



## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000342407

Page: 1 of 14

# TEST REPORT

**Application No.:** SZCR2310003424AT  
**Applicant:** Baicells Technologies Co., Ltd.  
**Address of Applicant:** 9-10F,1stBldg.,No.81BeiqingRoad,Haidian District,Beijing,China  
**Manufacturer:** Baicells Technologies Co., Ltd.  
**Address of Manufacturer:** 9-10F,1stBldg.,No.81BeiqingRoad,Haidian District,Beijing,China  
**Equipment Under Test (EUT):**  
**EUT Name:** 5G Indoor CPE  
**Model No.:** EG3661M-NR6  
**Trade Mark:** Baicells  
**FCC ID:** 2AG32EG3661MNR6  
**Standard(s) :** 47 CFR Part 1.1307  
47 CFR Part 1.1310  
FCC Rules 47 CFR §2.1091  
KDB 447498 D04 interim General RF Exposure Guidance v01  
**Date of Receipt:** 2023-10-25  
**Date of Evaluation:** 2024-07-02  
**Date of Issue:** 2024-07-04

|                           |              |
|---------------------------|--------------|
| <b>Evaluation Result:</b> | <b>Pass*</b> |
|---------------------------|--------------|

\* In the configuration evaluated, the EUT complied with the standards specified above.

Keny Xu

Keny Xu  
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch EMC Laboratory

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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2024-07-04 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |                              |  |  |
|--------------------------|--|------------------------------|--|--|
| Authorized for issue by: |  |                              |  |  |
|                          |  | Frank Chen                   |  |  |
|                          |  | Frank Chen /Project Engineer |  |  |
|                          |  | Eric Fu                      |  |  |
|                          |  | Eric Fu/Reviewer             |  |  |

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## 3 General Information

### 3.1 General Description of E.U.T.

|               |                                                   |
|---------------|---------------------------------------------------|
| Product Type: | <input type="checkbox"/> Portable device          |
|               | <input checked="" type="checkbox"/> Mobile device |
|               | <input type="checkbox"/> Fixed device             |

### 3.2 Details of E.U.T.

|                   |                                                                                                                |                  |                  |
|-------------------|----------------------------------------------------------------------------------------------------------------|------------------|------------------|
| Power supply:     | AC/DC ADAPTOR<br>Model: DCT36W120300US-A2<br>Input Power: AC 100-240V~, 50/60Hz 1.0A MAX;<br>DC Output: 12V 3A |                  |                  |
| Cable(s):         | DC cable:150cm unshielded                                                                                      |                  |                  |
| Hardware Version: | VER.B                                                                                                          |                  |                  |
| Software Version: | BaiCE_BQ6_2.0.5.3_NA                                                                                           |                  |                  |
| Antenna Type:     | <input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated                              |                  |                  |
| Frequency Bands:  | Band                                                                                                           | TX               | RX               |
|                   | LTE Band 2                                                                                                     | 1850 to 1910 MHz | 1930 to 1990 MHz |
|                   | LTE Band 4                                                                                                     | 1710 to 1755 MHz | 2110 to 2155 MHz |
|                   | LTE Band 5                                                                                                     | 824 to 849 MHz   | 869 to 894 MHz   |
|                   | LTE Band 12                                                                                                    | 699 to 716 MHz   | 729 to 746 MHz   |
|                   | LTE Band 13                                                                                                    | 777 to 787 MHz   | 746 to 756 MHz   |
|                   | LTE Band 25                                                                                                    | 1850 to 1915MHz  | 1930 to 1995 MHz |
|                   | LTE Band 41                                                                                                    | 2496 to 2690MHz  | 2496 to 2690MHz  |
|                   | LTE Band 48                                                                                                    | 3550 to 3700 MHz | 3550 to 3700 MHz |
|                   | LTE Band 66                                                                                                    | 1710 to 1780 MHz | 2110 to 2180 MHz |
|                   | LTE Band 71                                                                                                    | 663 to 698 MHz   | 617 to 652 MHz   |
|                   | NR Band n2                                                                                                     | 1850 to 1910 MHz | 1930 to 1990 MHz |
|                   | NR Band n5                                                                                                     | 824 to 849 MHz   | 869 to 894 MHz   |
|                   | NR Band n12                                                                                                    | 699 to 716 MHz   | 729 to 746 MHz   |
|                   | NR Band n25                                                                                                    | 1850 to 1915MHz  | 1930 to 1995 MHz |
|                   | NR Band n41                                                                                                    | 2496 to 2690 MHz | 2496 to 2690 MHz |
|                   | NR Band n48                                                                                                    | 3550 to 3700 MHz | 3550 to 3700 MHz |
|                   | NR Band n66                                                                                                    | 1710 to 1780 MHz | 2110 to 2180 MHz |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                        |                                |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NR Band n71                                            | 663 to 698 MHz                 | 617 to 652 MHz             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NR Band n77                                            | 3700 to 3980 MHz               | 3700 to 3980 MHz           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                        | 3450 to 3550 MHz               | 3450 to 3550 MHz           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | GNSS (BDS+ Galileo+ GLONASS+ GPS+ SBAS)                | N/A                            | 1559-1610                  |
| CA:<br>UL CA_2A-4A; UL CA_2A-5A; UL CA_2A-12A; UL CA_2A-13A; UL CA_2A-66A;<br>UL CA_4A-12A; UL CA_4A-13A; UL CA_5A-66A; UL CA_12A-66A; UL CA_13A-66A;<br>UL CA_2C; UL CA_5B; UL CA_41C; UL CA_48C; UL CA_66B;<br>ENDC:<br>DC_5A_n2A; DC_2A_n5A; DC_66A_n5A; DC_2A_n12A; DC_66A_n12A;<br>DC_2A_n66A; DC_5A_n66A; DC_12A_n66A; DC_12A_n2A; DC_66A_n2A;<br>DC_71A_n2A; DC_12A_n41A; DC_71A_n66A; DC_2A_n71A; DC_66A_n71A;<br>DC_66A_n25A; DC_25A_n41A; DC_12A_n77A; DC_2A_n41A; DC_12A_n25A;<br>DC_25A_n77A; DC_2A_n77A; DC_5A_n41A; DC_66A_n41A; DC_41A_n77A;<br>DC_71A_n41A; DC_5A_n77A; DC_66A_n77A; DC_71A_n77A; DC_71A_n25A;<br>DC_5A_n25A;<br>NR UL CA:<br>n25A-n41A; n41A-n66A; n41A-n71A; n2A-n77A; n5A-n77A; n66A-n77A<br>n71A-n77A; n25A-n77A |                                                        |                                |                            |
| Antenna Gain*:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> Provided by client |                                |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LTE Band 2:                                            | 4.08dBi(Ant0)                  | LTE Band 4: 2.99dBi(Ant0)  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LTE Band 5:                                            | 2.12dBi(Ant0)                  | LTE Band 12: 4.25dBi(Ant0) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LTE Band 13:                                           | 2.95dBi(Ant0)                  | LTE Band 25: 4.08dBi(Ant0) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LTE Band 41:                                           | 7.74dBi(Ant0)                  | LTE Band 48: 4.23dBi(Ant0) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LTE Band 66:                                           | 2.99dBi(Ant0)                  | LTE Band 71: 4.25dBi(Ant0) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NR Band 2:                                             | 4.08dBi(Ant0)                  | NR Band 5: 2.12dBi(Ant0)   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NR Band 12:                                            | 4.25dBi(Ant0)                  | NR Band 25: 4.08dBi(Ant0)  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NR Band 41 MIMO:                                       | 7.74dBi(Ant0)<br>7.74dBi(Ant2) | NR Band 48: 4.23dBi(Ant0)  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NR Band 66:                                            | 2.99dBi(Ant0)                  | NR Band 71: 4.25dBi(Ant0)  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NR Band 77:                                            | 4.75dBi(Ant0)                  | / /                        |
| RF Cable:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.8dB(Below 1GHz)                                      |                                | 1.0dB(1.0~2.4GHz)          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.2dB(2.4~3.4GHz)                                      |                                | 1.5dB(Above 3.4GHz)        |

Note: \*Since the above data and/or information is provided by the client relevant results or conclusions of this



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## 3.3 Separation Distance

|                                   |       |
|-----------------------------------|-------|
| Minimum test separation distance: | >30cm |
|-----------------------------------|-------|

|                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 3.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

## 3.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

### • VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

### • FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

## 3.6 Deviation from Standards

None

## 3.7 Abnormalities from Standard Conditions

None



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## 4 FCC Radiofrequency radiation exposure limits

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

### 4.1 Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of §1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

The 1-mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph §1.1307(b)(3)(ii)(A).

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

### 4.2 MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

**Table B.1—Thresholds For Single RF Sources Subject to Routine Environmental Evaluation**

| RF Source Frequency |   |           | Minimum Distance   |   |                    | Threshold ERP                        |
|---------------------|---|-----------|--------------------|---|--------------------|--------------------------------------|
| $f_L$ MHz           |   | $f_H$ MHz | $\lambda_L / 2\pi$ |   | $\lambda_H / 2\pi$ | W                                    |
| 0.3                 | — | 1.34      | 159 m              | — | 35.6 m             | 1,920 R <sup>2</sup>                 |
| 1.34                | — | 30        | 35.6 m             | — | 1.6 m              | 3,450 R <sup>2</sup> /f <sup>2</sup> |
| 30                  | — | 300       | 1.6 m              | — | 159 mm             | 3.83 R <sup>2</sup>                  |
| 300                 | — | 1,500     | 159 mm             | — | 31.8 mm            | 0.0128 R <sup>2</sup> f              |
| 1,500               | — | 100,000   | 31.8 mm            | — | 0.5 mm             | 19.2R <sup>2</sup>                   |

Subscripts L and H are low and high;  $\lambda$  is wavelength.  
 From §1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.

The table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least  $\lambda/2\pi$ . The thresholds are

based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.

For mobile devices that are not exempt per Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in §1.1310 is necessary if the ERP of the device is greater than  $ERP_{20cm}$  in Formula (B.1) [repeated from §2.1091(c)(1); also in §1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

| Limit calculation |                |                      |                  |
|-------------------|----------------|----------------------|------------------|
| Frequency range   | Frequency(MHz) | $R(\lambda/2\pi)(m)$ | Threshold ERP(W) |
| 300~1500MHz       | <b>915</b>     | 0.0522               | 0.032            |
| 1500~100000MHz    | <b>2480</b>    | 0.0193               | 0.007            |

## 4.3 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of  $\lambda/4$ .

As for devices with antennas of length greater than  $\lambda/4$  where the gain is not well defined, but always less than that of a half-wave dipole (length  $\lambda/2$ ), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.



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The SAR-based exemption formula of §1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold  $P_{th}$  (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and  $f$  is in GHz,  $d$  is the separation distance (cm), and  $ERP_{20 \text{ cm}}$  is per Formula (B.1).



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Example values shown in Table B.2 are for illustration only.

**Table B.2—Example Power Thresholds (mW)**

| Frequency<br>(MHz) | Distance(mm) |    |    |     |     |     |     |     |     |     |
|--------------------|--------------|----|----|-----|-----|-----|-----|-----|-----|-----|
|                    | 5            | 10 | 15 | 20  | 25  | 30  | 35  | 40  | 45  | 50  |
| 300                | 39           | 65 | 88 | 110 | 129 | 148 | 166 | 184 | 201 | 217 |
| 450                | 22           | 44 | 67 | 89  | 112 | 135 | 158 | 180 | 203 | 226 |
| 835                | 9            | 25 | 44 | 66  | 90  | 116 | 145 | 175 | 207 | 240 |
| 1900               | 3            | 12 | 26 | 44  | 66  | 92  | 122 | 157 | 195 | 236 |
| 2450               | 3            | 10 | 22 | 38  | 59  | 83  | 111 | 143 | 179 | 219 |
| 3600               | 2            | 8  | 18 | 32  | 49  | 71  | 96  | 125 | 158 | 195 |
| 5800               | 1            | 6  | 14 | 25  | 40  | 58  | 80  | 106 | 136 | 169 |

| Limit calculation    |                |       |              |              |
|----------------------|----------------|-------|--------------|--------------|
| Frequency range(GHz) | Frequency(GHz) | X     | Distance(cm) | Pth (mW)     |
| 0.3~1.5              | <b>0.915</b>   | 1.474 | <b>0.5</b>   | <b>8.133</b> |
| 1.5~6                | <b>2.48</b>    | 1.905 | <b>0.5</b>   | <b>2.717</b> |

2. According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

**TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)**

| Frequency range<br>(MHz)                                       | Electric field<br>strength<br>(V/m) | Magnetic field<br>strength<br>(A/m) | Power density<br>(mW/cm <sup>2</sup> ) | Averaging time<br>(minutes) |
|----------------------------------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|-----------------------------|
| <b>(A) Limits for Occupational/Controlled Exposures</b>        |                                     |                                     |                                        |                             |
| 0.3–3.0 .....                                                  | 614                                 | 1.63                                | *(100)                                 | 6                           |
| 3.0–30 .....                                                   | 1842/f                              | 4.89/f                              | *(900/f <sup>2</sup> )                 | 6                           |
| 30–300 .....                                                   | 61.4                                | 0.163                               | 1.0                                    | 6                           |
| 300–1500 .....                                                 | .....                               | .....                               | f/300                                  | 6                           |
| 1500–100,000 .....                                             | .....                               | .....                               | 5                                      | 6                           |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                                     |                                     |                                        |                             |
| 0.3–1.34 .....                                                 | 614                                 | 1.63                                | *(100)                                 | 30                          |
| 1.34–30 .....                                                  | 824/f                               | 2.19/f                              | *(180/f <sup>2</sup> )                 | 30                          |
| 30–300 .....                                                   | 27.5                                | 0.073                               | 0.2                                    | 30                          |
| 300–1500 .....                                                 | .....                               | .....                               | f/1500                                 | 30                          |
| 1500–100,000 .....                                             | .....                               | .....                               | 1.0                                    | 30                          |

F= Frequency in MHz

Friis Formula



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Friis transmission formula:  $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

$R$  = distance between observation point and center of the radiator in cm

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance  $r$  where the MPE limit is reached.



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## 5 Measurement and Calculation

Output Power Into Antenna & RF Exposure Evaluation Distance(30cm):

For WiFi:

| Operating Band | Frequency (MHz) | Gain (dBi) | Max Conducted Average Output Power (dBm) (including tune up) | Maximum EIRP [dBm] (including tune up) | Power Density At R=30 cm (m w/cm <sup>2</sup> ) | Limit (m w/cm <sup>2</sup> ) | Ratio |
|----------------|-----------------|------------|--------------------------------------------------------------|----------------------------------------|-------------------------------------------------|------------------------------|-------|
| 2.4G WiFi      | 2412            | 5.46       | 11+2+3.01=16.01                                              | 21.47                                  | 0.0124                                          | 1.0000                       | 0.012 |
| 5G WiFi        | 5180            | 4.96       | 22+2+3.01=27.01                                              | 31.97                                  | 0.1392                                          | 1.0000                       | 0.139 |
| 6G WiFi        | 6115            | 4.96       | 9.5+2+3.01=14.51                                             | 19.47                                  | 0.0078                                          | 1.0000                       | 0.008 |

For LTE/NR:

| Operating Band     | Frequency (MHz) | Gain (dBi) | Max Conducted Average Output Power (dBm) (including tune up) | Maximum EIRP/ERP [dBm] (including tune up) | Power Density at R=30 cm (m w/cm <sup>2</sup> ) | Limit (m w/cm <sup>2</sup> ) | Ratio |
|--------------------|-----------------|------------|--------------------------------------------------------------|--------------------------------------------|-------------------------------------------------|------------------------------|-------|
| LTE B2/CA_2C/n2    | 1880            | 4.08       | 25                                                           | 29.08                                      | 0.0715                                          | 1.0000                       | 0.072 |
| LTE B4             | 1710.7          | 2.99       | 25                                                           | 27.99                                      | 0.0557                                          | 1.0000                       | 0.056 |
| LTE B5/CA 5B/n5    | 824.7           | 2.12       | 25                                                           | 27.12                                      | 0.0456                                          | 0.5498                       | 0.083 |
| LTE B12/n12        | 699.7           | 4.25       | 25                                                           | 29.25                                      | 0.0744                                          | 0.4665                       | 0.159 |
| LTE B13            | 779.5           | 2.95       | 25                                                           | 27.95                                      | 0.0552                                          | 0.5197                       | 0.106 |
| LTE B25/n25        | 1850.7          | 4.08       | 25                                                           | 29.08                                      | 0.0715                                          | 1.0000                       | 0.072 |
| LTE B41/CA 41C/n41 | 2498.5          | 7.74       | 25                                                           | 32.74                                      | 0.1662                                          | 1.0000                       | 0.166 |
| LTE B48/n48/CA 48C | 3550            | 4.23       | 28.01                                                        | 32.24                                      | 0.1481                                          | 1.0000                       | 0.148 |
| LTE B66/n66        | 1710.7          | 2.99       | 25                                                           | 27.99                                      | 0.0557                                          | 1.0000                       | 0.056 |
| LTE B71/n71        | 665.5           | 4.25       | 29.01                                                        | 33.26                                      | 0.1873                                          | 0.4437                       | 0.422 |
| NR Band n77        | 3455.01         | 4.75       | 24.01                                                        | 28.76                                      | 0.0665                                          | 1.0000                       | 0.066 |

Due to the EUT support WiFi , NR ENDC and CA

WiFi+ LTE + NR/LTE band can transmit simultaneously, the formula of the calculated the MPE is:

$$\sum_{i=1}^n \frac{S_{E_i}(\text{duty factor})}{MPE_{E_i}} < 1$$



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NOTE The corresponding MEs must be expressed in terms of power density in the above summation

Therefore, the worst-case(5G WiFi + CA) situation is  $0.139+0.422+0.422=0.983$ , which is less than "1", this confirmed that the device comply with MPE limit.

--End of the Report--



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