RF Exposure

The equipment under test (EUT) is a wireless optical mouse (Dongle Unit). The EUT was powered by USB port. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.
Antenna Gain: -1dBi.
The nominal radiated output power (e.i.r.p) specified: -17dBm (+/- 3dB)
The normal conducted output power is -16 dBm (tolerance: +/- 3dB).
Modulation Type: GFSK

According to the KDB 447498:

The maximun peak radiated emission for the EUT is 76.0dBμV/m at 3m in the frequency 2409MHz
The EIRP = [(FS*D) ^2 / 30] mW = -19.2dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 75.7dBμV/m at 3m in the frequency 2476MHz
The EIRP = [(FS*D) ^2 / 30] mW = -19.5dBm
which is within the production variation.

The maximun conducted output power specified is -13dBm = 0.05mW
The source- based time-averaging conducted output power
= 0.05 * Duty Cycle mW ≤0.05mW (Duty Cycle ≤100%)

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.476) mW
= 9.53 mW

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