

## 6. Measurement Data (continued)

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

#### 6.8.1. FCC Requirements

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

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

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.

Conclusion: The device under test meets the exclusion requirement detailed in FCC OET 447498.

<b>Input:</b>	$P_{\text{MAX}}^1$ (mW)	0.05	0.11	0.11
	$d_{\text{MIN}}$ (mm)	5.00	5.00	5.00
	$f_{(\text{GHz})}$	2.402	2.441	2.480
<b>Test Exclusion:</b>		<b>0.017</b>	<b>0.035</b>	<b>0.033</b>
<b>Limit Exemption:</b>		<b>3.00</b>	<b>3.00</b>	<b>3.00</b>

<sup>1</sup> Taken from column 5 of the table in Section 7.4 of this test report.

#### 6.8.2. 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.

Frequency (MHz)	Separation Distance (mm)	Maximum Power (mW)	RSS-102 Limit (mW)	Result
2402.00	$\leq 5$	0.05	4.26	Compliant
2440.00	$\leq 5$	0.11	4.05	Compliant
2480.00	$\leq 5$	0.11	3.94	Compliant