

RADIO FREQUENCY EXPOSURE

LIMIT

According to 447498 D01 General RF Exposure Guidance v05

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

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

EUT Specification

EUT	2.4GHz Transmitter
Model	CTX-8000
Frequency Band (Operating)	FHSS/2406.0 MHz ~2420.0MHz
Device Category	<input checked="" type="checkbox"/> Portable (<20cm separation) <input type="checkbox"/> Mobile (>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
Max. Output Power	9.62dBm (9.16mW)
Evaluation Applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation

TEST RESULT

No non-compliance noted.

Calculation

Given $S = (P / d) \cdot [\sqrt{f(\text{GHz})}]$

Where $d = 5\text{mm}$ (min. test separation distance, mm)

$P = \text{Max. power of channel, including tune-up tolerance, mW}$

$F = \text{Max power of channel}$

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Maximum Permissible Exposure

P= 9.16mW

F= 2.406GHz

$S=(9.16\text{mW}/5\text{mm})^* [\sqrt{2.406\text{GHz}}]=2.84 \leq 3.0$ for 1-g SAR

Conclusion:

The Computed value is ≤ 3 ; Therefore, The EUT qualifies for standalone SAR test exclusion.

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