# RF Exposure Evaluation
## FCC ID: 2ACNO-QPR-C2

## 1. Client Information

| | | |
|---|---|---|
| **Applicant** | : | I/O INTERCONNECT INC. |
| **Address** | : | 28F.-5, No.97, Sec.1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Taiwan |
| **Manufacturer** | : | Shenzhen Radioland Technology Co., Ltd |
| **Address** | : | 203, Block A1, JianYuan Park, XiXiangTown, Bao'an district, Shenzhen, China |

## 2. General Description of EUT

| | | | |
|---|---|---|---|
| **EUT Name** | : | qico Dongle | |
| **Model(s)** | : | QPR-C2, QPR-C202 | |
| **Model Difference** | : | All PCB boards and circuit diagrams are the same, the only difference is the color and appearance. | |
| **Product Description** | : | Operation Frequency: | Bluetooth 4.0(BLE): 2402MHz~2480MHz |
| | | Number of Channel: | Bluetooth 4.0(BLE): 40 channels |
| | | RF Output Power: | 5.615dBm (Max) |
| | | Antenna Gain: | 0 dBi PCB Antenna |
| | | Modulation Type: | GFSK |
| | | Bit Rate of Transmitter: | 1Mbps |
| **Power Rating** | : | Input: DC 5V | |
| **Software Version** | : | N/A | |
| **Hardware Version** | : | N/A | |
| **Connecting I/O Port(S)** | : | Please refer to the User's Manual | |
| **Remark:** The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab. | | | |

**Note:** More test information about the EUT please refer the RF Test Report.



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# SAR Test Exclusion Calculations

1. **FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.**
   **(1) Clause 4.3: General SAR test reduction and exclusion guidance**
   **Sub clause 4.31: Standalone SAR test exclusion considerations**
   **1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:**
   **[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[ $\sqrt{f_{(GHz)}}$ ] ≤3.0 for 1-g SAR**
   **[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[ $\sqrt{f_{(GHz)}}$ ] ≤7.5.0 for 10-g SAR**

## 2. Calculation:

| Test separation: 5mm | | | | | | |
|---|---|---|---|---|---|---|
| BLE Mode (1Mbps) | | | | | | |
| Frequency (GHz) | Conducted Power (dBm) | Turn-up Power Tolerance (dB) | Max power of tune up tolerance (dBm) | Max power of tune up tolerance (mw) | Calculation Value | Threshold Value |
| 2.402 | 5.615 | 6±1 | 7 | 5.012 | 1.55 | **3.0** |
| 2.442 | 4.908 | 5±1 | 6 | 3.981 | 1.23 | **3.0** |
| 2.480 | 4.287 | 4±1 | 5 | 3.162 | 1.00 | **3.0** |

**Conclusion:**

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

**-----END OF REPORT-----**