

# Maximum Permissible Exposure Evaluation

## FCC ID:2BAOD-1420

### 1. Client Information

|                     |   |                                                                         |
|---------------------|---|-------------------------------------------------------------------------|
| <b>Applicant</b>    | : | AirSuite Limited                                                        |
| <b>Address</b>      | : | 3 Melody Lane, Hamilton East, Hamilton 3216 New Zealand                 |
| <b>Manufacturer</b> | : | SHENZHEN FENDA SMART TECHNOLOGY LIMITED                                 |
| <b>Address</b>      | : | Fenda Hi-Tech Park, Zhoushi Road, Shiyan Baoan, Shenzhen, China. 518108 |

### 2. General Description of EUT

|                                                                                                                                                |   |                                                  |                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------|--------------------------------------------------------------------------|
| EUT Name                                                                                                                                       | : | AirSuite Glance LTE                              |                                                                          |
| Model(s) No.                                                                                                                                   | : | ASCM1420                                         |                                                                          |
| Model Difference                                                                                                                               | : | ----                                             |                                                                          |
| Product Description                                                                                                                            | : | Operation Frequency:                             | Bluetooth (BLE) V5.2:2402MHz~2480MHz<br>LTE Band 2/4/5/12/13/17/25/26/66 |
| Power Supply                                                                                                                                   | : | Input: DC 5V<br>DC 3.6V by 10.8Ah Li-ion battery |                                                                          |
| Software Version                                                                                                                               | : | 1.0.0                                            |                                                                          |
| Hardware Version                                                                                                                               | : | S010C                                            |                                                                          |
| 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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## MPE Calculations for WIFI

### 1. Antenna Gain:

BLE Ceramic Antenna: -0.65dBi.

LTE Ceramic Antenna: 2.4dBi

### 2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

### 3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=(PG)/4\pi R^2$$

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

#### 4. Test Result:

| Mode              | N <sub>TX</sub> | Conducted Power(max)<br>(dBm) | Turn-up Power<br>(dB) | Max tune up power<br>(dBm)<br>[P] | ANT Gain<br>(dBi)<br>[G] | Distance<br>(cm)<br>[R] | Power Density<br>(mW/ cm <sup>2</sup> )<br>[S] | limit<br>(mW/cm2) |
|-------------------|-----------------|-------------------------------|-----------------------|-----------------------------------|--------------------------|-------------------------|------------------------------------------------|-------------------|
| BLE (1Mbps)       | 1               | 4.309                         | 4±1                   | 5                                 | -0.65                    | 20                      | 0.0005                                         | 1                 |
|                   | 1               | 4.4                           | 4±1                   | 5                                 | -0.65                    | 20                      | 0.0005                                         | 1                 |
|                   | 1               | 4.447                         | 4±1                   | 5                                 | -0.65                    | 20                      | 0.0005                                         | 1                 |
| BLE (2Mbps)1      | 1               | 4.311                         | 4±1                   | 5                                 | -0.65                    | 20                      | 0.0005                                         | 1                 |
|                   | 1               | 4.392                         | 4±1                   | 5                                 | -0.65                    | 20                      | 0.0005                                         | 1                 |
|                   | 1               | 4.461                         | 4±1                   | 5                                 | -0.65                    | 20                      | 0.0005                                         | 1                 |
| LTE Band 2 (M1)   | 1               | 23.88                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 1                 |
| LTE Band 4 (M1)   | 1               | 24.00                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 1                 |
| LTE Band 5 (M1)   | 1               | 23.85                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 0.55              |
| LTE Band 12 (M1)  | 1               | 23.90                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 0.47              |
| LTE Band 13 (M1)  | 1               | 23.87                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 0.52              |
| LTE Band 25 (M1)  | 1               | 23.80                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 1                 |
| LTE Band 26A (M1) | 1               | 23.89                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 0.54              |
| LTE Band 26B (M1) | 1               | 23.92                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 0.54              |
| LTE Band 66 (M1)  | 1               | 23.91                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 1                 |
| LTE Band 2 (NB)   | 1               | 23.77                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 1                 |
| LTE Band 4 (NB)   | 1               | 23.83                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 1                 |
| LTE Band 5 (NB)   | 1               | 23.62                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 0.55              |
| LTE Band 12 (NB)  | 1               | 23.81                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 0.47              |
| LTE Band 13 (NB)  | 1               | 23.69                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 0.52              |
| LTE Band 17 (NB)  | 1               | 23.78                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 0.47              |
| LTE Band 25 (NB)  | 1               | 23.72                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 1                 |
| LTE Band 26A (NB) | 1               | 23.61                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 0.54              |
| LTE Band 26B (NB) | 1               | 23.67                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 0.54              |
| LTE Band 66 (NB)  | 1               | 23.74                         | 24±1                  | 25                                | 2.4                      | 20                      | 0.1093                                         | 1                 |

Note: RF Output power specifies that Maximum Conducted Peak Output Power.

## 5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

### Limits for General Population/ Uncontrolled Exposure

| Frequency Range (MHz) | Power density (mW/ cm <sup>2</sup> ) |
|-----------------------|--------------------------------------|
| 300-1,500             | F/1500                               |
| 1,500-100,000         | 1.0                                  |

For BLE&LTE

MPE limit S: 1mW/ cm<sup>2</sup>

MPE limit S: 1mW/ cm<sup>2</sup>

## 6. Summary simultaneous transmission results

LTE and Bluetooth support simultaneous transmit the

| LTE-M1<br>MPE (Ratio) | LTE-NB<br>MPE (Ratio) | BLE<br>MPE (Ratio) | simultaneous<br>MPE<br>(Ratio) | MPE Limits<br>(Ratio) |
|-----------------------|-----------------------|--------------------|--------------------------------|-----------------------|
| 0.1093                | 0.1093                | 0.0005             | 0.2191                         | 1.0000                |

So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b). The RF Exposure Information page from the manual is included here for reference.

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