# Radio Frequency Exposure

## **STANDARDS**

FCC Part2 (Section 2.1091) KDB 447498 D01 **IEEE C95.1** 

## **LIMIT**

KDB 447498 D01 § 4.3(a)

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:

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

#### **EUT Specification**

EUT	Electrocardiograph			
Frequency band (Operating)	<ul> <li>□ WLAN: 2400MHz ~ 2483.5MHz</li> <li>□ WLAN: 5150MHz ~ 5250MHz</li> <li>□ WLAN: 5725MHz ~ 5850MHz</li> <li>□ Bluetooth: 2402MHz ~ 2480MHz</li> </ul>			
Device category	<ul><li>✓ Portable (&lt;20cm separation)</li><li>✓ Mobile (&gt;20cm separation)</li></ul>			
Exposure classification	<ul><li>☐ Occupational/Controlled exposure</li><li>☐ General Population/Uncontrolled exposure</li></ul>			
Antenna diversity	☐ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity			
Max. output power	7.39 dBm (5.48mW)			
Antenna gain (Max)	2.5 dBi			
Evaluation applied	<ul><li>MPE Evaluation*</li><li>SAR Evaluation</li><li>N/A</li></ul>			
Remark:				

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The maximum output power is <u>7.39 dBm (5.48mW)</u> at <u>2480MHz</u> (with <u>numeric 2.5 antenna gain.</u>)

<sup>2.</sup> DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.

For mobile or fixed location transmitters, no SAR consideration applied.

<sup>\*</sup>Note: Simultaneous transmission is not applicable for this EUT.



# TEST RESULTS

According to the KDB447498:

The SAR test exclusion thresholds Level:

[(max. power of channel, including tune-up tolerance, mW) /(min. test separation distance, mm)] \* sqrt (freq. in GHz) < 3

#### Calculation

Modulation Mode	Frequency band (MHz)	Max. Conducted output power (dBm)			SAR test exclusion thresholds (mW)
GFSK	2402-2480	7.39	5.48	5	10

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing

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