



RF EXPOSURE EVALUATION

FCC ID: 2BHJR-MS162

Product Name	:	MINISO Wireless Earbud MS162
Model Name	:	MS162
Serial model	:	X23
Differential description	:	Only the model names are different
Specification	:	BT 5.4 BDR+EDR
Operation Frequency	:	2402-2480MHz
Number of Channel	:	79 channels for BDR+EDR
Type of Modulation	:	GFSK, $\pi/4$ -DQPSK For DSS
Antenna installation	:	Ceramic antenna
Antenna Gain	:	2.78 dBi
Rated Power Supply	:	Input: DC 5V 300mA Battery: Li-ion Battery :501020 Rated Voltage: 3.7V Rated Capacity:70mAh
Hardware Version	:	V1
Software Version	:	5.4
Test sample No.	:	PTC24091110508E-1/2,PTC24091110508E-2/2.



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 ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]^2 \sqrt{f(\text{GHz})} \leq 3.0$ for 1-g SAR and ≤ 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 ≤ 50 mm and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is < 5 mm, 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
2480	6.36	6.36 ± 1	5.445027	5	1.714967	3	2DH5

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

Signature

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Manager

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