



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	TR8466_02
Date of Test(s)	2 – 3, 10, 17 – 18, 24 August and 19 September 2023
Report Issue Date	1 May 2025

Test Specification	Applicant
47 CFR FCC Part 15, Subpart C	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.

Applicant	Ubiquiti Inc.
Manufacturer	Ubiquiti Inc.
Brand Name	UBIQUITI
Model Number	UTP-G3-Touch-Enterprise
FCC ID	SWX-UG3TE
IC 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	21 September 2023
02	Change FCC and ISED ID Code, Model Name and Issue Date	1 May 2025

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	6
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	13
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	17
5.5	§15.247(d) Spurious Emissions	19
5.6	§15.247(e) Maximum Average Power Spectral Density	31

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	UBQUITI
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: UBQUITI 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: UBQUITI 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

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	30.2 – 47.1 %
Barometric Pressure	1017 mBar

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 duty cycle greater or equal to 98% of the WiFi transceiver. All emission modes of 802.11 b/g/n were investigated. All measurements are reported with the worst-case mode (802.11n) 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

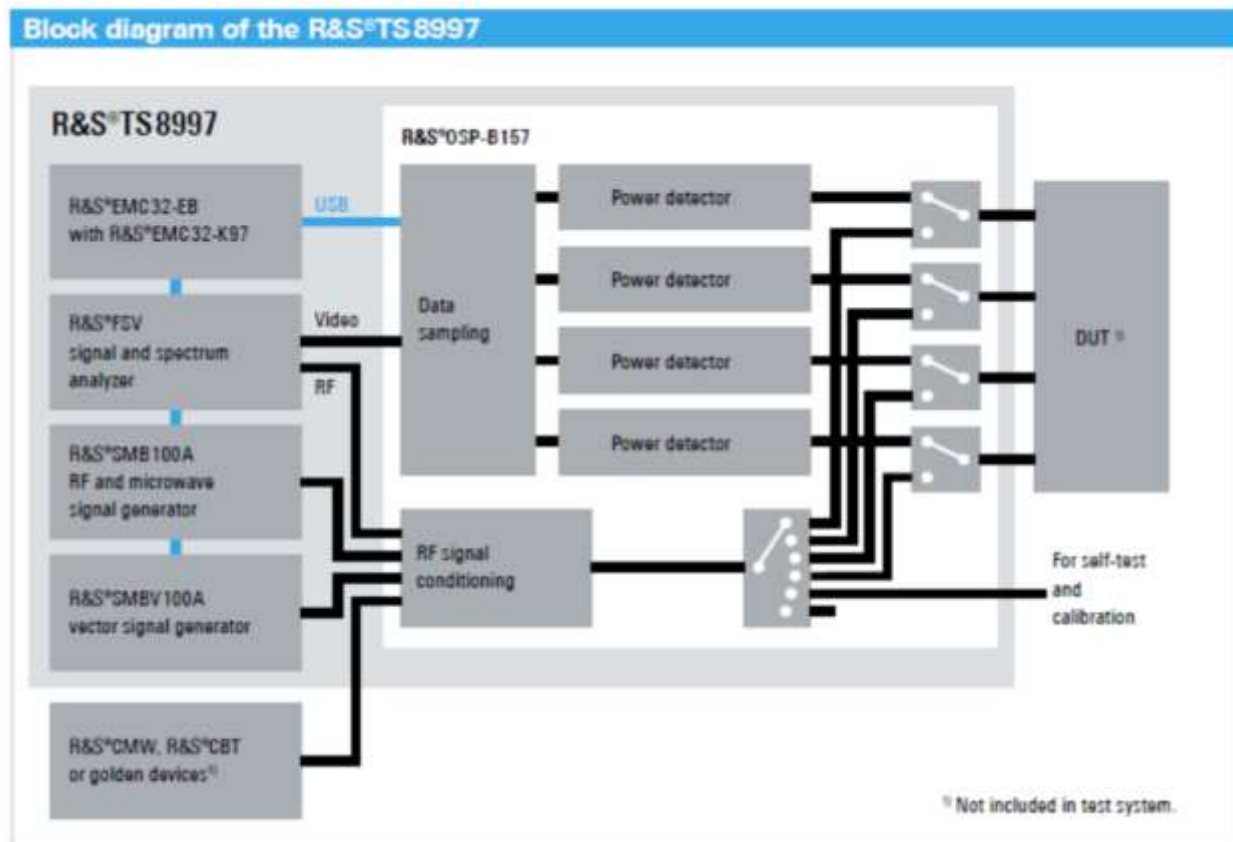


Diagram 1: Test Configuration Block Diagram

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 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	2412 to 2462	Compliant
15.247(b)	RSS-247 § 5.4	Peak Output Power	2412 to 2462	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	2412 to 2462	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 2024. 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 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

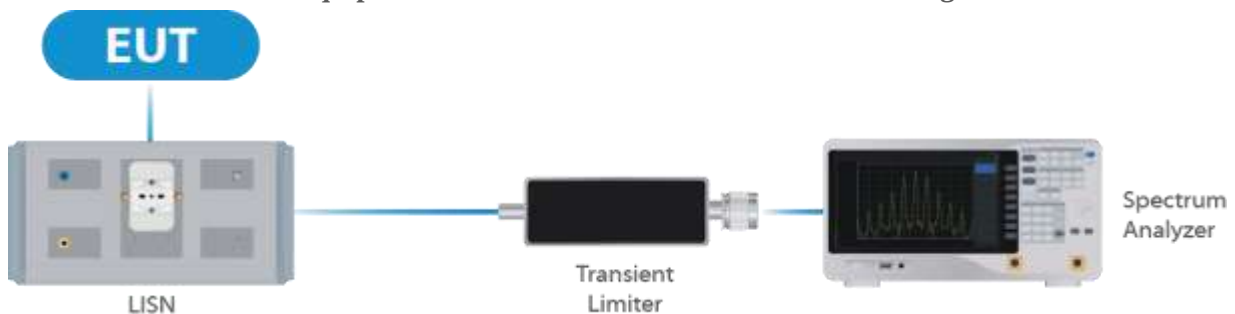


Figure 1: Conducted Emissions Test

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

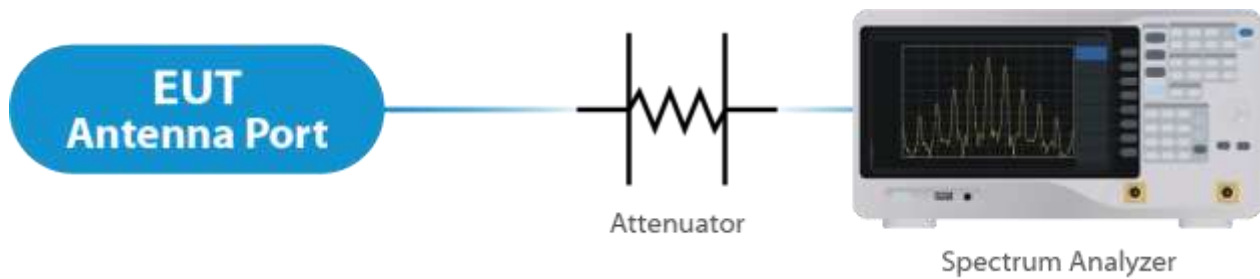


Figure 2: Direct Connect at the Antenna Port Test

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	01/27/2023	01/27/2024
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

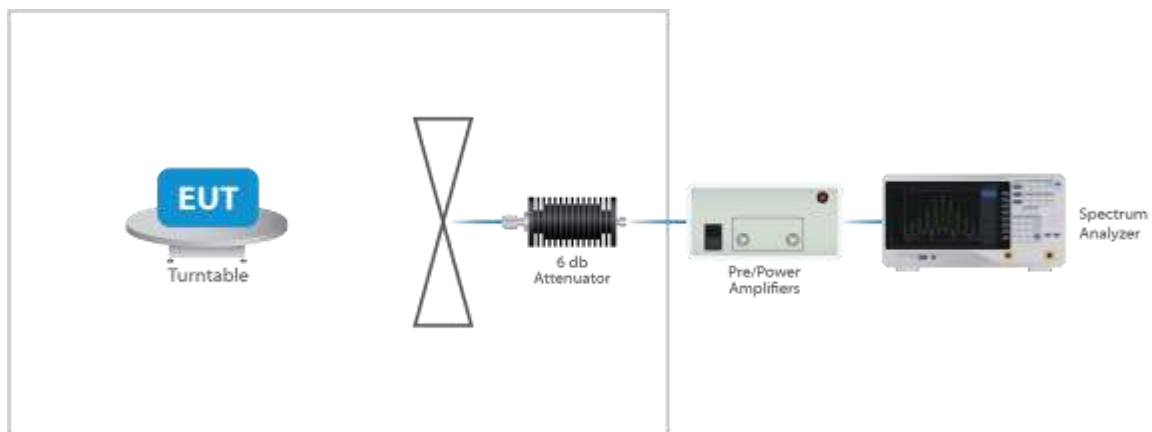


Figure 3: Radiated Emissions Test

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 structure. As per the manufacturer, the maximum gain of the antenna per chain is 3.2 dBi. This is an 802.11 device and utilizes CDD as described in KDB 662911 D01. The antenna is not user replaceable.

Results

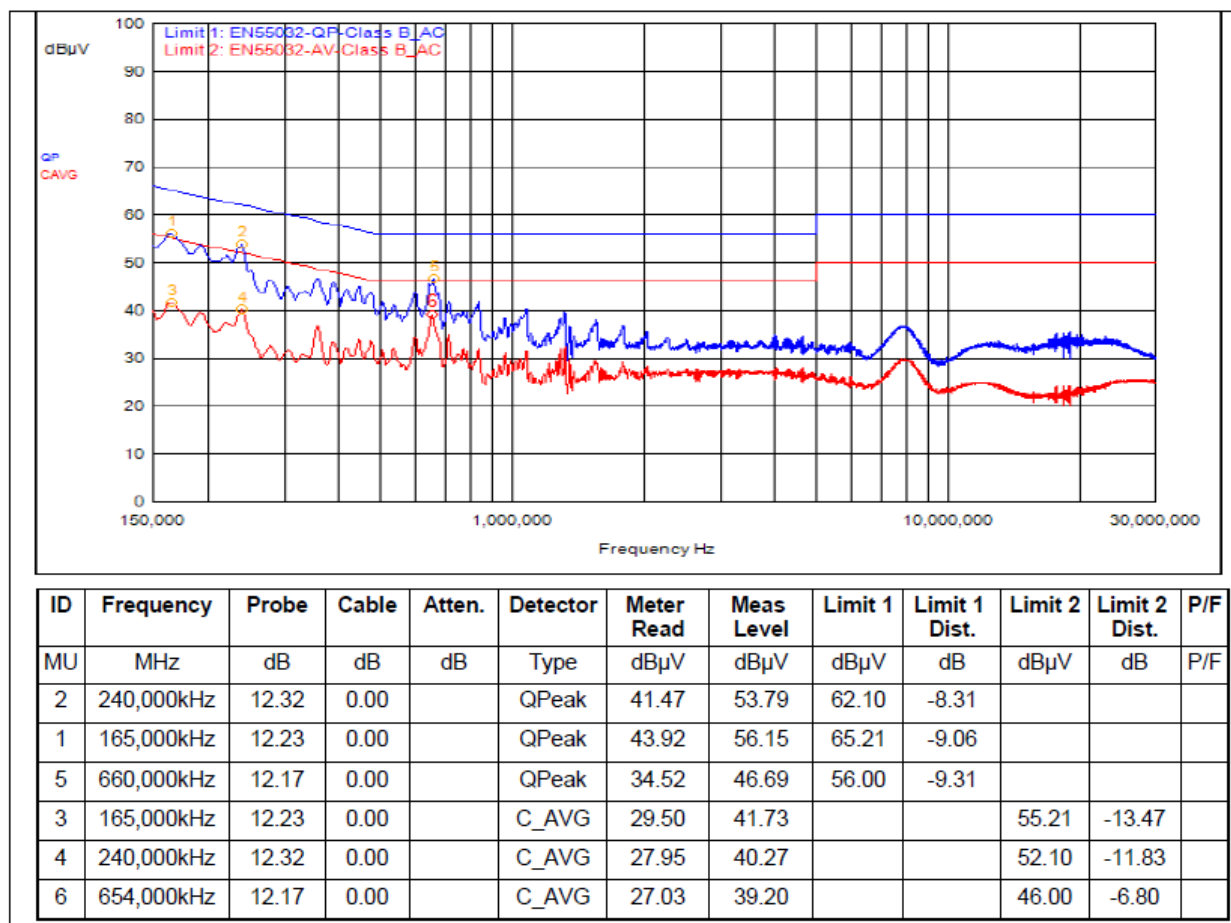
The EUT complied with the specification

5.2 Conducted Emissions at Mains Ports Data

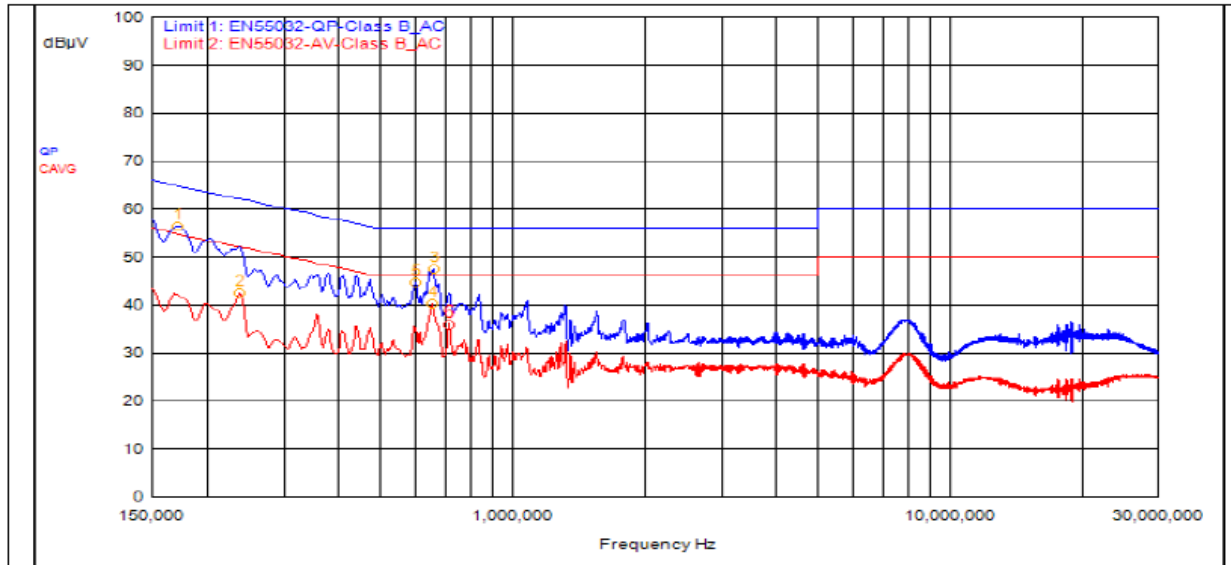
Result

The EUT complied with the specification limit.

5.2.1 Conducted Emissions Plot – Neutral



5.2.2 Conducted Emissions Plot – Line 1



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	171,000kHz	12.26	0.00		QPeak	44.11	56.37	64.91	-8.54			
3	660,000kHz	12.22	0.00		QPeak	35.16	47.38	56.00	-8.62			
5	600,000kHz	12.22	0.00		QPeak	32.54	44.76	56.00	-11.24			
2	237,000kHz	12.25	0.00		C_AVG	30.19	42.44			52.20	-9.76	
4	654,000kHz	12.22	0.00		C_AVG	28.17	40.39			46.00	-5.61	
6	714,000kHz	12.21	0.00		C_AVG	23.76	35.97			46.00	-10.03	

5.3 §15.247(a)(2) Emissions Bandwidth

All chains were measured under the guidance of KDB 558074 Section 8.2. and KDB 66291 D01. Please see associated annex for details on instrument settings.

Mode	Frequency (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth (MHz)
b	2412	13.9	9.1
	2437	13.7	9.2
	2462	13.3	8.7
g	2412	17.7	16.6
	2437	17.4	16.6
	2462	16.6	16.6
n 20	2412	18.3	16.7
	2437	18.3	17.7
	2462	17.9	17.9
n 40	2422	36.5	32.7
	2437	37.5	35.2
	2452	37.8	35.0

Result

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

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

All chains were measured and summed under the guidance of KDB 558074 Section 8.3.2.3. 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 19.52 dBm or 89.54 mW. The limit is 30 dBm or 1 Watt when using antennas with 6 dBi or less gain. The antenna has a gain of 3.2 dBi.

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power *	Measured EIRP
b 20	2412	Mcs0	20	19.29	22.49
	2417	Mcs0	20	19.52	22.74
	2422	Mcs0	20	19.29	22.49
	2427	Mcs0	20	18.86	22.06
	2432	Mcs0	20	18.44	21.64
	2437	Mcs0	20	18.08	21.28
	2442	Mcs0	20	17.76	20.96
	2447	Mcs0	20	17.38	20.58
	2452	Mcs0	20	17.30	20.50
	2457	Mcs0	20	17.48	20.68
	2462	Mcs0	13	14.98	18.16
g 20	2412	Mcs0	20	17.30	20.50
	2417	Mcs0	20	17.49	20.69
	2422	Mcs0	20	17.36	20.56
	2427	Mcs0	20	16.99	20.19
	2432	Mcs0	20	16.55	19.75
	2437	Mcs0	20	16.17	19.37
	2442	Mcs0	20	15.84	19.04
	2447	Mcs0	20	15.55	18.75
	2452	Mcs0	20	15.44	18.64
	2457	Mcs0	20	15.70	18.90
	2462	Mcs0	14	14.11	17.31
n 20	2412	Mcs0	20	17.36	20.56
	2417	Mcs0	20	17.47	20.67
	2422	Mcs0	20	17.37	20.57
	2427	Mcs0	20	17.02	20.22
	2432	Mcs0	20	16.64	19.84

	2437	Mcs0	20	16.20	19.40
	2442	Mcs0	20	15.93	19.13
	2447	Mcs0	20	15.64	18.84
	2452	Mcs0	20	15.49	18.69
	2457	Mcs0	20	15.75	18.95
	2462	Mcs0	13	13.20	16.40
n 40	2422	Mcs0	20	16.90	20.10
	2437	Mcs0	20	16.18	19.38
	2452	Mcs0	20	15.78	18.98

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).

* Gated EIRP shown in the Annex is the conducted measurement

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 below 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.

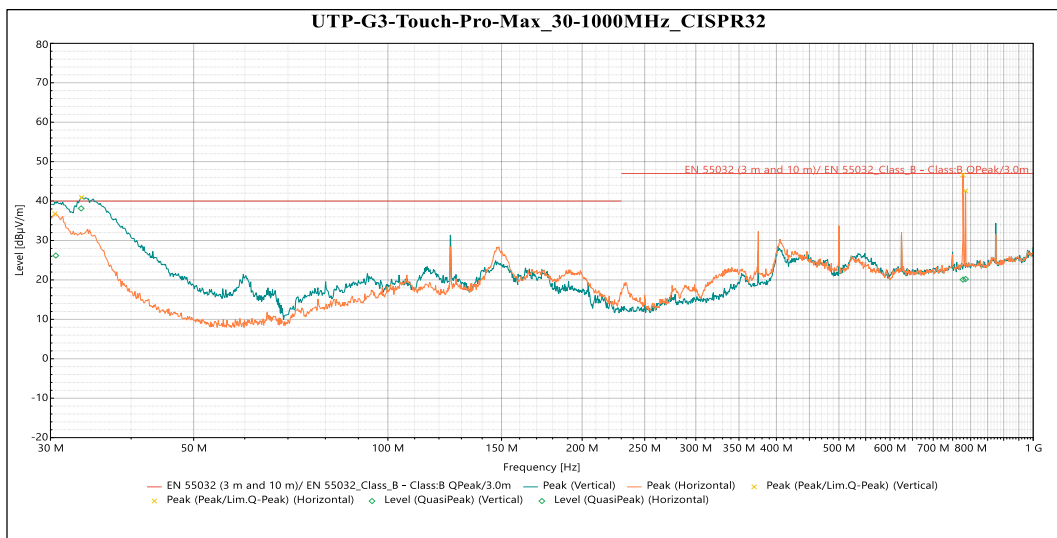
5.5.2 Radiated Spurious Emissions in the Restricted Bands of §15.205

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

Result

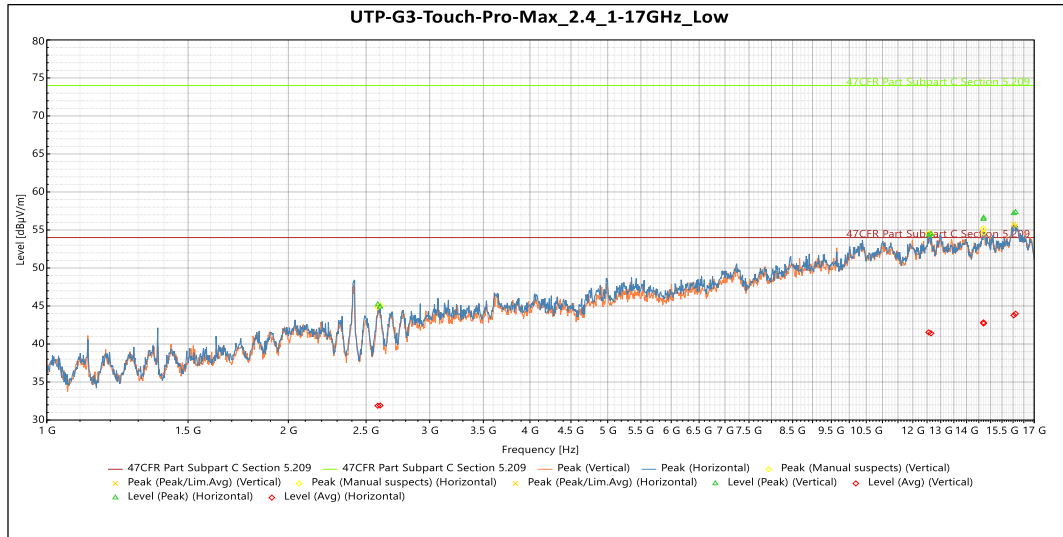
All emissions in the restricted bands of §15.205 met the limits specified in §15.209; therefore, the EUT complies with the specification.



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



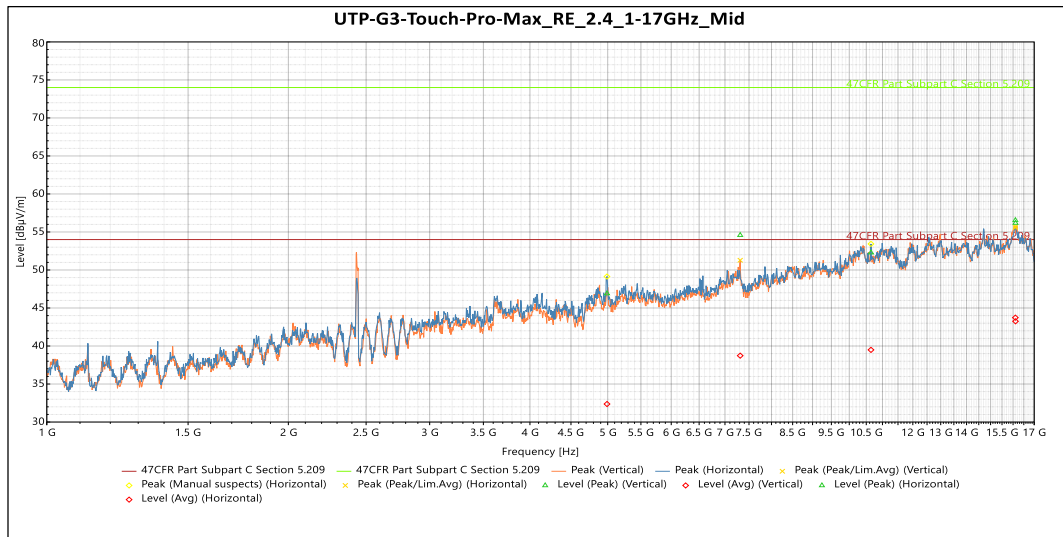
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
2.5852 GHz	45.197	74	-28.803	35	1.5	Vertical	-7.711
12.56 GHz	54.274	74	-19.726	141	3.149	Vertical	10.14
14.696 GHz	56.44	74	-17.56	269	3.798	Vertical	11.657
16.114 GHz	57.342	74	-16.658	144	3.802	Vertical	12.963
2.603 GHz	44.89	74	-29.11	322	3.802	Horizontal	-7.523
12.643 GHz	54.473	74	-19.527	227	3.307	Horizontal	9.782
14.703 GHz	56.589	74	-17.411	282	3.311	Horizontal	11.657
16.034 GHz	57.186	74	-16.814	258	3.307	Horizontal	12.42

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
2.5852 GHz	31.877	54	-22.123	35	1.5	Vertical	-7.711
12.56 GHz	41.528	54	-12.472	141	3.149	Vertical	10.14
14.696 GHz	42.842	54	-11.158	269	3.798	Vertical	11.657
16.114 GHz	43.981	54	-10.019	144	3.802	Vertical	12.963
2.603 GHz	31.913	54	-22.087	322	3.802	Horizontal	-7.523
12.643 GHz	41.411	54	-12.589	227	3.307	Horizontal	9.782
14.703 GHz	42.705	54	-11.295	282	3.311	Horizontal	11.657
16.034 GHz	43.771	54	-10.229	258	3.307	Horizontal	12.42

Table 5: Spurious Emissions Lowest Frequency 1 – 17 GHz



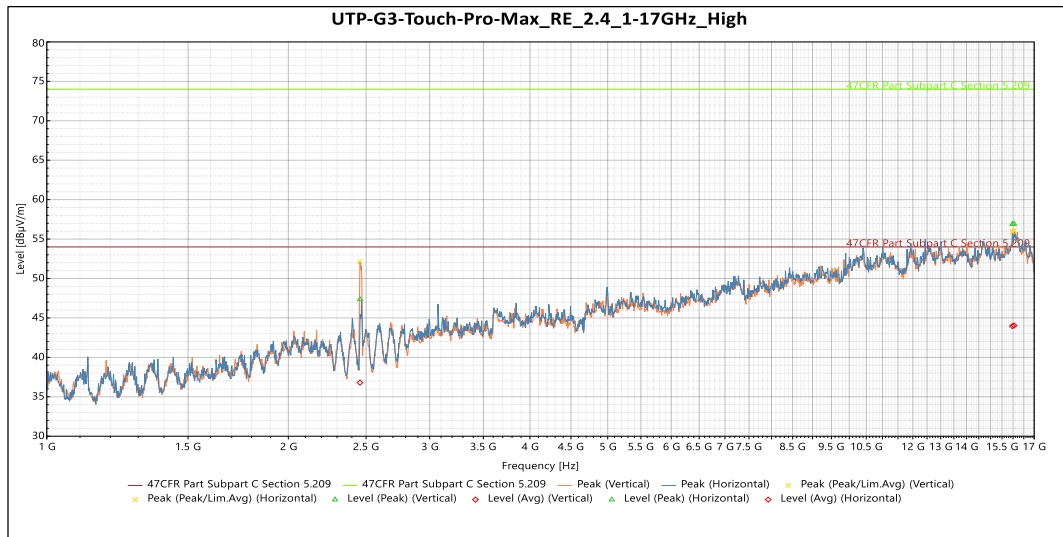
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
7.3128 GHz	54.578	74	-19.422	179	2.32	Vertical	3.014
16.113 GHz	56.171	74	-17.829	70	2.65	Vertical	12.962
4.9901 GHz	46.902	74	-27.098	132	3.802	Horizontal	-3.233
10.643 GHz	52.278	74	-21.722	5	3.307	Horizontal	8.474
16.106 GHz	56.537	74	-17.463	54	3.307	Horizontal	12.922

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
7.3128 GHz	38.732	54	-15.268	179	2.32	Vertical	3.014
16.113 GHz	43.246	54	-10.754	70	2.65	Vertical	12.962
4.9901 GHz	32.374	54	-21.626	132	3.802	Horizontal	-3.233
10.643 GHz	39.493	54	-14.507	5	3.307	Horizontal	8.474
16.106 GHz	43.732	54	-10.268	54	3.307	Horizontal	12.922

Table 6: Spurious Emissions Middle Frequency 1 – 17 GHz



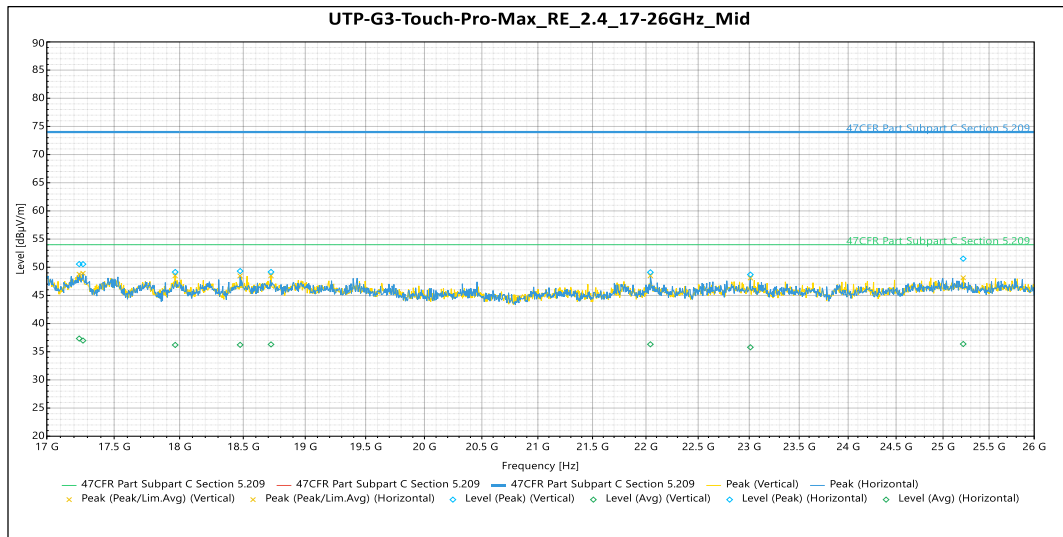
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
2.4564 GHz	47.358	74	-26.642	323	1.5	Vertical	-9.131
15.969 GHz	56.904	74	-17.096	60	4	Vertical	12.263
16.044 GHz	56.923	74	-17.077	358	3.307	Horizontal	12.514

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
2.4564 GHz	36.8	54	-17.2	323	1.5	Vertical	-9.131
15.969 GHz	43.956	54	-10.044	60	4	Vertical	12.263
16.044 GHz	44.036	54	-9.964	358	3.307	Horizontal	12.514

Table 7: Spurious Emissions Highest Frequency 1 – 17 GHz



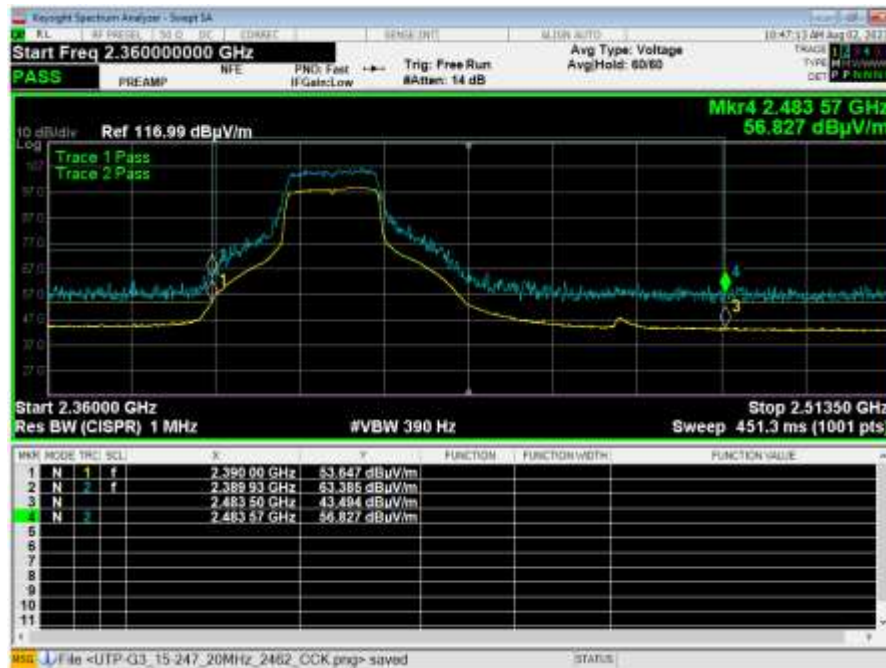
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
17.239 GHz	50.557	74	-23.443	32	Vertical	-1.249
17.966 GHz	49.153	74	-24.847	296	Vertical	-1.904
18.722 GHz	49.157	74	-24.843	140	Vertical	-1.327
25.218 GHz	51.52	74	-22.48	10	Vertical	-1.983
17.267 GHz	50.553	74	-23.447	312	Horizontal	-1.378
18.475 GHz	49.317	74	-24.683	321	Horizontal	-1.478
22.042 GHz	49.104	74	-24.896	270	Horizontal	-1.457
23.011 GHz	48.69	74	-25.31	359	Horizontal	-1.98

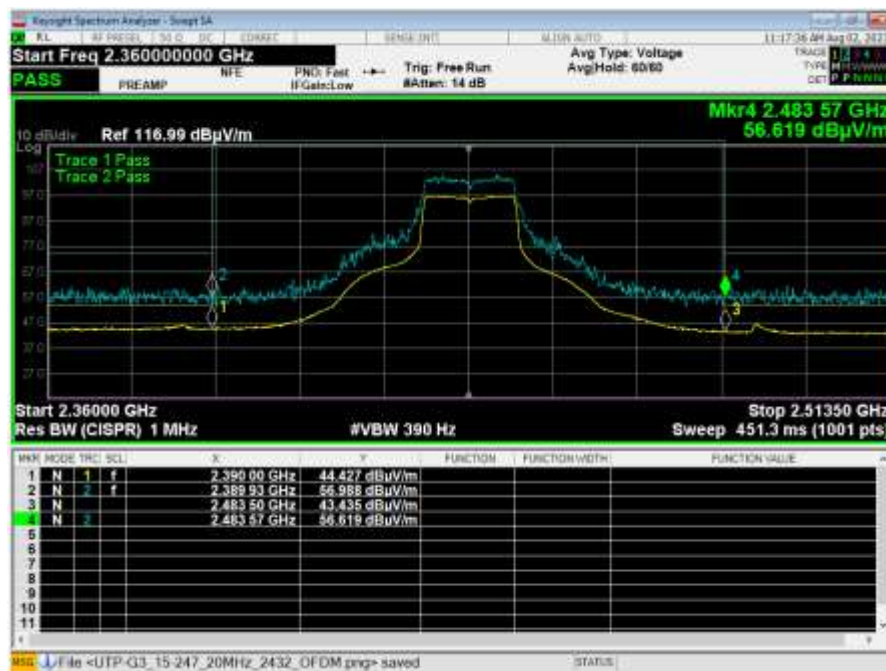
Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
17.239 GHz	37.335	54	-16.665	32	Vertical	-1.249
17.966 GHz	36.201	54	-17.799	296	Vertical	-1.904
18.722 GHz	36.297	54	-17.703	140	Vertical	-1.327
25.218 GHz	36.373	54	-17.627	10	Vertical	-1.983
17.267 GHz	36.981	54	-17.019	312	Horizontal	-1.378
18.475 GHz	36.221	54	-17.779	321	Horizontal	-1.478
22.042 GHz	36.317	54	-17.683	270	Horizontal	-1.457
23.011 GHz	35.789	54	-18.211	359	Horizontal	-1.98

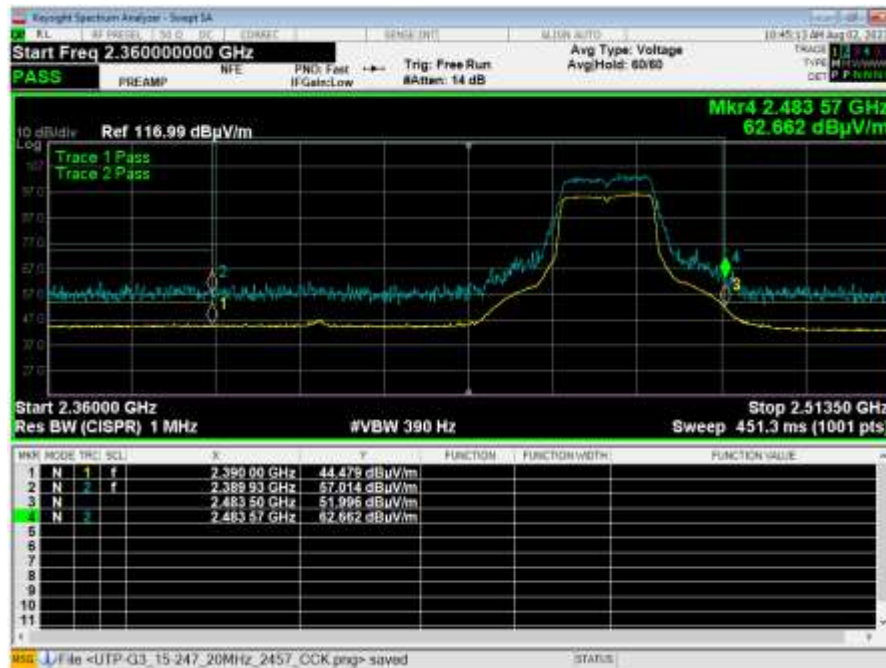
Table 8: Spurious Emissions Middle Frequency 17 – 40 GHz (worse case)



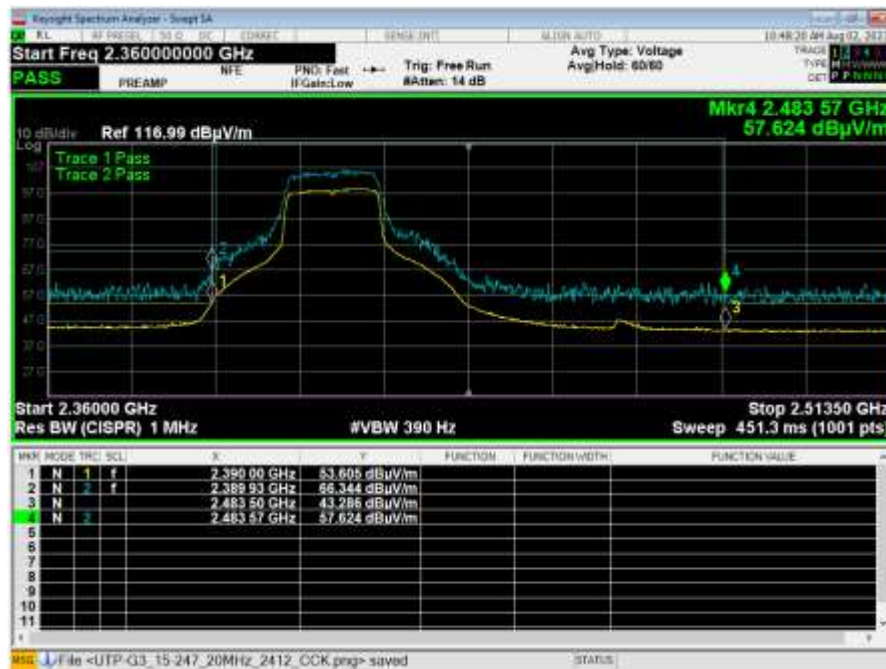
Plot 1: CCK 20 MHz 2412 MHz



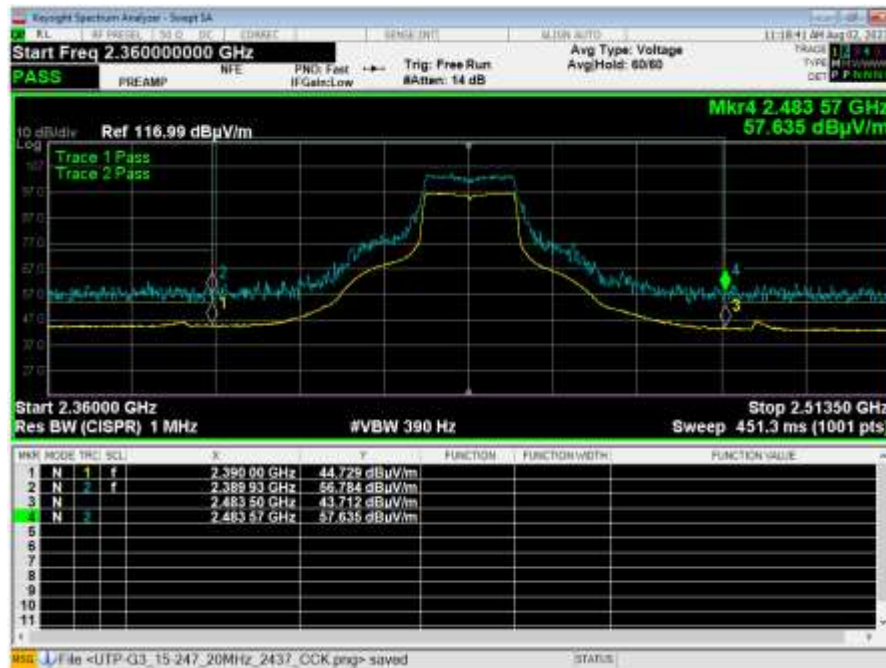
Plot 2: CCK 20 MHz 2437 MHz



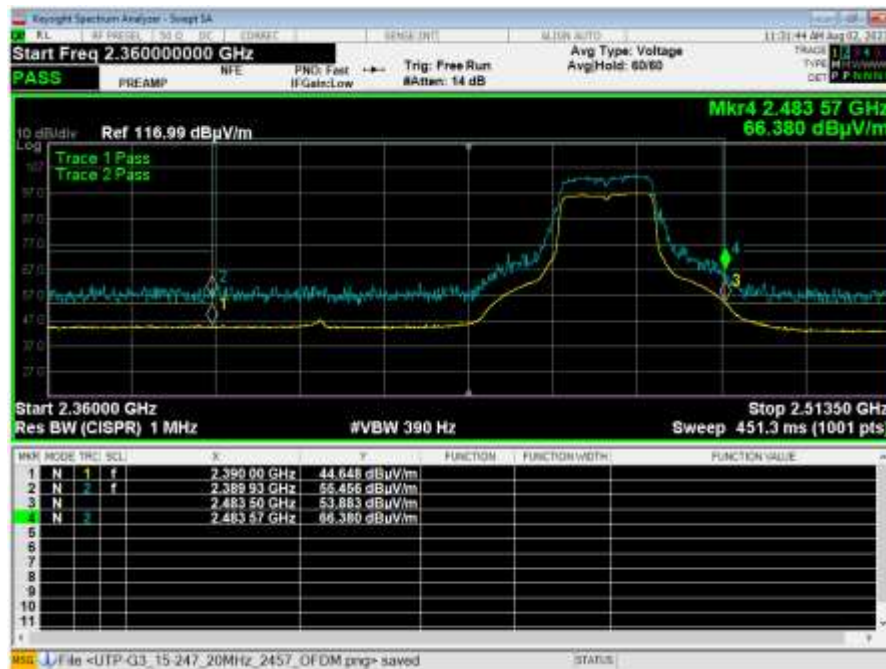
Plot 3: CCK 20 MHz 2462 MHz



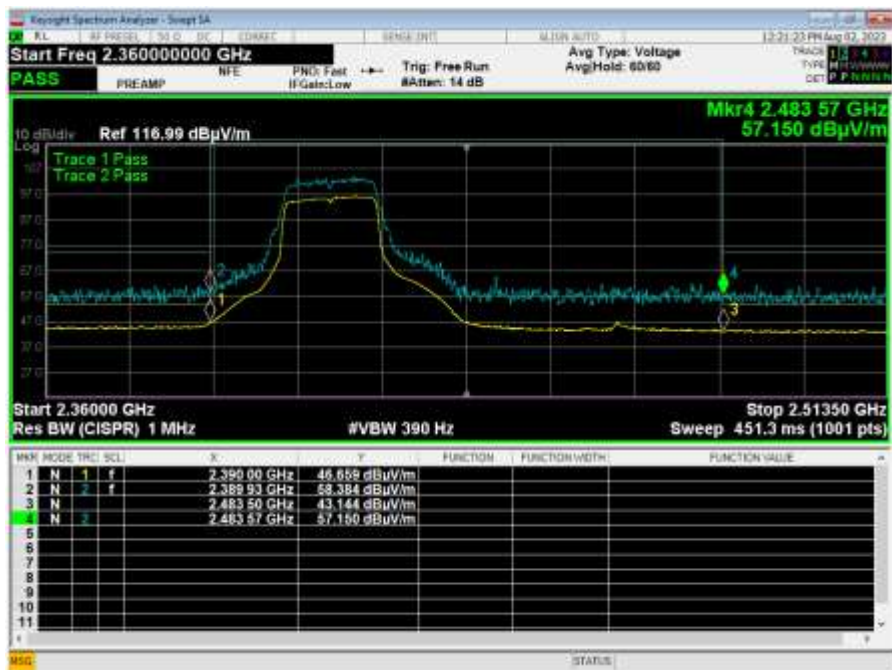
Plot 4: OFDM 20 MHz 2412 MHz



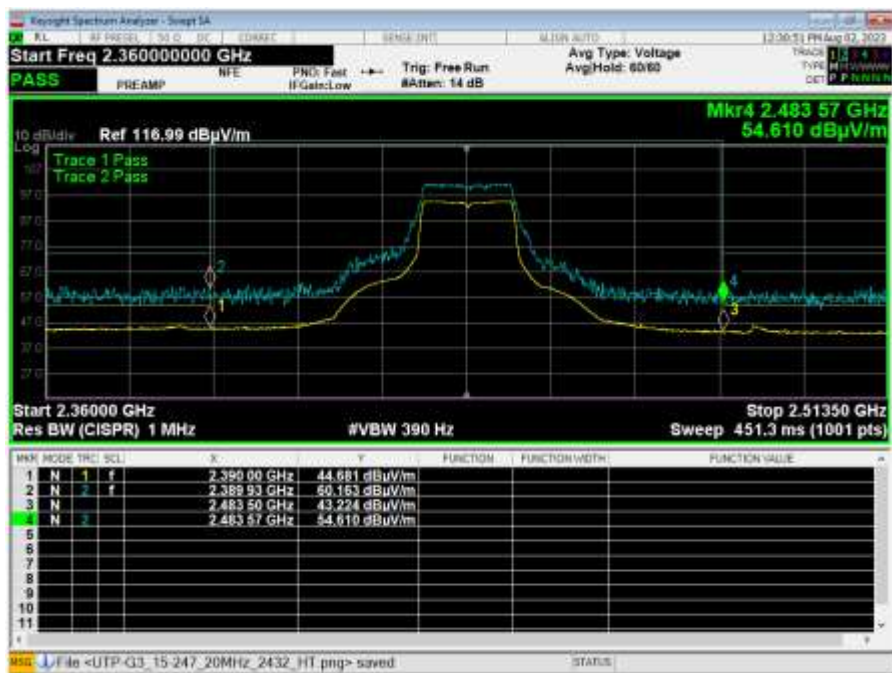
Plot 5: OFDM 20 MHz 2437 MHz



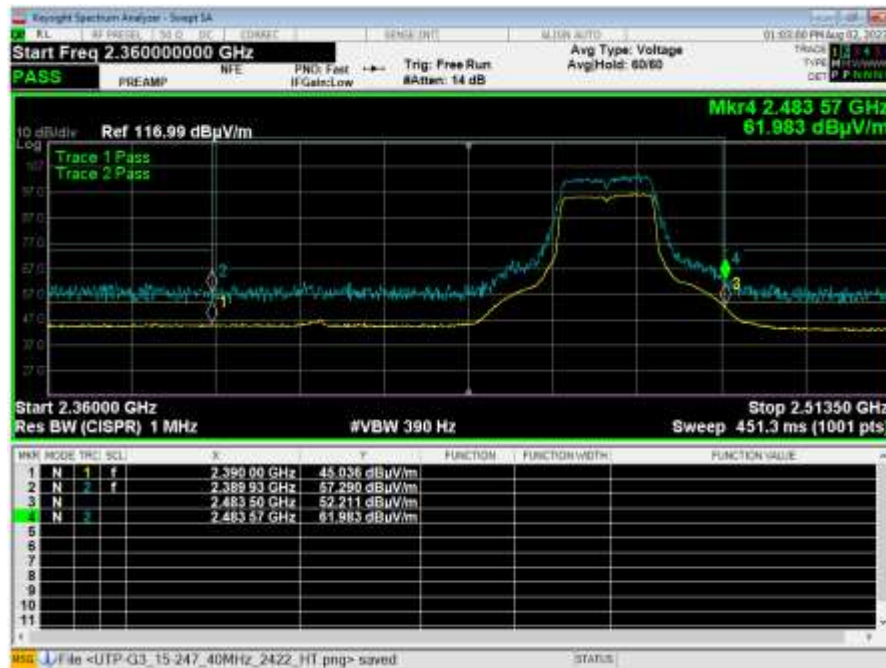
Plot 6: OFDM 20 MHz 2462 MHz



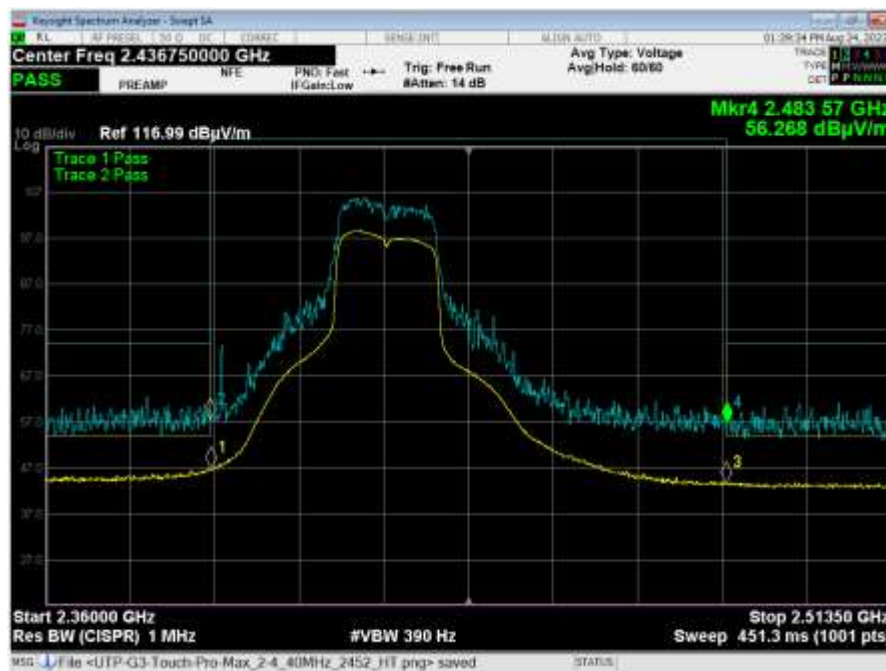
Plot 7: HT 20 MHz 2412 MHz



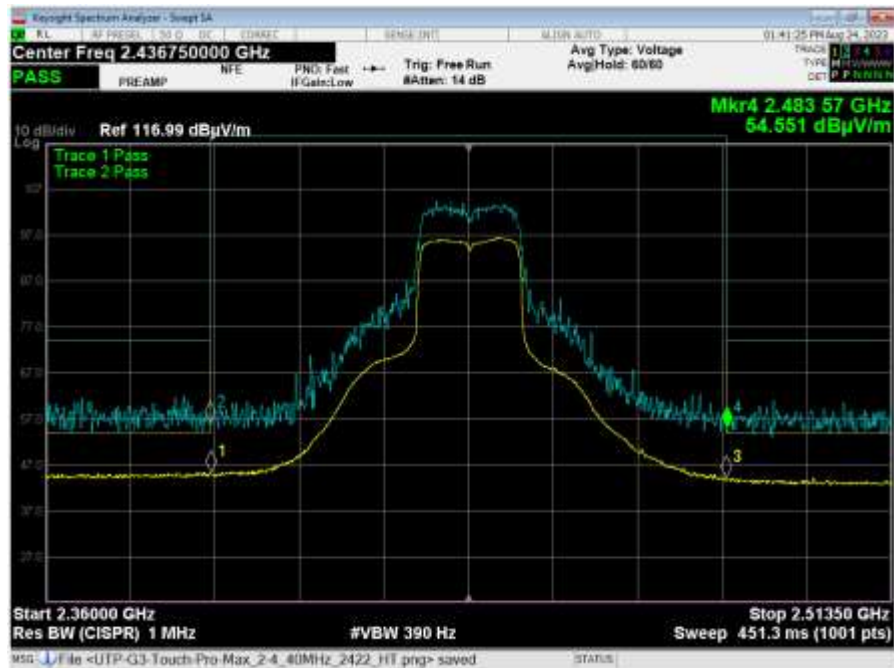
Plot 8: HT 20 MHz 2437 MHz



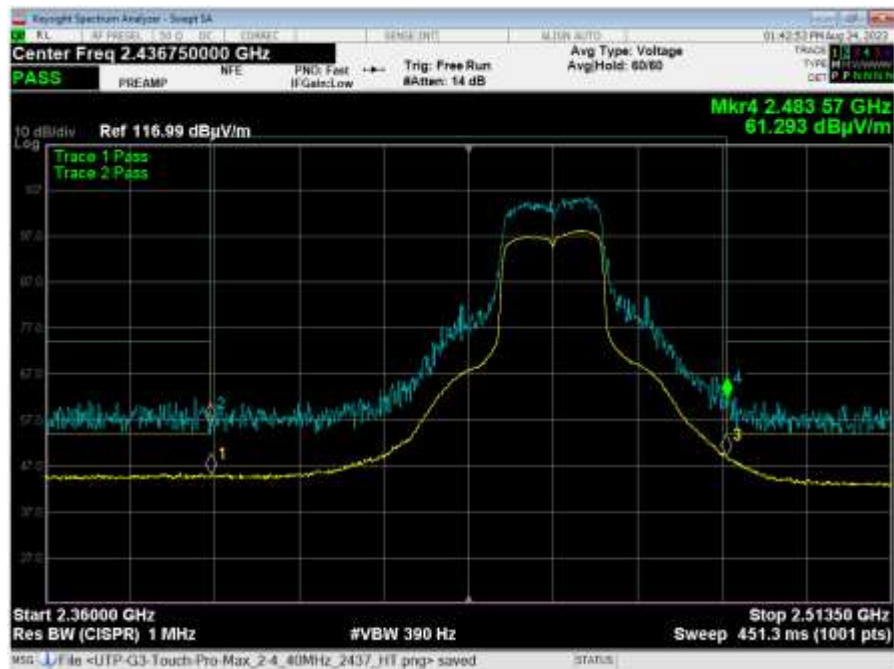
Plot 9: HT 20 MHz 2462 MHz



Plot 10: HT 40 MHz 2422 MHz



Plot 11: HT 40 MHz 2437 MHz



Plot 12: HT 40 MHz 2452 MHz

5.6 §15.247(e) Maximum Average Power Spectral Density

All chains were measured and summed under the guidance of KDB 558074 Section 8.4. 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 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Mode	Frequency (MHz)	Measurement (dBm)	Criteria (dBm)
b	2412	-13.08	8.0
	2437	-14.22	8.0
	2462	-17.76	8.0
g	2412	-17.36	8.0
	2437	-18.67	8.0
	2462	-20.44	8.0
n 20	2412	-11.87	8.0
	2437	-18.42	8.0
	2462	-20.75	8.0
n 40	2422	-19.15	8.0
	2437	-20.04	8.0
	2452	-20.18	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 --