

	CE MARKING ELECTROMAGNETIC COMPATIBILITY ELECTRICAL SAFETY LASER SPECTROSCOPY ENVIRONMENTAL PHYSICS	G.S.D. S.r.l. Certified in accordance with UNI EN ISO 9001:2008 by TÜV Rheinland Italia S.r.l. Certificate N. 39 00 1850509
G.S.D. S.r.l PISA - Italy	Test Report n. 16721mpe	Rev. 01
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<div style="text-align: center;"> G.S.D. s.r.l. Via Marmiceto, 8 56121 OSPEDALETTO - PISA Tel. 050.984254 - Fax 050.984262 P. IVA 01343950505 </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> SENIOR EMC TEST MANAGER <i>Dr. Gian Luca Genovesi</i>  </div> <div style="width: 45%;"> QUALITY MANAGER <i>Dr. David Pelliccia</i>  </div> </div>		

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1. MAXIMUM PERMISSIBLE EXPOSURE
Prediction of RF Exposure were calculated accordingly to KDB 447498 D01v06
Result
Per KDB 447498 D01 v06
<p>For 100 MHz to 6 GHz and <i>test separation distances</i> ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:</p> <p>$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,₃₀ where</p> <ul style="list-style-type: none"> • $f(\text{GHz})$ 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 • The values 3.0 and 7.5 are referred to as <i>numeric thresholds</i> in step b) below <p>The test exclusions are applicable only when the minimum <i>test separation distance</i> is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum <i>test separation distance</i> is < 15 mm, a distance of 15 mm according to 4.1 f) is applied to determine SAR test exclusion.</p> <p>d (distance) = 30mm F = 0.9 GHz $\sqrt{f(\text{GHz})} = 237.5\text{mW}$ (10-g SAR test exclusion thresholds) P=207mW</p> <p>When the device transmits for RFID operation it shall be hold in the operator hand so the 10-g Extremity SAR Test Exclusion Power Thresholds can be applied. In addition the distance between fingers and antenna shall be greater than 30mm distance from buttons and antenna.</p> <p>The average time of occupancy of each RF channel is 165ms, so within 20s period the device transmits for 8.5s time duration (duty cycle = 41.3%). Since the maximum peak RF conducted power transmitted by RFID section of the device is 500mW, the time averaged transmitted power is 206.5mW. This value does not exceed the 10-g Extremity SAR Exclusion Threshold for 30mm separation distance (237.5mW @ 900MHz according to Appendix A of KDB 447498 D01)</p>
Conclusion: accordingly to KDB 447498 D01v06 exclusion threshold is 7.5, RF exposure evaluation is not required.