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## **Certification Exhibit**

**FCC Rule Part: 47 CFR Part 2.1093**

**TÜV SÜD Project Number: NC72193137**

Manufacturer: Marquardt GmbH  
Model: NH1

## **RF Exposure**

TÜV SÜD America Inc  
141 14<sup>th</sup> Street NW  
New Brighton, MN 55112

Phone: 651-631-2487  
[www.tuv-sud-america.com](http://www.tuv-sud-america.com)

**General Information:**

Applicant: Marquardt GmbH  
Environment: General Population/Uncontrolled Exposure  
Exposure Conditions: Portable

**Technical Information:**

Minimum Test Separation Distance: 0.2 mm  
Highest Operating Frequency: 13.56 MHz  
Antenna Type: Loop  
Antenna Gain: 0 dBi  
Maximum Transmitter Radiated Power: -33.29 dBm, 0.00046881 mW  
Maximum Transmitter EIRP: -33.29 dBm, 0.00046881 mW

**Justification for SAR Test Exclusion:****Standalone SAR Test Exclusion:**

Per KDB 447498 D01 General RF Exposure Guidance v05r02, the standalone 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:

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

$$= (0.00046881 / 0.2) \cdot (\sqrt{0.01}) = 0.0$$

**0.0 < 3.0**

Standalone SAR test exclusion is applied.

Output power was taken from radiated output power measurements performed in test report NC72193137.2.