



H.B. Compliance Solutions

Intentional Radiator Test Report

For the

Globalstar

RM200M

Tested under

The FCC Rules contained in Title 47 of the CFR, Part 15.247 and ISSED RSS-247 Issue 4 Class II
Permissive Change for

Digitally Transmitting Sequence

Prepared for:

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Prepared By:

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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 15 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
1	June 21, 2026	Added graphical plot for Radiated Emission

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EXECUTIVE SUMMARY

1. Testing Summary

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15.247. All tests were conducted using measurement procedure from ANSI C63.10-2013, RSS-GEN Issue 5, RSS-247 Issue 3, FCC Guidance document 558074 D01 v05r02 April 02, 2019 as appropriate.

Test Name	Test Method/Standard	ISED Standard	Result	Comments
Radiated Spurious Emissions & Restricted Band	15.247(d), 15.209(a), 15.205	RSS-247 (5.5) RSS-Gen (7.0)	Pass	

Class II Permissive Change:

RM200M module is enclosed inside the Spot 360 device. Battery is enclosed to provide power to the unit. The host device is tested to confirm emissions are under the limits as per OEM instructions based on KDB 996369.

EQUIPMENT CONFIGURATION

1. Overview

H.B Compliance Solutions was contracted by Globalstar to perform testing on the Spot 360 under the quotation 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 15 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
FVIN:	0.5.1
HMN	Spot 360
Supply Voltage Input:	Primary Power: +5.0 VDC
Frequency Range:	2402-2480 MHz
No. of Channels:	40
Necessary Bandwidth	N/A
Type(s) of Modulation:	GFSK (Bluetooth BLE)
Emission Designator:	N/A
Test Item:	Pre-Production
Type of Equipment:	Mobile
Antenna Requirement (§15.203):	Type of Antenna: Ceramic SMT Gain of Antenna: 1.3dBi
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

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 Emission 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

CAB ID: US0226



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	010010700093

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

To Support FCC testing, a test firmware was provided to allow configuration of the carrier frequency, power level, and modulation type. 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 at the completion of testing & certification.

Criteria for Intentional Radiators

1. Radiated Spurious Emissions and Restricted Band

Test Requirement(s):	§15.247(d), 15.209(a), 15.205 and RSS-247 §5.5, RSS GEN §7.0	Test Engineer(s):	Sean E.
Test Results:	Pass	Test Date(s):	May 21, 2026

Test Procedures: As required by 47 CFR 15.247 and RSS-247 §5.5, Radiated spurious measurements were made in accordance with the procedures of the FCC Guidance Document 558074 D01 and ANSI C63.10.

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

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 frequency range up to the 10th harmonic was investigated included all the restricted band frequencies include 2483.5MHz. Measurement 10dB below the limits were not reported.

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

Detector Setting	Resolution Bandwidth	Video Bandwidth	Span
Peak	1MHz	3MHz	As necessary
Average	1MHz	10Hz	0 Hz

Table 4. Analyzer Settings

Test Setup:

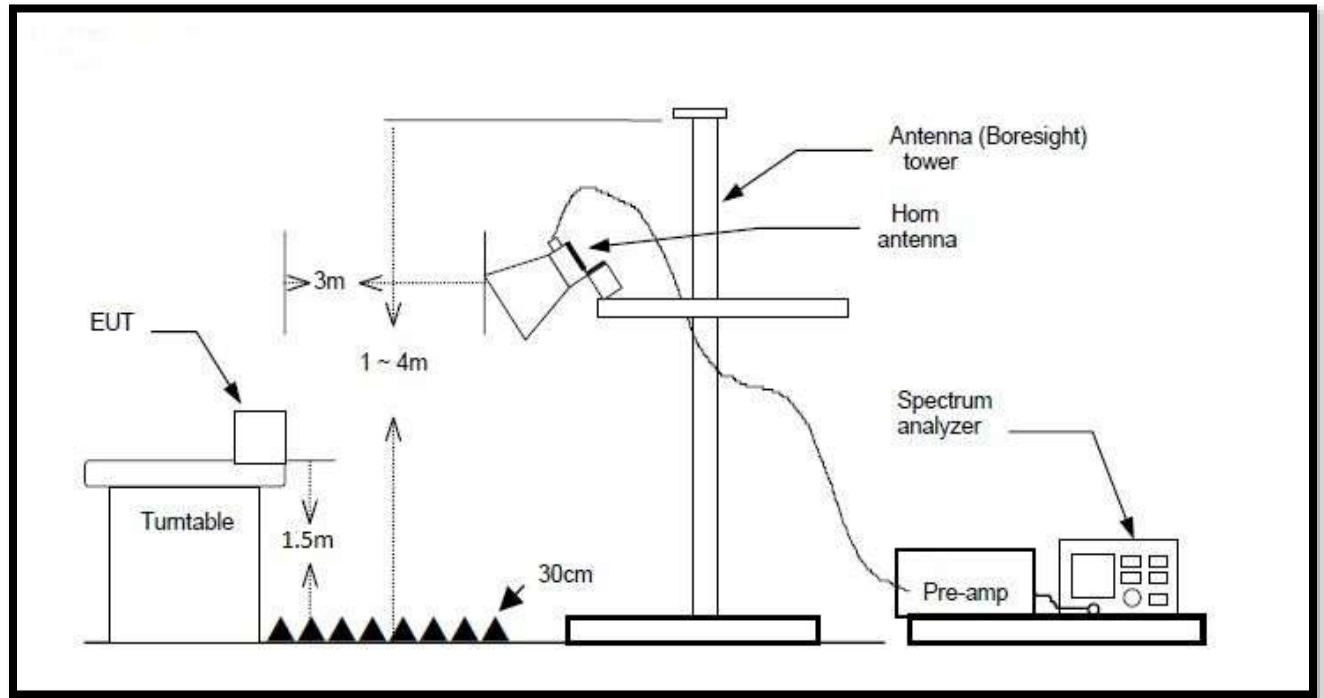
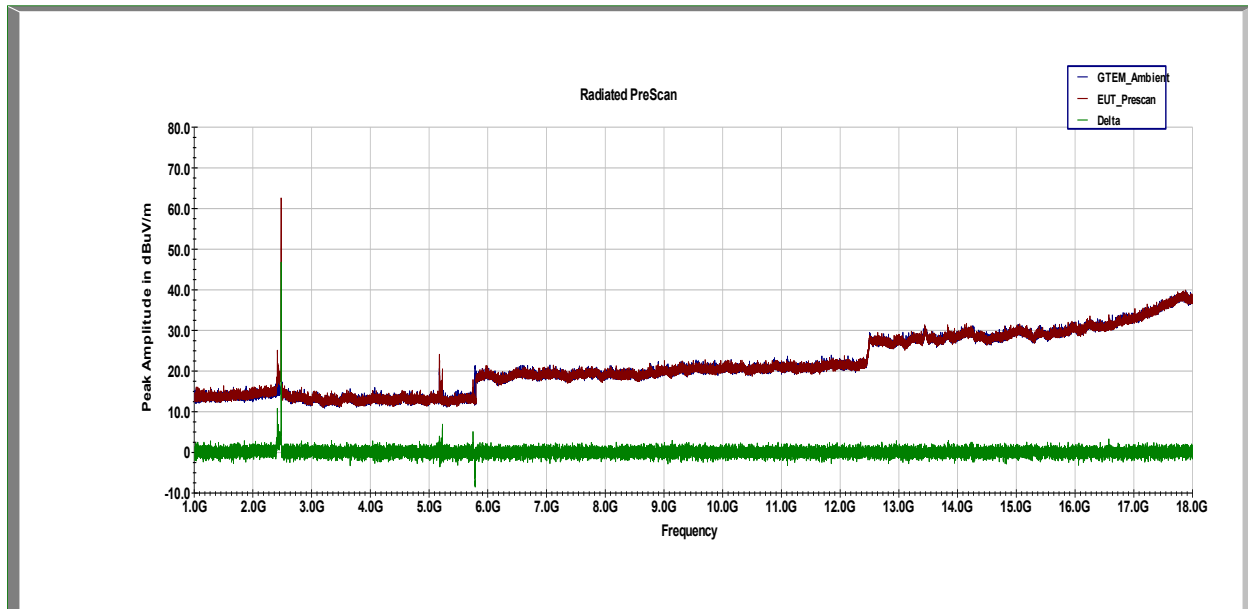


Figure 1. Radiated Emission Above 1GHz Test Setup

Test Result:



Plot – Radiated Emission – Pre-scan

Carrier Frequency (MHz)	Frequency (MHz)	Peak Amplitude (dbuV/m)	Peak Limit (dBuV/m)	Average Amplitude (dBuV/m)	Average Limit (dBuV/m)
2402	4804*	39.98	74.0	-	54.0
	7206*	34.18	74.0	-	54.0
2440	4880*	40.41	74.0	-	54.0
	7320*	37.08	74.0	-	54.0
2480	4960*	41.15	74.0	-	54.0
	7440*	36.62	74.0	-	54.0

Table 6 – Spurious Radiated Emission Data

NOTE 1: There were no detectable emissions above the 2nd harmonic.

NOTE 2: For Frequencies marked with “*” – measurements were taken at the noise floor of the system due to no detectable spurious emissions.

6. 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
High Pass Filter	Mini-Circuits	VHF-3100+	1023	Verified	
High Pass Filter	Mini-Circuits	VHF-1320+	1034	Verified	
Attenuator 10dB	Huber+Suhner	6810.17.A	747300	Verified	
Horn Antenna	Com-Power	AHA-118	711150	Feb-13-25	Feb-13-28
Antenna	EMCO	GTEM 5417	1063	Jan/05/2026	Jan/05/2029

Table 7 – 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)

7. 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 Emission below 30MHz	dBuV/m	9kHz-30MHz	± 2.96dB
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