

6. Measurement Data (continued)

6.12. Public Exposure to Radio Frequency Energy Levels (1.1307 (b)(1))

6.12.1. SAR Test Exclusion Calculation

Requirement: Portable devices as defined in § 2.1093 of this chapter operating under Part 15 are subject to radio frequency radiation exposure requirements as specified in §§ 1.1307(b) and 2.1093 of this chapter. For a 1-g SAR, the test exclusion result must be ≤ 3.0.

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

<b>Input:</b> $P_{\text{MAX}}^1$ (mW)	1.44544	1.72982	1.40281
$d_{\text{MIN}}$ (mm)	5.00	5.00	5.00
$f_{(\text{GHz})}$	2.402	2.441	2.480
<b>Test Exclusion:</b>	<b>0.44804</b>	<b>0.54052</b>	<b>0.44183</b>
<b>Limit Exemption:</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>

<sup>1</sup> Taken from the peak data in Section 6.6 of this test report (converted to mW).

The device does not exceed the test limit exemption and therefore a routine SAR Evaluation is not required