

FCC RF EXPOSURE REPORT

FCC ID: 2AH4HBTM250

Project No. : 2107C190
Equipment : Bluetooth sensor
Brand Name : Mobilogix
Model Name : BTM250HT, BTM250T, BTM250B, BTM250E
Applicant : Mobilogix, Inc.
Address : 5500 Trabuco Rd Suite 150 Irvine, CA, USA
Manufacturer : Mobilogix, Inc.
Address : 5500 Trabuco Rd Suite 150 Irvine, CA, USA
Factory : Suga Electronics (Dongguan) Co., Ltd.
Address : No.8 Fulong Road, Qingxi Town, Dongguan City
Date of Receipt : Jul. 28, 2021
Date of Test : Jul. 30, 2021 ~ Aug. 05, 2021
Issued Date : Aug. 11, 2021
Report Version : R00
Test Sample : Engineering Sample No.: DG2021072931
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.



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Approved by : Ethan Ma



TESTING CERT #5123.02

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REPORT ISSUED HISTORY

| Report Version | Description | Issued Date |
|----------------|---|---------------|
| R00 | <p>Compared with the previous report (RSZ200407003-00) (FCC ID: 2AH4HBTM250),</p> <p>(1) Upgraded model BTM250B and BTM250T to a new PCB. The new PCB mainly updated the temperature sensor and the silkscreen had also been modified and adjusted the matching circuit at the antenna end .</p> <p>(2) Added a new model BTM250HT which has the same new PCB with model BTM250B and BTM250T.</p> <p>This report tests the differences of changes and records the worst case in the report.</p> | Aug. 11, 2021 |

1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna:

| Ant. | Brand | P/N | Antenna Type | Connector | Gain (dBi) |
|------|-------|--------|--------------|-----------|------------|
| 1 | N/A | AN3216 | Chip | N/A | 0.5 |

Note:

The antenna gain is provided by the manufacturer.

3. TEST RESULTS

| |
|------------------------|
| Tune up tolerance(dBm) |
| BT |
| 0 |

| Antenna Gain (dBi) | Antenna Gain (numeric) | Max. Peak Output Power (dBm) | Max. Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|--------------------|------------------------|------------------------------|-----------------------------|---|--|-------------|
| 0.5 | 1.1220 | 0 | 1.0000 | 0.00022 | 1 | Complies |

Note: The calculated distance is 20 cm.

Output power including tune up tolerance.

End of Test Report