



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-UG3TE
ISED ID	6545A-UG3TE
Equipment Under Test	UTP-G3-Touch-Enterprise
Test Report Serial Number	TR8469_02
Date of Test(s)	3, 11, and 16 – 18 August 2023
Report Issue Date	1 May 2025

Test Specification	Applicant
47 CFR FCC Part 15, Subpart E	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.



NVLAP LAB CODE 600241-0

Certification of Engineering Report

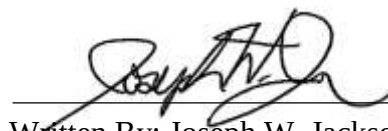
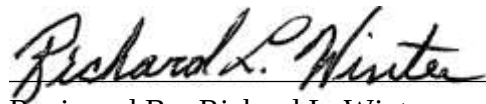
This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart E. This report may be reproduced in full. Partial reproduction of this report may only be made with 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	UBIQUITI
Model Number	UTP-G3-Touch-Enterprise
FCC ID	SWX-UG3TE
ISED ID	6545A-UG3TE

On this 1st day of May 2025, 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: Richard L. Winter

Revision History		
Revision	Description	Date
01	Original Report Release	8 September 2023
02	Change FCC and ISED ID Code, Model Name and Issue Date	1 May 2025

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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

1.2 Manufacturer

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

2 Equipment Under Test (EUT)

2.1 Identification of EUT

Brand Name	UBIQUITI
Model Number	UTP-G3-Touch-Enterprise
Serial Number	0418D6A3F63B
Dimensions (cm)	25.4 x 13.5 x 18.3

2.2 Description of EUT

The UniFi Talk Phone G3 Touch Enterprise (UTP-G3-Touch-Enterprise) is an 802.3at PoE+ powered desk phone with touch screen, camera and easy setup with UniFi Talk service via Bluetooth. The UTP-G3-Touch-Enterprise has an Ethernet port and WiFi connection with 2.4GHz and 5GHz radio. The UTP-Touch-Enterprise can also be powered via USB-C 5V DC power supply.

The table below show the channels used within the different modulation bandwidths.

Band	WiFi Mode	Modulation Bandwidth	Modulation Type	Frequency (MHz)
UNII-3	a	20 MHz	OFDM	5745, 5775, 5825
	ac	20 MHz	VHT	5745, 5775, 5825
	ac	40 MHz	VHT	5755, 5775, 5795
	ac	80 MHz	VHT	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 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: UTP-G3-Touch-Enterprise SN: 0418D6A3F63B	UniFi Telephone Set	See section 2.4
BN: Dell MN: XPS SN: N/A	Laptop Computer	USB Cable (See Note 2)
BN: Ubiquiti MN: E015-1G050300VU	USB-C Power Adapter	USB-C 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 Port	1	Unshielded Cat 5e Ethernet Cable
AC (PoE Injector)	1	3 Conductor power cord/80cm
AC (USB-C)	1	2 conductor/2 meters

2.5 Operating Environment

Power Supply	120 VAC to 48V PoE or USB-C Power
AC Mains Frequency	60 Hz
Temperature	23.0 – 26.5 °C
Humidity	120 VAC to 48V PoE or USB-C Power
Barometric Pressure	60 Hz

2.6 Operating Modes

The UTP-G3-Touch-Enterprise was tested using test software in order to enable a constant transmission. The measurements within this report are corrected to reference a 100% duty cycle. All emission modes of 802.11 a/ac were investigated. All measurements are reported with the worst-case mode (802.11ac) 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

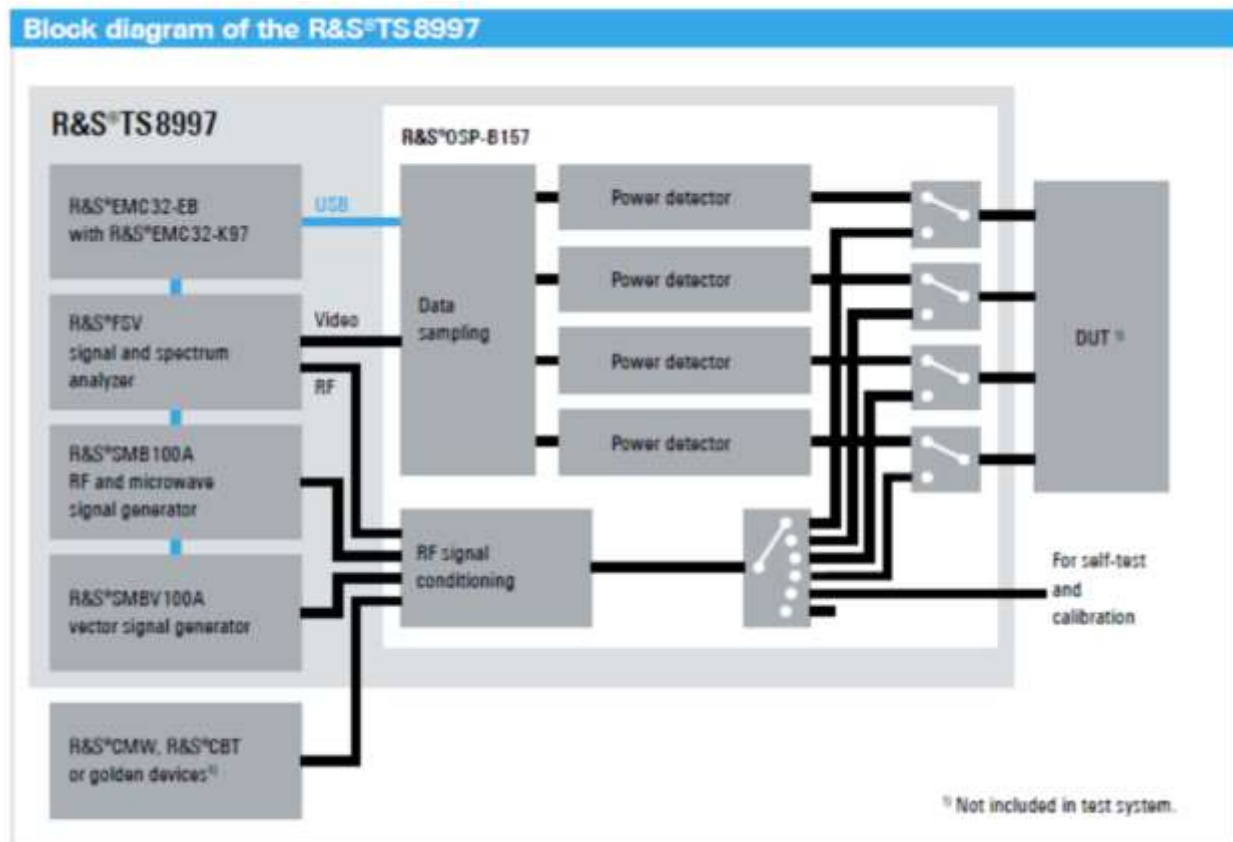


Diagram 1: Test Configuration Block Diagram

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 40000	N/A
15.407(g)	RSS-247 §6.2.2, §6.2.3	Radiated Spurious Emissions	0.009 to 40000	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 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 2024. 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 30 June 2024.

Unified Compliance Laboratory has been assigned Designation Number US5037 by the FCC 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-6754	2/22/2023	2/22/2024
LISN	AFJ	LS16C/10	UCL-6749	12/6/2021	12/6/2023
ISN	Teseq	ISN T800	UCL-2974	6/27/2022	6/27/2024
LISN	Com-Power	LIN-120C	UCL-2612	1/24/2023	1/24/2024
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

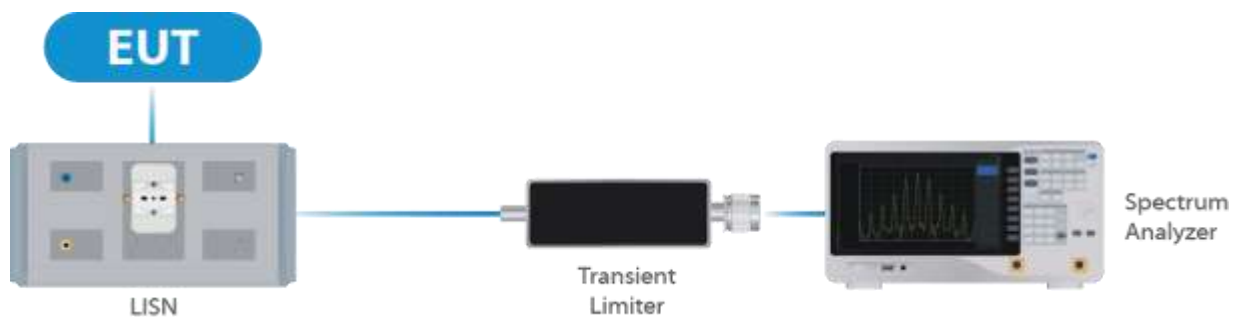


Figure 1: Conducted Emissions Test

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	11/7/2022	11/7/2023
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	2/22/2023	2/22/2024
Switch Extension	R&S	OSP-150W	UCL-2870	2/22/2023	2/22/2024

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

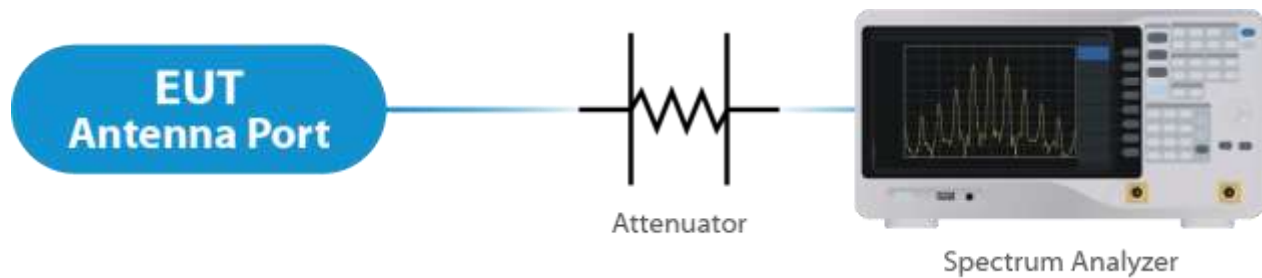


Figure 2: Direct Connect at the Antenna Port Test



Figure 3: Output Power Measurement

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	1/27/2023	1/27/2024
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	10/7/2021	10/7/2023
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3062	2/22/2023	2/22/2025
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3071	1/11/2023	1/11/2025
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	9/22/2022	9/22/2024
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	1/27/2023	1/27/2025
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	6/09/2022	6/09/2024
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	12/9/2022	12/9/2023
Test Software	UCL	Revision 1	UCL-3108	N/A	N/A

Table 3: List of equipment used for Radiated Emissions

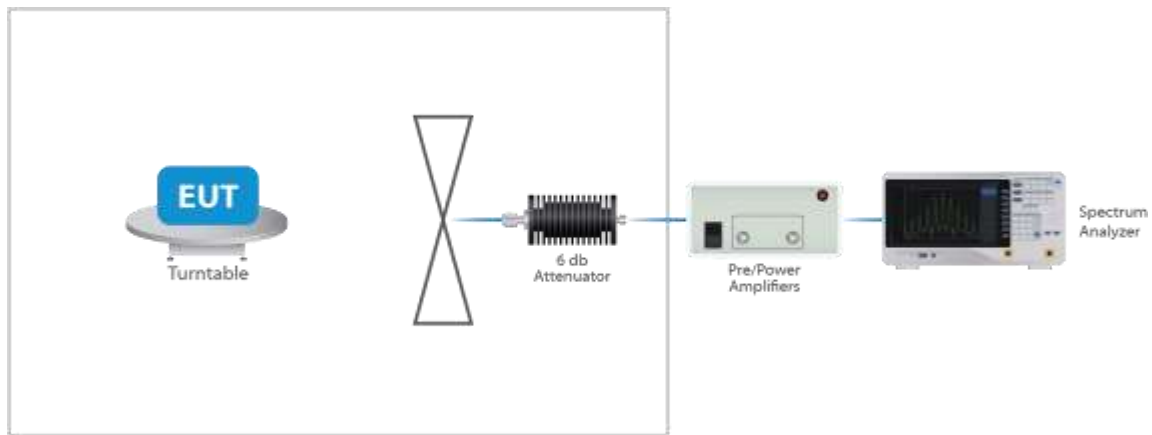


Figure 4: Radiated Emissions Test

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

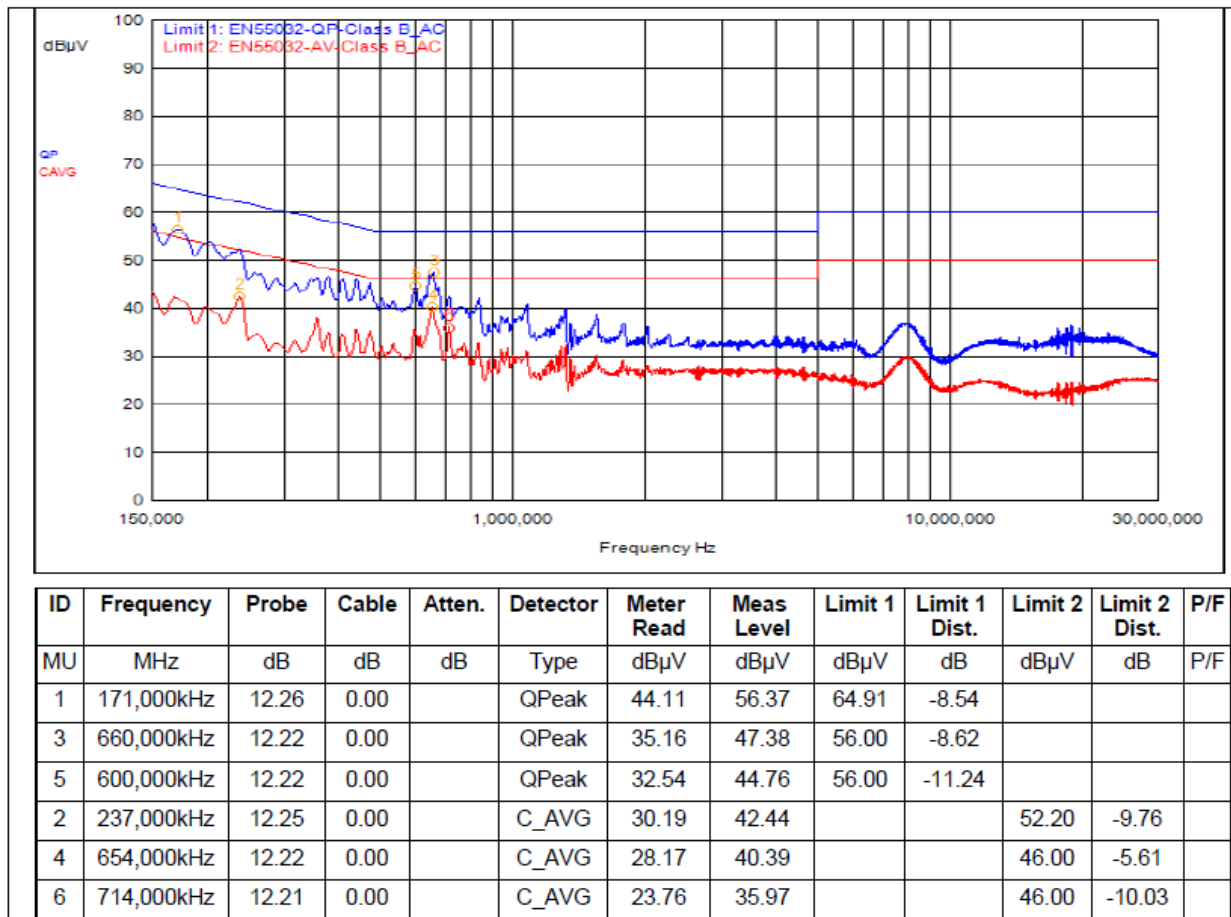
The EUT uses an integrated antenna structure. Per the manufacturer, the maximum gain of the antenna per chain is 4.2 dBi. This is an 802.11 device and utilizes CDD as described in KDB 662911 D01. The antenna is not user replaceable.

Results

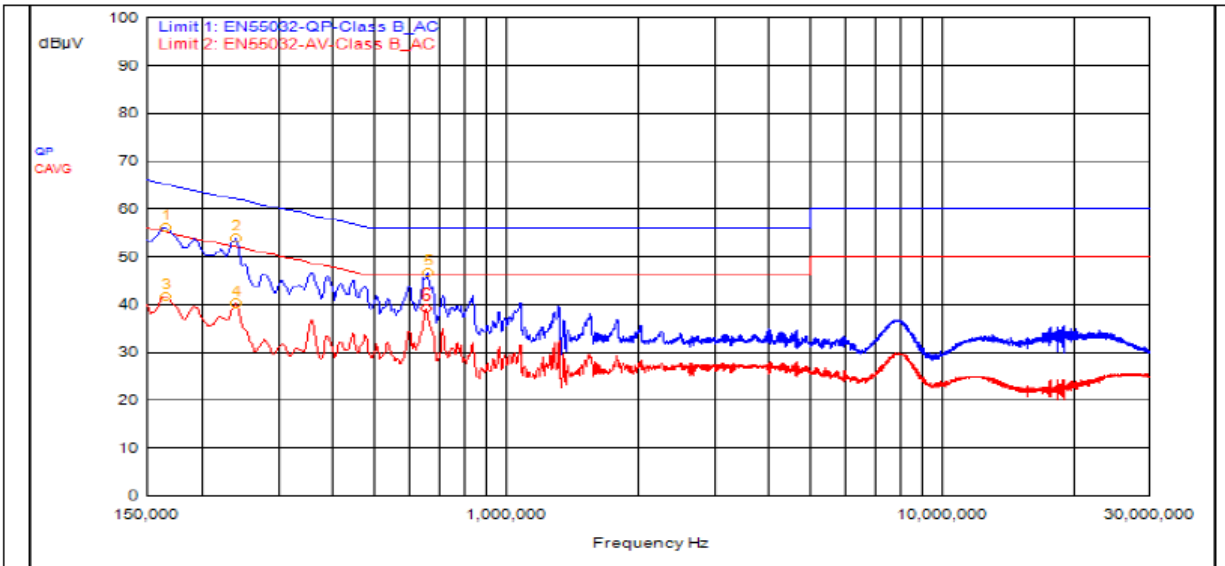
The EUT complied with the specification

5.2 Conducted Emissions at Mains Ports Data

5.2.1 Line



5.2.2 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
2	240,000kHz	12.32	0.00		QPeak	41.47	53.79	62.10	-8.31			
1	165,000kHz	12.23	0.00		QPeak	43.92	56.15	65.21	-9.06			
5	660,000kHz	12.17	0.00		QPeak	34.52	46.69	56.00	-9.31			
3	165,000kHz	12.23	0.00		C_AVG	29.50	41.73			55.21	-13.47	
4	240,000kHz	12.32	0.00		C_AVG	27.95	40.27			52.10	-11.83	
6	654,000kHz	12.17	0.00		C_AVG	27.03	39.20			46.00	-6.80	

Result

The EUT complied with the specification limit.

5.3 §15.403(i) 26 dB Emissions Bandwidth

All chains were measured under the guidance of KDB 789033 Section II.C. and KDB 66291 D01. Please see associated annex for details on instrument settings.

Nominal BW (MHz)	Frequency (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)
20	5745	24.2	41.5
20	5765	27.1	42.2
20	5825	25.1	43.7
20	5745	27.3	42.8
20	5765	26.7	47.7
20	5825	26.0	46.6
40	5755	53.0	88.5
40	5775	51.3	92.5
40	5795	54.0	86.2
80	5775	86.0	183.5

Result

All chains were tested and the highest bandwidth per chain is reported above.

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

5.4 §15.407(a)(3) Maximum Average Output Power

All chains were measured and summed under the guidance of KDB 789033 Section II. E.2. and KDB 66291 D01. Please see associated annex for details on instrument settings.

The maximum average RF conducted output power measured for this device was 16.59 dBm or 45.60 mW. The limit is 30 dBm, or 1 Watt when using antennas with 6 dBi or less gain. The antenna has a gain of 4.2 dBi.

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power *	Measured EIRP	Measured PSD
OFDM 20	5745	Mcs0	20	16.55	20.75	-0.33
OFDM 20	5775	Mcs0	20	16.45	20.65	-0.42
OFDM 20	5825	Mcs0	20	16.41	20.61	-0.74
VHT 20	5745	Mcs0	20	16.45	20.65	0.05
VHT 20	5775	Mcs0	20	16.59	20.79	0.00
VHT 20	5825	Mcs0	20	16.40	20.60	-0.17
VHT 40	5755	Mcs0	20	16.43	20.63	-3.50
VHT 40	5775	Mcs0	20	16.47	20.67	-3.78
VHT 40	5795	Mcs0	20	16.38	20.58	-3.81
VHT 80	5775	Mcs0	20	16.12	20.32	-5.26

Result

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

* Gated EIRP shown in the Annex is the conducted measurement

5.5 §15.407(b)(7) Spurious Emissions

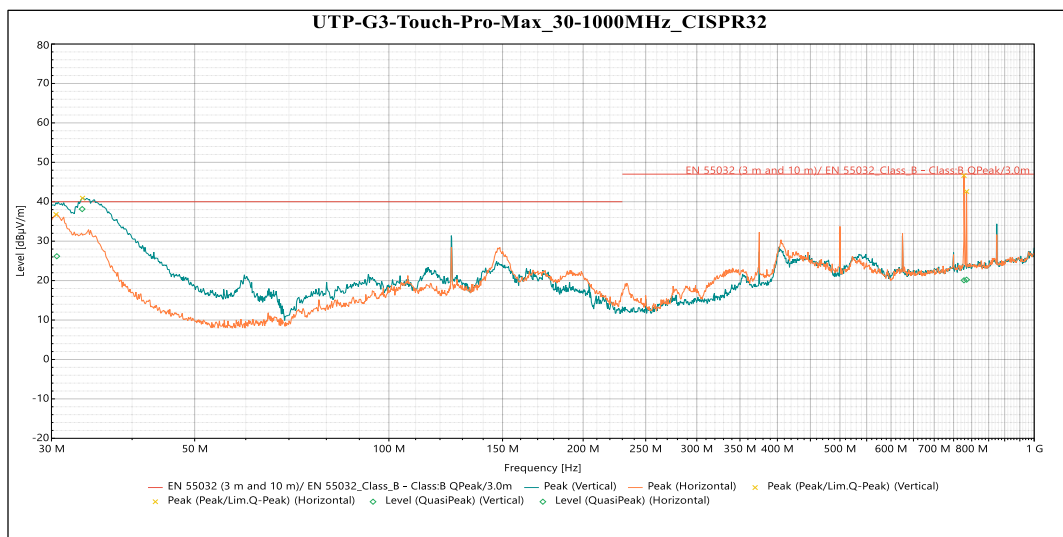
5.5.1 Radiated Spurious Emissions in the Restricted Bands of § 15.205

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 TP20. All emissions modes were tested, and the worst-case measurement are shown below. For frequencies above 1 GHz, a measurement of 3 meters was used. For frequencies below 1 GHz, a measurement distance of 10 meters was used.

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

Result

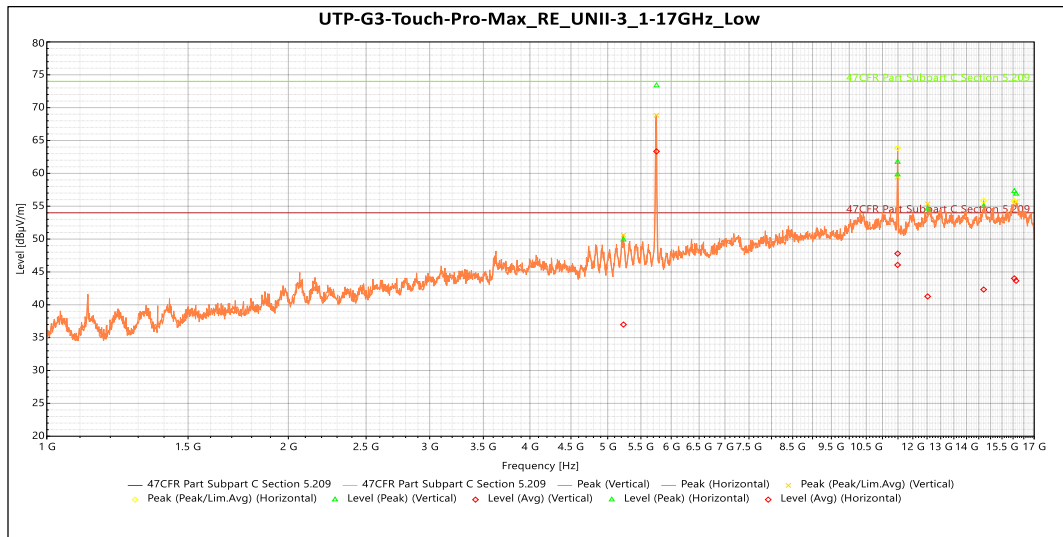
All emissions in the restricted bands of § 15.205 met the limits specified in § 15.209; therefore, the EUT complies with the specification. See Annex for Conducted Band edge plots.



QuasiPeak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
33.471 MHz	38.136	40	-1.864	192	1	Vertical	-9.673
30.577 MHz	26.176	40	-13.824	243	1.138	Horizontal	-8.105
778.43 MHz	20.085	47	-26.915	244	1.677	Horizontal	-5.11
785.71 MHz	20.231	47	-26.769	88	3.121	Horizontal	-5.112

Table 4: Spurious Emissions 30 – 1000 MHz



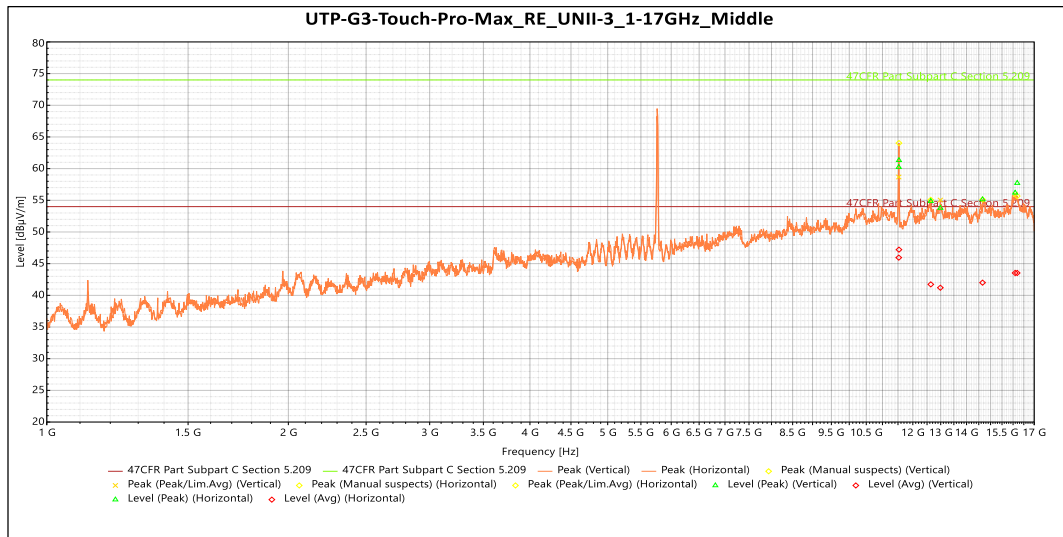
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
5.2315 GHz	49.898	74	-24.102	27	1.5	Vertical	-1.625
11.489 GHz	61.726	74	-12.274	152	2.142	Vertical	7.818
12.522 GHz	54.608	74	-19.392	114	1.643	Vertical	9.867
16.138 GHz	56.879	74	-17.121	244	3.153	Vertical	12.979
11.488 GHz	59.805	74	-14.195	193	2.325	Horizontal	7.818
14.705 GHz	54.99	74	-19.01	227	2.65	Horizontal	11.629
16.058 GHz	57.291	74	-16.709	179	1.638	Horizontal	12.645

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
5.2315 GHz	36.987	54	-17.013	27	1.5	Vertical	-1.625
11.489 GHz	47.787	54	-6.213	152	2.142	Vertical	7.818
12.522 GHz	41.269	54	-12.731	114	1.643	Vertical	9.867
16.138 GHz	43.654	54	-10.346	244	3.153	Vertical	12.979
11.488 GHz	46.064	54	-7.936	193	2.325	Horizontal	7.818
14.705 GHz	42.318	54	-11.682	227	2.65	Horizontal	11.629
16.058 GHz	44.016	54	-9.984	179	1.638	Horizontal	12.645

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



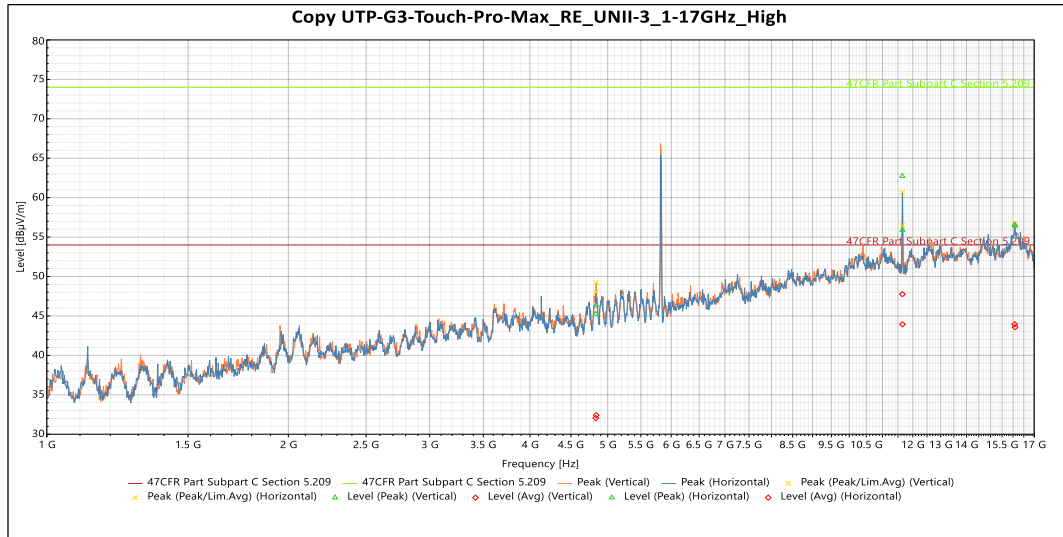
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.526 GHz	60.244	74	-13.756	181	3.802	Vertical	7.834
12.987 GHz	53.789	74	-20.211	190	2.82	Vertical	10.707
14.659 GHz	55.126	74	-18.874	107	3.311	Vertical	11.181
16.095 GHz	56.182	74	-17.818	287	3.802	Vertical	12.842
11.532 GHz	61.317	74	-12.683	195	2.329	Horizontal	7.816
12.636 GHz	54.868	74	-19.132	117	2.146	Horizontal	9.88
16.191 GHz	57.719	74	-16.281	95	4	Horizontal	13.262

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.526 GHz	45.951	54	-8.049	181	3.802	Vertical	7.834
12.987 GHz	41.202	54	-12.798	190	2.82	Vertical	10.707
14.659 GHz	42.001	54	-11.999	107	3.311	Vertical	11.181
16.095 GHz	43.527	54	-10.473	287	3.802	Vertical	12.842
11.532 GHz	47.207	54	-6.793	195	2.329	Horizontal	7.816
12.636 GHz	41.727	54	-12.273	117	2.146	Horizontal	9.88
16.191 GHz	43.532	54	-10.468	95	4	Horizontal	13.262

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



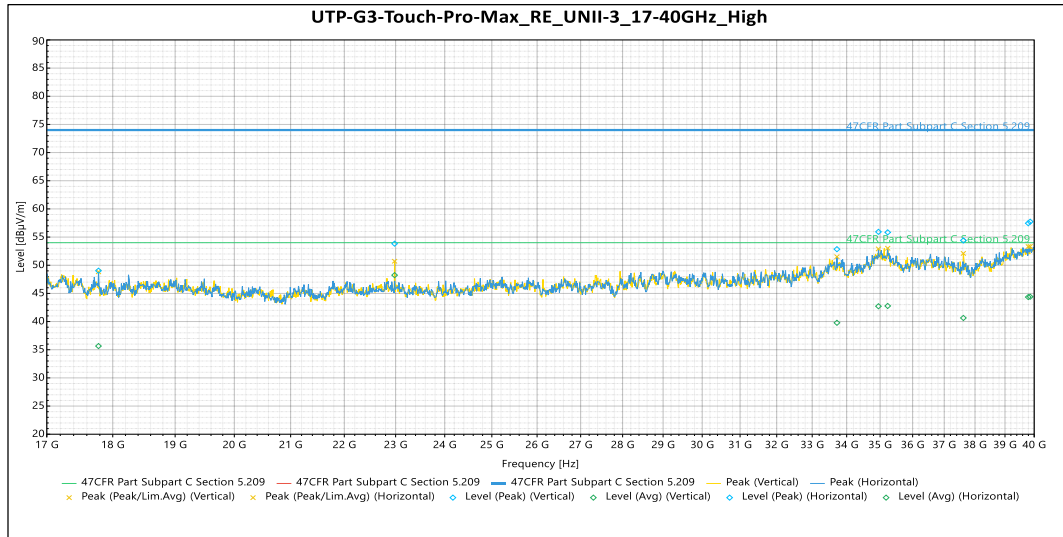
Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
4.839 GHz	46.343	74	-27.657	225	1.5	Vertical	-3.478
11.65 GHz	55.876	74	-18.124	152	2.65	Vertical	7.812
16.094 GHz	56.435	74	-17.565	308	1.643	Vertical	12.838
4.8318 GHz	45.243	74	-28.757	175	3.802	Horizontal	-3.455
11.646 GHz	62.727	74	-11.273	219	2.324	Horizontal	7.806
16.074 GHz	56.576	74	-17.424	187	4	Horizontal	12.75

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
4.839 GHz	32.406	54	-21.594	225	1.5	Vertical	-3.478
11.65 GHz	43.937	54	-10.063	152	2.65	Vertical	7.812
16.094 GHz	43.582	54	-10.418	308	1.643	Vertical	12.838
4.8318 GHz	32.043	54	-21.957	175	3.802	Horizontal	-3.455
11.646 GHz	47.755	54	-6.245	219	2.324	Horizontal	7.806
16.074 GHz	43.948	54	-10.052	187	4	Horizontal	12.75

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



Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
22.98 GHz	53.831	74	-20.169	96	Vertical	-1.861
35.231 GHz	55.841	74	-18.159	114	Vertical	5.321
37.619 GHz	54.399	74	-19.601	207	Vertical	3.555
39.861 GHz	57.73	74	-16.27	348	Vertical	6.431
17.779 GHz	49.031	74	-24.969	145	Horizontal	-2.096
33.715 GHz	52.853	74	-21.147	126	Horizontal	2.695
34.95 GHz	55.927	74	-18.073	195	Horizontal	5.359
39.795 GHz	57.463	74	-16.537	75	Horizontal	6.372

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
22.98 GHz	48.236	54	-5.764	96	Vertical	-1.861
35.231 GHz	42.768	54	-11.232	114	Vertical	5.321
37.619 GHz	40.64	54	-13.36	207	Vertical	3.555
39.861 GHz	44.41	54	-9.59	348	Vertical	6.431
17.779 GHz	35.654	54	-18.346	145	Horizontal	-2.096
33.715 GHz	39.775	54	-14.225	126	Horizontal	2.695
34.95 GHz	42.718	54	-11.282	195	Horizontal	5.359
39.795 GHz	44.348	54	-9.652	75	Horizontal	6.372

Table 8: Transmitting on the Highest Frequency 17 – 40 GHz (worse case)

5.6 §15.407(a) Maximum Power Spectral Density

All chains were measured and summed under the guidance of KDB 789033 Section II. F. and KDB 66291 D01. Please see associated annex for details on instrument settings.

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	Conducted Output Power *	Measured EIRP	Measured PSD
OFDM 20	5745	Mcs0	20	16.55	20.75	-0.33
OFDM 20	5775	Mcs0	20	16.45	20.65	-0.42
OFDM 20	5825	Mcs0	20	16.41	20.61	-0.74
VHT 20	5745	Mcs0	20	16.45	20.65	0.05
VHT 20	5775	Mcs0	20	16.59	20.79	0.00
VHT 20	5825	Mcs0	20	16.40	20.60	-0.17
VHT 40	5755	Mcs0	20	16.43	20.63	-3.50
VHT 40	5775	Mcs0	20	16.47	20.67	-3.78
VHT 40	5795	Mcs0	20	16.38	20.58	-3.81
VHT 80	5775	Mcs0	20	16.12	20.32	-5.26

Result

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

-- End of Test Report --