

13. Radio Frequency Exposure

13.1 Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in

FCC Part 2 (Section 2.1093)

<u>LIMIT</u>

KDB 447498 D01 § 4.3(a)

For 100 MHz to 6 $\overline{\text{GHz}}$ and test separation distances \leq 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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR, and ≤ 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 \leq 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

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Frequency band	WLAN: 2412MHz ~ 2462MHz				
(Operating)	Bluetooth: 2402MHz ~ 2480MHz				
Device esterem	Portable (<20cm separation)				
Device category	Mobile (>20cm separation)				
Exposure	Occupational/Controlled exposure				
classification	General Population/Uncontrolled exposure				
Antenna diversity	Single antenna				
	Multiple antennas				
	Tx diversity				
	Rx diversity				
	Tx/Rx diversity				
Evaluation applied	MPE Evaluation*				
	SAR Evaluation				
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13.2 EUT Specification

Remark:

- The maximum output power is <u>5.54 dBm (3.581mW)</u> at <u>2480MHz</u> (with <u>2.55 dBi</u> antenna gain.)
- DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.
- 3. For mobile or fixed location transmitters, no SAR consideration applied.



13.3 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	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Max. Tune up power (mW)	Distance (mm)	SAR test exclusion thresholds (mW)
GFSK	2402-2480	4.25	4.75	2.99	50	96.0000
π/4-DQPSK	2402-2480	5.43	5.93	3.92	50	96.0000
8DPSK	2402-2480	5.54	6.04	4.02	50	96.0000

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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T-FD-507-0 Ver 1.4	Page No.	: 62 of 62
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