# **RF EXPOSURE EVALUATION**

1. PRODUCT INFORMATION	
Product Description	Car Head Up Display
Model Name	HUD001
FCC ID	2ATZS-HUD001

## 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

The 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:

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

Where f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

## 3. CALCULATION

#### Pt=-1.302dBm=0.74mW

The value of the Maximum output power Pt is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR=(0.74mW /5mm) .[ $\sqrt{2.402GHz}$ )]= 0.23<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

FM Pt=--51.31dBm=0.000007396mW

The value of the Maximum output power Pt is referred to the test report of the CFR39

§15.239

The result for RF exposure evaluation SAR=(0.000007396mW /5mm) .[ $\sqrt{0.0881(GHz)}$ ]= 0.00000044<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

Simultaneous transmission between Bluetooth and FM transmitter:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]·[ $\sqrt{f(GHz)/x}$ ] W/kg, for test separation distances  $\leq$  50 mm; where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR. SAR=(0.23+0. 00000044)/7.5=0.031W/kg<1.6W/kg

#### 4. CONCLUSION

The SAR evaluation is not required.