



166 South Carter, Genoa City, WI 53128

Company: Roche Diagnostics  
Model Tested: 502  
DLS Project: 5481

## RF Exposure Compliance

**Company:** Roche Diagnostics Operations, Inc.  
**Model:** Model 502 tested to represent Aviva Models 483, 484, 497, 498, 499, 500 and 502, and Performa Models 479, 501, 503 and 765  
**Formal Name:** Accu-Chek Aviva Connect (tested)  
and Accu-Chek Performa Connect

**Rule Part:** CFR 47 Part 1.1307(b)  
CFR 47 Part 2.1093

**Test Procedure:** FCC 447498 10 D01 General RF Exposure Guidance v05  
4.3. General SAR test reduction and exclusion guidance  
4.3.1. Standalone SAR test exclusion considerations

**Limits:** 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz.

Power and distance are rounded to the nearest mW and mm before calculation.

The result is rounded to one decimal place for comparison.

When the minimum *test separation distance* is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

**Output Power:** This is a portable device. The maximum peak power measured -1.81 dBm conducted. The antenna gain is -4.91 dBi.  
 $-1.81 \text{ dBm} = 0.66 \text{ mW}$ .

**Exclusion threshold:**  $[1 \text{ mW} / 5 \text{ mm}] \times [\sqrt{2.480 \text{ GHz}}] = 0.31$

**Results:** **0.31 is  $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.**  
SAR measurement is not necessary.