# 13. Radio Frequency Exposure

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

Report No.: TEFB1808244

FCC Part 2 (Section 2.1093

KDB 447498

**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)]  $\cdot$  [ $\sqrt{f(GHz)}$ ]  $\leq$  3.0 for 1-g SAR, and  $\leq$  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

# 13.1 EUT Specification

Frequency band	│					
(Operating)						
Dovino entegery	□ 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						
	□ N/A					
Remark:						
	1					
	ducted output power is <u>2.06dBm (1.6069mW)</u> at <u>2480MHz</u> (with					
3.92dBi antenna gain.)  2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify th						
z. DTS device is not subject to routine RF evaluation, WPE estimate is used to justify the compliance.						
3. For mobile or fixed location transmitters, no SAR consideration applied.						
5. I of Hobile of fixed location transmitters, no oant consideration applied.						

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#### 13.2 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)	Max. Conducted output power(mW)	Distance (cm)	SAR test exclusion thresholds (mW)
GFSK	2402-2480	-0.93	0.8072	5	10.0000
π/4-DQPSK	2402-2480	1.65	1.4622	5	10.0000
8DPSK	2402-2480	2.06	1.6069	5	10.0000

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

Note: Tune up tolerances have been taken in to account when calculating RF exposure evaluation.

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