



## RF Exposure Analysis – SAR Test Exemption – HMI Board G5P

**FCC ID: 2A3C7-HMIG5P**

The HMIG5P equipment operates using a 13.56MHz transmitter.

### **The following FCC Rule Parts and Procedures are applicable:**

KDB447498 D04 V01 – Interim General RF Exposure Guidance

Part 1.1307(b)(3)(i)(A) - Blanket RF exposure exemption (i)

Part 1.1307(b)(3)(i)(C) - SAR test exemption (ii)

Part 1.1307(b)(3)(i)(B) - SAR test exemption (iii)

### **For the HMI Board GP5**

Operating Frequency: 13.56MHz

Tx Power<sub>max</sub> (declared): +79.6dBuV/m @3m = -15.7dBm EIRP = -17.85dBm ERP

*Measured radiated power – Ref KDB447498 D04 Section 3.1.2 –*

*When an antenna port is not available on the device to support conducted power measurement, eg: with built-in integral antennas, the available maximum output power or ERP, whichever is larger, and tolerance allowed for production units shall be used to determine RF exposure test exemption and compliance.*

### **Evaluation**

From Part 1.1307, RF exposure exemption applies if the maximum transmitted power is less than the maximum of the following three criteria:

- i) Less than 1 mw Blanket exemption.  $P_{TH} = 0.001 \text{ W}$  – §1.1307(b)(3)(i)(A)
- ii) determination of exemption under the MPE-based §1.1307(b)(3)(i)(C), if i) not met
- iii) determination of exemption under the SAR-based §1.1307(b)(3)(i)(B) if both i) and ii) are not met;

### **Conclusion**

The HMI Board G5P source-based, time-averaged power is -17.85dBm.

ie: less than 1mW (0dBm), so complies with the RF exposure blanket exemption in accordance with §1.1307(b)(3)(i)(A).