



September 21, 2026

TUV SUD America CB
10 Centennial Drive FL2
Peabody, MA 01960

Attention: Director of Certification

RE: Analysis of RF Exposure 47 CFR FCC Part 2.1091

FCC ID: L2V-RX200M

1. General Information:

Applicant: Globalstar USA LLC
Exposure Conditions: Mobile Device

2. FCC Limits

Limits for General Population/Uncontrolled Exposure (Title 47 Subpart J §2.1091 and KDB 447498 D01 referring to limits under §1.1310)

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Electric Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time (minutes)
0.3 - 1.34	614	1.63	*(100)	30
1.34 - 30	824/f	2.19/f	*(180/f ²)	30
30 - 300	27.5	0.073	0.2	30
300 - 1500	-	-	f/1500	30
1500 - 100,000	-	-	1.0	30

f = frequency in MHz

**Plane-wave equivalent power density*

3. MPE Calculation Summary using 20cm separation distance:

Only the worst-case scenario is presented as representative of each operating frequency band.

LTE Output power worst case was taken from 721022331 Rev.1_Globalstar_FCC Part 22_24_27_Test Report (Issued by TÜV SÜD America in September 2026).

LTE Band 2		
Output Power (dBm)	Power Density at 20 cm (mW/cm ²)	FCC Limit (mW/cm ²)
23.36	0.11527	1.00
EUT Complies		



LTE Band 4		
Output Power (dBm)	Power Density at 20 cm (mW/cm ²)	FCC Limit (mW/cm ²)
22.46	0.09370	1.00
EUT Complies		

LTE Band 5		
Output Power (dBm)	Power Density at 20 cm (mW/cm ²)	FCC Limit (mW/cm ²)
22.66	0.07975	0.550
EUT Complies		

LTE Band 12		
Output Power (dBm)	Power Density at 20 cm (mW/cm ²)	FCC Limit (mW/cm ²)
22.66	0.07124	0.467
EUT Complies		

LTE Band 13		
Output Power (dBm)	Power Density at 20 cm (mW/cm ²)	FCC Limit (mW/cm ²)
22.36	0.06649	0.519
EUT Complies		

LTE Band 66		
Output Power (dBm)	Power Density at 20 cm (mW/cm ²)	FCC Limit (mW/cm ²)
22.66	0.07124	0.567
EUT Complies		



4. FCC Mobile Calculation using a 20cm separation distance:

Using Power Density formula:

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to isotropic

R = distance to the center of radiation of the antenna

MPE Results (Presented Results are with a Source Based time of 100% at 20 cm distance) LTE Band 2

Maximum rms output power at antenna input terminal:	23.36	(dBm)
Maximum rms output power at antenna input terminal:	216.77	(mW)
Maximum Antenna Gain	4.27	(dBi)
Maximum Antenna Gain	2.673	(numeric)
Prediction distance:	20	(cm)
Source Based Time Average Duty Cycle:	100	(%)
Prediction frequency:	1850.7	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1.000	(mW/cm ²)
Power density at prediction frequency:	0.11527	(mW/cm ²)
Power density at prediction frequency:	1.153	(W/m ²)
Margin of Compliance:	-9.38	(dB)

MPE Results (Presented Results are with a Source Based time of 100% at 20 cm distance) LTE Band 4

Maximum rms output power at antenna input terminal:	22.46	(dBm)
Maximum rms output power at antenna input terminal:	176.20	(mW)
Maximum Antenna Gain	4.27	(dBi)
Maximum Antenna Gain	2.673	(numeric)
Prediction distance:	20	(cm)
Source Based Time Average Duty Cycle:	100	(%)
Prediction frequency:	1710.7	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1.000	(mW/cm ²)
Power density at prediction frequency:	0.09370	(mW/cm ²)
Power density at prediction frequency:	0.937	(W/m ²)
Margin of Compliance:	-10.28	(dB)



MPE Results (Presented Results are with a Source Based time of 100% at 20 cm distance)
LTE Band 5

Maximum rms output power at antenna input terminal:	22.66	(dBm)
Maximum rms output power at antenna input terminal:	184.50	(mW)
Maximum Antenna Gain	3.37	(dBi)
Maximum Antenna Gain	2.173	(numeric)
Prediction distance:	20	(cm)
Source Based Time Average Duty Cycle:	100	(%)
Prediction frequency:	824.7	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.550	(mW/cm ²)
Power density at prediction frequency:	0.07975	(mW/cm ²)
Power density at prediction frequency:	0.797	(W/m ²)
Margin of Compliance:	-8.38	(dB)

MPE Results (Presented Results are with a Source Based time of 100% at 20 cm distance)
LTE Band 12

Maximum rms output power at antenna input terminal:	22.66	(dBm)
Maximum rms output power at antenna input terminal:	184.50	(mW)
Maximum Antenna Gain	2.88	(dBi)
Maximum Antenna Gain	1.941	(numeric)
Prediction distance:	20	(cm)
Source Based Time Average Duty Cycle:	100	(%)
Prediction frequency:	699.7	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.467	(mW/cm ²)
Power density at prediction frequency:	0.07124	(mW/cm ²)
Power density at prediction frequency:	0.712	(W/m ²)
Margin of Compliance:	-8.16	(dB)



MPE Results (Presented Results are with a Source Based time of 100% at 20 cm distance)
LTE Band 13

Maximum rms output power at antenna input terminal:	22.36	(dBm)
Maximum rms output power at antenna input terminal:	172.19	(mW)
Maximum Antenna Gain	2.88	(dBi)
Maximum Antenna Gain	1.941	(numeric)
Prediction distance:	20	(cm)
Source Based Time Average Duty Cycle:	100	(%)
Prediction frequency:	777.7	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.519	(mW/cm ²)
Power density at prediction frequency:	0.06649	(mW/cm ²)
Power density at prediction frequency:	0.665	(W/m ²)
Margin of Compliance:	-8.92	(dB)

MPE Results (Presented Results are with a Source Based time of 100% at 20 cm distance)
LTE Band 66

Maximum rms output power at antenna input terminal:	22.66	(dBm)
Maximum rms output power at antenna input terminal:	184.50	(mW)
Maximum Antenna Gain	4.27	(dBi)
Maximum Antenna Gain	2.673	(numeric)
Prediction distance:	20	(cm)
Source Based Time Average Duty Cycle:	100	(%)
Prediction frequency:	1710.7	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1.000	(mW/cm ²)
Power density at prediction frequency:	0.09811	(mW/cm ²)
Power density at prediction frequency:	0.981	(W/m ²)
Margin of Compliance:	-10.08	(dB)



5. **MPE Simultaneous Transmission Calculation Summary using 20cm separation distance**

Note:

BLE radio characteristics and test results were obtained from the manufacturer and are based on the grant for the pre-certified module (FCC ID: L2V-RX200M).

LTE Output power worst case was taken from 721022331 Rev.1_Globalstar_FCC Part 22_24_27_Test Report (Issued by TÜV SÜD America in September 2026).

LTE Band 2 and BLE				
Transmitter	Output Power (dBm)	Power Density at 20 cm (mW/cm²)	FCC Limit (mW/cm²)	FCC MPE Ratio (MPE/Limit)
LTE Band 2	23.36	0.11527	1	0.11527
BLE	7.53	0.00152	1	0.00152
Sum of ratios (should be <1.0)				0.11679

LTE Band 4 and BLE				
Transmitter	Output Power (dBm)	Power Density at 20 cm (mW/cm²)	FCC Limit (mW/cm²)	FCC MPE Ratio (MPE/Limit)
LTE Band 4	22.46	0.0937	1	0.0937
BLE	7.53	0.00152	1	0.00152
Sum of ratios (should be <1.0)				0.09522

LTE Band 5 and BLE				
Transmitter	Output Power (dBm)	Power Density at 20 cm (mW/cm²)	FCC Limit (mW/cm²)	FCC MPE Ratio (MPE/Limit)
LTE Band 5	22.66	0.07975	0.55	0.145
BLE	7.53	0.00152	1	0.00152
Sum of ratios (should be <1.0)				0.14652



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LTE Band 12 and BLE				
Transmitter	Output Power (dBm)	Power Density at 20 cm (mW/cm ²)	FCC Limit (mW/cm ²)	FCC MPE Ratio (MPE/Limit)
LTE Band 12	22.66	0.07124	0.467	0.15254818
BLE	7.53	0.00152	1	0.00152
Sum of ratios (should be <1.0)				0.15406818

LTE Band 13 and BLE				
Transmitter	Output Power (dBm)	Power Density at 20 cm (mW/cm ²)	FCC Limit (mW/cm ²)	FCC MPE Ratio (MPE/Limit)
LTE Band 13	22.36	0.06649	0.519	0.128111753
BLE	7.53	0.00152	1	0.00152
Sum of ratios (should be <1.0)				0.129631753

LTE Band 66 and BLE				
Transmitter	Output Power (dBm)	Power Density at 20 cm (mW/cm ²)	FCC Limit (mW/cm ²)	FCC MPE Ratio (MPE/Limit)
LTE Band 66	22.66	0.07124	0.567	0.125643739
BLE	7.53	0.00152	1	0.00152
Sum of ratios (should be <1.0)				0.127163739

Sincerely,

Omar Castillo

Name

Authorized Signatory

Title: Senior EMC / Wireless Test Engineer