RF Exposure

FCC ID: 2AF4S-MV2853BTB

IC ID : 20753-MV2853BTB

Portable device

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

FCC

Band of Operation		Conducted Power	Conducted Power	Distance (R)	Result	SAR Exclusio	Rsult
Туре	MHz	w/tolerance dBm	w/tolerance mW	mm	calculation	n threshol	noun.
Bluetooth	2402 - 2480 (2402)	5.90	3.89 mW	<5	1.20591	3.00	Pass
LE	2402 - 2480 (2402)	5.14	3.27 mW	<5	1.01232	3.00	Pass

Note: () is Frequency of max power.

According to RSS-102 issue 5, section 2.5.1 table1SAR evaluation-Exemption limits.

IC

Band of Operation		Power	Antenna Gain dBi	E.i.r.p w/tolerance	E.i.r.p w/tolerance	Distance (R)	Limit mW	Rsult
Туре	MHz	dBm	аы	dBm	mW	mm		
Bluetooth	2402 - 2480 (2402)	5.90	3.74	9.64	9.2 mW	<5	4.26180	Pass
LE	2402 - 2480 (2402)	5.14	3.74	8.88	7.73 mW	<5	4.26180	Pass

Note: () is Frequency of max power.

Conclusion:

SAR is not required.