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## Statement of justification for compliance for RF Exposure SAR evaluation in accordance with KDB 447498 D01 v05 Section 4.3.1

EUT Raymarine a6x and a7x range of Multifunction displays

Product is a multifunction display which is dashboard mounted, therefore 10-g extremity SAR evaluation will be used for the SAR exemption evaluation.

Test Frequency 2.4 GHz  
Peak Power 52 mW  
Duty Cycle 0.333  
Average Power 18 mW

$$\frac{(\text{Max.power of channel including tune-up tolerance,mW})}{(\text{min.test deparation distance,mm})} \times (\sqrt{f(\text{GHz})}) \leq 7.5$$

Distance between screen front and antenna 18 mm SAR Evaluation between front screen and internal antenna

$$\frac{(52*0.33)}{(18)} \times (\sqrt{2.4}) = 1.5$$

Distance between base of display and antenna 5 mm SAR Evaluation between front screen and internal antenna

$$\frac{(52*0.33)}{(5)} \times (\sqrt{2.4}) = 5.3$$

The front of the display is below the 1-g SAR evaluation level, the base of the unit which would not be accessed by the user in normal operation meets the requirement for the 10-g SAR evaluation level.

Review completed by Andrew Little  
Compliance Manager  
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