



H.B. Compliance Solutions

Intentional Radiator Test Report

For the

Globalstar, Inc.

RM200M

Tested under

The FCC Rules contained in Title 47 of the CFR, Part 25 and ISSED RSS-170 Issue 4 Class II
Permissive Change for

Satellite Communications

May 21, 2026

Prepared for:

Globalstar, Inc.

1351 Holiday Square Blvd.

Covington, LA 70433

Prepared By:

H.B. Compliance Solutions

5005 S. Ash Avenue, Suite # A-10

Tempe, Arizona 85282

Reviewed By:

A handwritten signature in black ink, appearing to read 'Hoosamuddin Bandukwala'.

Hoosamuddin Bandukwala



Cert # ATL-0062-E

Engineering Statement: The measurements shown in this report were made in accordance with the procedure indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurement made, the equipment tested is capable of operation in accordance with the requirements of Part 25 of the FCC Rules under normal use and maintenance. All results contained herein relate only to the sample tested.

Report Status Sheet

Revision #	Report Date	Reason for Revision
Ø	May 21, 2026	Initial Issue

Table of Contents

EXECUTIVE SUMMARY	4
1. Testing Summary.....	4
EQUIPMENT CONFIGURATION.....	5
1. Overview	5
2. Test Facility	6
3. Description of Test Sample.....	7
4. Equipment Configuration	7
5. Support Equipment	7
6. Ports and Cabling Information.....	7
7. Method of Monitoring EUT Operation	8
8. Mode of Operation.....	8
9. Modifications	8
10. Disposition of EUT	8
Criteria for Intentional Radiators	9
1. RF Power Output.....	9
2. Radiated Spurious Emissions	10
Test Equipment.....	13
6. Measurement Uncertainty	14

EXECUTIVE SUMMARY

1. Testing Summary

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 25. All tests were conducted using measurement procedure from ANSI C63.26-2015 RSS-GEN Issue 5 and RSS-170 Issue 4 as appropriate.

Test Name	Test Method / FCC Standard	ISED Standard	Result	Comments
Radiated Spurious Emissions	§2.1053; §25.202(f)	RSS-170 (5.4.3.1)	Pass	

Class II Permissive Change :

RM200M module is enclosed inside Spot 360 device. Battery is enclosed to provide power to Spot 360.

EQUIPMENT CONFIGURATION

1. Overview

H.B Compliance Solutions was contracted by Globalstar to perform testing on the Spot 360 under the purchase order number PO0113922.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the Globalstar, Spot 360.

The tests were based on FCC Part 25 Rules. The tests described in this document were formal tests as described with the objective of the testing was to evaluate compliance of the Equipment Under Test (EUT) to the requirements of the aforementioned specifications. Globalstar should retain a copy of this document and it should be kept on file for at least five years after the manufacturing of the EUT has been permanently discontinued. The results obtained relate only to the item(s) tested.

Product Name:	RM200M
Model(s) Tested:	RM200M
FCC ID:	L2V-RX200M
IC ID:	3989A-RX200M
Supply Voltage Input:	Primary Power: 5.0 VDC
Frequency Range:	1611.25MHz to 1618.75MHz
No. of Channels:	Four Channel
Necessary Bandwidth	N/A
Type(s) of Modulation:	BPSK
Range of Operation Power:	0.418W (EIRP)
Voltage into final Transistor	3.3V
Current into final Transistor	500mA
Emission Designator:	2M00G1D
Channel Spacing(s)	2.5MHz
Test Item:	Pre-Production
Type of Equipment:	Satellite/Earth Stations
Antenna:	1.8dBi Helix Antenna
Environmental Test Conditions:	Temperature: 15-35°C Humidity: 30-60% Barometric Pressure: 860-1060 mbar
Modification to the EUT:	None
Evaluated By:	Staff at H.B. Compliance Solutions
Test Date(s):	May 21, 2026
Firmware Version No. (FVIN)	0.5.1

2. Test Facility

All testing was performed at H.B. Compliance Solutions. This facility is located at 5005 S. Ash Avenue, Suite # A-10, Tempe AZ-85282. All equipment used in making physical determination is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements from 30MHz to 1GHz were performed in a GTEM chamber (equivalent to an Open Area Test Site). Radiated Emissions Above 1GHz were performed on an indoor 3-meter Test Site. In accordance with §2.948(a)(3), a complete site description is contained at H.B. Compliance Solutions.

Test facility H.B. Compliance Solutions is an ANAB accredited test site. The ANAB certificate number is L2458. The scope of accreditation can be found on ANAB website www.anab.org

FCC Registered Number: 738876

ISED Test Site Registration number is 9481A



3. Description of Test Sample

The Globalstar RM200M is a Satellite IoT transceiver module designed to send and receive small packets of user defined data to a network of low earth orbiting (LEO) satellites using the Globalstar commercial IoT network. The data is either received from or forwarded to a user defined network interface that may be in the form of an FTP host, HTTPS host or HTTP host where the user has supplied or will interpret the data for further processing

This module is used inside the Spot 360 which is a personal satellite messenger & tracking device. Spot 360 is powered by a battery.

4. Equipment Configuration

Ref. ID	Name / Description	Model Number	Serial Number
# 1	Spot 360	Spot 360	010010708773

Table 1. Equipment Configuration

5. Support Equipment

All support equipment supplied is listed in the following Support Equipment List.

Ref ID	Name / Description	Manufacturer	Model #	Serial #
# 2	Laptop Computer	Dell	Precision 7510	-

Table 2. Support Equipment

6. Ports and Cabling Information

Ref ID	Port name on the EUT	Cable Description	Qty.	Length (m)	Shielded? (Y/N)	Termination Box ID & Port ID
# 3	USB C	USB	1	1	N	# 2 USB

Table 3. Ports and Cabling Information

7. Method of Monitoring EUT Operation

A test receiver will be used to monitor the data transmission from the EUT.

8. Mode of Operation

The EUT will be configured to transmit at maximum power level. Test mode was provided using a terminal application to control the transmitter channels. These settings were created for testing purposes only.

9. Modifications

9.1 Modifications to EUT

No modifications were made to the EUT

9.2 Modifications to Test Standard

No Modifications were made to the test standard.

10. Disposition of EUT

The test sample including all support equipment submitted to H.B Compliance Solutions for testing will be returned to Globalstar upon completion of testing & certification

Criteria for Intentional Radiators

1. RF Power Output

Test Requirement(s):	§2.1046, §25.204 and RSS-170 §5.5	Test Engineer(s):	Sean E.
Test Results:	Pass	Test Date(s):	Apr 21, 2026

Test Procedures: As required by 47 CFR §2.1046 and RSS-170 §5.5, RF Power output measurements were made at the RF output terminals of the EUT.

Customer provided a test mode internal to the EUT to control the RF modulation, and frequency channel. The EUT was connected through an attenuator to a Power Sensor capable of making power measurements. Measurements were made at the low and high channels of the entire frequency band.

Test Setup:



Figure 1. Output RF power Test Setup

Test Results:

Frequency (MHz)	Channel	Conducted Power (dBm)	Pigtail Loss (dBm)	Antenna Gain (dBi)	EIRP (dBm)	FCC Specification Limit (dBW)
1611.25	Lowest	24.11	0.3	1.8	26.21	40
1618.75	Highest	23.82	0.3	1.8	25.92	40

Table 4. RF Power Output, Test Results

2. Radiated Spurious Emissions

Test Requirement(s):	§2.1053, §25.202(f) and RSS-170 §5.4.3.1	Test Engineer(s):	Sean E.
Test Results:	Pass	Test Date(s):	May 21, 2026

Test Procedures: As required by 47 CFR 2.1053 and RSS-170 §5.4.3.1, field strength of radiated spurious measurements were made in accordance with the procedures of ANSI C63.26-2015.

The EUT was placed on a non-reflective table in a 3-meter indoor test site. The EUT was set on continuous transmit.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3 orthogonal axes. The frequency range up to the 10th harmonic was investigated.

To get a maximum emission level from the EUT, the EUT was rotated throughout the X-axis, Y-axis and Z-axis. Worst case is X-axis

Test Setup:

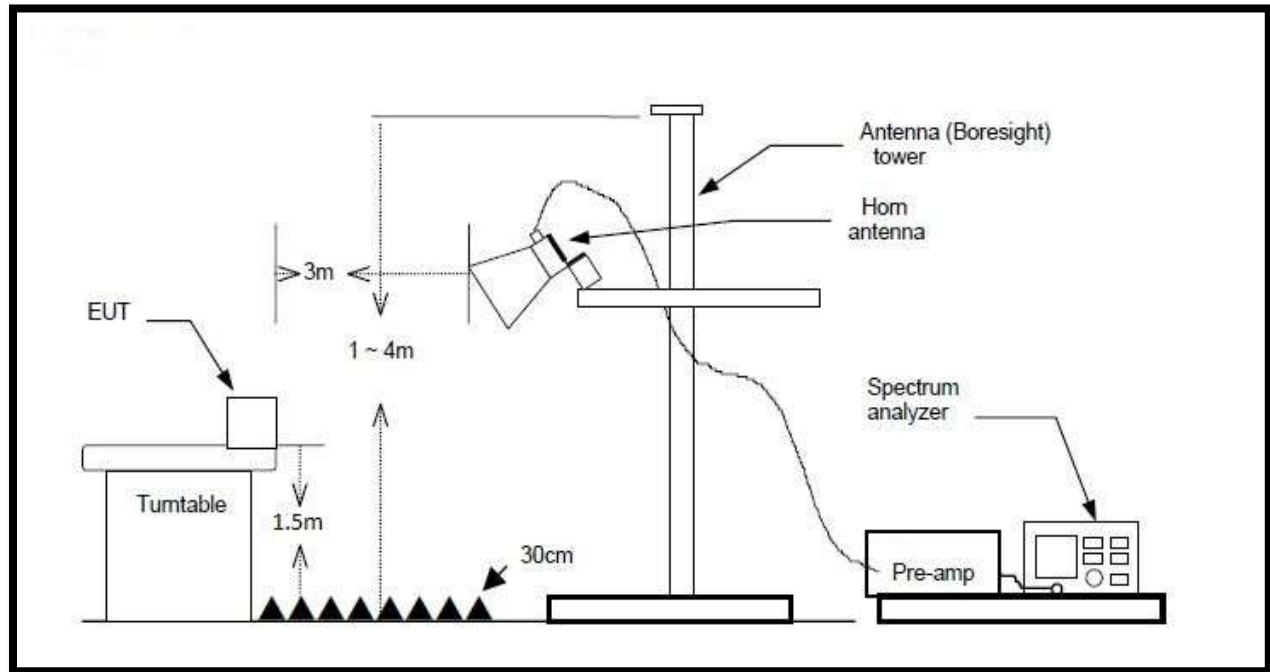


Figure 2 – Radiated Spurious Emissions

Test Results:

Frequency (MHz)	Measured Amplitude (dBuV/m)	Equivalent Radiated Power (dBm)	Antenna Polarity (V/H)	Spurious Limit (dBm)	Margin	Comment
1611.25	115.26	20.06	Horizontal	-	-	Fundamental
3222.5	45.96	-49.24	Horizontal	-13	-36.24	
4833.75	49.69	-45.51	Horizontal	-13	-32.51	

Table 5 - Spurious Radiated Emission Data – Low Band

Frequency (MHz)	Measured Amplitude (dBuV/m)	Equivalent Radiated Power (dBm)	Antenna Polarity (V/H)	Spurious Limit (dBm)	Margin (dB)	Comment
1616.25	114.70	19.50	Horizontal	-	-	Fundamental
3232.5	47.72	-47.48	Horizontal	-13	-34.48	
4848.75	50.07	-45.13	Horizontal	-13	-32.13	

Table 6 – Spurious Radiated Emission Data – Mid Band

Frequency (MHz)	Measured Amplitude (dBuV/m)	Equivalent Radiated Power (dBm)	Antenna Polarity (V/H)	Spurious Limit (dBm)	Margin	Comment
1618.75	114.17	18.97	Horizontal	-	-	Fundamental
3237.5	49.08	-46.13	Horizontal	-13	-33.13	
4856.25	48.54	-46.66	Horizontal	-13	-33.66	

Table 7 – Spurious Radiated Emission Data – High Band

NOTE: There were no detectable emissions above the 2nd harmonic.

Measurement was made at the 10th harmonic.

Test Equipment

Equipment	Manufacturer	Model	Serial #	Last Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESMI26	840607/005	Feb-18-26	Feb-18-27
USB Wideband Power Sensor	Agilent	U2021XA	MY54210014	Apr-16-25	Apr-16-27
Attenuator 20dB	Weinschel	41-20-12	86332	Verified	
Variable Attenuator	JFW	50R-320-SMA	7054221439	NCR	None
Signal Generator	Agilent	E4432B	US38220446	NCR	None
Horn Antenna	Com-Power	AHA-118	071150	Feb-13-25	Feb-13-28
Horn Antenna	Com-Power	AH-118	71350	NCR	None
Antenna	EMCO	GTEM 5417	1063	Verified	
Attenuator 10dB	Huber+Suhner	6810.17.A	747300	Verified	
Digital Multimeter	Fluke	77 III	72550270	Aug/26/25	Aug/26/27
Power Supply	Hewlett Packard	6236B	2735A-19608	NCR	None

Table 8 – Test Equipment List

***Statement of Traceability:** Test equipment is maintained and calibrated on a regular basis. All calibrations have been performed by a 17025 accredited test facility, traceable to National Institute of Standards and Technology (NIST)

6. Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. These measurements figures are calculated in accordance with ETSI TR 100 028 Parts 1 and 2. Instrumentation measurement uncertainty has **not** been taken into account to determine compliance.

The following measurement uncertainty values have been calculated as shown in the table below:

Measured Parameter	Measurement Unit	Frequency Range	Expanded Uncertainty
Conducted Emissions (AC Power)	dBuV or dBuA	150kHz – 30MHz	± 4.3dB
Radiated Emissions below 1GHz	dBuV/m	30 – 1000MHz	± 5.6dB
Radiated Emissions above 1GHz	dBuV/m	1 – 26.5GHz	± 4.1dB

The reported expanded uncertainty has been estimated at a 95% confidence level (k=2)

END OF TEST REPORT