FCC §15.247 (i) & §1.1307 (b) (3) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

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According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(3)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § $1.1307(b)(3)(i)(C)$ - Single RF Sources Subject to Routine Environmental Evaluation						
RF Source frequency (MHz)	Threshold ERP (watts)					
0.3-1.34	1,920 R ² .					
1.34-30	3,450 R ² /f ² .					
30-300	3.83 R ² .					
300-1,500	0.0128 R ² f.					
1,500-100,000	19.2R ² .					

Ris the minimum separation distance in meters f = frequency in MHz

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Result

Mode	Frequency (MHz)	Tune up conducted power#	Antenna Gain [#]		ERP		Evaluation Distance	ERP Limit (W)
		(dBm)	(dBi)	(dBd)	(dBm)	(W)	(m)	
BLE	2402-2480	0.5	0.37	-1.78	-1.28	0.0007	0.2	0.768
LTE B2	1850-1910	25.0	0.45	-1.70	23.30	0.214	0.2	0.768
LTE B4	1710-1755	25.0	0.45	-1.70	23.30	0.214	0.2	0.768
LTE B5	824-849	25.0	0.18	-1.97	23.03	0.201	0.2	0.422
LTE B12	699-716	25.0	0.23	-1.92	23.08	0.203	0.2	0.358
LTE B13	777-787	25.0	0.18	-1.97	23.03	0.201	0.2	0.398
LTE B17	704-716	25.0	0.23	-1.92	23.08	0.203	0.2	0.360
LTE B25	1850-1915	25.0	0.45	-1.70	23.30	0.214	0.2	0.768
LTE B66	1710-1780	25.0	0.45	-1.70	23.30	0.214	0.2	0.768
LTE B85	698-716	25.0	0.23	-1.92	23.08	0.203	0.2	0.357

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The tune up conducted power and antenna gain was declared by the applicant.

The device contains a certified WWAN model (model: BC660K-GL, FCC ID: XMR2021BC660KGL)

Simultaneously transmitting condition:

The worst case ratio=0.0007/0.768+0.203/0.357=0.57<1

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.