## 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)

Report No.: TEFI2001124-995

#### **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)]  $[\sqrt{f(GHz)}] \le 3.0$  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 ≤ 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	🔼 2.4G: 2412MHZ ~ 2462MHZ					
(Operating)	☐ BLE: 2402MHz ~ 2480MHz					
Dovice estegery	□ 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     SAR					
	□ N/A					
Remark:						
4 The man discussion and						
1. The maximum output power is <u>0.71 dBm (1.178mW)</u> at <u>2480MHz</u> (with <u>3.27 dBi</u>						
<u>antenna gain.)</u> 2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify th						
<ol><li>DTS device is not compliance.</li></ol>						
3. For mobile or fixed location transmitters, no SAR consideration applied.						
. To modio of fixed location transmittors, no ozin consideration applied.						

\*Note: Simultaneous transmission is not applicable for this EUT.

Issued date : Feb. 26, 2020 T-FD-509-0 Ver 1.2 Page No. : 38 of 39 FCC ID. : ZHK-M00022

# **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

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	0.71	2.71	1.87	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

T-FD-509-0 Ver 1.2

Issued date : Feb. 26, 2020 Page No. : 39 of 39 FCC ID. : ZHK-M00022

Report No.: TEFI2001124-995