RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Tablet PC
Model Name	HT1002W16
FCC ID	2AL2SHT1002

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 ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 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

According to the follow transmitter output power (P_t) formula :

WiFi
According to the report AGC09377170503FE04,
Pt=9.53dBm=8.97mW

The result for RF exposure evaluation
SAR= (8.97mW /5mm) .[√2.462(GHz)]=2.81<3.0 for 1-g SAR

BT
According to the report AGC09377170503FE03,
Pt=-4.18dBm=0.38mW

The result for RF exposure evaluation
SAR= (0.38mW /5mm) .[√2.48(GHz)]=0.12<3.0 for 1-g SAR

Simultaneous transmission between Bluetooth and WIFi transmitter
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [√ f(GHz)/x] W/kg, for test separation distances ≤ 50 mm;
where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR.

SAR=(0.12+2.81)/7.5=0.39W/kg<1.6W/kg

4. CONCLUSION

The SAR evaluation is not required.