# 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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#### **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  $\le 7.5$  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  $\leq$  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

#### 12.2 EUT Specification

Frequency band	L					
(Operating)						
Dovice esterory	□ Portable (<20cm separation)					
Device category	☐ Mobile (>20cm separation)					
Exposure	Occupational/Controlled exposure					
classification	□ General Population/Uncontrolled exposure					
	Single antenna					
	☐ Multiple antennas					
Antenna diversity	☐ Tx diversity					
	Rx diversity					
	☐ Tx/Rx diversity					
<b>Evaluation applied</b>	☐ SAR Evaluation					
	⊠ N/A					
Remark:						
4 The man and the control of the con						
1. The maximum output power is <u>-0.34 dBm (0.925mW)</u> at <u>2402MHz</u> (with <u>2.39 dBi</u>						
antenna gain.)  DTS device is not subject to routine RE evaluation: MRE estimate is used to justify the						
<ol> <li>DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.</li> </ol>						
For mobile or fixed location transmitters, no SAR consideration applied.						
. To monic of fixed location transmitters, no oan consideration applied.						

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## **12.3 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

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### Calculation

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)
2402-2480	-0.34	0.16	1.04	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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