

RF EXPOSURE ANALYSIS

<u>Product</u>	<u>FCC ID</u>	<u>IC number</u>
Bluetooth module	QOQBLE112	5123A-BGTBLE112

The product is a Bluetooth low energy single mode module to be used in a various kind of low power applications.

This evaluation cover all three models BLE112-A, BLE112-E and BLE112-N presented in the test reports 264152-7, -8 and -9. The evaluation value is the highest output power generated by the device.

It is designed to be used 20 cm distance from the persons.

Analysis for FCC

The equipment transmits in the 2402 – 2480 MHz frequency range and therefore the applicable threshold is calculated as stated in FCC document KDB 447498 by using the formula $\frac{60}{f}$ (where f is a highest frequency in used) $\frac{60}{2.48} = 24.19mW$

Output power considerations:

Max. E.I.R.P value: 4.89 dBm = 3.08 mW

(Value is taken from the test report number: 264152-8. Value contains conducted output power and antenna gain.)

Analysis for FCC

Since the Max. E.I.R.P value is below the 24.19mW product fulfils FCC requirements without further testing.

Analysis for IC

According to standard RSS-102 RF exposure analysis is required for devices operating above 1.5 GHz if the maximum E.I.R.P. of the device is 5.0 W or more. Therefore RF exposure analysis is not required for this device.

Result:

Equipment complies with the requirements of FCC and IC to RF exposure