

RF Exposure Requirements

Product Description: Handheld Barcode Scanner

Model No.: HN-7278HD, HN-3578SR, N150BT, BR150BT, HN-3578XX-XXXR, N170BT, BR170BT, HN-7278SR, HN-7278XX-XXXR, HN-7278XX, HN-3578XX (XX represents the focal distance of lens maybe SR/ MR / LR / HD / HP / WA, etc;X represents software version,maybe (0-9);XX represents customer code,maybe (00-99);R represents ROHS certification)

FCC ID: 2AUTE-7278

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

- $f(\text{GHz})$ 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

Calculation Result:

Tx frequency range: 2402-2480MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power: 4.01dBm

Tune-Up output power: 4.5dBm

RF channel transmit frequency: 2480MHz

Result: 0.9

Limit: 3.0

The exclusion thresholds is $0.9 < 3$, so the transmitter complies with the RF exposure requirements and the SAR is not required.