

RF Exposure requirements

Product name	POMINI
Model name	MA-100
FCC ID	2AC8MA-100
Radio specification	2.4 GHz Bluetooth Portable Printer
Antenna	Chip Antenna
Power source	DC 7.4(Battery)

According to the KDB 447498, the following standalone SAR test exclusion was considered to qualify for the SAR test exclusion.

Frequency range	2402 MHz - 2480 MHz
Device category	Portable Device
Maximum conducted output power	0.491 mW (-3.09 dBm)
Limit	10 mW (distance = 5 mm)

SAR test exclusion thresholds:

$$[(\text{max. power of channel, mW}) / (\text{min. separation distance, mm})] \cdot \sqrt{f_{(\text{GHz})}} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$

MHz	5	10	15	20	25	29	30	35	40	45	50	test separation distance (mm)
2450	10	19	29	38	48	56	57	67	77	86	96	SAR test exclusion threshold (mW)

The source-based time-averaged maximum conducted output power of the RF channel is less than 10 mW, and the minimum separation distance of 5 mm can be achieved. Therefore the transmitter complies with the RF exposure requirements and the SAR is not required.