

# RF EXPOSURE REPORT



Report No.: 15050015-FCC-H

Supersede Report No.: N/A

|                                                                                                                                      |                                                                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--|
| Applicant                                                                                                                            | Micron Electronics LLC.                                                |  |
| Product Name                                                                                                                         | WCDMA Tracker                                                          |  |
| Model No.                                                                                                                            | Prime one                                                              |  |
| Serial No.                                                                                                                           | N/A                                                                    |  |
| Test Standard                                                                                                                        | FCC 2.1093                                                             |  |
| Test Date                                                                                                                            | May 07 to June 04, 2015                                                |  |
| Issue Date                                                                                                                           | June 04, 2015                                                          |  |
| Test Result                                                                                                                          | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail |  |
| Equipment complied with the specification <input checked="" type="checkbox"/>                                                        |                                                                        |  |
| Equipment did not comply with the specification <input type="checkbox"/>                                                             |                                                                        |  |
| <i>Wiky.Jam</i>                                                                                                                      | <i>Chris You</i>                                                       |  |
| Wiky.Jam<br>Test Engineer                                                                                                            | Chris You<br>Checked By                                                |  |
| This test report may be reproduced in full only<br>Test result presented in this test report is applicable to the tested sample only |                                                                        |  |

Issued by:

**SIEMIC (SHENZHEN-CHINA) LABORATORIES**

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## Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

| Country/Region | Scope                              |
|----------------|------------------------------------|
| USA            | EMC, RF/Wireless, SAR, Telecom     |
| Canada         | EMC, RF/Wireless, SAR, Telecom     |
| Taiwan         | EMC, RF, Telecom, SAR, Safety      |
| Hong Kong      | RF/Wireless, SAR, Telecom          |
| Australia      | EMC, RF, Telecom, SAR, Safety      |
| Korea          | EMI, EMS, RF, SAR, Telecom, Safety |
| Japan          | EMI, RF/Wireless, SAR, Telecom     |
| Singapore      | EMC, RF, SAR, Telecom              |
| Europe         | EMC, RF, SAR, Telecom, Safety      |

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## 1. Report Revision History

| Report No.     | Report Version | Description | Issue Date    |
|----------------|----------------|-------------|---------------|
| 15050015-FCC-H | NONE           | Original    | June 04, 2015 |
|                |                |             |               |
|                |                |             |               |
|                |                |             |               |
|                |                |             |               |
|                |                |             |               |

## 2. Customer information

|                  |                                                        |
|------------------|--------------------------------------------------------|
| Applicant Name   | Micron Electronics LLC.                                |
| Applicant Add    | 1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA |
| Manufacturer     | Micron Electronics LLC.                                |
| Manufacturer Add | 1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA |

## 3. Test site information

|                      |                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES                                                                                                         |
| Lab Address          | Zone A, Floor 1, Building 2 Wan Ye Long Technology Park<br>South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong<br>China 518108 |
| FCC Test Site No.    | 718246                                                                                                                                       |
| IC Test Site No.     | 4842E-1                                                                                                                                      |
| Test Software        | Radiated Emission Program-To Shenzhen v2.0                                                                                                   |

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#### 4. Equipment under Test (EUT) Information

Description of EUT: WCDMA Tracker

| Main Model:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Serial Model: N/A

Date EUT received: May 06, 2015

Test Date(s): May 07 to June 04, 2015

|               |                          |
|---------------|--------------------------|
| Antenna Gain: | GSM850:0 dBi             |
|               | PCS1900: 1.8 dBi         |
|               | UMTS-FDD Band V: 0dBi    |
|               | UMTS-FDD Band II: 1.8dBi |
|               | Bluetooth: -1dBi         |
|               | WiFi:-1dBi               |

|                     |                                       |
|---------------------|---------------------------------------|
| Type of Modulation: | GSM / GPRS: GMSK                      |
|                     | EGPRS: GMSK, 8PSK                     |
|                     | UMTS-FDD: QPSK, 16QAM                 |
|                     | 802.11b/g/n: DSSS, OFDM               |
|                     | Bluetooth: GFSK, $\pi/4$ DQPSK, 8DPSK |

RF Operating Frequency (ies):

- GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz
- PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz
- UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz
- UMTS-FDD Band II TX: 1852.4 ~ 1907.6 MHz;  
RX: 1932.4 ~ 1987.6 MHz
- WIFI: 802.11b/g/n(20M): 2412-2472 MHz
- WIFI: 802.11n(40M): 2422-2462 MHz
- Bluetooth: 2402-2480 MHz

|                     |                          |
|---------------------|--------------------------|
|                     | GSM 850: 124CH           |
|                     | PCS1900: 299CH           |
| Number of Channels: | UMTS-FDD Band V : 102CH  |
|                     | UMTS-FDD Band II : 277CH |

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WIFI :802.11b/g/n(20M): 13CH

WIFI :802.11n(40M): 9CH

Bluetooth: 79CH

Port: USB Port

Battery:

Input Power: Spec: 3.7V 850mAh  
Charger Max Voltage:4.35V  
Input DC5V(USB Port)

Trade Name : Prime

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: ZKQ-ONE

## 5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

### 5.1 RF Exposure

#### Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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,<sup>16</sup> 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<sup>17</sup>
- The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

$$\text{result} = P\sqrt{F} / D$$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm



## 5.2 Test Result

### Bluetooth Mode:

| Modulation    | CH   | Freq (MHz) | Conducted Power (dBm) | Tune Up Power (dBm) | Max Tune Up Power (dBm) | Max Tune Up Power (mW) | Result | Limit |
|---------------|------|------------|-----------------------|---------------------|-------------------------|------------------------|--------|-------|
| GFSK          | Low  | 2402       | 5.44                  | 4.8±1               | 5.8                     | 3.80                   | 1.18   | 3     |
|               | Mid  | 2441       | 5.54                  | 4.8±1               | 5.8                     | 3.80                   | 1.19   | 3     |
|               | High | 2480       | 5.53                  | 4.8±1               | 5.8                     | 3.80                   | 1.20   | 3     |
| $\pi/4$ DQPSK | Low  | 2402       | 5.52                  | 4.8±1               | 5.8                     | 3.80                   | 1.18   | 3     |
|               | Mid  | 2441       | 5.00                  | 4.8±1               | 5.8                     | 3.80                   | 1.19   | 3     |
|               | High | 2480       | 4.39                  | 4.8±1               | 5.8                     | 3.80                   | 1.20   | 3     |
| 8-DPSK        | Low  | 2402       | 5.76                  | 4.8±1               | 5.8                     | 3.80                   | 1.18   | 3     |
|               | Mid  | 2441       | 5.39                  | 4.8±1               | 5.8                     | 3.80                   | 1.19   | 3     |
|               | High | 2480       | 4.68                  | 4.8±1               | 5.8                     | 3.80                   | 1.20   | 3     |

### WIFI Mode:

| Modulation    | CH   | Freq (MHz) | Conducted Power (dBm) | Tune Up Power (dBm) | Max Tune Up Power (dBm) | Max Tune Up Power (mW) | Result | Limit |
|---------------|------|------------|-----------------------|---------------------|-------------------------|------------------------|--------|-------|
| 802.11b       | Low  | 2412       | 9.24                  | 8.5±1               | 9.5                     | 8.913                  | 2.77   | 3     |
|               | Mid  | 2442       | 8.76                  | 8.5±1               | 9.5                     | 8.913                  | 2.78   | 3     |
|               | High | 2472       | 9.22                  | 8.5±1               | 9.5                     | 8.913                  | 2.80   | 3     |
| 802.11g       | Low  | 2412       | 9.35                  | 8.5±1               | 9.5                     | 8.913                  | 2.77   | 3     |
|               | Mid  | 2442       | 9.35                  | 8.5±1               | 9.5                     | 8.913                  | 2.78   | 3     |
|               | High | 2472       | 9.22                  | 8.5±1               | 9.5                     | 8.913                  | 2.80   | 3     |
| 802.11n (20M) | Low  | 2412       | 8.58                  | 8.5±1               | 9.5                     | 8.913                  | 2.77   | 3     |
|               | Mid  | 2442       | 8.91                  | 8.5±1               | 9.5                     | 8.913                  | 2.78   | 3     |
|               | High | 2472       | 9.18                  | 8.5±1               | 9.5                     | 8.913                  | 2.80   | 3     |
| 802.11n (40M) | Low  | 2422       | 8.61                  | 8.5±1               | 9.5                     | 8.913                  | 2.77   | 3     |
|               | Mid  | 2447       | 8.85                  | 8.5±1               | 9.5                     | 8.913                  | 2.78   | 3     |
|               | High | 2462       | 9.00                  | 8.5±1               | 9.5                     | 8.913                  | 2.79   | 3     |

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**Result:** Compliance

No SAR measurement is required.