

Patrol 6, LLC

TEST REPORT

SCOPE OF WORK

FCC TESTING— P1

REPORT NUMBER

260317073SZN-006

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Patrol 6, LLC

Application for Certification

FCC ID: 2BVFCP6-BC-V1

Body worn camera

Model: P1

Brand Name: Patrol 6

13.56MHz Transceiver

Report No.: 260317073SZN-006

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-24]

Prepared and Checked by:



Draven Li
Sr. Project Engineer

Approved by:



Johnny Wang
Project Engineer
Date: 22 April 2026

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MEASUREMENT/TECHNICAL REPORT

This report concerns (check one:) Original Grant ☒ Class II Change ☐

Equipment Type: DXX - Part 15 Low Power Communication Device Transmitter

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes ☐ No ☒

If yes, defer until: _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes ☐ No ☒

If no, assumed Part 15, Subpart C for intentional radiator – the new 47 CFR [10-1-24 Edition] provision.

Report prepared by:

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1.0 **Summary of Test Result**

Applicant: Patrol 6, LLC

Applicant Address: 2843 E. Robin Lane Phoenix, AZ 85050 USA

Manufacturer: Patrol 6, LLC

Manufacturer Address: 2843 E. Robin Lane Phoenix, AZ 85050 USA

MODEL: P1**FCC ID: 2BVFCP6-BC-V1**

Test Specification	Reference	Results
Transmitter Radiated Emission	15.225(a)(b)(c) &15.209 &15.205	Pass
Band edge		
Frequency Stability	15.225(e)	Pass
20dB Bandwidth	15.215(c)	Pass
AC Conducted Emission	FCC 15.209	Pass

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

2.0 General Description

2.1 Product Description

The equipment under test (EUT) is a Body worn camera with Bluetooth 4.1(dual-mode) function operating in 2402-2480MHz, 2.4G WIFI function operating in 2412-2462MHz and 5G WIFI function operating in 5150MHz~5250 MHz, 5725MHz~5850MHz, LTE function operating in Band 2/4/5/12/17/30/66/71, NFC function operating in 13.56MHz. The EUT can be powered by DC 5V 2A by adapter or DC 3.8V rechargeable battery. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: OOK

Antenna Gain: -9.5dBi max (This information is provided by applicant, and the applicant is responsible for the authenticity of the provided information.)

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

2.2 Related Submittal(s) Grants

This is an application for certification of the Body worn camera which has NFC function.

For the Bluetooth (EDR) function was reported in report: 260317073SZN-001.

For the Bluetooth (BLE) function was reported in report: 260317073SZN-002.

For the 2.4G WIFI function was reported in report: 260317073SZN-003.

For the 5G WIFI function was reported in report: 260317073SZN-004.

For the LTE function was reported in report: 260317073SZN-005.

For other digital functions were reported in the SDOC report: 260317073SZN-008.

2.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.10 (2020). Radiated emission measurement was performed in Semi-anechoic chamber. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst-case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

2.4 Test Facility

The Semi-anechoic chamber used to collect the radiated data is **Intertek Testing Services Shenzhen Ltd. Longhua Branch** and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community GuanHu Subdistrict, LongHua District, Shenzhen, People's Republic of China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: CN1188).

3.0 System Test Configuration

3.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.10 (2020).

The EUT was powered by DC 3.8V full rechargeable battery or DC 5V/2A by adapter during the test, only the worst data was reported in this report.

For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the bottom of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data reported in Section 4.

The EUT was operated standalone and placed in the central of the turntable.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was placed on a turn table, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst-case configuration is used in all specified testing.

The parameters of test software setting:

During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

Test Software: Nonsignaling operation platform

3.3 Special Accessories

No special accessories used.

3.4 Equipment Modification

Any modifications installed previous to testing by Patrol 6, LLC will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd Longhua Branch.

3.5 Measurement Uncertainty

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

Measurement Uncertainty	Uncertainty
Occupied Channel Bandwidth	±3.46%
Frequency Stability	±0.64KHz
Conducted Unwanted Emission	±0.55dB
Radiated emission (Up to 1GHz)	±4.8dB
AC Conducted emission	±3.2dB
Temperature	±1°C
Humidity	±5%

3.6 Support Equipment List and Description

Description	Manufacturer	Model No.
Laptop (Provided by Intertek)	DELL	Latitude 3480
Router (Provided by Intertek)	NETGEAR	Model: R7800
Adapter (Provided by Applicant)	Dongguan Kaisheng electronic technology co., LTD	Input: 100-240V~ 50/60Hz 0.3A Output: 5V=2A
Type-C Cable (Provided by Applicant)	N/A	Unshielded, Length 1.0m

4.0 Emission Results

Data is included worst-case configuration (the configuration which resulted in the highest emission levels).

4.1 Radiated Test Results

A sample calculation, configuration photographs and data tables of the emissions are included.

4.1.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD + AV$$

Where

- FS = Field Strength in dB μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB/m
- AG = Amplifier Gain in dB
- PD = Pulse Desensitization in dB
- AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

Assume a receiver reading of 62.0 dB μ V is obtained. The antenna factor of 7.4 dB/m and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB/m}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$AV = -10 \text{ dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(42 \text{ dB}\mu\text{V/m})/20] = 125.9 \mu\text{V/m}$$

4.1.2 Radiated Emission Configuration Photograph

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos. pdf.

4.1.3 Radiated Emissions

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Worst Case Radiated Emission
at
379.685000 MHz

Judgement: Passed by 6.5 dB

TEST PERSONNEL:

Sign on file

Draven Li, Sr. Project Engineer
Typed/Printed Name

30 March 2026
Date

Applicant: Patrol 6, LLC

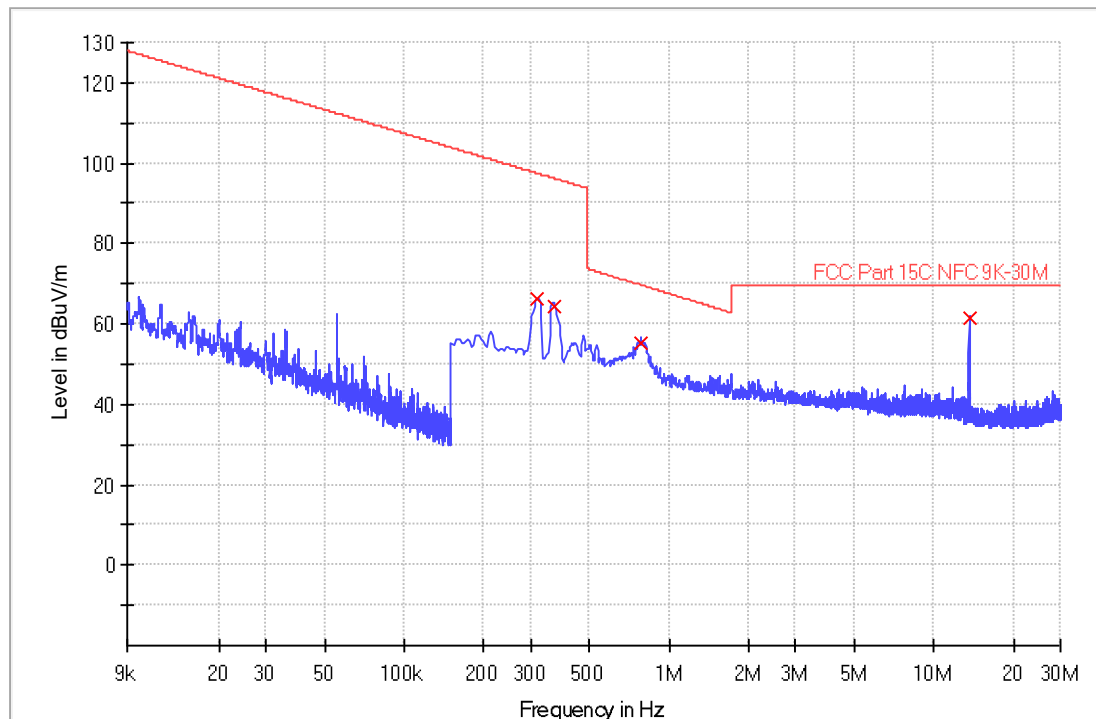
Date of Test: 30 March 2026

Worst Case Operating Mode:

Model: P1

Transmitting

Table 1
Fundamental & Spurious Emission Below 30MHz
FCC Part 15C NFC 9K-30M(dBuV)



Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	13.560000	49.4	0	12.3	61.7	69.5	-7.8
Horizontal	0.317906	51.0	0	15.2	66.2	97.5	-31.3
Horizontal	0.366413	49.5	0	15.1	64.6	96.3	-31.7
Horizontal	0.780581	40.4	0	15.0	55.4	69.7	-14.3

Table 2
Spurious emission (30MHz ~ 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	565.569333	28.8	20	19.6	28.4	46.0	-17.6
Horizontal	695.193667	37.3	20	13.3	30.6	46.0	-15.4
Horizontal	942.058667	29.5	20	24.5	34.0	46.0	-12.0

NOTES:

1. Peak Detector Data unless otherwise stated.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative sign in the column shows value below limit.
4. Loop antenna is used for the emissions below 30 MHz
5. Limits at 3 meters for radiated emissions below 30 MHz is converted from the Limits at 30 meter according to the Formula:
Limits at 3 meters (dBμV/m) = Limits at 30 meter (dBμV/m) + 40 log (30/3)
6. All directions had been tested, but only worst-case data record in report.

4.2 Conducted Emission at Mains Terminal

3.2.1 Conducted Emissions Configuration Photograph

For electronic filing, the worst case conducted emission configuration photograph is saved with filename: conducted photos.pdf.

4.2.2 Conducted Emissions

Worst Case Conducted Configuration

at 0.598000 MHz

Judgement: Passed by 6.0 dB margin

TEST PERSONNEL:

Sign on file

Draven Li, Sr. Project Engineer

Typed/Printed Name

30 March 2026

Date

Applicant: Patrol 6, LLC

Date of Test: 30 March 2026

Worst Case Operating Mode:

Worst Case Test Voltage: AC 120V/60Hz

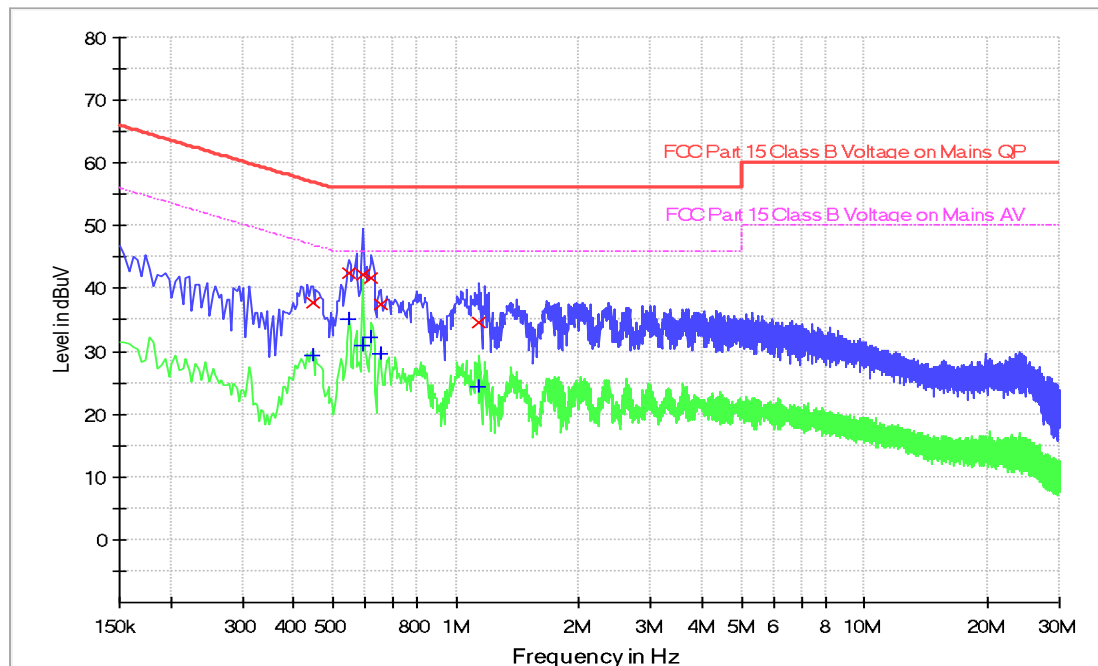
Phase: Live

Model: P1

Transmitting

Conducted Emission Test - FCC

Conducted Emission Test - FCC Part 15



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.446000	37.8	9.000	L1	9.8	19.1	56.9
0.546000	42.6	9.000	L1	9.8	13.4	56.0
0.590000	42.1	9.000	L1	9.8	13.9	56.0
0.622000	41.8	9.000	L1	9.8	14.2	56.0
0.654000	37.5	9.000	L1	9.8	18.5	56.0
1.142000	34.5	9.000	L1	9.8	21.5	56.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.446000	29.5	9.000	L1	9.8	17.4	46.9
0.546000	35.0	9.000	L1	9.8	11.0	46.0
0.590000	30.9	9.000	L1	9.8	15.1	46.0
0.622000	32.2	9.000	L1	9.8	13.8	46.0
0.654000	29.6	9.000	L1	9.8	16.4	46.0
1.142000	24.3	9.000	L1	9.8	21.7	46.0

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) = Limit (dBuV) – Level (dBuV)

Applicant: Patrol 6, LLC

Date of Test: 30 March 2026

Worst Case Operating Mode:

Worst Case Test Voltage: AC 120V/60Hz

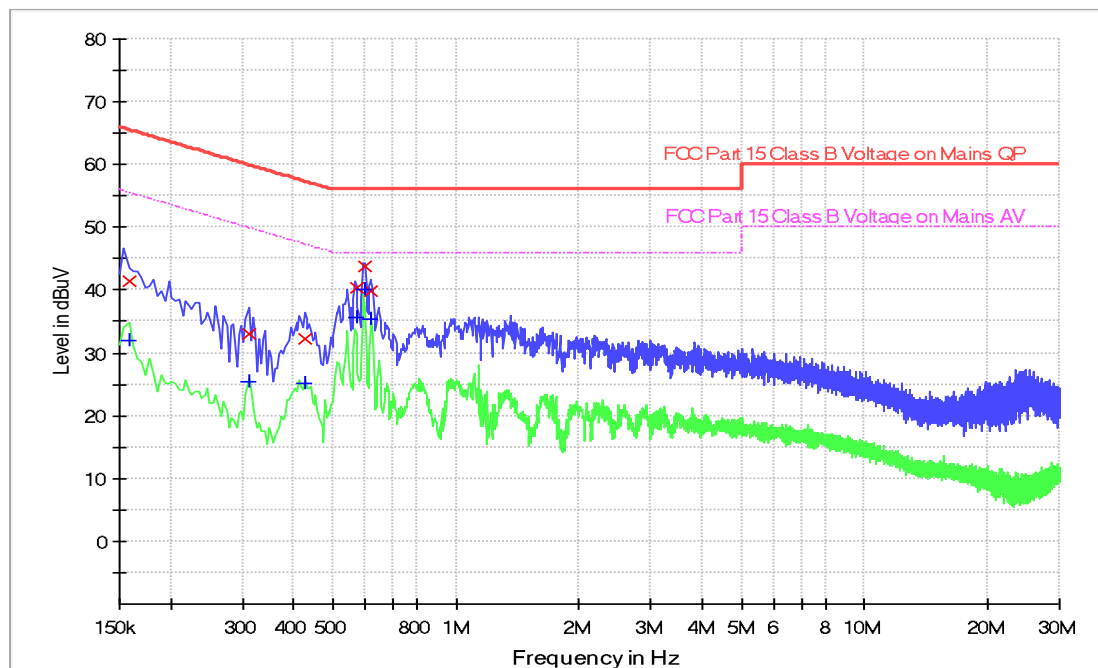
Phase: Neutral

Model: P1

Transmitting

Conducted Emission Test - FCC

Conducted Emission Test - FCC Part 15



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.158000	41.3	9.000	N	9.7	24.3	65.6
0.310000	32.9	9.000	N	9.7	27.1	60.0
0.426000	32.3	9.000	N	9.7	25.0	57.3
0.570000	40.5	9.000	N	9.7	15.5	56.0
0.598000	43.8	9.000	N	9.7	12.2	56.0
0.622000	39.9	9.000	N	9.7	16.1	56.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.158000	32.0	9.000	N	9.7	23.6	55.6
0.310000	25.5	9.000	N	9.7	24.5	50.0
0.426000	25.1	9.000	N	9.7	22.2	47.3
0.570000	35.6	9.000	N	9.7	10.4	46.0
0.598000	40.0	9.000	N	9.7	6.0	46.0
0.622000	35.3	9.000	N	9.7	10.7	46.0

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Limit (dBuV) – Level (dBuV)

4.3 Frequency Stability

If required, the operating or transmitting frequency of an intentional radiator should be measured in accordance with the following procedure to ensure that the device operates outside certain precluded frequency bands and within the frequency range. No modulation needs to be supplied to the intentional radiator during these tests, unless modulation is required to produce an output, e.g., single-sideband suppressed carrier transmitters.

The frequency stability of the transmitter is measured by:

- Temperature: The temperature is varied from -20°C to + 55°C using an environmental chamber.
- for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20°C.

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

Measurement Result:

Voltage (%)	Power	Temperature (°C)	Frequency (MHz)	Limit	Result
100	3.8Vdc	-20	13.560000	$\pm 0.01\%$ ($\pm 1356\text{Hz}$)	Pass
		-10	13.560000		Pass
		0	13.560000		Pass
		10	13.560000		Pass
		20	13.560000		Pass
		30	13.560000		Pass
		40	13.560000		Pass
		50	13.560000		Pass

Temperature (°C)	Power	Voltage (%)	Frequency (MHz)	Limit	Result
20	3.8Vdc	85	13.560000	$\pm 0.01\%$ ($\pm 1356\text{Hz}$)	Pass
		90	13.560000		Pass
		95	13.560000		Pass
		100	13.560000		Pass
		105	13.560000		Pass
		110	13.560000		Pass
		115	13.560000		Pass

Note: The device is deemed to comply with requirement of FCC Part 15.225(e).

5.0 Equipment Photographs

For electronic filing, the photographs of the tested EUT are saved with filename: external photos.pdf & internal photos.pdf.

6.0 Product Labelling

For electronic filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

7.0 Technical Specifications

For electronic filing, the block diagram and schematics of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

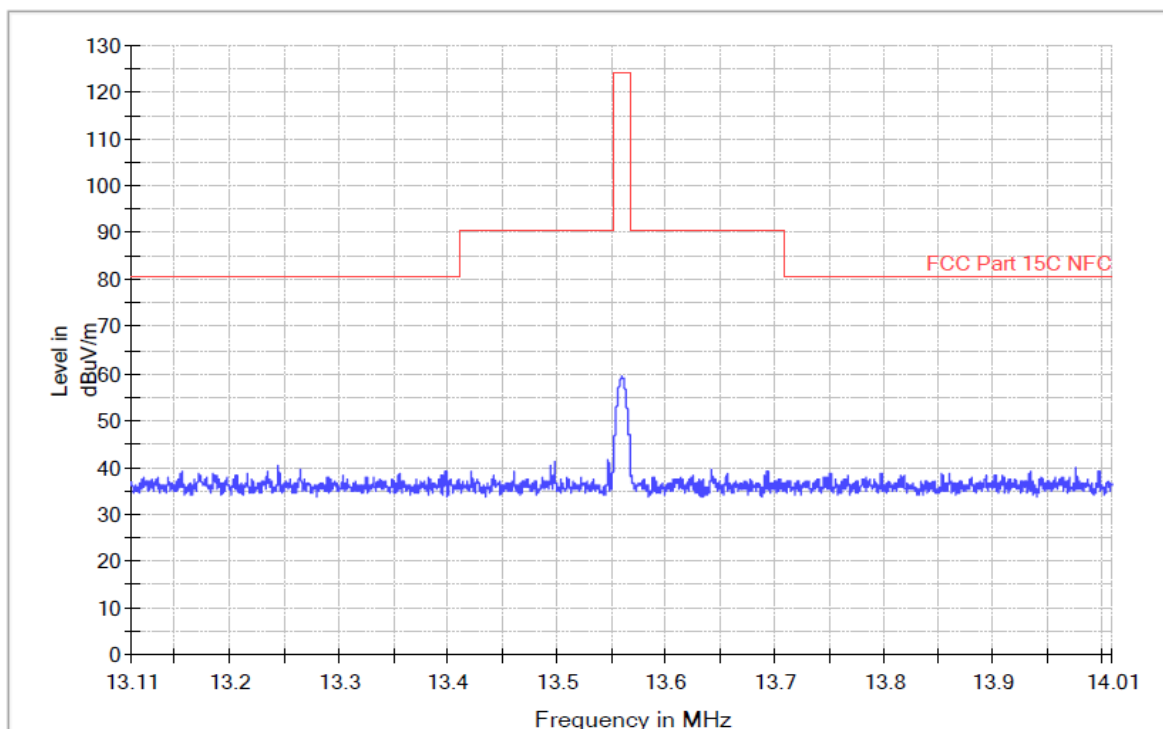
This manual will be provided to the end-user with each unit sold/leased in the United States.

9.0 Miscellaneous Information

This miscellaneous information includes details of the measured band edge, 20dB Bandwidth, the test procedure and calculation of factor such as pulse desensitization.

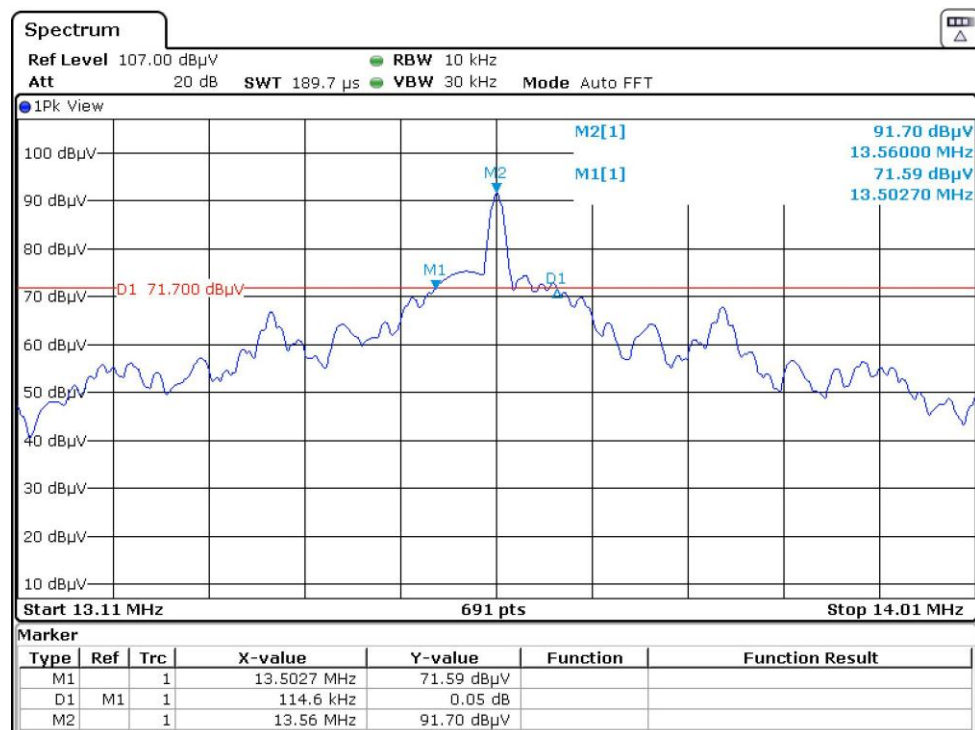
9.1 Band edge Plot

The test plots are attached as below. From the plot, the field strength of any emissions is below the limit of 90.5dBuV/m in the range of outside of (13.410–13.553 MHz and 13.567–13.710 MHz) and the limit of 80.5dBuV/m in the frequency range of (13.110-13.410MHz and 13.710-14.010MHz). Therefore, they meet the requirement of Section 15.225(b), (c).



9.2 20dB Bandwidth

Pursuant to FCC part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designated (13.110-14.010MHz) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered. The test plots are reported as below.



9.3 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

9.4 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of transmitters operating under Part 15, Subpart C rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.10 - 2020.

The transmitting equipment under test (EUT) is placed on a styrene turntable which is four feet in diameter and approximately 0.8 meter up to 1GHz in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

Detector function for radiated emissions is in peak mode. The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz up to the 1GHz.

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

The IF bandwidth used for measurement of radiated signal strength was 10 kHz for emission below 30 MHz and 120 kHz for emission from 30 MHz to 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Section 9.3).

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, but those measurements taken at a closer distance are so marked.

10.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-13	BiConiLog Antenna	ETS	3142E	00166158	29-May-2025	29-May-2028
SZ185-03	EMI Receiver	R&S	ESR7	101975	13-Apr-2025	13-Apr-2026
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	05-May-2024	05-May-2027
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	21-Apr-2025	21-Apr-2026
SZ056-06	Signal Analyzer	R&S	FSV 40	101101	01-Dec-2025	01-Dec-2026
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	12-Dec-2021	12-Dec-2026
SZ062-23	RF Cable	RADIALL	SF104PE	--	15-Sep-2025	15-Sep-2026
SZ062-35	RF Cable	RADIALL	A50-3.5M3.5M-8M	--	15-Sep-2025	15-Sep-2026
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	--	21-Apr-2025	21-Apr-2026
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	30-Jun-2025	30-Jun-2026
SZ187-01	Two-Line V-Network	R&S	ENV216	100072	27-Oct-2025	27-Oct-2026
SZ187-02	Two-Line V-Network	R&S	ENV216	100072	25-Apr-2025	25-Apr-2026
SZ062-16	RF Cable	HUBER+SUHNER	CBL2-BN-1m	110127-2231000	30-Jun-2025	30-Jun-2026
SZ188-03	Shielding Room	ETS	RFD-100	4100	20-Dec-2022	20-Dec-2027
SZ006-05	DC Power Supply	Guwei	GPS-3030DD	E1811323	14-Dec-2023	14-Dec-2024