

## 7. Measurement Data (continued)

### 7.12. Public Exposure to Radio Frequency Energy Levels (15.247(i) (1.1307 (b)(1)) RSS-GEN, ISSUE 4 5.5, RSS 102)

#### 7.12.1. 15.247(i) (1.1307 (b)(1) Requirements

Requirement: Portable devices are subject to radio frequency radiation exposure requirements.

For a 1-g head or body SAR, the test exclusion result must be  $\leq 3.0$ .

For a 10-g extremity SAR, the test exclusion result must be  $\leq 7.5$ .

Test Notes: The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by the following formula:

$$\text{SAR Test Exclusion} = \frac{P_{\text{MAX}}}{d_{\text{MIN}}} \times \sqrt{f_{(\text{GHz})}} \quad (1)$$

$P_{\text{MAX}}$  mW Maximum power of channel, including tune-up tolerance

$d_{\text{MIN}}$  mm Minimum test separation distance, mm ( $\leq 50$  mm)

$f_{(\text{GHz})}$  GHz  $f_{(\text{GHz})}$  is the RF channel transmit frequency in GHz ( $>100$  MHz and  $<6$  GHz)

(1) FCC OET 447498 - Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

Results: Compliant - The device under test meets the exclusion requirement detailed in FCC OET 447498.

Channel:		37	38	39	
Input <sup>1</sup> :	$P_{\text{MAX}}$	0.064	0.074	0.062	mW
	$d_{\text{MIN}}^2$	5.00	5.00	5.00	mm
	$f_{(\text{GHz})}$	2.402	2.426	2.480	GHz
Test Exclusion:		0.02	0.02	0.02	
Limit Exemption:		3.0	3.0	3.0	
Measurement Result:		Compliant	Compliant	Compliant	

<sup>1</sup> Taken from column 3 of the table in Section 7.3 of this test report.

<sup>2</sup> When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to KDB 447498, 4.1 f) is applied to determine SAR test exclusion.

## 7. Measurement Data (continued)

### 7.12. Public Exposure to Radio Frequency Energy Levels (15.247(i) (1.1307 (b)(1)) RSS-GEN, ISSUE 4 5.5, RSS 102) (continued)

#### 7.12.2. RSS-102 Issue 5 Requirements

**Requirement:** SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1. Portable devices are subject to radio frequency radiation exposure requirements.

**Test Notes:** The limit was taken from Table 1 of RSS-102 Issue 5. For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 are multiplied by a factor of 2.5.

**Results:** Compliant

**Bluetooth Radio**

Frequency	Separation Distance	Maximum Power	RSS-102 Limit	Result
MHz	mm	mW	mW	
2402	≤5	0.06	10.65	Compliant
2426	≤5	0.07	10.33	Compliant
2480	≤5	0.06	9.86	Compliant