



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-UVCG6EB
IC ID	6545A-UVCG6EB
Equipment Under Test	UVC-G6-Edge-Bullet
Test Report Serial Number	TR10911_02
Date of Test(s)	28 April; 15, 20 - 22 May 2026
Report Issue Date	29 July 2026

Test Specification	Applicant
47 CFR FCC Part 15, Subpart C RSS-247, Issue 4 (July 2025)	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	UVC-G6-Edge-Bullet
FCC ID	SWX-UVCG6EB
IC ID	6545A-UVCG6EB

On this 29th day of July 2026, 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: Joseph W. Jackson
Reviewed By: Kimberly DeBole

Revision History		
Revision	Description	Date
01	Original Report Release	25 June 2026
02	Added Full ANSI C63.10 Reference to Section 3. Updated Test Equipment Tables of Section 4. Updated 30-1000MHz Radiated Emissions data in Section 5.5.2. Added Conducted Emissions data to Section 5.2	29 July 2026

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.....	12
4.3	Radiated Emissions	13
4.4	Equipment Calibration	14
4.5	Measurement Uncertainty	14
5	Test Results.....	15
5.1	§15.203 Antenna Requirements.....	15
5.2	§15.207 Conducted Emissions at Mains Ports Data	16
5.3	§15.247(a)(2) Emissions Bandwidth.....	18
5.4	§15.247(b)(3) Maximum Average Output Power	19
5.5	§15.247(d) Spurious Emissions	20
5.6	§15.247(e) Maximum Average Power Spectral Density	26

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 Officer

1.2 Manufacturer

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

2 Equipment Under Test (EUT)

2.1 Identification of EUT

Brand Name	UBIQUITI
Model Number	UVC-G6-Edge-Bullet
Serial Number	F8A
Dimensions (cm)	8.6 x 8.6 x 17.5

2.2 Description of EUT

The Ubiquiti UVC-G6-Edge-Bullet is an 8 mega pixel video camera. The UVC-G6-Edge-Bullet has infrared LEDs with an automatic IR cut filter for day and night surveillance. The ball joint mount design allows for both indoor or outside installation and offers flexible 3-axis adjustments. The UVC-G6-Edge-Bullet as a built-in microphone and supports 802.3 at PoE power.

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: UVC-G6-Edge-Bullet SN: F8A	Video Camera	See Section 2.4
BN: UBIQUITI MN: U-POE-at SN: N/A	PoE Power Adapter (Not Sold With DUT)	Unshielded Cat 5e cable/1 meters
BN: Dell MN: XPS 13 SN: N/A	Laptop Personal Computer	Unshielded Cat 5e cable/1 meters

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
LAN (From PoE Adapter)	1	Unshielded Cat 5e cable/8 meters

2.5 Operating Environment

Power Supply	120 Volts AC Mains to 48 Volts PoE Power
AC Mains Frequency	60 Hz
Temperature	21.2 - 22.7 °C
Humidity	23.8 - 29.6 %
Barometric Pressure	1017 mBar

2.6 Operating Modes

The UVC-G6-Edge-Bullet was connected to a personal computer laptop and tested using test software in order to enable to constant duty cycle. 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

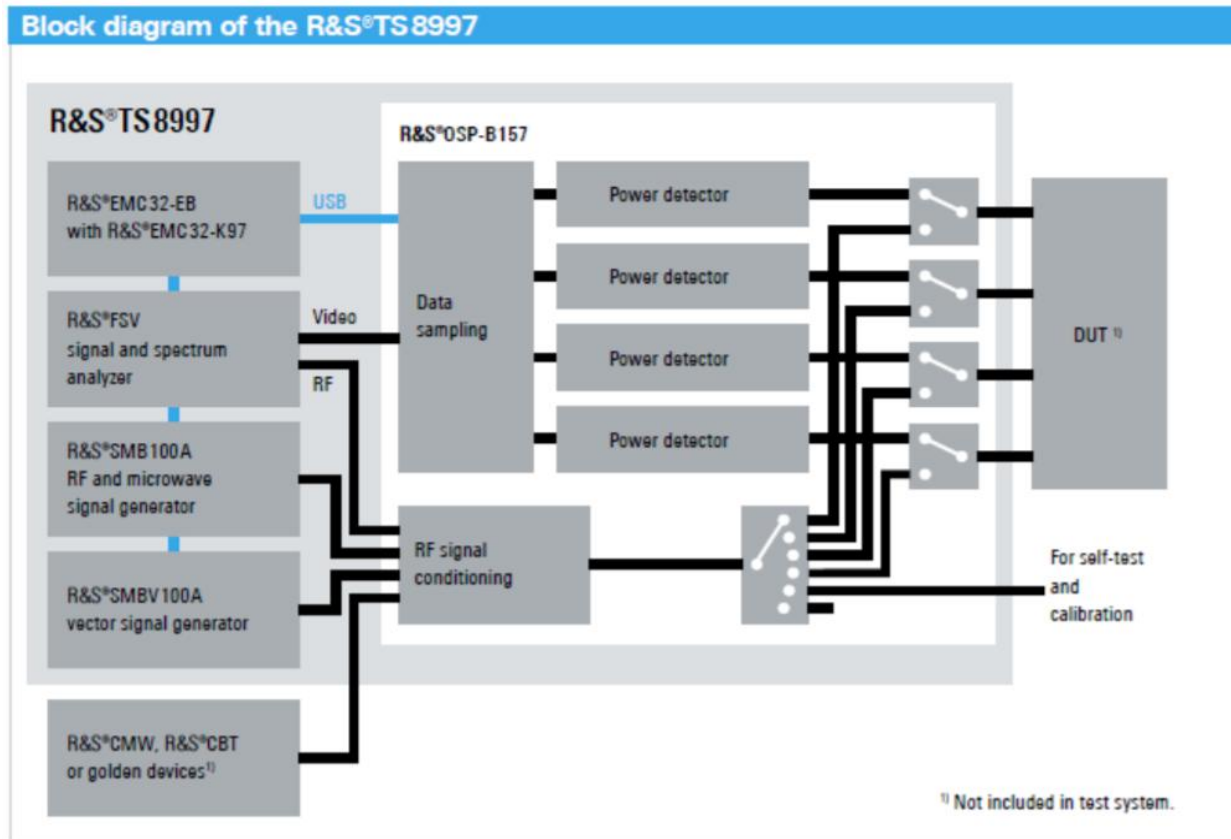


Diagram 1: Test Configuration Block Diagram

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	N/A
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 C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024, 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 2027. 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 2027.

Unified Compliance Laboratory has been assigned Registration Number 376708 by the FCC, MRA Designation Number US5037 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-2500	11/18/2025	11/18/2026
LISN	AFJ	LS16C/10	UCL-2512	8/12/2025	8/12/2026
ISN	Teseq	ISN T800	UCL-2971	3/4/2026	3/4/2027
AC Power Source	Laplace Instruments	AC1000A	UCL-2857	N/A	N/A
Test Software	UCL	Revision 1	UCL-3107	N/A	N/A
Cable	-	-	UCL-8736	7/2/2025	7/2/2026

Table 1: List of equipment used for Conducted Emissions Testing at Mains Port

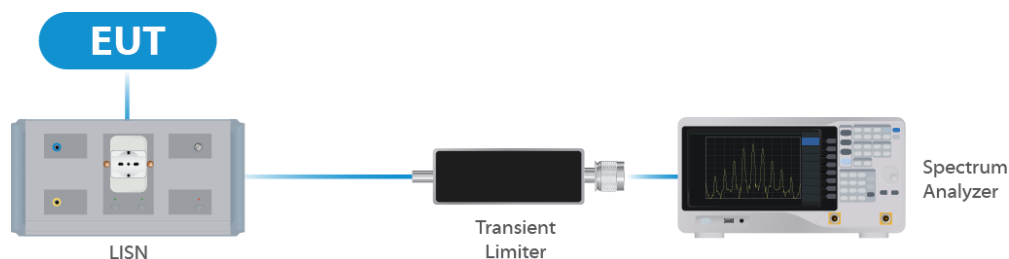


Figure 1: Conducted Emissions Test

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	3/18/2026	3/18/2027
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	4/7/2026	4/7/2027
Switch Extension	R&S	OSP-150W	UCL-2870	4/6/2026	4/6/2027
Test Software	R&S	EMC32	UCL-9442	--	--
Cables	-	-	UCL2870 & 2870	4/20/2026	4/20/2027

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

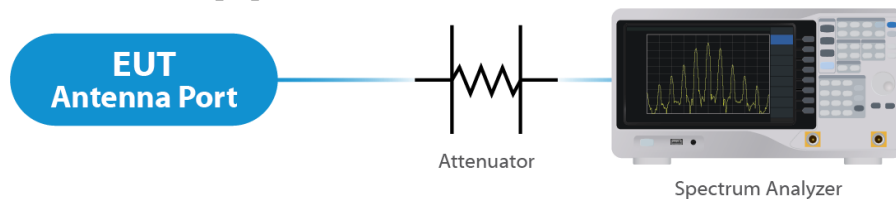


Figure 2: Direct Connect at the Antenna Port Test

4.3 Radiated Emissions

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Test Software	Nexio	BatEMC	UCL-5253 & UCL-5249	N/A	N/A
30-1000MHz					
EMI Receiver	Keysight	N9038A	UCL-2778	12/18/2025	12/18/2026
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-4793	7/22/2025	7/22/2026
Antenna	Scwarzbeck	VULB 9163	UCL-3062	12/16/2025	12/16/2027
Cables	-	-	UCL-5874, UCL-5879, UCL-4991	7/22/2025	7/22/2026
1-17GHz					
EMI Receiver	Keysight	N9048B	UCL-10802	12/18/2025	12/18/2026
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	4/2/2025	4/2/2027
1 – 18 GHz Amplifier	EMC Shop	PA18G	UCL-5896	7/22/2025	7/22/2026
Cables	-	-	UCL-4989, UCL-9325, UCL-5479	7/22/2025	7/22/2026
Filter	Micro-Tronic	BRM50702	UCL-4165	7/22/2025	7/22/2026
18-40GHz					
EMI Receiver	Keysight	N9038A	UCL-2778	2/16/2026	2/19/2027
10 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	4/7/2025	4/7/2027
18-40GHz Amplifier	Mini-Circuits	ZVA-18403G+	UCL-7751	7/22/2025	7/22/2026
Cables	-	-	UCL-9325	7/22/2025	7/22/2026

Table 3: List of equipment used for Radiated Emissions

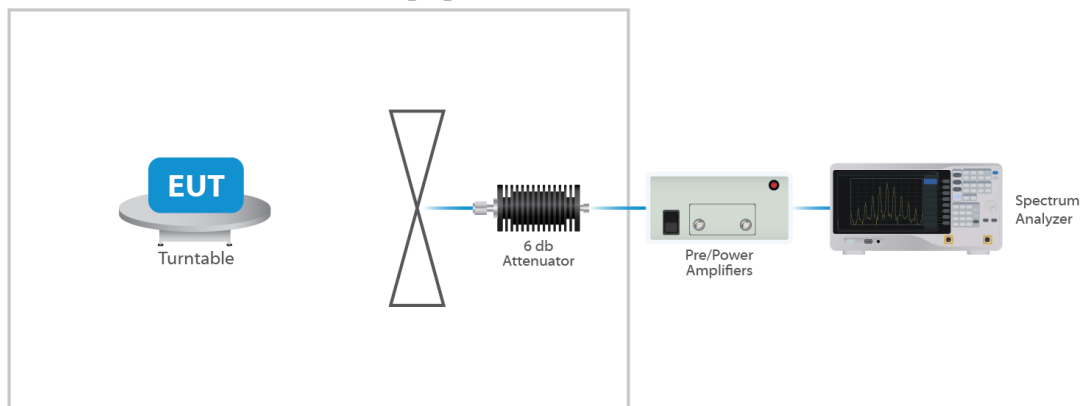


Figure 3: Radiated Emissions Test

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

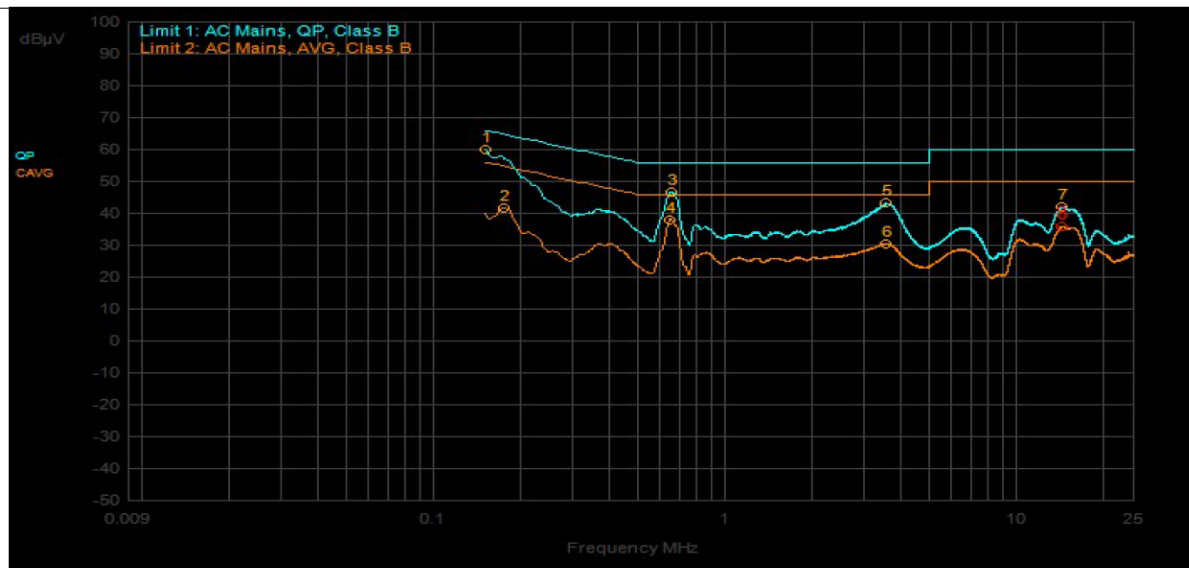
The EUT uses an integrated internal antenna. As per the manufacturer, the Maximum gain of the antenna is -5 dBi. The antenna is not user replaceable.

Results

The EUT complied with the specification

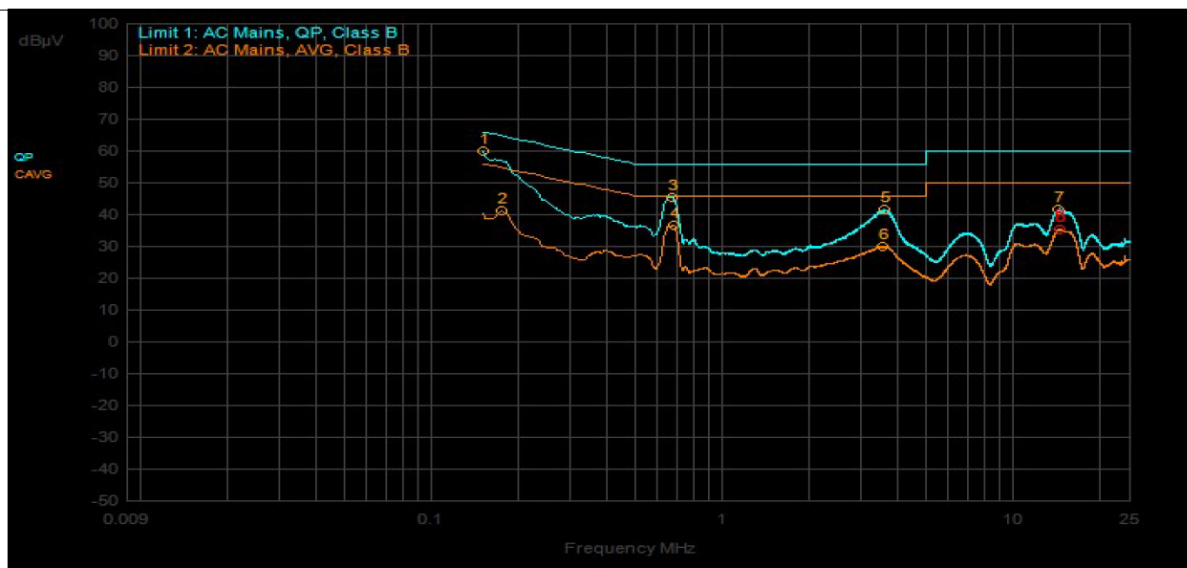
5.2 §15.207 Conducted Emissions at Mains Ports Data

5.2.1 Line



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	150,000kHz	12.34	0.00		QPeak	47.52	59.86	66.00	-6.14			
3	651,000kHz	12.33	0.00		QPeak	34.32	46.65	56.00	-9.35			
5	3.552	12.30	0.00		QPeak	30.90	43.20	56.00	-12.80			
7	14.106	12.37	0.07		QPeak	29.62	42.06	60.00	-17.94			
2	174,000kHz	12.34	0.00		C_AVG	29.52	41.86			54.77	-12.91	
4	642,000kHz	12.32	0.00		C_AVG	25.77	38.09			46.00	-7.91	
6	3.534	12.30	0.00		C_AVG	18.12	30.42			46.00	-15.58	
8	14.106	12.37	0.07		C_AVG	23.38	35.82			50.00	-14.18	

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
1	150,000kHz	12.29	0.00		QPeak	47.88	60.17	66.00	-5.83			
3	666,000kHz	12.33	0.00		QPeak	33.06	45.39	56.00	-10.61			
5	3.600	12.31	0.00		QPeak	29.27	41.58	56.00	-14.42			
7	14.238	12.23	0.07		QPeak	29.46	41.76	60.00	-18.24			
2	174,000kHz	12.32	0.00		C_AVG	28.81	41.13			54.77	-13.63	
4	678,000kHz	12.33	0.00		C_AVG	24.36	36.69			46.00	-9.31	
6	3.543	12.31	0.00		C_AVG	17.61	29.92			46.00	-16.08	
8	14.292	12.23	0.07		C_AVG	23.00	35.30			50.00	-14.70	

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	0.67	1.00
2442	0.65	1.00
2480	0.67	1.00

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 8.31 dBm or 6.78 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 dBi.

Frequency (MHz)	Measured Output Power (dBm)	Output Power (mW)
2402	7.15	5.19
2442	8.15	6.53
2480	8.31	6.78

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 were 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.

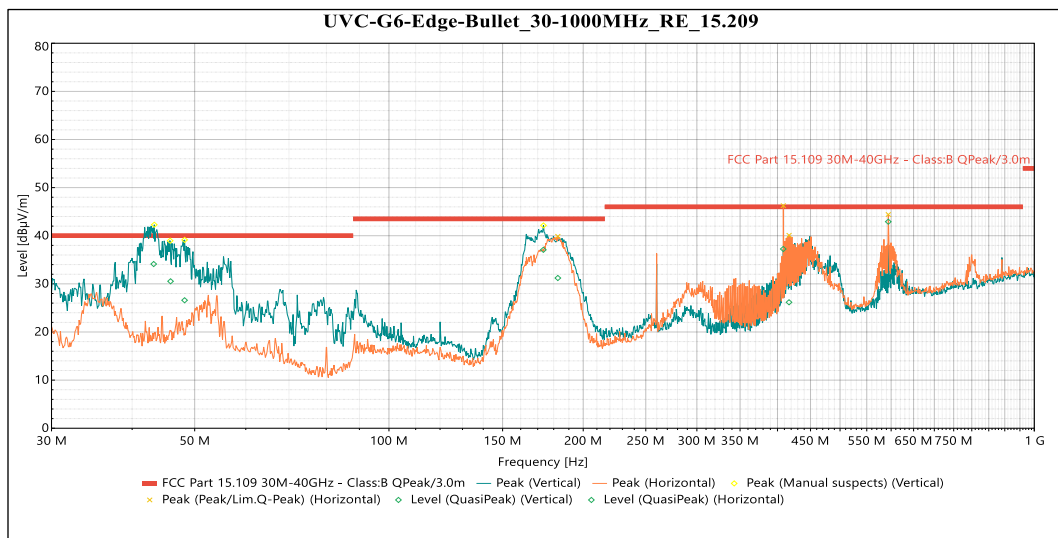
5.5.2 Radiated Spurious Emissions in the Restricted Bands of §15.205

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.

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

Result

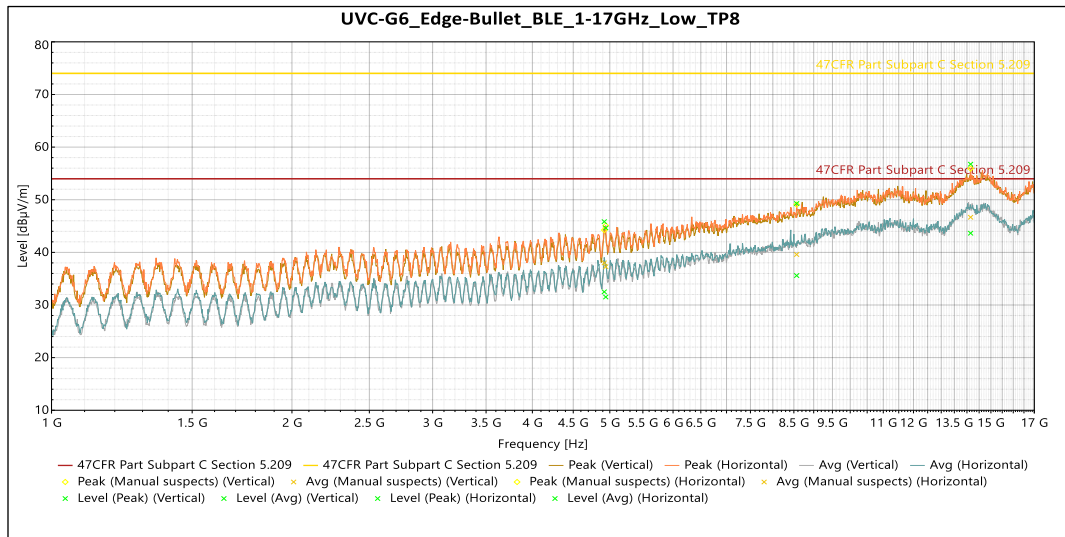
All emissions in the restricted bands of §15.205 met the limits specified in §15.209; therefore, the EUT complies with the specification.



QuasiPeak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
43.2 MHz	34.12	40	-5.88	234	1.14	Vertical	-13.191
45.878 MHz	30.537	40	-9.463	123	1.87	Vertical	-12.819
48.233 MHz	26.595	40	-13.405	79	1.14	Vertical	-12.886
173.47 MHz	37.075	43.5	-6.425	236	1.14	Vertical	-16.935
182.69 MHz	31.216	43.5	-12.284	320	1.53	Horizontal	-16.336
408.33 MHz	37.249	46	-8.751	81	1.14	Horizontal	-9.133
416.8 MHz	26.175	46	-19.825	132	2.4	Horizontal	-8.923
593.95 MHz	42.916	46	-3.084	111	1.5	Horizontal	-5.603

Table 4: Radiated Emissions 30 – 1000 MHz



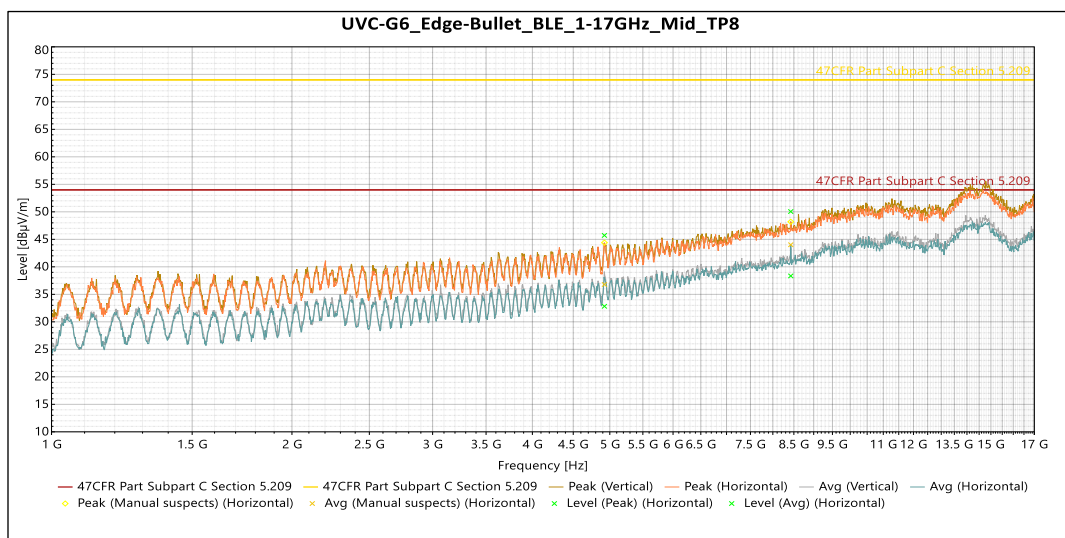
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
4.92 GHz	45.84	74.0	-28.16	112	2.828	Vertical	-7.43
4.94 GHz	44.64	74.0	-29.36	9	3.318	Horizontal	-7.36
8.57 GHz	49.28	74.0	-24.72	185	3.81	Horizontal	1.91
14.15 GHz	56.76	74.0	-17.24	267	3.812	Horizontal	11.24

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
4.92 GHz	32.50	54.0	-21.50	112	2.828	Vertical	-7.43
4.94 GHz	31.52	54.0	-22.48	9	3.318	Horizontal	-7.36
8.57 GHz	35.59	54.0	-18.41	185	3.81	Horizontal	1.91
14.15 GHz	43.64	54.0	-10.36	267	3.812	Horizontal	11.24

Table 5: Radiated Emissions 1 – 17 GHz at the Lowest Frequency



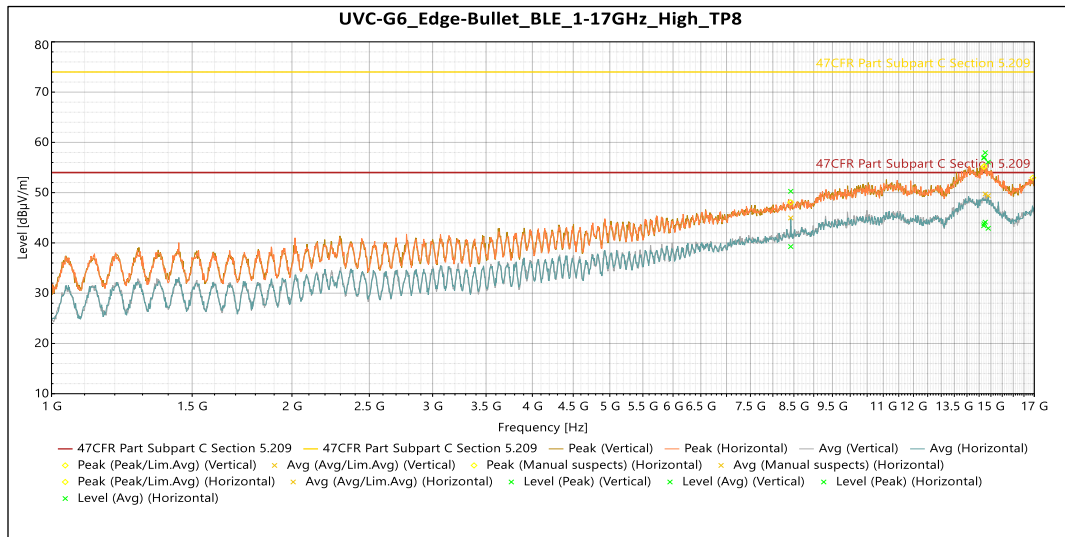
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
No significant emissions were observed in the vertical orientation of the antenna							
4.92 GHz	45.71	74.0	-28.29	260	3.809	Horizontal	-7.43
8.42 GHz	50.05	74.0	-23.95	358	3.808	Horizontal	1.66

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
No significant emissions were observed in the vertical orientation of the antenna							
4.92 GHz	32.82	54.0	-21.18	260	3.809	Horizontal	-7.43
8.42 GHz	38.34	54.0	-15.66	358	3.808	Horizontal	1.66

Table 6: Radiated Emissions 1 – 17 GHz at the Middle Frequency



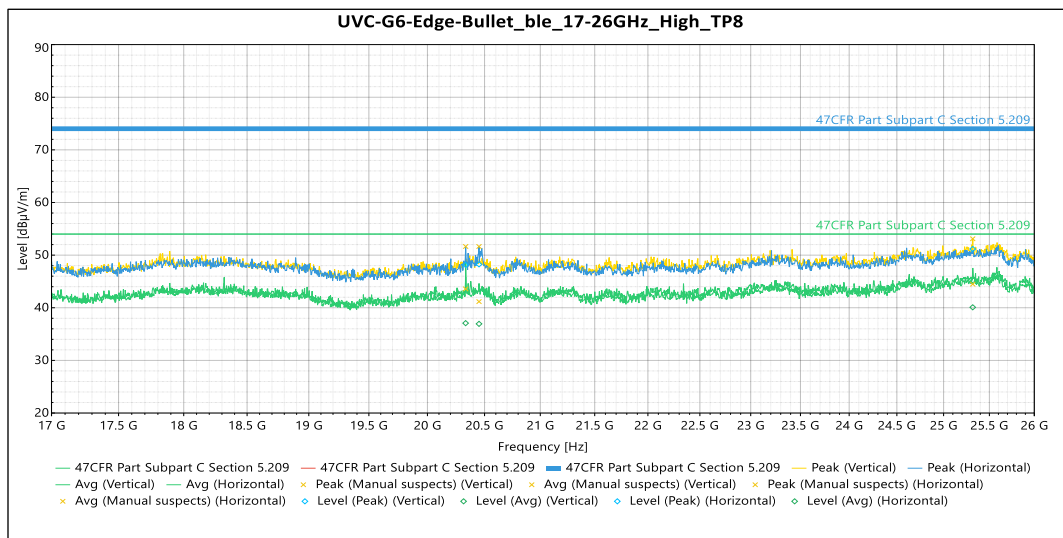
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
14.70 GHz	56.89	74.0	-17.11	345	2.828	Vertical	11.93
14.76 GHz	57.95	74.0	-16.05	232	3.318	Vertical	11.95
8.42 GHz	50.26	74.0	-23.74	2	3.317	Horizontal	1.66
14.71 GHz	57.02	74.0	-16.98	306	3.322	Horizontal	11.89
14.89 GHz	56.07	74.0	-17.93	260	2.828	Horizontal	11.66

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
14.70 GHz	43.42	54.0	-10.58	345	2.828	Vertical	11.93
14.76 GHz	44.14	54.0	-9.86	232	3.318	Vertical	11.95
8.42 GHz	39.27	54.0	-14.73	2	3.317	Horizontal	1.66
14.71 GHz	43.81	54.0	-10.19	306	3.322	Horizontal	11.89
14.89 GHz	42.91	54.0	-11.09	260	2.828	Horizontal	11.66

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



Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
25.32 GHz	51.17	74.0	-22.83	247	Vertical	2.55
20.33 GHz	48.12	74.0	-25.88	133	Horizontal	-0.23
20.45 GHz	48.25	74.0	-25.75	140	Horizontal	0.04

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
25.32 GHz	40.09	54.0	-13.91	247	Vertical	2.55
20.33 GHz	37.07	54.0	-16.93	133	Horizontal	-0.23
20.45 GHz	36.94	54.0	-17.06	104	Horizontal	0.04

Table 8: Radiated Emissions 17 – 26 GHz at the Highest Frequency (worse case)

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	1.31	8.0
2442	2.12	8.0
2480	2.40	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 --