

# RF Exposure Evaluation Report

**Report No.:** 2405W56213ED

**Applicant:** G-TOUCH LLC.

**Address:** 1750 NW 107TH Avenue, STE P-411 Miami Florida United States

**Product Name:** Mobile feature phone 4G-LTE

**Product Model:** Gravity

**Multiple Models:** N/A

**Trade Mark:** GTOUCH

**FCC ID:** 2AJDZGL24A

**Standards:** 47 CFR §1.1310

KDB 447498 D01 General RF Exposure Guidance v06

**Test Date:** 2024-08-27

**Test Result:** Complied

**Report Date:** 2024-09-05

**Reviewed by:**

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## Revision History

| Version No. | Issued Date | Description |
|-------------|-------------|-------------|
| 00          | 2024-09-05  | Original    |

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# 1 General Information

## 1.1 Client Information

|               |                                                                                                       |
|---------------|-------------------------------------------------------------------------------------------------------|
| Applicant:    | G-TOUCH LLC.                                                                                          |
| Address:      | 1750 NW 107TH Avenue, STE P-411 Miami Florida United States                                           |
| Manufacturer: | G-TOUCH DEVICES LIMITED                                                                               |
| Address:      | Building 40 11C floor Wanghai RD, Rose Garden 2 Shekou Nanshan District Shenzhen City Guangdong China |

## 1.2 Product Description of EUT

The EUT is Mobile feature phone 4G-LTE that contains Classic Bluetooth, GSM/GPRS and LTE radios.

|                                |                                                                                                                                                              |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample Serial Number           | 2PCZ-1, 2PCZ-2 (assigned by WATC)                                                                                                                            |
| Sample Received Date           | 2024-08-01                                                                                                                                                   |
| Sample Status                  | Good Condition                                                                                                                                               |
| Frequency Range                | BT: 2402MHz - 2480MHz<br>GSM850: 824-849MHz(TX), 869-894MHz(RX)<br>GSM1900: 1850-1910MHz(TX), 1930-1990MHz(RX)<br>LTE Band 5: 824-849MHz(TX), 869-894MHz(RX) |
| Maximum Conducted Output Power | BT: -1.13dBm<br>GSM850: 31.72dBm<br>GSM1900: 24.58dBm<br>LTE Band 5: 20.76dBm                                                                                |
| Modulation Technology          | GFSK, $\pi/4$ DQPSK, 8DPSK, GMSK, QPSK, 16QAM                                                                                                                |
| Antenna Gain <sup>#</sup>      | BT: 0.11dBi<br>GSM 850: 0.21dBi<br>PCS 1900: 0.66dBi<br>LTE Band 5: 0.21dBi                                                                                  |
| Spatial Streams                | SISO (1X, 1X)                                                                                                                                                |
| Power Supply                   | DC 3.7V from battery or DC 5.0V from adapter                                                                                                                 |
| Adapter Information            | Input: AC100-240V, 50/60Hz, 0.15A<br>Output: DC 5.0V/500mA                                                                                                   |
| Modification                   | Sample No Modification by the test lab                                                                                                                       |

## 1.3 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

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The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

## 2 RF Exposure Evaluation

### 2.1 Standard

According to §1.1310, radio frequency devices shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

- $f(\text{GHz})$  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
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

### 2.2 Result

| Radio   | Frequency (MHz) | Maximum Conducted Power including Tune-up Tolerance |       | Min. test separation distance (mm) | Result (1-g SAR) | Exclusion Limit (1-g SAR) | Verdict       |
|---------|-----------------|-----------------------------------------------------|-------|------------------------------------|------------------|---------------------------|---------------|
|         |                 | (dBm)                                               | (mW)  |                                    |                  |                           |               |
| BT      | 2402-2480       | -1.0                                                | 0.79  | 5                                  | 0.2              | 3.0                       | Pass          |
| GSM850  | 824-849         | 22.9                                                | 195.0 | 5                                  | 35.4             | 3.0                       | Need SAR test |
| GSM1900 | 1850-1910       | 16.03                                               | 40.1  | 5                                  | 10.9             | 3.0                       | Need SAR test |
| LTE B5  | 824-849         | 21.0                                                | 125.9 | 5                                  | 22.9             | 3.0                       | Need SAR test |

*Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.*

For GSM850 Band, the worst case is GSM mode(duty cycle 1/8), the maximum time-base-average power 22.9dBm

For GSM1900 Band, the worst case is GPRS 3TX slots(duty cycle 3/8), the maximum time-base-average power 16.03dBm

For BT, it's exempt from standalone SAR test.

For GSM850, GSM1900 and LTE B5, need SAR test, please refer SAR test report: 2403W56213E-20

**Result: Complied.**

**---End of Report---**