



1516 Centre Circle, Downers Grove IL 60515

RF EXPOSURE EXHIBIT		
Manufacturer Name	Roche Diabetes Care	
Manufacturer Address	9115 Hague Rd. Indianapolis, IN 46256	
Model No.	Nugen	
Specifications	FCC "Code of Federal Regulations" Title 47 Part 1.1307(b) FCC "Code of Federal Regulations" Title 47 Part 2.1093	
Test Facility	Elite Electronic Engineering, Inc. 1516 Centre Circle, Downers Grove, IL 60515	FCC Reg. Number: 269750 IC Reg. Number: 2987A CAB Identifier: US0107
Test Procedure	FCC KDB 447498 D01 General RF Exposure Guidance v06	
Limits	<p>The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances ≤ 50 mm are determined by the following:</p> <p>$[(\text{max. power of chan., inc. tune-up tol., mW}) / (\text{min. test sep. distance, mm})] * [\sqrt{f(\text{GHz})}]$</p> <p>$f(\text{GHz}) = \text{RF channel transmit frequency in GHz.}$</p> <p>power is rounded to the nearest mW distance is rounded to the nearest mm result is rounded to 1 decimal place for comparison</p>	
<p>This is a portable device.</p> <p>The maximum peak conducted output power measured -2.4dBm.</p> <p>The declared maximum output including acceptable tolerances is 4.1 dBm.</p> <p>Maximum antenna gain is 3.4 dBi</p> <p>Maximum peak EIRP = 4.1 dBm + 3.4 dBi = 7.5 dBm = 5.6mW</p> <p>Exclusion Threshold: $(5.6\text{mW} / 5\text{mm}) * \sqrt{2.480\text{GHz}} = 1.8$</p> <p>1.8 is ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR</p> <p>This device meets the SAR exclusion requirement.</p>		