

**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 ≤ 3.0.

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

Test Notes: The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 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 (≤ 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	17	39	
Input <sup>1</sup> :	$P_{\text{MAX}}$	2.158	1.977	2.028	mW
	$d_{\text{MIN}}^2$	5.00	5.00	5.00	mm
	$f_{(\text{GHz})}$	2.402	2.440	2.480	GHz
<b>Test Exclusion:</b>		<b>0.67</b>	<b>0.62</b>	<b>0.64</b>	
<b>Limit Exemption:</b>		<b>3.0</b>	<b>3.0</b>	<b>3.0</b>	
<b>Measurement Result:</b>		<b>Compliant</b>	<b>Compliant</b>	<b>Compliant</b>	

<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)**

**7.11. 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.

Results: Compliant

**Bluetooth Radio**

Frequency	Separation Distance	Maximum Power	RSS-102 Limit	Result
MHz	mm	mW	mW	
2402	≤5	2.16	4.26	Compliant
2440	≤5	1.98	4.05	Compliant
2480	≤5	2.03	3.94	Compliant