

## 7. Measurement Data (continued)

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

#### 7.11.1. 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: Passed - The device under test meets the exclusion requirement detailed in FCC OET 447498.

Channel:		37	38	39	
Input <sup>1</sup> :	$P_{\text{MAX}}$	0.265	0.312	0.415	mW
	$d_{\text{MIN}}^2$	5.00	5.00	5.00	mm
	$f_{(\text{GHz})}$	2.402	2.626	2.480	GHz
Test Exclusion:		0.08	0.10	0.13	
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.

**Note:** BLE and UWB Radios do not transmit simultaneously.

#### 7.11.2. IC RSS-102 Issue 5 SAR Evaluation (Reference RSS-102, Table 1)

Frequency	Separation Distance	Maximum Power	RSS-102 Limit	Result
MHz	mm	mW	mW	
2402	$\leq 5$	0.26	10.65	Compliant
2626	$\leq 5$	0.31	7.60	Compliant
2480	$\leq 5$	0.41	9.86	Compliant