

1.2. Operational Description

The EUT is 2.4GHz Bluetooth Headset. With the Nokia Bluetooth Headset BH-902 you can make and receive calls while on the move and use your mobile device hands free. This Bluetooth Headset supports Bluetooth mobile phones and facilities with Bluetooth audio frequency transmission. You can use the headset with compatible devices that support Bluetooth wireless technology.

Bluetooth technology operates in the unlicensed industrial, scientific and medical (ISM) band at 2.4 to 2.485 GHz, using a spread spectrum, frequency hopping, full-duplex signal at a nominal rate of 1600 hops/sec. The 2.4 GHz ISM band is available and unlicensed in most countries

Adaptive frequency hopping (AFH) capability was designed to reduce interference between wireless technologies sharing the 2.4 GHz spectrum. AFH works within the spectrum to take advantage of the available frequency. This is done by detecting other devices in the spectrum and avoiding the frequencies they are using. This adaptive hopping allows for more efficient transmission within the spectrum, providing users with greater performance even if using other technologies along with *Bluetooth* technology. The signal hops among 79 frequencies at 1 MHz intervals to give a high degree of interference immunity