RF Exposure Compliance Requirement

The product belongs to **standalone portable device** base the FCC rule part 2.1091&2.1093. The transmission frequencies of the device are between 100 MHz and 6 GHz. The worst case test separation distance is **5mm.** The Max Conducted Output Power and SAR Test Exclusion Threshold (mW) are listed below:

Transmit frequency (GHz)	Max Conducted Output Power (dBm)	Max Conducted Output Power (mW)	SAR Test Exclusion Threshold (mW)
2.402-2.480	-12	0.06	9.5

Remark: The max conducted power is declared by applicant.

The SAR Test Exclusion Threshold is calculated from:

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

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Simultaneous transmission SAR test exclusion considerations:

KDB 447498 (D01):

When an antenna qualifies for the standalone SAR test exclusion and also transmits simultaneously with other antennas, the standalone SAR value should be estimated according to the following to determine the simultaneous transmission SAR test exclusion:

[(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.

The max. power of -12dBm as declared by client, min. test separation is 5 mm, x=7.5 for 1-g SAR:

The estimated 1-g SAR value of EUT is: 0.00265W/kg W/kg.

The EUT is Bluetooth sleeve, which was specific used on iPhone 11 (FCC ID: BCG-E3309A). According to FCC ID: BCG-E3309A Report No.: 12696946-S1V3, the highest reported 1-g SAR value is 1.524 W/kg.

The EUT estimated 1-g SAR value add iPhone 11 highest 1-g SAR value, the sum result is 1.52665 W/kg, it is lower than 1.6W/kg.

According to SAR Exclusion Threshold in KDB 447498 (D01) General RF Exposure Guidance v06, the SAR report is not required.

Test Location:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

All tests were performed at:

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China