



Permissive Change Application For

Part 2, Subpart J, Paragraph 2.907 Equipment Authorization of Certification for an Intentional Radiator per Part 15, Subpart E, paragraphs 15.401, 15.403, 15.405 and 15.407

For the

Rocket Drone

Model: V1 FRSKY

FCC ID: 2A8GI-V1FRSKY

UST Project: 26-0131

Issue Date: June 26, 2026

Total Pages in This Report : 35

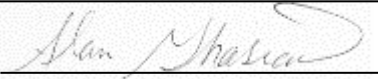
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I certify that I am authorized to sign for the Test Agency and that the statements in this report and in the Exhibits attached hereto are true and correct to the best of my knowledge and belief:

US TECH (Agent Responsible for Test):

By: Alan Ghasiani

Name: 

Title: Compliance Engineer – President

Date June 26, 2026



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MEASUREMENT TECHNICAL REPORT

COMPANY NAME: Rocket Drone
MODEL: V1 FRSKY
FCC ID: 2A8GI-V1FRSKY
DATE: June 26, 2026

This report concerns (check one): ☐ Original grant
☒ Class II change

Equipment type: 5 GHz Radio

Technical:	
Type of modulation:	FM
Data/Bit Rate:	N/A
Antenna Gain:	+3.68 dBi (@ 5750 MHz)
Maximum Output Power:	+13.28 dBm (Measured)
Software used to program EUT:	Proprietary software
EUT firmware number:	N/A
Power setting:	25 mW

☒ **Disclaimer (check if applicable):**

Unless otherwise noted, the information presented in this section has been provided by the client and is assumed to be accurate and complete. All calculations, assessments, and conclusions herein are based on the client-supplied data. The testing laboratory has not independently verified this information and shall not be held responsible for any inaccuracies or omissions in the client-provided content.

Report prepared by:

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Alpharetta, GA 30004

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List of Attachments

Agency Agreement	Internal Photographs
Application Forms	External Photographs
Letter of Confidentiality	Antenna Photographs
Equipment Label(s)	Theory of Operation
Block Diagram(s)	RF Exposure
Schematic(s)	User's Manual
Test Configuration Photographs	

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1 General Information

1.1 Purpose of this Report

This report is prepared to convey test results and information concerning the suitability of this exact product for Class II Permissive Change (C2PC) certification as an intentional transmitter device intended for public distribution according to the FCC Rules and Regulations Part 15, Section 407.

To optimize the device platform for educational assembly, field serviceability and user accessibility, a strategic hardware redesign was implemented. This update separates the 5.8 GHz Video Transmitter (VTX) circuitry from the original All-In-One (AIO) design and replaces direct solder points for the peripheral LED systems with a plug and play interface. No changes were made to the transmitter circuitry and the device remains electrically identical and all functionality remain the same.

Additionally, the client is adding a new antenna:

Manufacturer: Zhongruicheng Communication Equipment Co., Ltd
Model/Part Number: TZD-P5800Z3-009
Frequency range: 5600-5900 MHz
Gain: 3 dBi

No other hardware changes have been made to the original product nor were there any changes to the transmitter circuitry. The changes described in this filing results in the same RF characteristics as in the original filing and all other original test results continue to be representative of the equipment. There is no increase in the output power The device remains the same equipment class and there are no other changes to the device that indicate a need for a new FCC or IC ID.

Radiated emissions measurements were performed to show that the new antenna does not cause the device to fall out of compliance. Test results are present herein.

1.2 Characterization of Test Sample

The sample used for testing was received by US Tech on May 21, 2026 in good operating condition.

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1.3 Product Description

The Equipment under Test (EUT) is the Rocket Drones Model V1 FRSKY. The EUT is a is an educational RC toy drone for drone pilot training. The EUT uses the 5 GHz radio for camera feeds and also incorporates a 2.4 GHz receiver for remote control communication.

Antenna Gain: +3 dBi (omni-directional)
Bandwidth: 3.8 MHz bandwidth modulation
Maximum Output Power: +13.28 dBm

1.4 Configuration of Tested System

The Test Sample was tested per *ANSI C63.10 (2020)+COR1(2023)*, *American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices* for the intentional radiator aspect of the device and *ANSI C63.4:2014*, *Methods of Measurement of Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (2014)* for the unintentional radiator aspect of the device as well as FCC subpart B and C of Part 15.

A list of EUT and Peripherals is found in Table 1 below. A block diagram of the tested system is shown in Figure 1. Test configuration photographs are provided in separate Appendices.

1.5 Test Facility

Testing was performed at US Tech's measurement facility at 3505 Francis Circle, Alpharetta, GA 30004. This site has been fully described and registered with the FCC. Its designation number is US5301. Additionally, this site has also been fully described and submitted to Industry Canada (IC) and has been approved under file number 9900A-1.

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1.6 Related Submittals

The EUT is subject to the following FCC authorizations:

- a) Certification under section 15.407 as a transmitter.

Table 1. EUT and Peripherals

PERIPHERAL MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC/IC ID	CABLES P/D
EUT/ Rocket Drones	V1 FRSKY	Sample 2	FCC ID: 2A8GI- V1FRSKY	N/A
DC Power Supply TekPower	TP3005T	527564	None	PU
Fan ShenZhen	Zf-0601CT	1211	None	PU
Antenna See antenna details	--	--	--	--

U= Unshielded S= Shielded P= Power D= Data

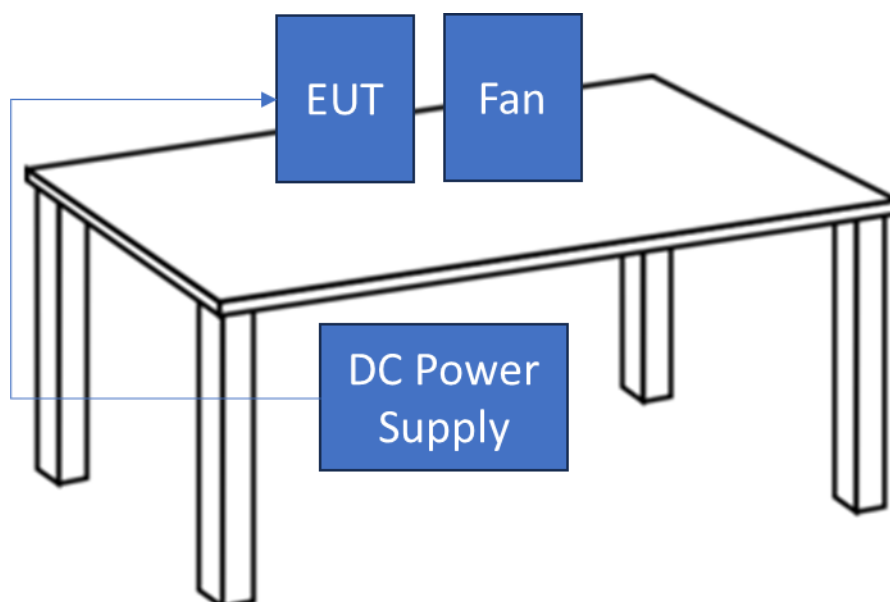


Figure 1. Block Diagram of Test Configuration

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2 Tests and Measurements

2.1 Test Equipment

The table below lists test equipment used to evaluate this product. Model numbers, serial numbers and their calibration status are indicated.

Table 2. Test Instruments

TEST INSTRUMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DUE DATE
Spectrum Analyzer	Agilent	E4440A	US41442935	9/4/2027 2 yr. Cal
Biconical Antenna	EMCO	3110B	9307-1431	2/24/2027 2 yr. Cal
Log Periodic Antenna	EMCO	3146	9110-3236	11/15/2026 2 yr. Cal
Horn Antenna	A.H. Systems	SAS-571	605	3/18/2027 2 yr. Cal
Pre-Amplifier	Hewlett-Packard	8449B	3008A01275	2/12/2027
Pre-Amplifier	Hewlett-Packard	8447D	1937A01611	2/13/2027
RF Cable	US Tech	LMR400	None	7/7/2026
RF Cable	US Tech	ULC-3F-T-SM-SM	2146	1/14/2027
RF Cable	Time Microwave Systems	LMR400	None	1/14/2027
RF Cable	Time Microwave Systems	LMR400	19424	2/13/2027
RF Cable	Harbor Industries	LL142	A13355-3036	2/13/2027
Attenuator	MA Attenuator	20dB Atten	None	6/1/2027

Note: The calibration interval of the above test instruments are 12 months unless stated otherwise and all calibrations are traceable to NIST/USA.

2.2 Modifications to EUT Hardware

No physical modifications were made by US Tech to bring the EUT into compliance with FCC Part 15, Subpart C Intentional Radiator Limits for the transmitter portion of the EUT or the Subpart B Unintentional Radiator Limits (Receiver and Digital Device) Requirements.

2.3 Number of Measurements for Intentional Radiators (15.31(m))

Measurements of intentional radiators or receivers shall be performed and reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in Table 3 below.

Table 3. Number of Test Frequencies for Intentional Radiators

Frequency Range Over Which the Device Operates	Number of Frequencies	Location in the Range of Operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near the top 1 near the bottom
Greater than 10 MHz	3	1 near top 1 near middle 1 near bottom

Because the EUT operates at 5732 MHz to 5840 MHz, 3 test frequencies were used.

2.4 Frequency Range of Radiated Measurements (Part 15.33)

2.4.1 Intentional Radiator

The spectrum shall be investigated for the intentional radiator from the lowest RF signal generated in the EUT without going below 9 kHz to the 10th harmonic of the highest fundamental frequency generated or 40 GHz (whichever is the lowest).

2.4.2 Unintentional Radiator

For the digital device, an unintentional radiator, the frequency range shall be 30 MHz to 1000 MHz or up to 5 times the highest internal clock frequency.

2.5 Measurement Detector Function and Bandwidth (CFR 15.35)

The radiated and conducted emissions limits shown herein are based on the following:

2.5.1 Detector Function and Associated Bandwidth

On frequencies below 1000 MHz, the limits herein are based upon measurement equipment employing a CISPR Quasi-peak detector function and related measurement bandwidths (i.e. 9 kHz from 150 kHz to 30 MHz and 120 kHz from 30 MHz to 1000 MHz). Alternatively, measurements may be made with equipment employing a peak detector function as long as the same bandwidths specified for the Quasi-peak device are used.

2.5.2 Corresponding Peak and Average Requirements

Above 1000 MHz, radiated limits are based on measuring instrumentation employing an average detector function. When average radiated emissions are specified, there is also a corresponding Peak requirement, as measured using a peak detector, of 20 dB greater than the average limit. For all measurements above 1000 MHz the Resolution Bandwidth is at least 1 MHz.

2.5.3 Pulsed Transmitter Averaging

When the radiated emissions limit is expressed as an average value and the transmitter is pulsed, the measured field strength is determined by applying a Duty Cycle Correction Factor based upon dividing the total ON time during the first 100 ms period by 100 ms (or by the period if less than 100 ms). The duty cycle may be expressed logarithmically in dB.

NOTE: If the transmitter was programmed to transmit at >98% duty cycle, then, wherever applicable (where the detection mode was AVG) the duty cycle factor calculated will be applied.

2.6 EUT Antenna Requirements (CFR 15.203)

An intentional radiator is designed to ensure that no antenna other than that furnished by the responsible party will be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator is considered sufficient to comply with the provisions of this section. Only the antenna(s) listed in Table 4 will be used with this module.

Table 4. Allowed Antenna(s)

REPORT REFERENCE	MANUFACTURER	TYPE OF ANTENNA	MODEL	GAIN dBi	TYPE OF CONNECTOR
Antenna	Zhongruicheng Communication Equipment	Dipole	TZD-P5800Z3-009	+3.0	MHFI (U.FL Compatible)

2.7 Restricted Bands of Operation (Part 15.205)

Only spurious emissions can fall in the frequency bands of CFR 15.205. The field strength of these spurious emissions cannot exceed the limits of 15.209. Radiated harmonics and other spurious emissions are examined for this requirement.

2.8 Transmitter Duty Cycle (CFR 35 (c))

The EUT employs pulse transmission however for testing purpose the EUT was programmed to transmit at a rate >98%. The pulse transmission requirements of this subpart were acknowledge and considered during testing.

When the radiated emissions limit is expressed as an average value, and the transmitter is pulsed, the measured field strength shall be determined by applying a Duty Cycle Correction Factor based upon dividing the total ON time during the first 100 ms period by 100 ms (or by the period if less than 100 ms). The duty cycle may also be expressed logarithmically in dB.

2.9 Intentional Radiator, Power Line Conducted Emissions (CFR 15.207)

The EUT was battery powered; therefore, this test was not applied.

2.10 Intentional Radiator, Radiated Emissions (CFR 15.209, 15.407(d))

Regarding radiated spurious measurements, the EUT was placed into a continuous transmit mode of operation (>98% duty cycle) and tested per ANSI C63.10 (2020)+COR1(2023). A preliminary scan was performed on the EUT to find signal frequencies caused by the transmitter part of the device. To obtain worst-case results, the EUT was tested in X, Y, and Z axes or in the orientation of normal operation if the device was designed to operate in a fixed position.

Radiated measurements were then conducted between the frequency range of 9KHz (or lowest frequency used/generated by the device) up to the tenth harmonic of the device (no greater than 40 GHz). In the band below 1 GHz, emissions were tested with a RBW of 120 kHz. Emissions above 1 GHz were tested with a RBW of 1 MHz. All video bandwidth settings were at least three times the RBW value.

The EUT was investigated to CFR 15.209 for below 1 GHz, General requirements for unwanted spurious emissions. Above 1 GHz, all unwanted spurious emissions were investigated to CFR 15.407.

The results are displayed in the plots below. Radiated emissions per CFR 15.209 were performed to address the concerns of unwanted emissions that may radiate from the EUT cabinet, control circuits, or power leads. The results for this test can be found in section 2.16 below.

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Table 5. Peak Radiated Fundamental & Harmonic Emissions

Frequency (MHz)	Test Data (dBuV)	Additional Factor	AF+CL-PA (dB/m)	Corrected Results (dBuV/m)	Limits (dBuV/m)	Distance / Polarization	Margin (dB)	Detector
Low Channel - PEAK								
5733.80	70.03	0.00	39.20	109.23	--	3.00m./VERT	--	PK
11461.00	46.45	0.00	10.35	56.80	74.0	3.00m./HORZ	17.2	PK
Mid Channel – PEAK								
5785.6	70.97	0.00	39.20	109.87	--	3.00m./VERT	--	PK
11568	47.68	0.00	10.76	58.44	74.0	3.00m./HORZ	15.6	PK
High Channel– PEAK								
5838.0	70.64	0.00	39.42	110.06	--	3.00m./VERT	--	PK
11680	46.94	0.00	11.26	58.20	74.0	3.00m./HORZ	15.8	PK

1. (*) Falls within the restricted bands of CFR 15.205. Limits based on CFR15.209 & 20 dB relaxation for peak measurements of CFR 15.35.
2. No other signals detected within 20 dB of specification limit. Harmonics investigated up to the 10th harmonic
3. The EUT was placed in three orthogonal positions and the transmitter was in constant broadcast mode, with a duty cycle of greater than 98%. The emissions were measured with the receive antenna in vertical and horizontal polarizations. The data listed in the above table was worst case.

Sample Calculation at 5733.8 MHz:

$$CR = M + CF$$

Where:

- M = Measured Magnitude [dB μ V]
- CF = Correction Factors [dB/m]
- CR = Corrected Results [dB μ V]

Calculation:

$$CR = 70.03 \text{ dB}\mu\text{V} + 39.20 \text{ dB/m} = 109.23 \text{ dB}\mu\text{V/m}$$

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Tested by

Signature: 

Name: Gabriel Medina

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Table 6. Average Radiated Fundamental & Harmonic Emissions

Frequency (MHz)	Test Data (dBuV)	Additional Factor	AF+CL-PA (dB/m)	Corrected Results (dBuV/m)	Limits (dBuV/m)	Distance / Polarization	Margin (dB)	Detector
Low Channel - Average								
5734	65.87	0.00	39.20	105.07	--	3.00m./VERT	--	AVG
11467	36.99	0.00	10.35	47.34	54.0	3.00m./HORZ	6.7	AVG
Mid Channel-Average								
5785.9	67.80	0.00	39.20	107.00	--	3.00m./VERT	--	AVG
11571	41.40	0.00	10.76	46.86	54.0	3.00m./HORZ	7.1	AVG
High Channel-Average								
5840	67.70	0.00	39.42	107.12	--	3.00m./VERT	--	AVG
11681	41.55	0.00	11.26	47.81	54.0	3.00m./HORZ	6.2	AVG

1. (*) Falls within the restricted bands of CFR 15.205. Limits based on CFR15.209 & 20 dB relaxation for peak measurements of CFR 15.35.
2. No other signals detected within 20 dB of specification limit. Harmonics investigated up to the 10th harmonic
3. The EUT was placed in three orthogonal positions and the transmitter was in constant broadcast mode, with a duty cycle of greater than 98%. The emissions were measured with the receive antenna in vertical and horizontal polarizations. The data listed in the above table was worst case.

Sample Calculation at 135.25 MHz:

$$CR = M + CF$$

Where:

- M = Measured Magnitude [dBμV]
- CF = Correction Factors [dB/m]
- CR = Corrected Results [dBμV]

Calculation:

$$CR = 65.87 \text{ dB}\mu\text{V} + 39.20 \text{ dB/m} = 105.07 \text{ dB}\mu\text{V/m}$$

Test Date: June 8, 2026

Tested by

Signature: 

Name: Gabriel Medina

2.11 Band Edge Measurements – (CFR 15.407 (b))

Band Edge measurements are made following the guidelines in ANSI C63.10, Clause 12.7.4.4 with the EUT initially operating on the Lowest Channel and then operating on the Highest Channel within its band of operation for all modes of operation. Radiated measurements are performed to demonstrate compliance with the requirement of 15.407(b) that all emissions outside of the band edges do not exceed an E.I.R.P of -27 dBm/MHz.

The emission measurements are performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

To capture the band edge, the Spectrum Analyzer frequency span was set to 2.5 MHz to capture the peak level of the emission operating on the channel closest to the band edge as well as any modulation products falling outside of the authorized band of operation. Conducted measurements are performed with RBW = 100 kHz. In all cases, the VBW is set $\geq 3 \times \text{RBW}$. The integration function on the spectrum analyzer was used to calculate the Band edge measurement over 1 MHz. See figure and calculations below for more detail.

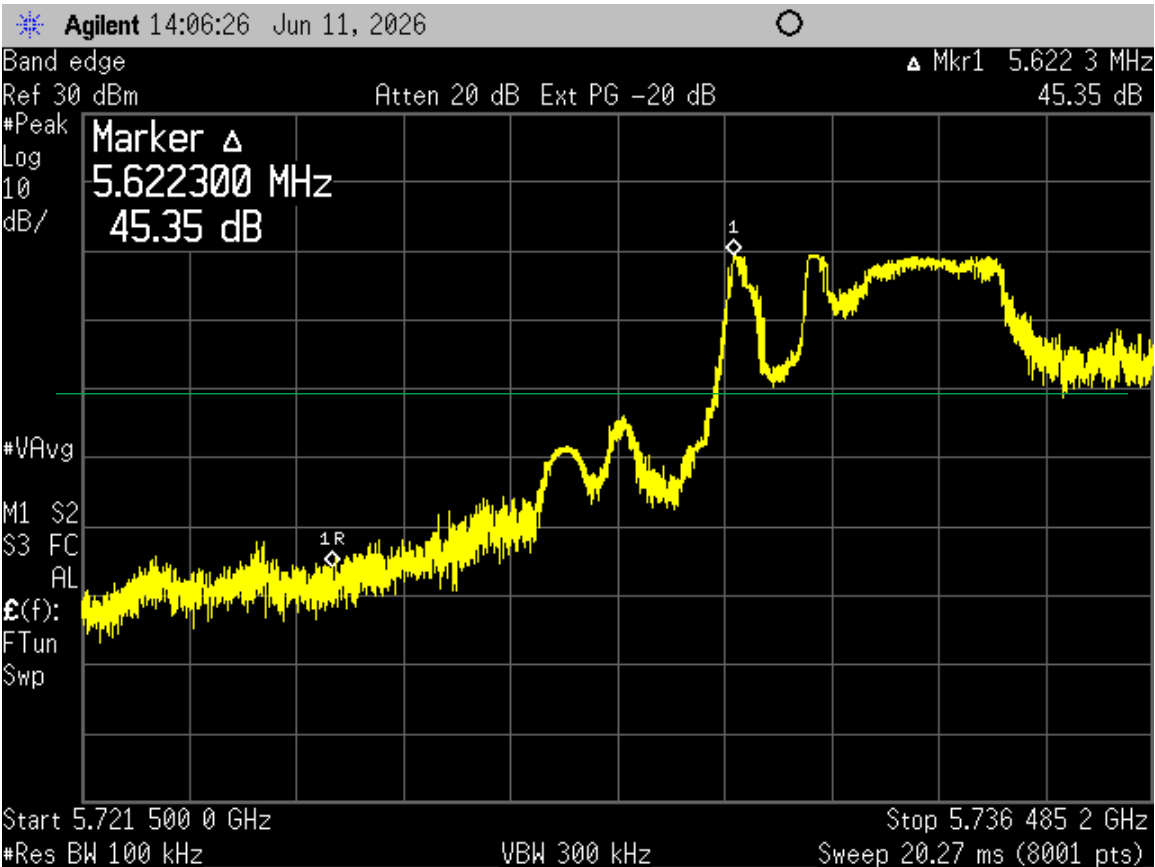


Figure 2. Band Edge Compliance – Low Channel Delta - Peak

Lower band edge must be 20 dB below the fundamental. This requirement is met.

Measured Result	45.35	dB
Band Edge Limit	20.00	dB
Band Edge Margin	25.35	dB

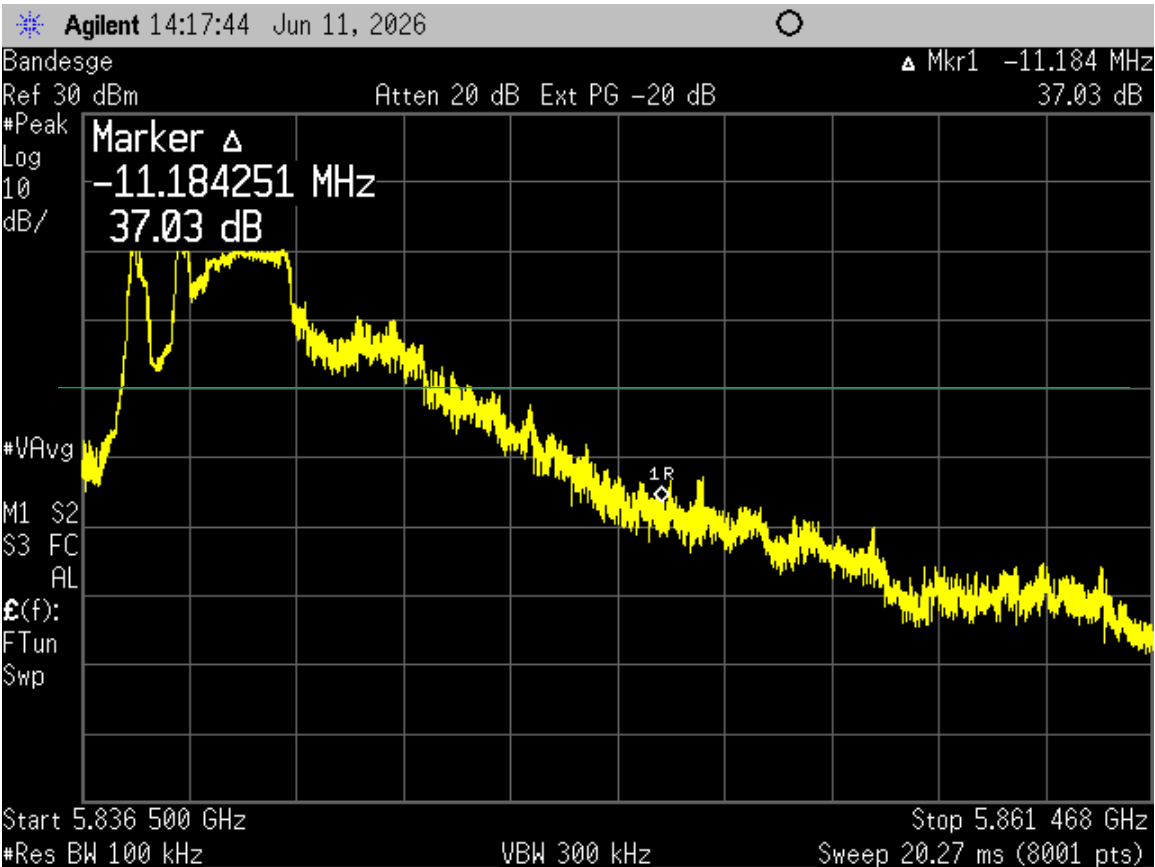


Figure 3. Band Edge Compliance – High Channel Delta - Peak

Higher band edge must be 20 dB below the fundamental. This requirement is met.

Measured Result	37.03	dB
Band Edge Limit	20.00	dB
Band Edge Margin	17.03	dB

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2.12 Unwanted Emissions in the Restricted Bands (CFR 15.407(b)(9,10) 15.205, 15.209)

Unwanted Emissions in the Restricted Bands were made following the guidelines in FCC KDB Publication No. 789033 D02 v02 with the EUT operating on the channels closest to the restricted bands of operation. These measurements were performed with the EUT transmitting at >98% duty Cycle.

To capture the unwanted emissions, the Spectrum Analyzer frequency span was set to cover the full restricted band. Radiated measurements are performed with RBW = 1 MHz. In all cases, the VBW is set $\geq 3 \times \text{RBW}$.

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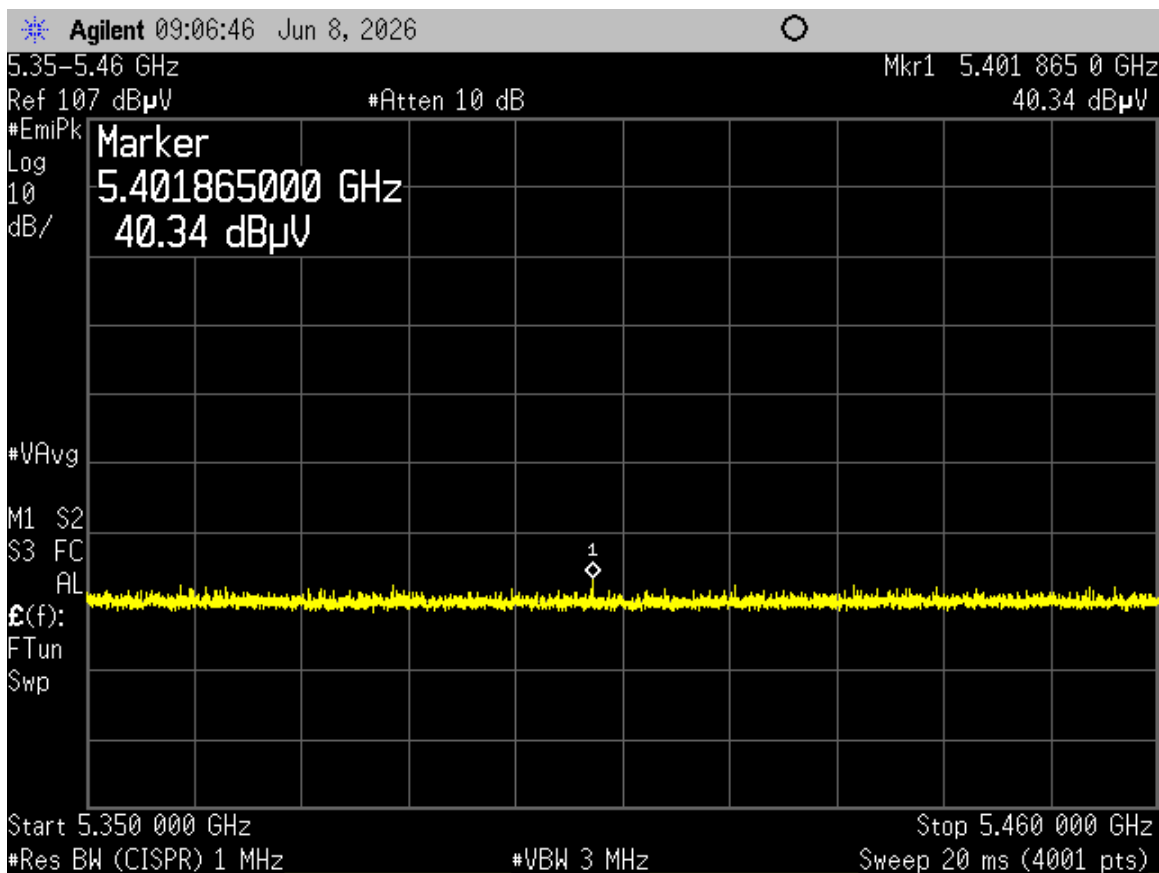


Figure 4. Low Channel Restricted Band - Peak

Frequency (MHz)	Test Data (dBuV)	AF+CL-PA (dB/m)	Corrected Results (dBuV/m)	Limits (dBuV/m)	Distance / Polarization	Margin (dB)	Detector
5401.8	40.34	2.82	43.16	54.0	3.00m./HORZ	10.8	PK

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2.14 Maximum Conducted Output Power (CFR 15.407 (a) (2))

The transmitter was programmed to operate at a 25-mW output power across the bandwidth. The maximum conducted output power over the frequency bands of operation shall not exceed the 1W.

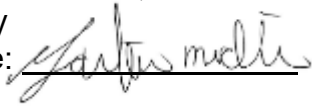
Peak detection was used to collect the measurements. Power within the transmitting bands was measured per FCC KDB Publication 789033 D02 v02 by connecting the spectrum analyzer directly via a short RF cable, and attenuators to the antenna output terminals on the EUT. The spectrum analyzer was set for an impedance of $50\ \Omega$ with the RBW set to 1 MHz, the VBW $\geq 3 \times$ RBW, and spans large enough to encompass the entire 99% bandwidth. The channel power was integrated over the whole band. Average antenna conducted output power is tabulated below.

Table 7. Antenna Conducted Output Power per 15.407 (a) (2)

Frequency of Fundamental (MHz)	Raw Test Data dBm	Converted Data (mW)	FCC and IC Limit (mW Maximum)
5733	12.01	15.9	1000
5785	12.69	18.6	1000
5840	13.28	21.3	1000

Test Date: June 26, 2024

Tested by

Signature: 

Name: Gabriel Medina

US Tech Test Report:
FCC ID:
Test Report Number:
Issue Date:
Customer:
Model:

FCC Part 15 Class 2 Permissive Change
2A8GI-V1FRSKY
26-0131
June 26, 2026
Rocket Drone
V1 FRSKY Module

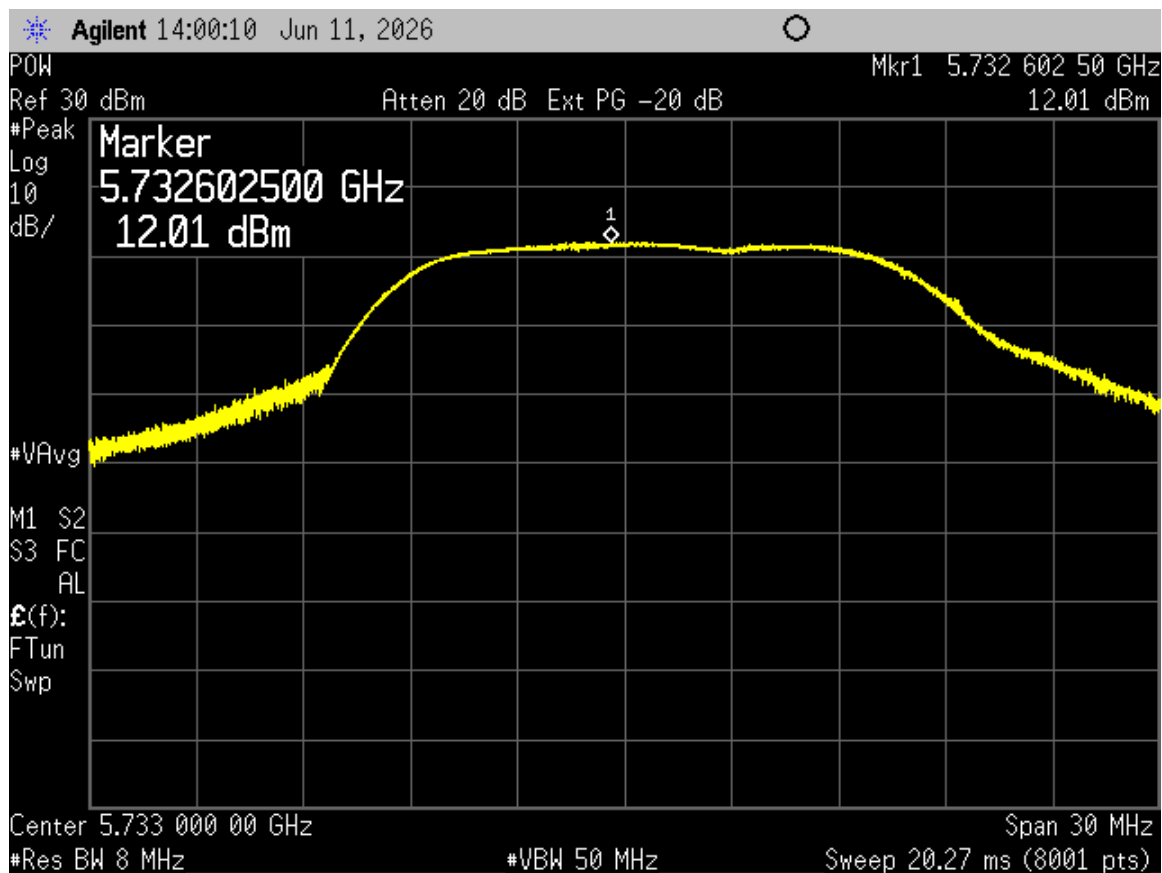


Figure 5. Peak Antenna Conducted Output Power, Low Channel

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V1 FRSKY Module

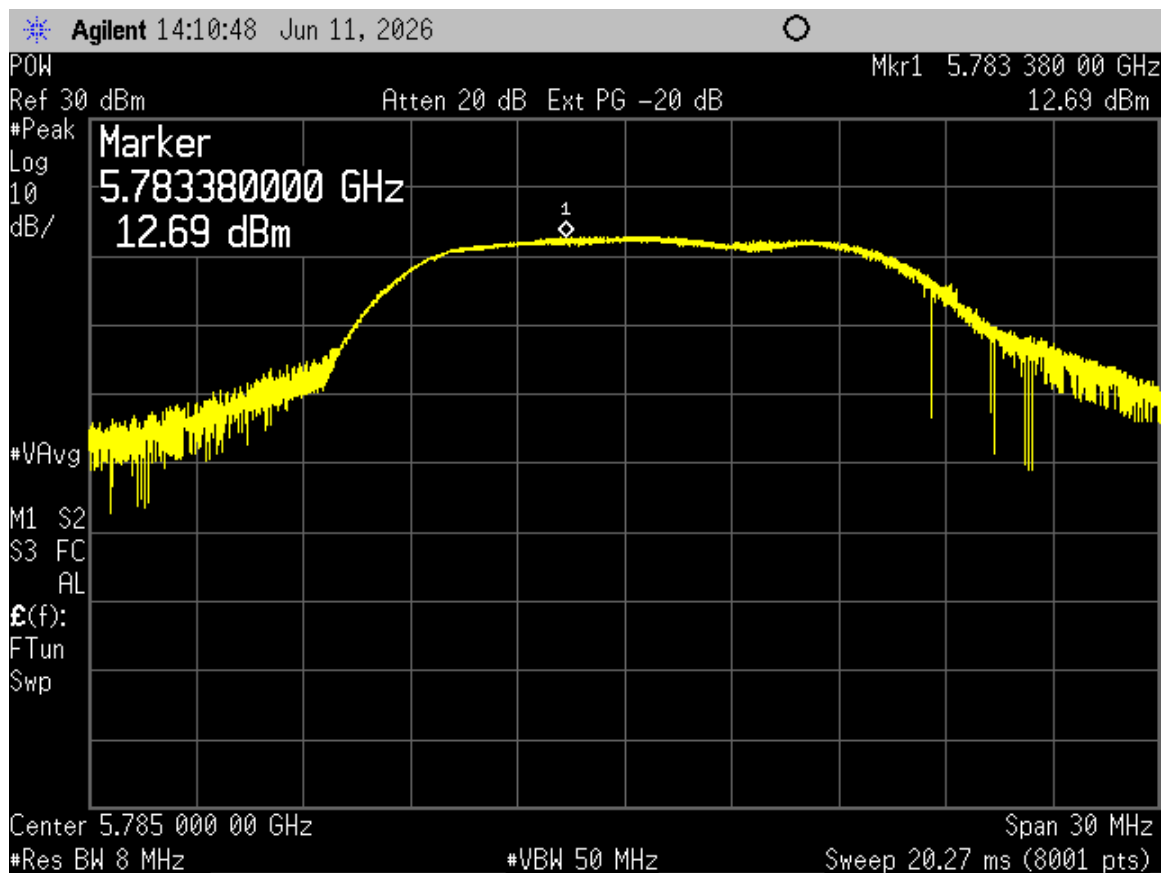


Figure 6. Peak Antenna Conducted Output Power, Mid Channel

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Customer:
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Rocket Drone
V1 FRSKY Module

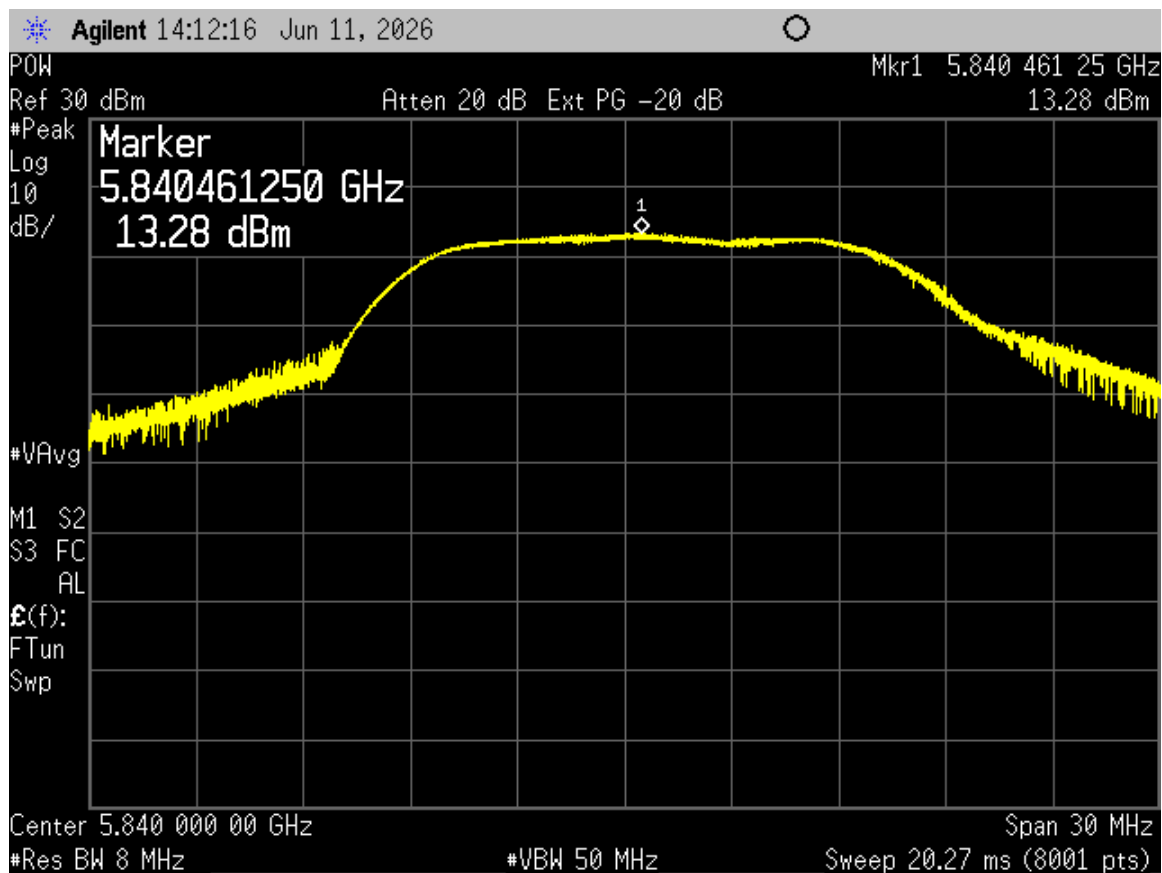


Figure 7. Peak Antenna Conducted Output Power, High Channel

US Tech Test Report:
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Test Report Number:
Issue Date:
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Model:

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2.15 Power Spectral Density (CFR 15.407(a) (2))

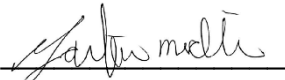
The transmitter was placed into a continuous mode of operation at all applicable frequencies. The measurements were performed per the procedures of FCC KDB Procedure 789033 D02 v02. The RBW was set to 1 MHz and the Video Bandwidth was set to $\geq 3 \times \text{RBW}$. The span was set to encompass the OBW. The averaging detector was used on the spectrum analyzer to determine the maximum PSD over the corresponding bandwidth.

For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

Table 8. Power Spectral Density

Frequency (MHz)	Results (dBm/3kHz)	Converted Results (dBm/500kHz)	FCC and IC Limit (dBm/3 kHz)
5733	6.02	28.24	30
5785	6.34	28.56	30
5840	6.82	29.04	30

Test Date: June 11, 2026

Tested By
Signature: 

Name: Gabriel Medina

US Tech Test Report:
FCC ID:
Test Report Number:
Issue Date:
Customer:
Model:

FCC Part 15 Class 2 Permissive Change
2A8GI-V1FRSKY
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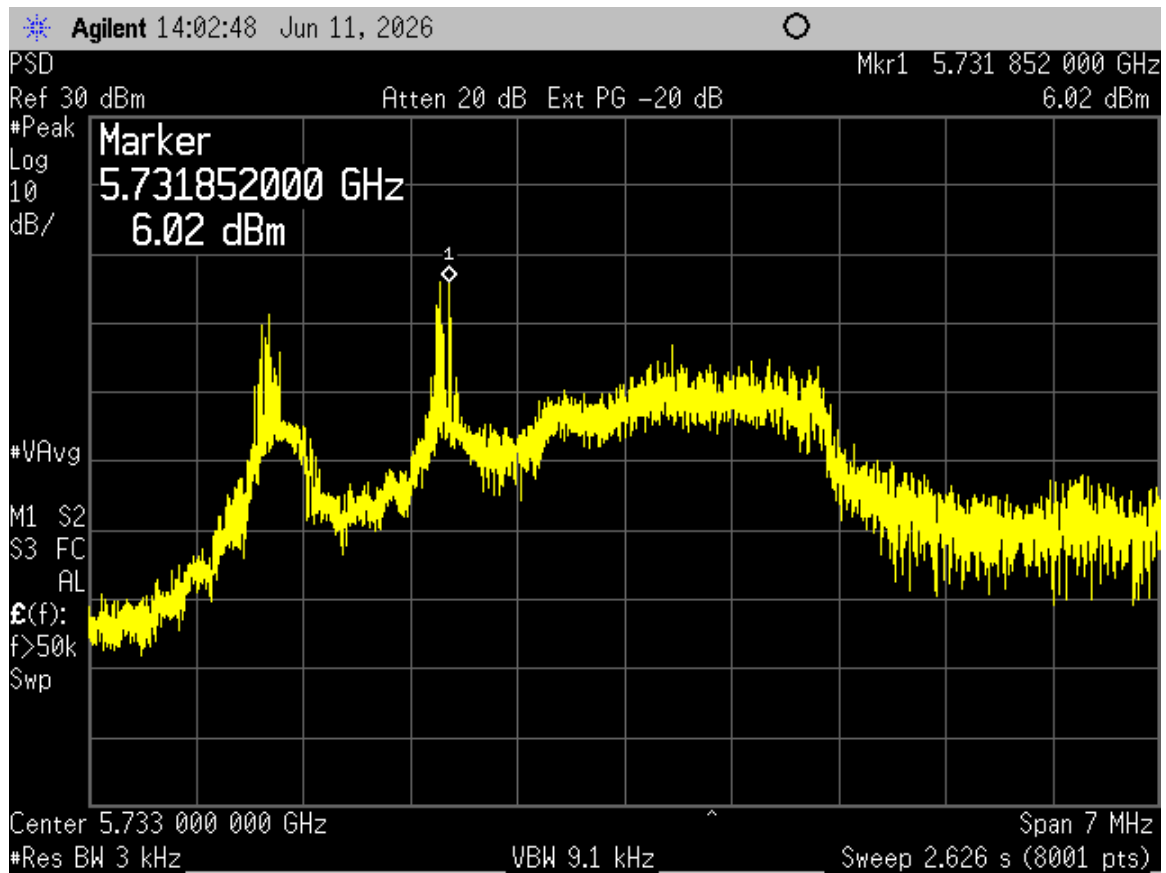


Figure 8. Power Spectral Density, Low Channel

US Tech Test Report:
FCC ID:
Test Report Number:
Issue Date:
Customer:
Model:

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June 26, 2026
Rocket Drone
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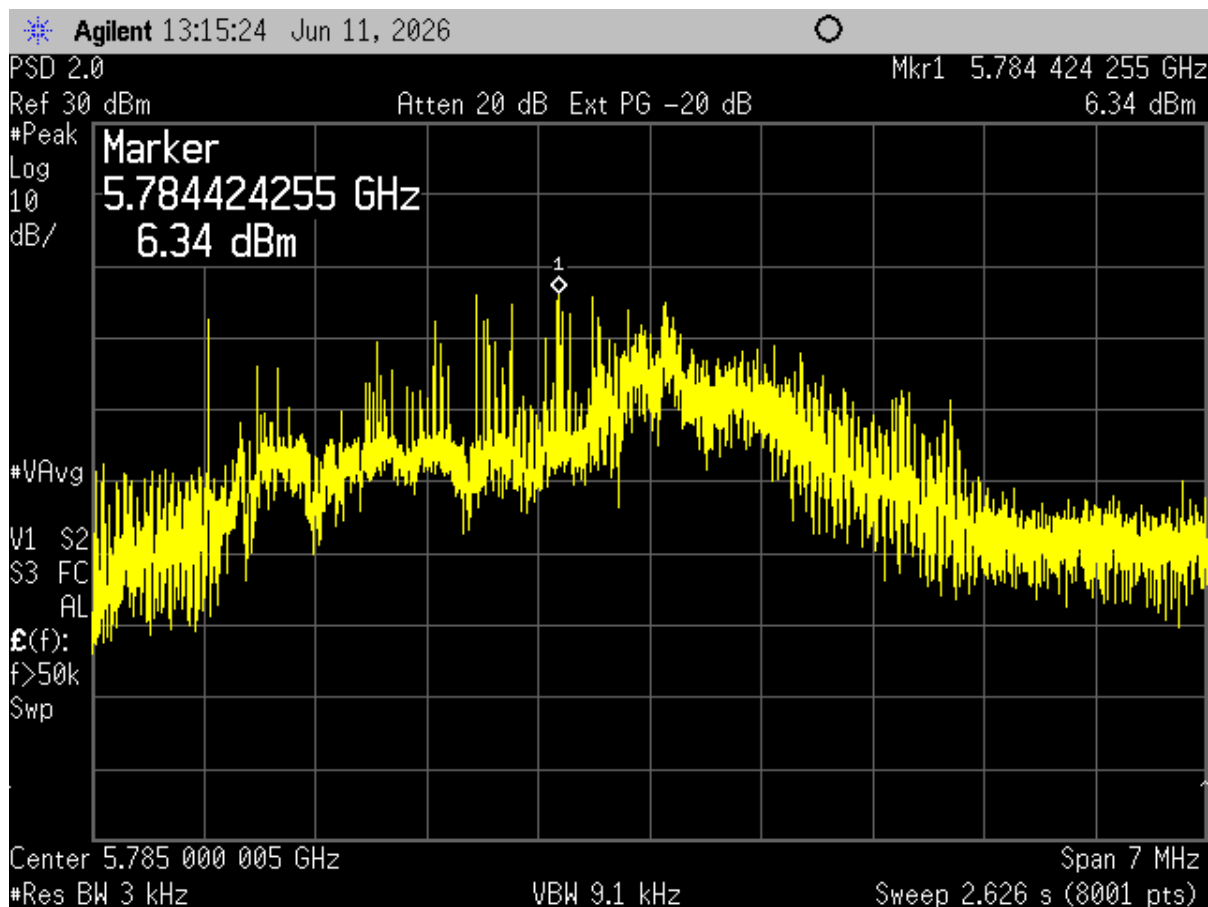


Figure 9. Power Spectral Density, Mid Channel

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Test Report Number:
Issue Date:
Customer:
Model:

FCC Part 15 Class 2 Permissive Change
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Rocket Drone
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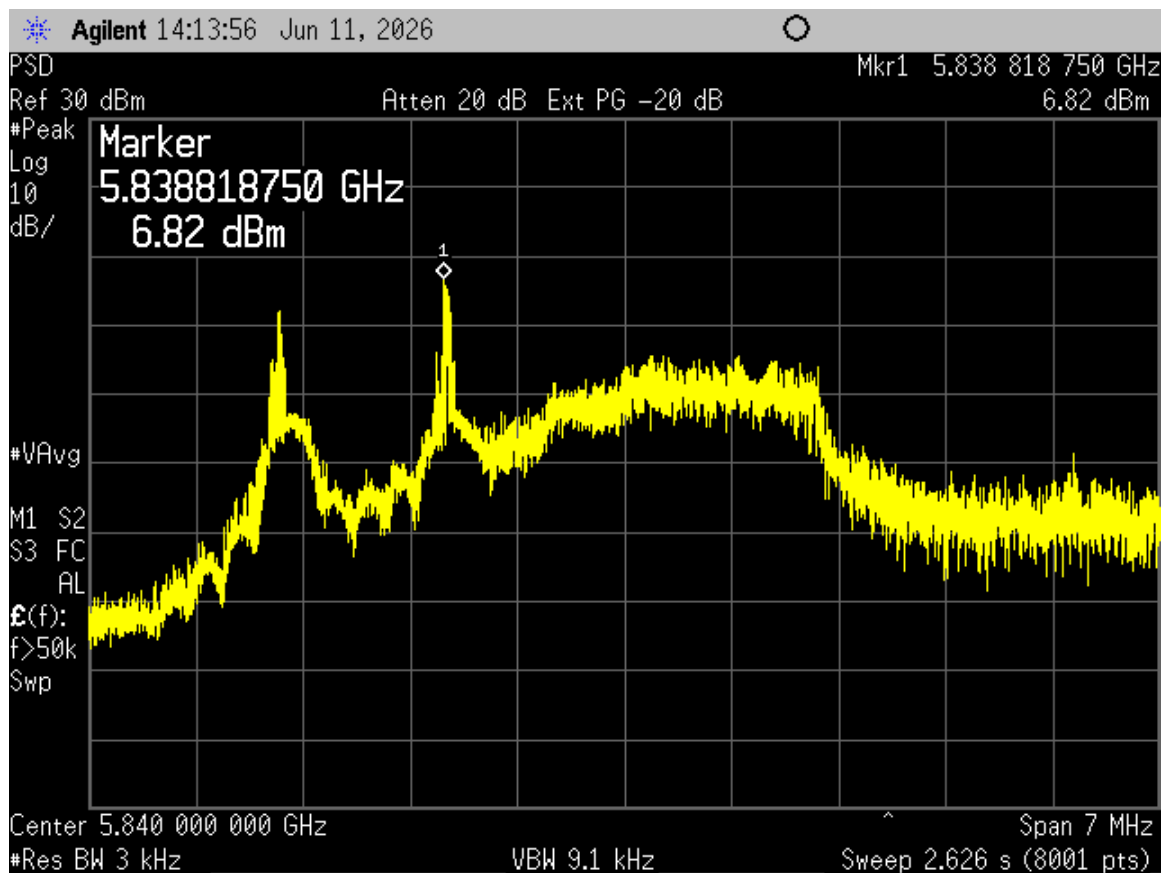


Figure 10. Power Spectral Density, High Channel

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 FCC ID:
 Test Report Number:
 Issue Date:
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2.17 Radiated Digital Emissions (15.209, 15.407(b))

The test data provided herein is to support the verification requirement for radiated emissions coming from the EUT in a transmitting state per 15.209 and 15.407. Emissions were investigated from 30 MHz to 25 GHz and tested as detailed in KDB Publication 789033 DO2 v02r0.

Measurements were made with the analyzer's resolution bandwidth set to 120 kHz for measurements made below 1 GHz and 1 MHz for measurements made above 1 GHz. The video bandwidth was set to three times the resolution bandwidth; 1 MHz RBW and 3 MHz VBW. The test data were maximized for magnitude by rotating the turntable through 360 degrees and raising and lowering the receiving antenna between 1 to 4 meters in height as a part of the measurement procedure.

Radiated Spurious Emission					
Test Standard	FCC Part15 C Section 15.205 & 15.209				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	68.2	Peak	3
Test Standard	15.407(b)				
Test Limit	Operating Band	Frequency	EIRP Limit		Remark
	5725-5850 MHz	Below 5.65GHz	-27dBm/MHz(68.2dBuV/m)@3m		Peak
		Above 5.925GHz	-27 dBm/MHz(68.2dBuV/m)@3m		Peak
Remark: (1)The lower limit shall apply at the transition frequency. (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. (3)Above 1GHz limit:E[dBuV/m] = EIRP[dBm] + 95.2=68.2 dBuV/m, for EIPR[dBm]=-27dBm.					

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The worst-case radiated emission in the range of 30 MHz to 1 GHz was 5.9 dB below the limit at 598.11 MHz. This signal is found below. All other radiated emissions were 7.6 dB or more below the limit.

Table 9. Spurious Radiated Emissions (30 MHz – 1 GHz)

Test: FCC Part 15.209, 15.407b							
Frequency (MHz)	Test Data (dBuV)	AF+CL-PA (dB)	Results (dBuV/m)	Limits (dBuV/m)	Distance / Polarization	Margin (dB)	DETECTOR PK / QP
135.25	33.04	-10.96	22.08	43.5	3m./HORZ	21.4	PK
305.54	40.75	-7.22	33.53	46.0	3m./HORZ	12.5	QP
315.07	41.95	-7.26	34.69	46.0	3m./HORZ	11.3	QP
598.11	42.72	-2.60	40.12	46.0	3m./HORZ	5.9	QP
605.10	40.45	-2.29	38.16	46.0	3m./HORZ	7.8	QP
31.86	38.69	-9.09	29.60	40.0	3m./VERT	10.4	PK
48.00	41.30	-12.31	28.99	40.0	3m./VERT	11.0	PK
68.04	46.30	-14.62	31.69	40.0	3m./VERT	8.3	PK
301.59	41.39	-7.68	33.71	46.0	3m./VERT	12.3	QP
308.72	45.13	-6.74	38.39	46.0	3m./VERT	7.6	QP
319.82	40.34	-7.94	32.40	46.0	3m./VERT	13.6	QP
327.76	44.17	-8.10	36.07	46.0	3m./VERT	9.9	QP
334.91	43.97	-8.18	35.79	46.0	3m./VERT	10.2	QP
345.22	42.70	-8.13	34.57	46.0	3m./VERT	11.4	QP
612.12	38.51	-2.41	36.11	46.0	3m./VERT	9.9	PK
Emissions are compared to Part 15.209 limits. These limits are deemed to be worst-case.							

Sample Calculation at 135.25 MHz:

$$CR = M + CF$$

Where:

- M = Measured Magnitude [dBμV]
- CF = Correction Factors [dB/m]
- CR = Corrected Results [dBμV]

Calculation:

$$CR = 33.04 \text{ dB}\mu\text{V} - 10.96 \text{ dB/m} = 22.08 \text{ dB}\mu\text{V/m}$$

Test Date: June 8, 2026

Tested by

Signature: 

Name: Gabriel Medina

US Tech Test Report:
FCC ID:
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Issue Date:
Customer:
Model:

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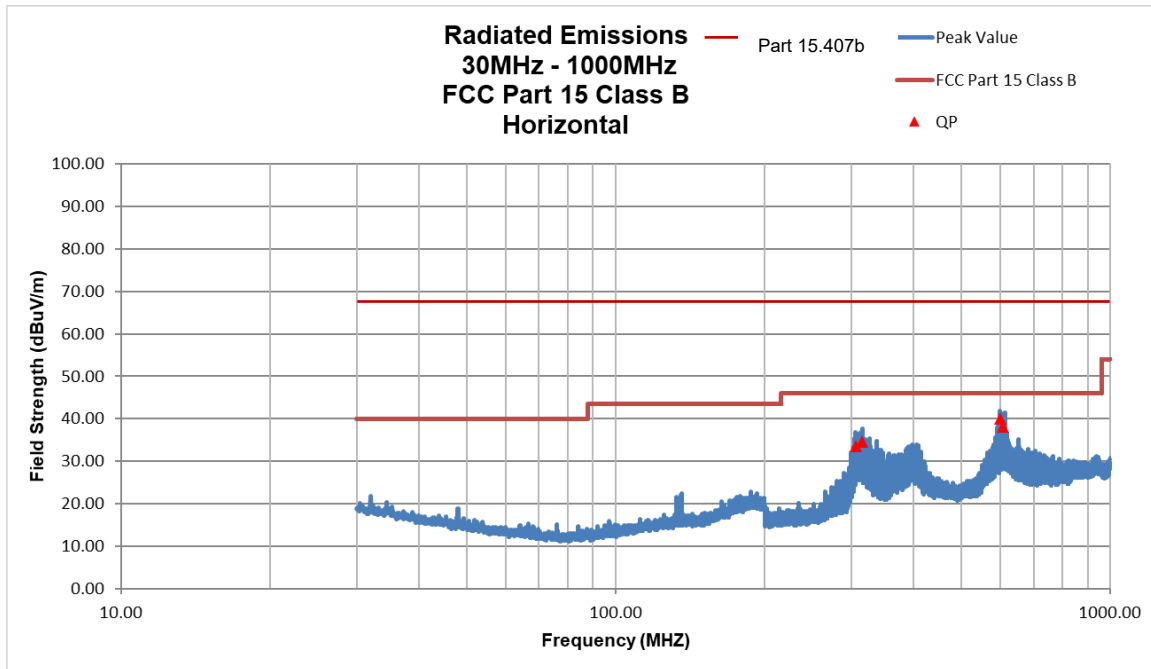


Figure 11. Intentional Radiated Emissions, 30 MHz – 1000 MHz, Horizontal

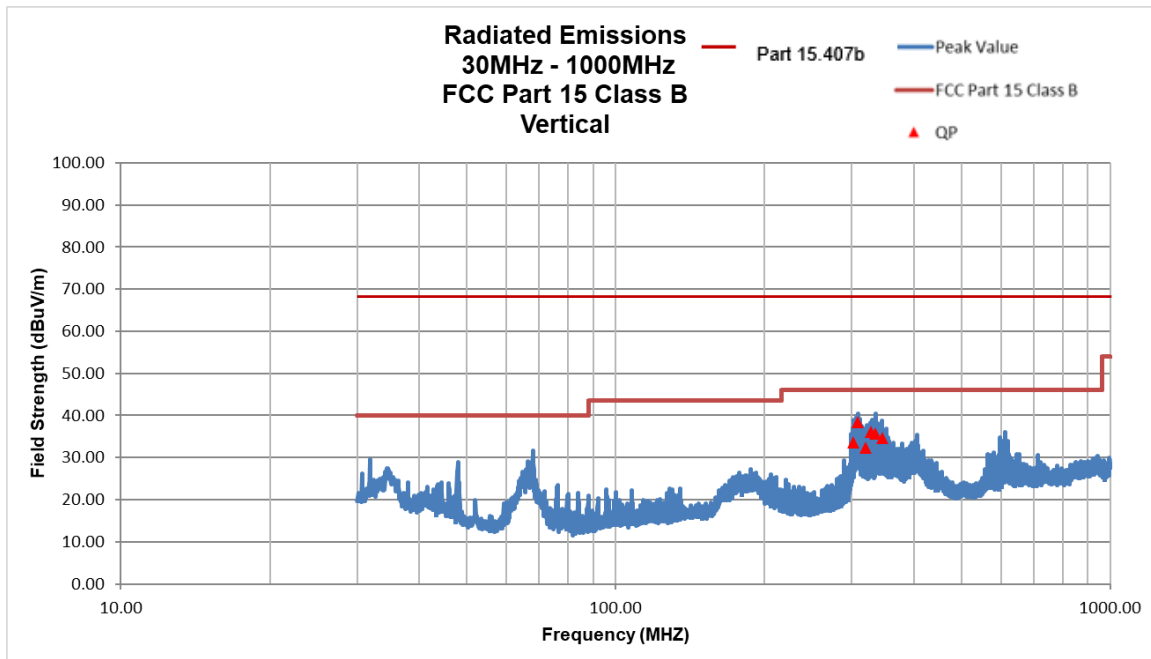


Figure 12. Intentional Radiated Emissions, 30 MHz – 1000 MHz, Vertical

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Table 10. Spurious Radiated Emissions (1 GHz – 25 GHz)

Test: FCC Part 15.209, 15.407b							
Frequency (MHz)	Test Data (dBuV)	AF+CL-PA (dB)	Results (dBuV/m)	Limits (dBuV/m)	Distance / Polarization	Margin (dB)	DETECTOR PK / QP/AVG
14561.00	25.60	16.88	42.48	54.0	3m./HORZ	11.5	AVG
18000.00	27.40	19.29	46.69	54.0	3m./HORZ	7.3	AVG
10902.00	25.43	12.17	37.60	54.0	3m./HORZ	16.4	AVG
14661.00	25.31	16.17	41.48	54.0	3m./VERT	12.5	AVG
17900.00	27.57	19.48	47.05	54.0	3m./VERT	6.9	AVG
Emissions are compared to Part 15.209 limits. These limits are deemed to be worst-case. All other emissions excluding the fundamental and harmonics were more than 20 dB below the applicable limit.							

Sample Calculation at 14,561.00 MHz:

$$CR = M + CF$$

Where:

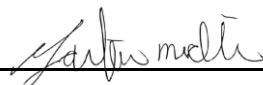
- M = Measured Magnitude [dBμV]
- CF = Correction Factors [dB/m]
- CR = Corrected Results [dBμV]

Calculation:

$$CR = 25.60 \text{ dB}\mu\text{V} + 16.88 \text{ dB/m} = 42.48 \text{ dB}\mu\text{V/m}$$

Test Date: June 5, 2026

Tested by

Signature: 

Name: Gabriel Medina

US Tech Test Report:
FCC ID:
Test Report Number:
Issue Date:
Customer:
Model:

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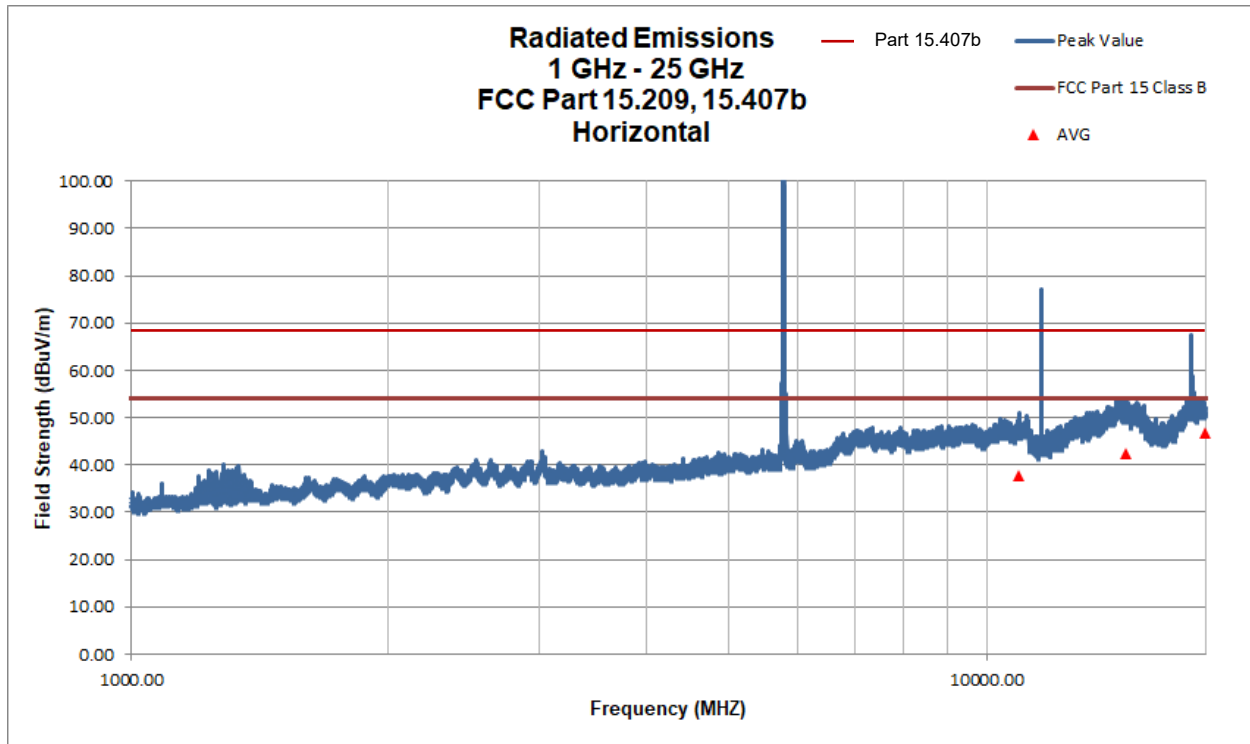


Figure 13. Intentional Radiated Emissions, 1 GHz – 25 GHz, Horizontal

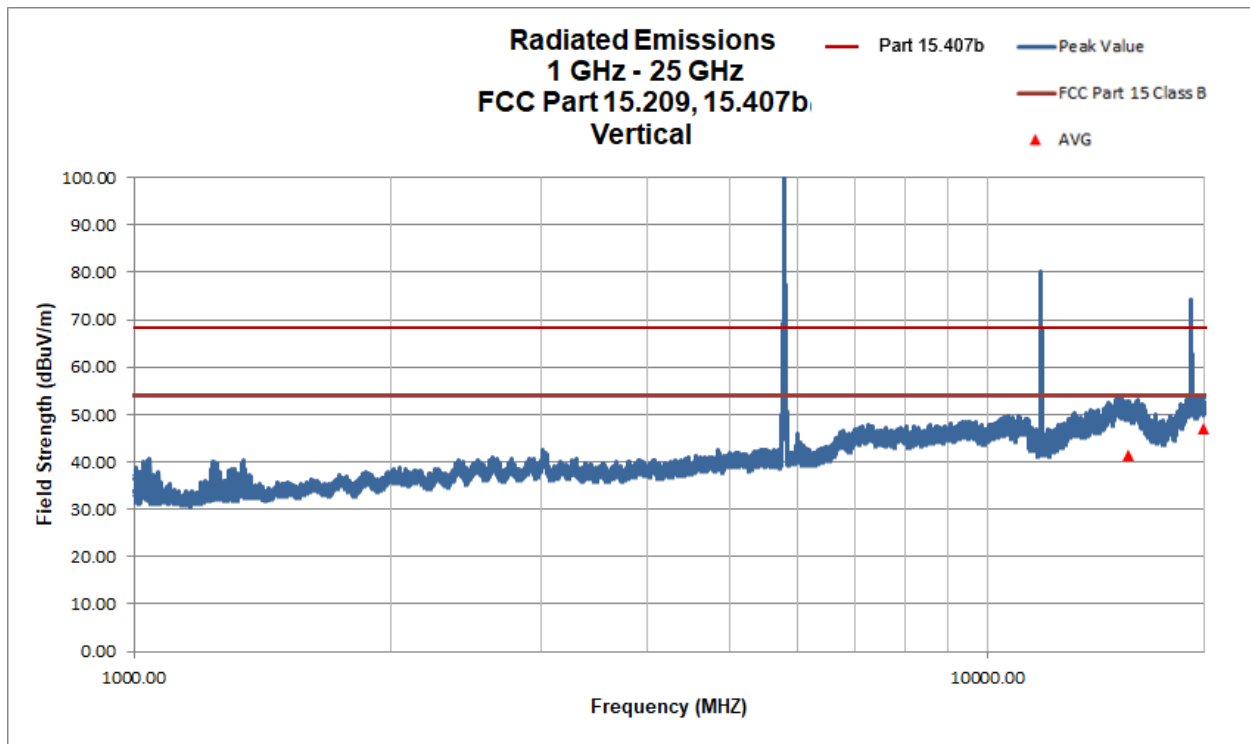


Figure 14. Intentional Radiated Emissions, 1 GHz – 25 GHz, Vertical

US Tech Test Report:
FCC ID:
Test Report Number:
Issue Date:
Customer:
Model:

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Rocket Drone
V1 FRSKY Module

2.18 Measurement Uncertainty

The measurement uncertainties given were calculated using the method detailed in CISPR 16-4-2. A coverage factor of $k=2$ was used to give a level of confidence of approximately 95%.

2.18.1 Conducted Emissions Measurement Uncertainty

Measurement Uncertainty (within a 95% confidence level) for this test is ± 2.78 dB.

2.18.2 Radiated Emissions Measurement Uncertainty

For a measurement distance of 3 m, the measurement uncertainty (with a 95% confidence level) for this test using a Biconical Antenna (30 MHz to 200 MHz) is ± 5.39 dB. This value includes all elements of measurement.

The measurement uncertainty (with a 95% confidence level) for this test using a Log Periodic Antenna (200 MHz to 1000 MHz) is ± 5.18 dB.

The measurement uncertainty (with a 95% confidence level) for this test using a Horn Antenna is ± 5.21 dB.

END TEST REPORT