FCC RF Exposure

EUT Description: Portable Music Player Company: IRIVER LIMITED. Model: AK100 FCC ID: QDMAK100

Frequency: 2402-2480 MHz (79 channels) Modulation: FHSS (GFSK, 8DPSK, Pi/4 DQPSK) Mid-Channel: 2.441 GHz (channel 39) Mid-Channel Peak Power, Conducted: 3.63 dBm == 2.31 mW Antenna Gain: G = 2.4 dBi

Calculation:

Limit = 60/2.441 = <u>24.58 mW</u>

 $P_{radiated, max} = P_{conducted, dBm} + G_{dBi} = 3.63 dBm + 2.4 dBi == 6.03 dBm = 4.01 mW$

Conclusion:

The emitted power appears to be (far) below the required limit, so PASS.

<u>Note 1:</u> f shall be the mid-band frequency expressed in GHz; the limit calculated with this mid-band frequency applies to all channels. For PTT with body-worn or face-held modes, d is the distance from the device case to a parson's body; for modules with antennas inside laptops, d is the distance from the antenna to the person's body.

<u>Note 2:</u> Average Power levels are always equal or below the measured Peak Power levels, which means that calculating the EIRP using the Peak power can be considered as worst case.)