# 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					
(Operating)	☐ GFSK: 2402MHz ~ 2480MHz				
Dovino cotogory	□ 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				
Evaluation applied	SAR Evaluation				
	□ N/A				
Remark:					
<ol> <li>The maximum outp</li> </ol>	. The maximum output power is <u>5.18 dBm (3.296mW) at 2402MHz (with 2.95 dBi antenna</u>				
gain.)					
<ol><li>DTS device is not s</li></ol>	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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### 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	5.18	5.68	3.70	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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