



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-UG3TE
IC ID	6545A-UG3TE
Equipment Under Test	UTP-G3-Touch-Enterprise
Test Report Serial Number	TR9999_01
Date of Test(s)	12-13 May 2025
Report Issue Date	13 May 2025

Test Specification	Applicant
47 CFR FCC Part 15, Subpart C RSS-210	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	UTP-G3-Touch-Enterprise
FCC ID	SWX-UG3TE
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On this 13th 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. Unified Compliance laboratory is not responsible for incorrect information provided by the manufacturer.

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: Clay Allred



Reviewed By: Richard L. Winter

Revision History		
Revision	Description	Date
01	Original Report Release	13 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.

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: 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 SN: N/A	USB-C Power Adapter	USB-C 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
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	21.0 – 24.5 °C
Humidity	29 – 39 %
Barometric Pressure	1007 mb

2.6 Operating Modes

The UTP-G3-Touch-Enterprise was connected to a personal computer laptop and tested using test software in order to enable to constant transmission of the NFC transceiver, in addition to a color wheel rotating to ensure NFC signal transmitted continuously.

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

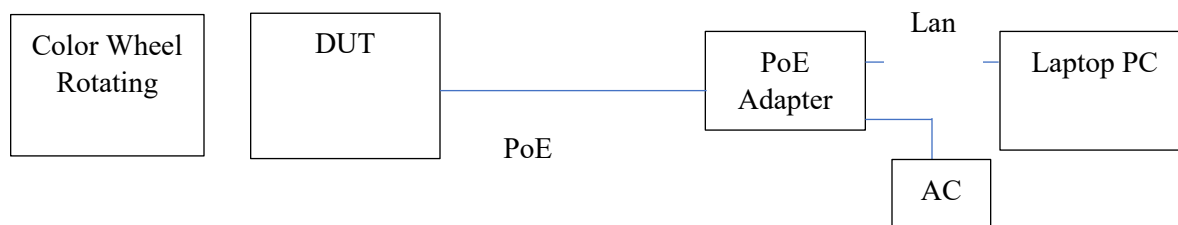


Diagram 1: Test Configuration Block Diagram

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

Only temperature stability was performed as the device is powered via a USB-C plug, and/or PoE input, with no means of varying the input voltage and maintain functionality.

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 15.225

See test standard for details.

3.2.2 RSS-210

See test standard for details.

3.3 FCC Part 15, Subpart C, RSS-210

3.3.1 Summary of Tests

FCC Section	ISED Section	Environmental Phenomena	Frequency Range (MHZ)	Result
15.225	RSS-210	Bandwidth Requirement	13.110 to 13.567	Compliant
15.225	RSS-210	Peak Output Power	13.110 to 13.567	Compliant
15.225	RSS-210	Spurious Emissions	13.110 to 13.567	Compliant
15.225	RSS-210	Radiated Spurious Emissions	0.009 to 1000	Compliant
The testing was performed according to the procedures in ANSI C63.10-2013, KDB 558074 and 47 CFR Part 15.				

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 2025. 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 2025.

Unified Compliance Laboratory has been assigned Designation Number US5037 by the FCC and Conformity Assessment Number US0223 by ISED.

4 Test Equipment

4.1 Radiated Emissions

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	Keysight	N9038A	UCL-2778	12/27/2024	12/27/2025
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	1/19/2024	1/19/2026
Broadband Antenna	ETS-Lindgren	3142E	UCL-9782	2/6/2025	2/6/2026
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
10 - 40 GHz Horn Antenna	ETS-Lindgren	3116C	UCL-7209	6/6/2024	6/6/2026
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	7/2/2024	7/2/2025
Test Software	Nexio	BatEMC	UCL-5253 & UCL-5249	N/A	N/A

Table 1: List of equipment used for Radiated Emissions

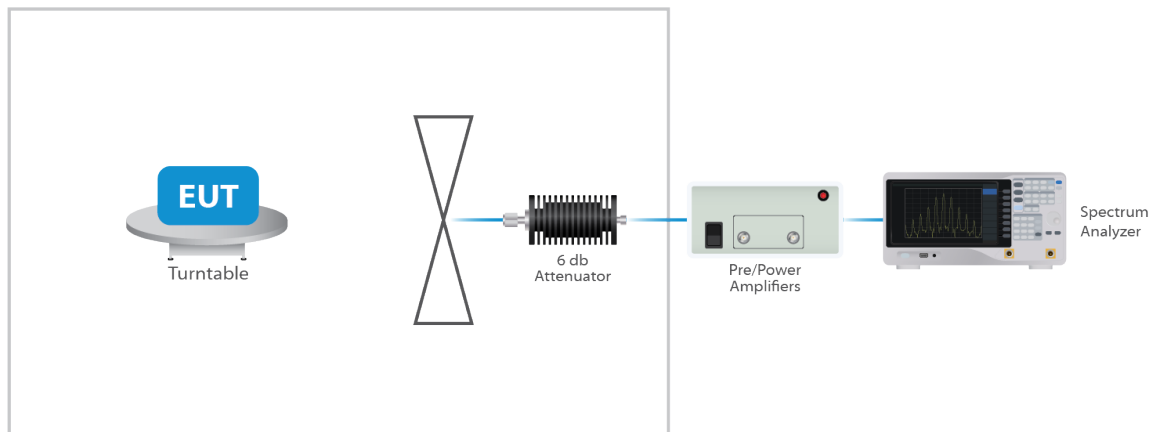


Figure 1: Radiated Emissions Test

4.2 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.

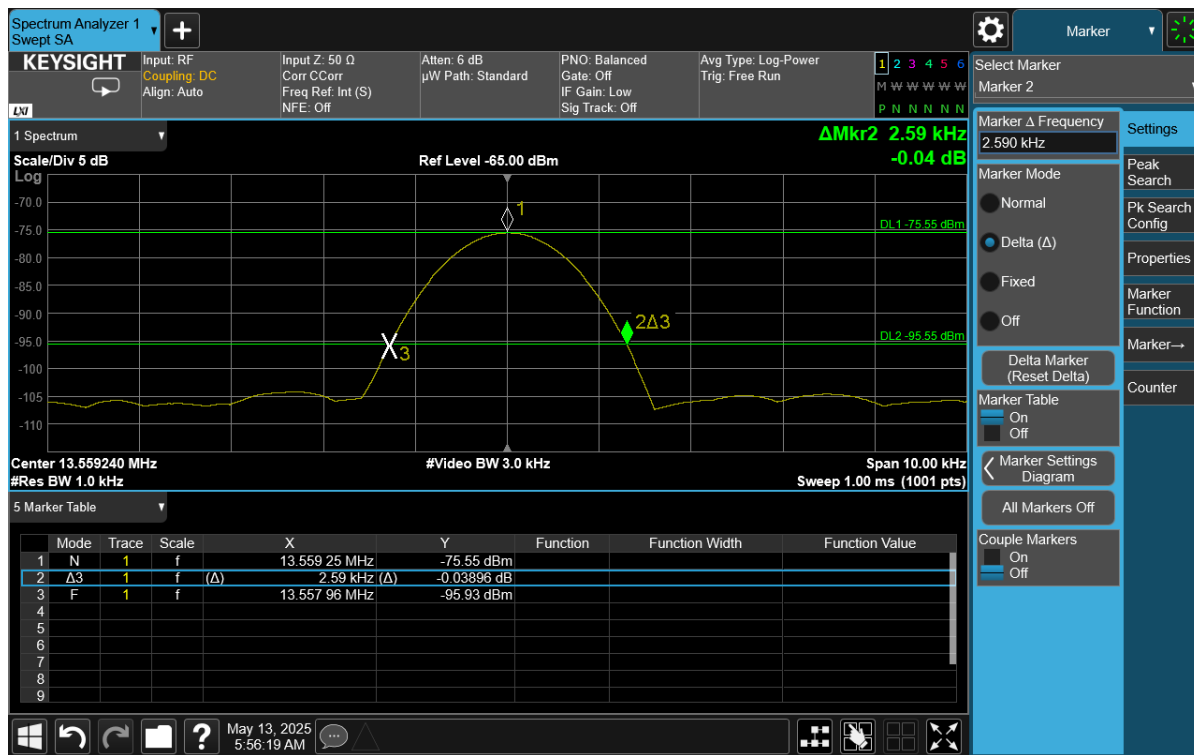
4.3 Measurement Uncertainty

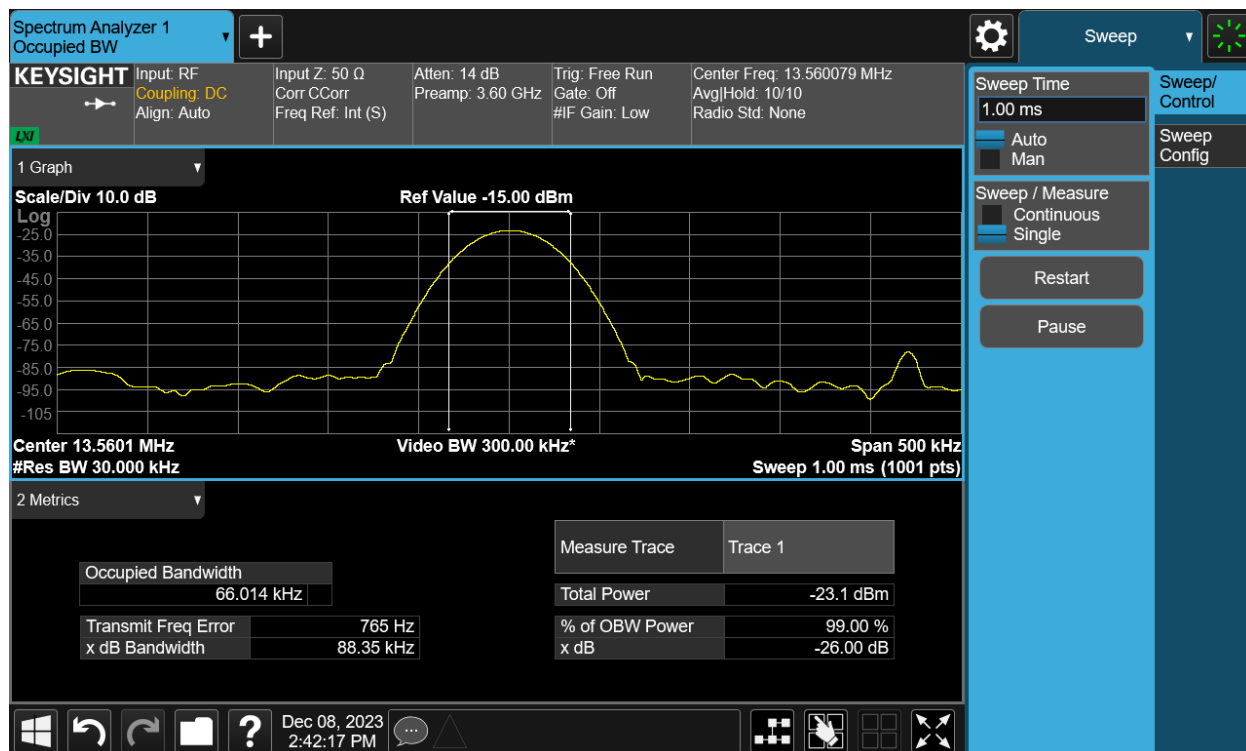
Test	Uncertainty ($\pm$ dB)	Confidence (%)
Conducted Emissions	1.44	95
Radiated Emissions (9 kHz to 30 MHz)	2.50	95
Radiated Emissions (30 MHz to 1 GHz)	4.38	95
Radiated Emissions (1 GHz to 18 GHz)	4.37	95
Radiated Emissions (18 GHz to 40 GHz)	3.93	95
Direct Connect Tests	K Factor	Value
Emissions Bandwidth	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 §15.225 Bandwidth Requirements

Modulation	Frequency (MHz)	20 dB BW (kHz)	99% BW (kHz)	FL at 20dB (MHz)	FH at 20 dB (MHz)	Result
NFC	13.56	2.59	66.01	13.557	13.559	Pass





99% Emission Bandwidth Plot

Results

The EUT complied with the specification

5.2 §15.225 Power Output Requirements

Polarity	Frequency (MHz)	Level @3m ¹ (dBuV/m)	Limit @ 3m ¹ (dBuV/m)	Delta (dB)	TT Azimuth	Detector	Result
Vertical	13.56	68.78	124.0	-55.22	41°	QP	Pass
Horizontal	13.56	70.60	124.0	-53.40	37°	QP	Pass
- Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m) - Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - The other emission levels were very low against the limit. - Delta value = Emission level – Limit value. ¹: The measured field strength was extrapolated from a distance of 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance) Example: 13.56MHz = 15848uV/m 30m = 84dBuV/m 30m = 84+20log(30/3) 3m = 124dBuV/m							

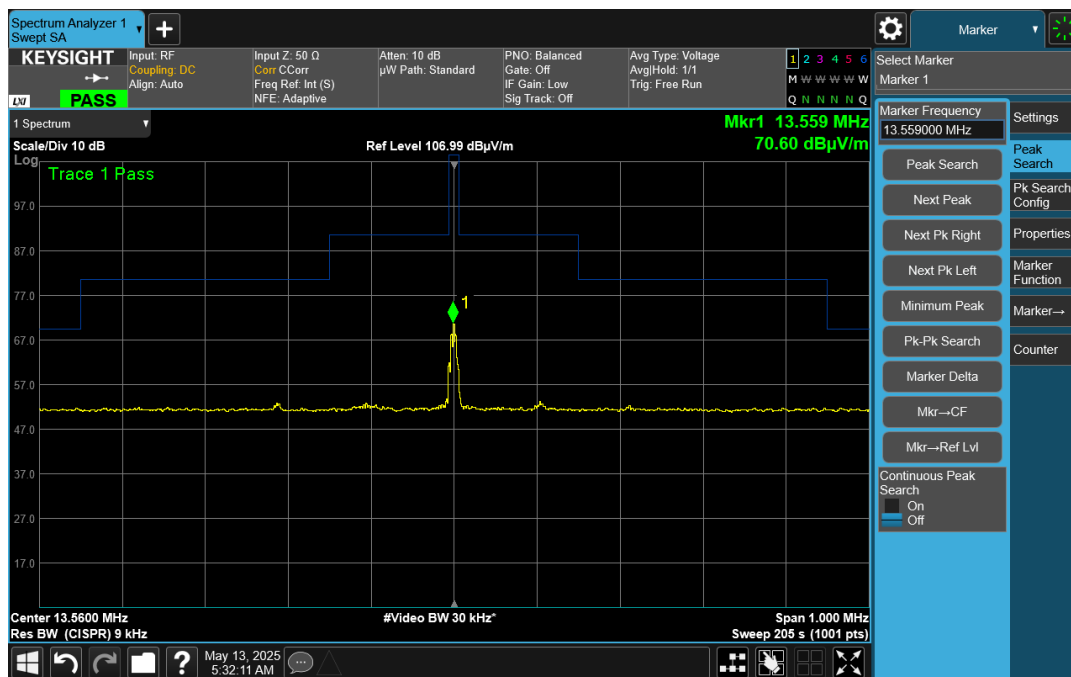
Result

The EUT complied with the specification limit.

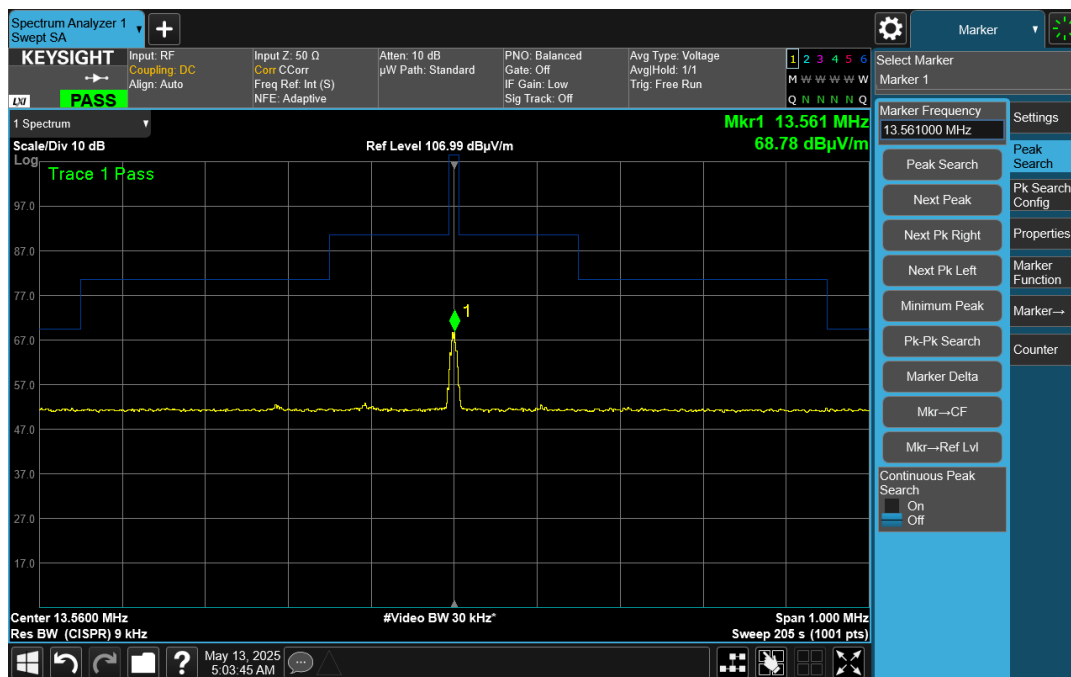
5.3 §15.225 Spurious Emissions Requirements

Freq. of Emissions (MHz)	uv/m @ 30m	dBuv/m @ 30m	dBuv/m @ 10m	dBuv/m @ 3m	dBuv/m @ 1m
1.705-13.110	30	29.5	48.6	69.5	88.6
13.110 – 13.410	106	40.5	59.6	80.5	99.6
13.410 – 13.553	334	50.5	69.6	90.5	109.6
13.553 – 13.567	15848	84.0	103.1	124.0	143.1
13.567 – 13.710	334	50.5	48.6	69.5	88.6
13.710 – 14.010	106	40.5	59.6	80.5	99.6
14.010 – 30.000	30	29.5	69.6	69.5	109.6

Spectrum Mask Limits



MASK / PWR Horizontal Plot



MASK / PWR Vertical Plot

Result

The EUT complied with the specification limit.

5.4 §15.225 Spurious Emissions

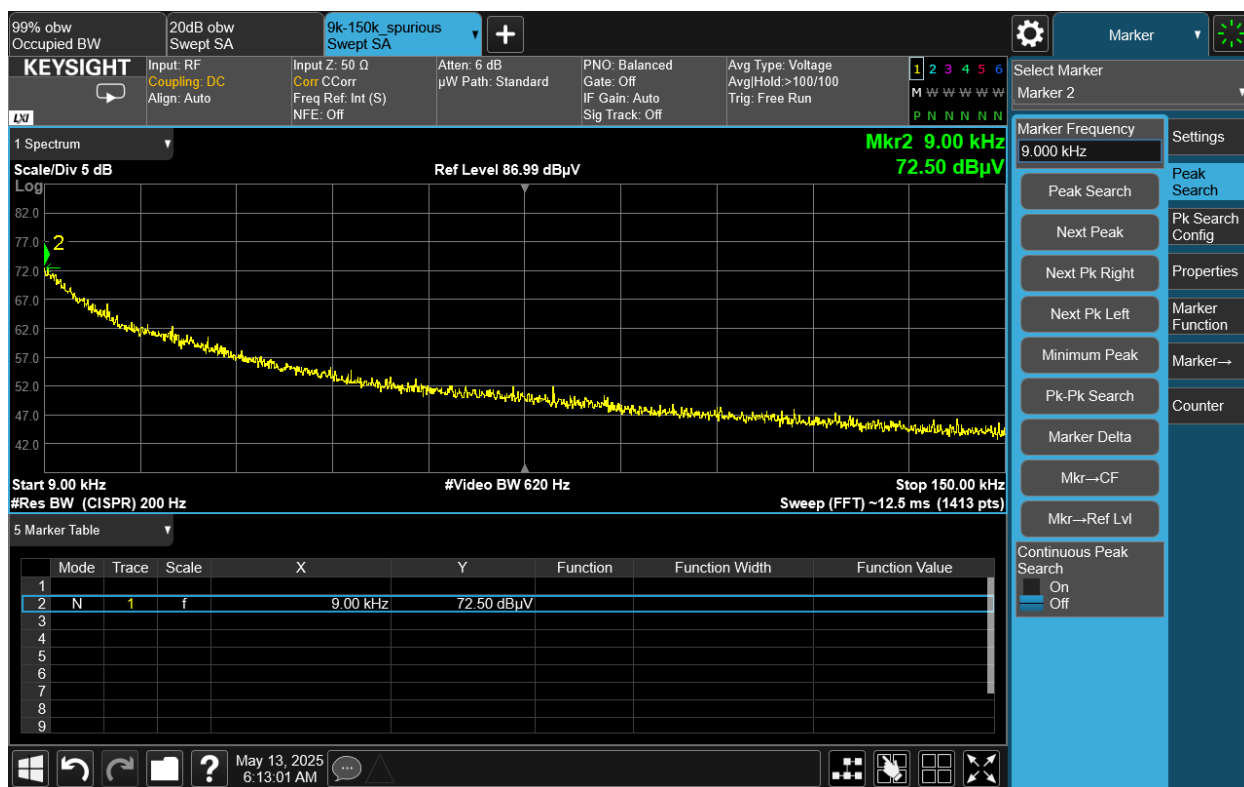
5.4.1 Radiated Spurious Emissions in the Restricted Bands of §15.205

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 bands 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.

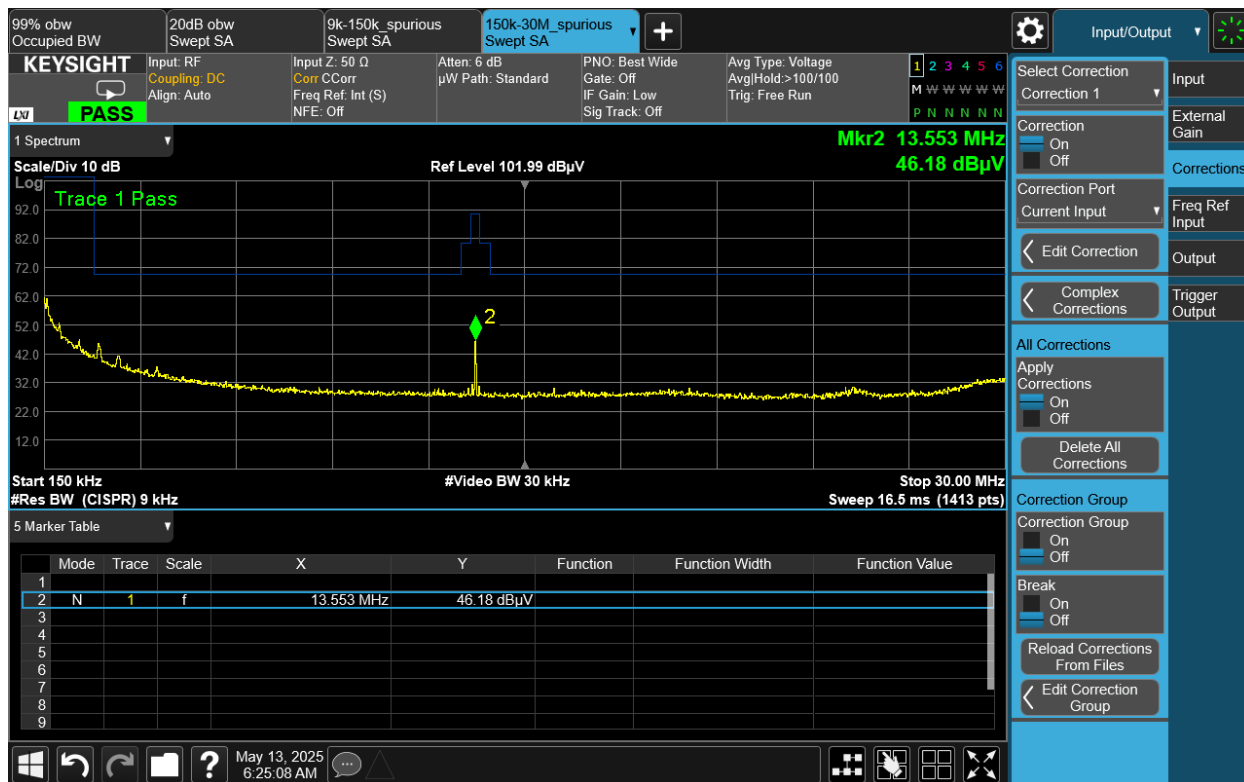
Correction Factor = Antenna Factor (dBi) + Cable Loss (dB) - Pre-Amplifier Gain (dB), and is added to the Receiver reading.

Result

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



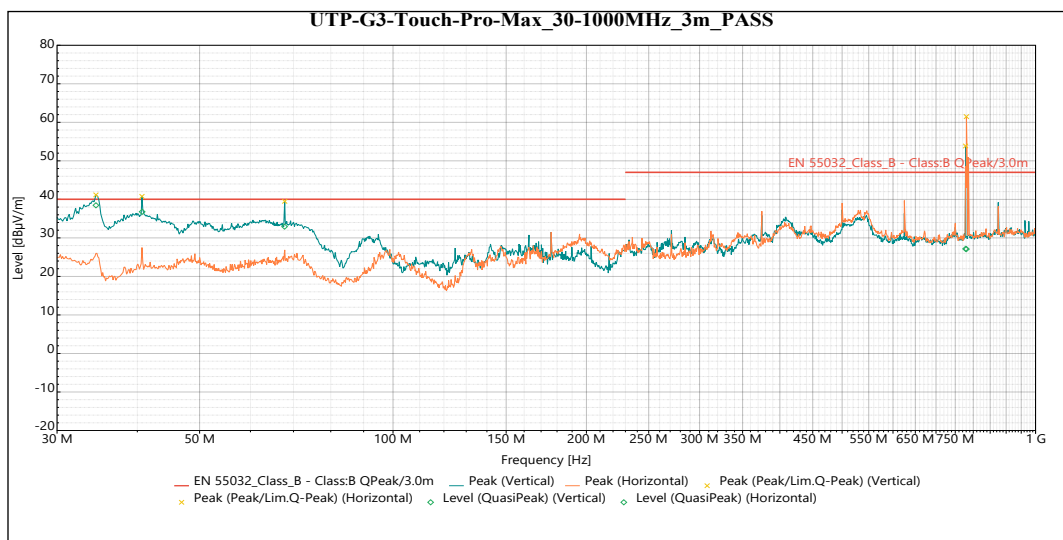
9kHz – 150kHz Plot (Antenna Horizontal Loop Parallel to DUT – Worst Case)



150kHz – 30MHz Plot (Antenna Horizontal Loop Parallel to DUT – Worst Case)

Freq. (MHz)	Det.	Level (dBμV/m)	Limit (dBμV/m)	Margin	Azimuth (°)	Height (m)	Pol.	Meas. Time	RBW (Hz)	Cor. (dB)
34.4870	QP	38.464	40	-1.536	280	1.21	Vertical	15	120 kHz	-10.577
40.6994	QP	36.771	40	-3.229	141	1.21	Vertical	15	120 kHz	-8.649
67.7995	QP	32.926	40	-7.074	61	4	Vertical	15	120 kHz	-10.967
778.299	QP	27.157	47	-19.843	342	2.54	Vertical	15	120 kHz	1.409
780.602	QP	27.098	47	-19.902	199	1.8	Horizontal	15	120 kHz	1.462

Table 2: Radiated Emission 30 – 1000 MHz



Radiated Emissions 30 MHz – 1 GHz Plot

5.5 §15.225 Frequency Stability

5.5.1 Limits of Frequency Stability Measurements

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

Temp °C	CH Frequency (MHz)	Measured Frequency (MHz)				Frequency Stability (PPM)				Limit (PPM)	Result
		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min		
20	13.56	13.56065	13.56065	13.56070	13.56070	47.9	47.9	51.6	51.6	100	Pass
30	13.56	13.56065	13.56070	13.56070	13.56070	47.9	51.6	51.6	51.6	100	Pass
40	13.56	13.56070	13.56070	13.56070	13.56070	51.6	51.6	51.6	51.6	100	Pass
50	13.56	13.56070	13.56070	13.56075	13.56075	51.6	51.6	55.3	55.3	100	Pass
10	13.56	13.56075	13.56070	13.56070	13.56070	55.3	51.6	51.6	51.6	100	Pass
0	13.56	13.56075	13.56070	13.56070	13.56070	55.3	51.6	51.6	51.6	100	Pass
-10	13.56	13.56075	13.56070	13.56075	13.56075	55.3	51.6	55.3	55.3	100	Pass
-20	13.56	13.56075	13.56075	13.56075	13.56075	55.3	55.3	55.3	55.3	100	Pass

Table 3: Frequency Stability Results

Result

The EUT complied with the specification limit.

-- End of Test Report --