12. Radio Frequency Exposure

12.1 Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in FCC Part 2 (Section 2.1093)

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KDB 447498

IEEE C95.1:2005

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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

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

12.2 EUT Specification

Frequency band					
(Operating)	☐ Bluetooth: 2402MHz ~ 2480MHz				
Device category	□ Portable (<20cm separation)				
	☐ 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					
	□ N/A				
Remark:					
1. The maximum conducted output never is 1dPm (2.512mM) at 2.462MHz (with					
 The maximum conducted output power is <u>4dBm (2.512mW)</u> at <u>2462MHz</u> (with 2.8 <u>dBi antenna gain.)</u> 					
2.0 <u>abranterma gam.)</u> 2. 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.					

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^{*}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

12.3 Test Results

No non-compliance noted.

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

Channel Frequency (MHz)	Max. Conducted output power(dBm)	Max. Conducted output power(mW)	Distance (mm)	SAR test exclusion thresholds (mW)
2412-2462	4.00	2.51	5	10.00

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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