

Analysis Report

Report No.: 22010114 HKG-001

The Equipment Under Test (EUT) is STEM Educational Toys. The EUT has Bluetooth BLE feature. It is powered by a 3.7V internal rechargeable battery.

2.4GHz Bluetooth portion:

Modulation Type: GFSK

Antenna Type: Integral, Internal

Antenna gain: 0dBi

RF conducted power range: -8dBm to +2dBm

Frequency Range: 2402MHz - 2480MHz

According to the KDB 447498:

Conducted Power = 2 dBm

= 1.58 mW

The SAR Exclusion Threshold Level:

= $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in GHz})$

= $3.0 * 5 / \text{sqrt}(2.480)$ mW

= 9.53 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.