



RF Exposure Evaluation

FCC ID: 2AASG-CS2290

According to KDB 447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a).

EUT Specification

Product Name:	Cordless Image Scanner
Trade Mark:	MINDEO
Model/Type Reference:	CS2290-HD(BT)
Listed Model(s):	CS2XXX-XX, CS2XXX-XX(BT), CS2XXXS-XX, CS2XXXS-XX(BT) (X Stand for 0-9, A-Z)
Model Differences:	All these models are identical in the same PCB, layout, electrical circuit and enclosure. The difference is the model name.
Frequency Band (Operating)	BT: 2402MHz ~ 2480MHz
Device Category	<input checked="" type="checkbox"/> Portable (<5mm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Fixed (>20cm separation) <input type="checkbox"/> Others ____
Antenna Diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> TX diversity <input type="checkbox"/> RX diversity <input type="checkbox"/> TX/RX diversity
Antenna Gain (Max)	2.66dBi

Limit

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

-The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

**Measurement Result**

Mode	Frequency (MHz)	Maximum Power (dBm)	Target Power (dBm)	Tune Up Tolerance (dB)	Max. Tune Up Power (dBm)	Result	Limit	Verdict
GFSK (BLE)	2402	3.712	4.0	± 1	5.0	0.980	3.0	Pass
GFSK (BR)	2402	4.763	5.0	± 1	6.0	1.234	3.0	Pass

Note:

1. Calculate in the worst-case mode.
2. Max. Tune Up Power is declared by manufacturer, and used to calculate.
3. For a more detailed features description, please refer to the RF Test Report.

*****THE END*****