INTERTEK TESTING SERVICES

Radio Frequency Radiation Exposure, FCC Rule 15.247(i):

The EUT is a Bluetooth headset.

According to the DA 00-705 and KDB 447498,

The power thresholds for source-based time-averaging conducted output power (in the worst-case duty cycle of DH5 of 8DPSK modulation type) = $5.35*(T_{on}/(T_{on}+T_{off}))$ mW

=
$$5.35^{\circ}(T_{on}/(T_{on}+T_{off}))$$
 mVV < 5.35 mW, since $(T_{on}/(T_{on}+T_{off})) < 1$

The power thresholds for source-based time-averaging radiated output power (The worst-case radiated emission is $101.7 dB\mu V/m$ at 3m in 8DPSK modulation type)

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= [(FS*D) ^2 / 30]*(T_{on}/ (T_{on}+T_{off})) mW
= 4.44*(T_{on}/ (T_{on}+T_{off})) mW
< 4.44mW, since (T_{on}/ (T_{on}+T_{off})) < 1
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And SAR Low Threshold Level:

$$60/f (GHz) = 60/2.45$$

= 24.5 mW
= 13.9 dBm

Since the source-based time-averaging conducted output power and radiated output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

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