

RF EXPOSURE EVALUATION FCC ID: 2A83K-X28

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Product Name	:	MINISO Wireless Earbud		
Model Name	:	X28, X32,X33,X35,X68,X69,X80,X81,X82,X83,X85		
Bluetooth Version	:	BT 5.4		
Operating frequency	ŀ	2402-2480MHz		
Numbers of Channel	:	79 channels for BDR		
Antenna Type	:	Ceramic Antenna		
Antenna Gain	:	2.7dBi		
Type of Modulation	:	GFSK, Π/4-DQPSK,8DPSK For DSS		
Battery: Li-ion Battery: 501015 : Rated Voltage: 3.7V Rated Capacity:50mAh		Li-ion Battery: 501015 Rated Voltage: 3.7V		
Hardware Version	:	A38-5636E-V1_1		
Software Version	:	V02_L-9A2B74F6_3572C6FD V02_R-9A2B74F6_35725F27		



Standard Requirement

According to § 15.247(i) and § 1.1307b(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 levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v06, section 4. 3. 1.

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

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

The test exclusions are applicable only when the minimum test separation distance is ≤ 50mm and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is <5mm, a distance of 5mm is applied to determine SAR test exclusion. Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.

Channel (MHz)	Maximum output power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Distance (mm)	Calculation results	Limit	Operating Mode
2402	5.65	5.65 ± 1	4.623810	5	1.433232	3	3DH5

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

Signature

Simon Pu Manager

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Simon to