	-20.4

5.2.2 Neutral



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit	Limit Dist.
1	150.000kHz	12.4	0.0		QPeak	41.7	54.1	66.0	-11.9
4	558.000kHz	12.4	0.0		C_AVG	21.5	33.9	46.0	-12.1
2	555.000kHz	12.4	0.0		QPeak	29.6	42.1	56.0	-13.9
6	17.835MHz	12.3	0.2		C_AVG	21.9	34.5	50.0	-15.5
5	9.723MHz	12.3	0.2		C_AVG	19.5	32.0	50.0	-18.0
3	18.036MHz	12.3	0.2		QPeak	27.7	40.3	60.0	-19.7

Result

The EUT complied with the specification limit.

5.3 §15.403(i) 26 dB Emissions Bandwidth

Nominal BW (MHz)	Frequency (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)
20	5745	19.1	21.6	19.3
20	5775	19.2	22.0	19.1
20	5825	19.1	22.1	19.2
40	5755	37.8	40.4	37.9
40	5775	37.8	39.9	37.3
40	5795	37.8	40.4	37.9
80	5775	77.5	82.0	76.5

Result

The 26 dB bandwidths are reported for information purposes. Please see Annex for all bandwidth measurements.

5.4 §15.403(a)(3) Maximum Average Output Power

The maximum average RF conducted output power measured for this device was 25.4 dBm or 346.74 mW. The limit is 30 dBm, or 1. The antenna has a gain of 5 dBi.

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power	Measured PSD
OFDM 20	5745	Mcs0	40	24.7	8
OFDM 20	5775	Mcs0	38	24	6.9
OFDM 20	5825	Mcs0	36	22.6	5.6
HT 20	5745	Mcs0	40	24.6	7.8
HT 20	5775	Mcs0	38	23.4	6.7
HT 20	5825	Mcs0	36	22.3	5.3
HT 40	5755	Mcs0	40	25.1	6.8
HT 40	5775	Mcs0	40	24.9	7
HT 40	5795	Mcs0	40	25	7
VHT 20	5745	Mcs0	40	24.5	7.8
VHT 20	5775	Mcs0	38	23.4	6.6
VHT 20	5825	Mcs0	36	22.2	5.2
VHT 40	5755	Mcs0	40	25	6.8
VHT 40	5775	Mcs0	40	24.9	6.8
VHT 40	5795	Mcs0	40	25	6.9
VHT 80	5775	Mcs0	41	25.4	4.7
HE 20	5745	Mcs0	40	25	8
HE 20	5775	Mcs0	38	24	7
HE 20	5825	Mcs0	36	22.9	5.6
HE 40	5755	Mcs0	40	25.2	6.8
HE 40	5775	Mcs0	40	25.1	6.6
HE 40	5795	Mcs0	40	25.2	6.7
HE 80	5775	Mcs0	40	25.1	4.1

Result

In the configuration tested, the maximum average RF outpower was less than 1 watt; therefore, the EUT compiled with the requirements of the specification (see data attached within Annex).

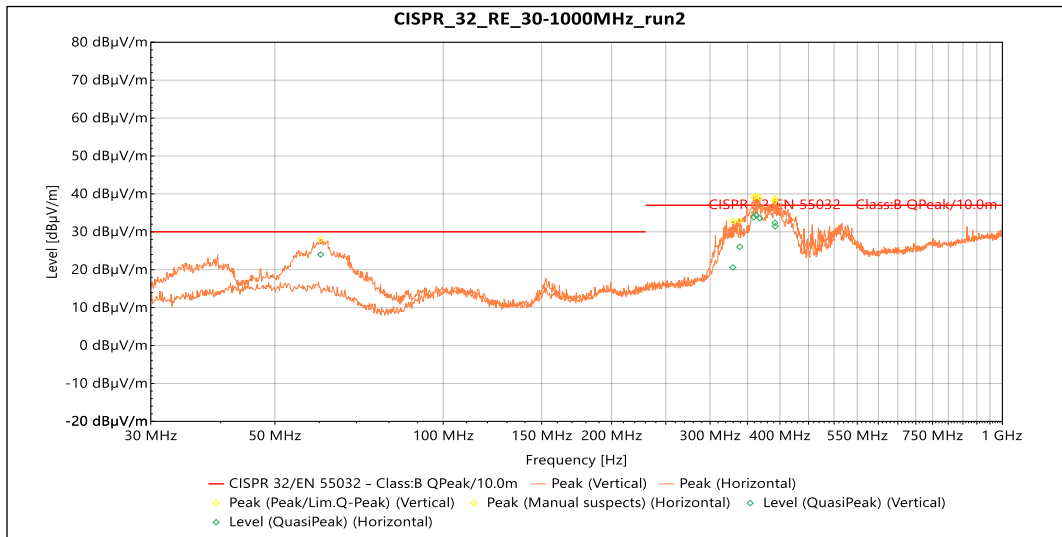
5.5 §15.407(b)(7) Spurious Emissions

5.5.1 Radiated Spurious Emissions in the Restricted Bands of § 15.205

The EUT uses various power settings based on the channel in use. In order to reduce test time, the radiated spurious emissions at the lowest, middle, and highest channel were measured at the maximum power of TP41.

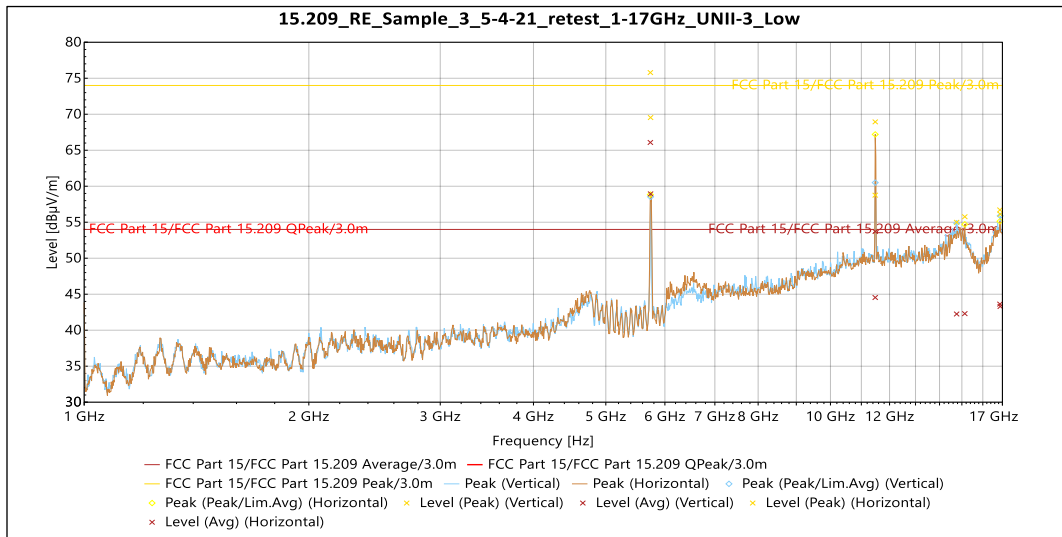
Result

All emissions in the restricted bands of § 15.205 met the limits specified in § 15.209; therefore, the EUT complies with the specification. See Annex for Conducted Band edge plots.



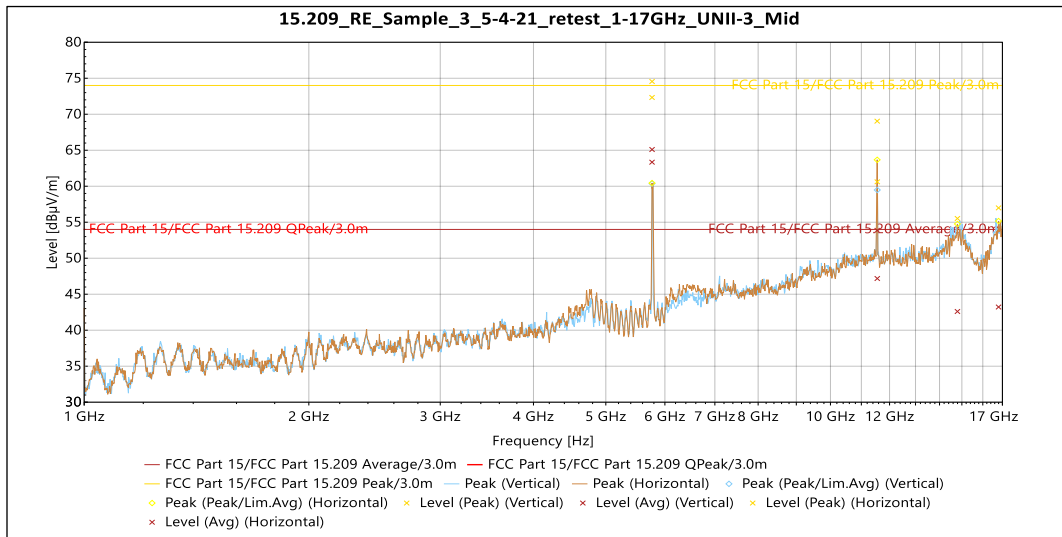
Frequency (MHz)	Det.	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarization	Correction (dB)
60.366	QP	24.005	30	-5.995	197	3.364	Vertical	-13.501
329.7	QP	20.569	37	-16.431	85	1.304	Vertical	-11.089
339.04	QP	26.006	37	-10.994	333	0.994	Vertical	-10.592
362.31	QP	34.472	37	-2.528	168	3.9	Vertical	-10.194
392.33	QP	31.485	37	-5.515	134	3.756	Vertical	-9.193
359.24	QP	33.842	37	-3.158	269	2.812	Horizontal	-10.362
368.35	QP	33.581	37	-3.419	269	2.697	Horizontal	-9.994
392.08	QP	32.41	37	-4.59	245	2.073	Horizontal	-9.2

Table 4: 30 MHz – 1 GHz



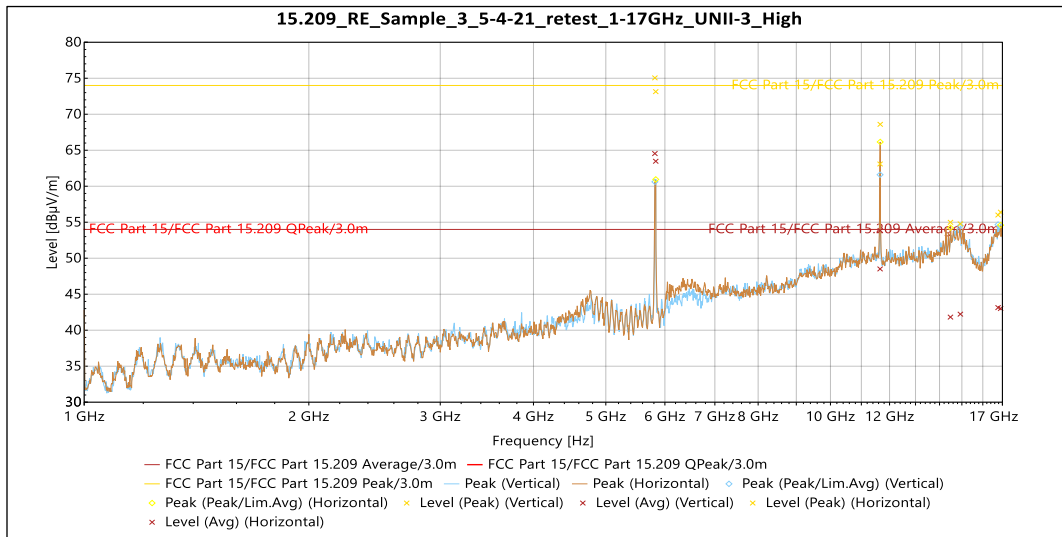
Frequency (GHz)	Det.	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarization	Correction (dB)
11.481	P	58.756	74	-15.244	231	1.647	Vertical	6.199
14.76	P	54.992	74	-19.008	337	1.5	Vertical	8.851
16.886	P	56.114	74	-17.886	7	2.164	Vertical	12.057
11.481	A	44.537	54	-9.463	231	1.647	Vertical	6.199
14.76	A	42.254	54	-11.746	337	1.5	Vertical	8.851
16.886	A	43.296	54	-10.704	7	2.164	Vertical	12.057
11.482	P	68.944	74	-5.056	118	2.15	Horizontal	6.181
15.136	P	55.765	74	-18.235	231	2.181	Horizontal	9.194
16.869	P	56.706	74	-17.294	123	1.643	Horizontal	11.967
11.482	A	53.707	54	-0.293	118	2.15	Horizontal	6.181
15.136	A	42.3	54	-11.7	231	2.181	Horizontal	9.194
16.869	A	43.629	54	-10.371	123	1.643	Horizontal	11.967

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



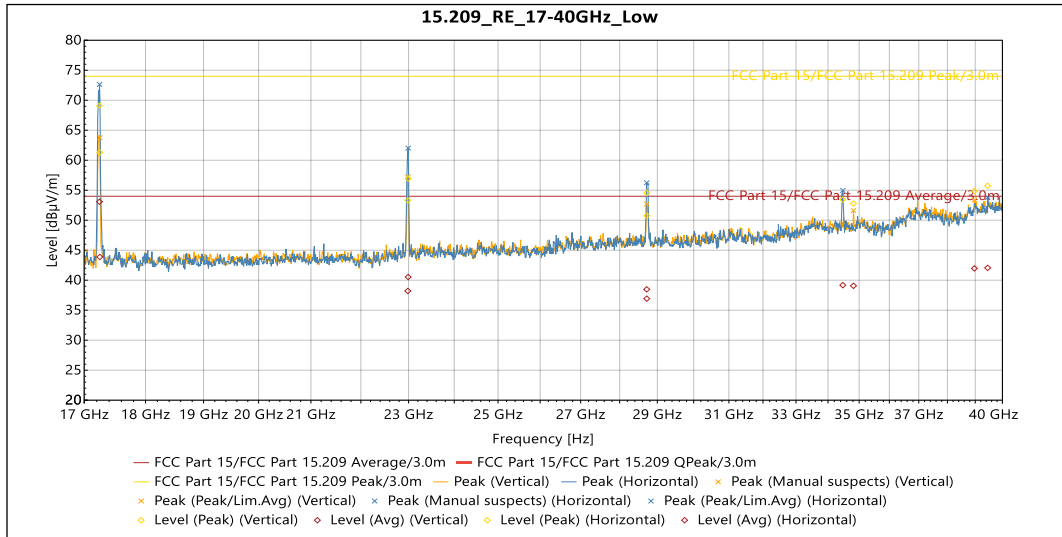
Frequency (GHz)	Det.	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarization	Correction (dB)
11.554	P	60.615	74	-13.385	22	3.162	Vertical	5.865
11.554	A	47.178	54	-6.822	22	3.162	Vertical	5.865
11.551	P	69.04	74	-4.96	193	2.15	Horizontal	5.862
14.796	P	55.524	74	-18.476	184	2.15	Horizontal	9.396
16.798	P	56.994	74	-17.006	5	1.647	Horizontal	11.525
11.551	A	53.866	54	-0.134	193	2.15	Horizontal	5.862
14.796	A	42.6	54	-11.4	184	2.15	Horizontal	9.396
16.798	A	43.217	54	-10.783	5	1.647	Horizontal	11.525

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



Frequency (GHz)	Det.	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarization	Correction (dB)
11.655	P	63.09	74	-10.91	19	2.808	Vertical	5.607
14.931	P	54.767	74	-19.233	234	3.798	Vertical	9.385
16.773	P	55.997	74	-18.003	338	3.298	Vertical	11.561
11.655	A	48.506	54	-5.494	19	2.808	Vertical	5.607
14.931	A	42.232	54	-11.768	234	3.798	Vertical	9.385
16.773	A	43.142	54	-10.858	338	3.298	Vertical	11.561
11.66	P	68.596	74	-5.404	242	1.5	Horizontal	5.742
14.481	P	54.987	74	-19.013	86	3.302	Horizontal	8.565
16.906	P	56.4	74	-17.6	29	2.786	Horizontal	11.598
11.66	A	53.858	54	-0.142	242	1.5	Horizontal	5.742
14.481	A	41.819	54	-12.181	86	3.302	Horizontal	8.565
16.906	A	43.012	54	-10.988	29	2.786	Horizontal	11.598

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



Frequency (GHz)	Det.	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Polarization	Correction (dB)
17.249	P	61.285	74	-12.715	122	Vertical	-5.668
22.984	P	53.302	74	-20.698	224	Vertical	-4.704
28.717	P	50.749	74	-23.251	200	Vertical	-4.971
34.816	P	52.778	74	-21.222	255	Vertical	1.053
38.969	P	54.856	74	-19.144	218	Vertical	3.038
17.249	A	43.869	54	-10.131	122	Vertical	-5.668
22.984	A	38.205	54	-15.795	224	Vertical	-4.704
28.717	A	36.933	54	-17.067	200	Vertical	-4.971
34.816	A	39.069	54	-14.931	255	Vertical	1.053
38.969	A	41.965	54	-12.035	218	Vertical	3.038
17.245	P	69.096	74	-4.904	60	Horizontal	-5.651
22.992	P	56.927	74	-17.073	207	Horizontal	-4.572
28.715	P	54.553	74	-19.447	204	Horizontal	-4.983
34.472	P	53.427	74	-20.573	235	Horizontal	0.323
39.453	P	55.74	74	-18.26	153	Horizontal	3.386
17.245	A	53.08	54	-0.92	60	Horizontal	-5.651
22.992	A	40.544	54	-13.456	207	Horizontal	-4.572
28.715	A	38.478	54	-15.522	204	Horizontal	-4.983
34.472	A	39.168	54	-14.832	235	Horizontal	0.323
39.453	A	42.06	54	-11.94	153	Horizontal	3.386

Table 8: 17 GHz – 40 GHz (Worst Case – Lowest Frequency)

5.6 §15.407(a) Maximum Power Spectral Density

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 30 dBm in any 500 kHz band during any time interval of continuous transmission. Results of this testing are summarized.

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Measured PSD
OFDM 20	5745	Mcs0	40	8
OFDM 20	5775	Mcs0	38	6.9
OFDM 20	5825	Mcs0	36	5.6
HT 20	5745	Mcs0	40	7.8
HT 20	5775	Mcs0	38	6.7
HT 20	5825	Mcs0	36	5.3
HT 40	5755	Mcs0	40	6.8
HT 40	5775	Mcs0	40	7
HT 40	5795	Mcs0	40	7
VHT 20	5745	Mcs0	40	7.8
VHT 20	5775	Mcs0	38	6.6
VHT 20	5825	Mcs0	36	5.2
VHT 40	5755	Mcs0	40	6.8
VHT 40	5775	Mcs0	40	6.8
VHT 40	5795	Mcs0	40	6.9
VHT 80	5775	Mcs0	41	4.7
HE 20	5745	Mcs0	40	8
HE 20	5775	Mcs0	38	7
HE 20	5825	Mcs0	36	5.6
HE 40	5755	Mcs0	40	6.8
HE 40	5775	Mcs0	40	6.6
HE 40	5795	Mcs0	40	6.7
HE 80	5775	Mcs0	40	4.1

Result

The maximum average power spectral density was less than the limit of 30 dBm; therefore, the EUT complies with the specification.

-- End of Test Report --