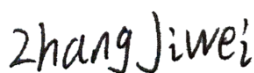


# TEST REPORT

**Applicant:** Franklin Technology  
**Address:** #906 JEI Platz, 186, Gasan digital1-ro,  
Geumcheon-gu, Seoul 08502 Korea  
**Equipment Type:** Mobile Hotspot  
**Model Name:** RG3102  
**Brand Name:** N/A  
**FCC ID:** XHG-RG3102  
**Test Standard:** FCC 47 CFR Part 2.1093  
(refer to section 3.1)  
**Maximum PD:** 6.92 W/m<sup>2</sup>  
**Sample Arrival Date:** Sep. 06, 2024  
**Test Date:** Nov. 22, 2024 - Nov. 24, 2024  
**Date of Issue:** Jan. 22, 2025

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Zhang Jiwei**Checked by:** Xu Rui**Approved by:** Tolan Tu  
(Testing Director)

## Revision History

| Version        | Issue Date           | Revisions Content                                              |
|----------------|----------------------|----------------------------------------------------------------|
| <u>Rev. 01</u> | <u>Jan. 06, 2025</u> | <u>Initial Issue</u>                                           |
| <u>Rev. 02</u> | <u>Jan. 22, 2025</u> | <u>Updated Section 11 Device Thermometer Calibration Dates</u> |

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## 1 GENERAL INFORMATION

### 1.1 Test Laboratory

|              |                                                                                                                              |
|--------------|------------------------------------------------------------------------------------------------------------------------------|
| Name         | Shenzhen BALUN Technology Co., Ltd.                                                                                          |
| Address      | Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Phone Number | +86 755 6685 0100                                                                                                            |

### 1.2 Test Location

|                           |                                                                                                                                                                                                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name                      | Shenzhen BALUN Technology Co., Ltd.                                                                                                                                                                                                |
| Location                  | <input type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China                                                                              |
|                           | <input checked="" type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Accreditation Certificate | The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.                                                                                                   |

### 1.3 Test Environment Condition

|                           |              |
|---------------------------|--------------|
| Ambient Temperature       | 18°C to 25°C |
| Ambient Relative Humidity | 30% to 70%   |

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| Applicant | Franklin Technology                                                        |
| Address   | #906 JEI Platz, 186, Gasan digital1-ro, Geumcheon-gu, Seoul 08502<br>Korea |

### 2.2 Manufacturer Information

|              |                                                                            |
|--------------|----------------------------------------------------------------------------|
| Manufacturer | Franklin Technology                                                        |
| Address      | #906 JEI Platz, 186, Gasan digital1-ro, Geumcheon-gu, Seoul 08502<br>Korea |

### 2.3 General Description for Equipment under Test (EUT)

|                                           |                         |
|-------------------------------------------|-------------------------|
| EUT Name                                  | Mobile Hotspot          |
| Under Test Model Name                     | RG3102                  |
| Series Model Name                         | N/A                     |
| Description of Model name differentiation | N/A                     |
| Hardware Version                          | P1                      |
| Software Version                          | RG3102.AT.1298          |
| Dimensions (Approx.)                      | L:133mm W:85mm H:25.3mm |
| Weight (Approx.)                          | N/A                     |

### 2.4 Ancillary Equipment

|                       |                 |                                                |
|-----------------------|-----------------|------------------------------------------------|
| Ancillary Equipment 1 | Battery         |                                                |
|                       | Brand Name      | N/A                                            |
|                       | Model No.       | I0722A                                         |
|                       | Serial No.      | N/A                                            |
|                       | Capacity        | 5000 mAh                                       |
|                       | Nominal Voltage | 3.8 V                                          |
|                       | Manufacturer    | Guangdong Highpower New Energy Technology Inc. |
| Ancillary Equipment 2 | Battery         |                                                |
|                       | Brand Name      | N/A                                            |
|                       | Model No.       | BP2451                                         |
|                       | Serial No.      | N/A                                            |
|                       | Capacity        | 5000 mAh                                       |
|                       | Nominal Voltage | 3.8 V                                          |
|                       | Manufacturer    | Zhongshan Tianmao Battery Co., Ltd             |

## 2.5 Technical Information

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network and Wireless connectivity | <p>3G Network WCDMA/HSDPA/HSUPA Band 1/2/4/5/8</p> <p>4G Network</p> <p>FDD LTE Band 1/2/3/4/5/7/8/12/14/20/26/28/29/30/66</p> <p>TDD LTE Band 38/39/40/41/48</p> <p>LTE CA with 2 carriers:CA_4A-29A, CA_2A-5A, CA_4A-5A, CA_2A-12A</p> <p>CA_2A-29A, CA_4A-12A, CA_12A-30A, CA_2A-30A, CA_4A-30A</p> <p>CA_2A-48A, CA_5A-30A, CA_29A-30A, CA_5A-66A, CA_12A-66A</p> <p>CA_2A-66A, CA_30A-66A, CA_66A-66A, CA_29A-66A, CA_2A-14A</p> <p>CA_14A-66A, CA_14A-30A</p> <p>LTE CA with 3 carriers:CA_2A-14A-30A, CA_2A-14A-66A</p> <p>CA_2A-2A-14A, CA_14A-30A-66A, CA_14A-66A-66A, CA_2A-12A-66A</p> <p>CA_2A-5A-66A, CA_12A-30A-66A, CA_5A-30A-66A, CA_12A-66A-66A</p> <p>CA_5A-66A-66A, CA_2A-2A-66A, CA_2A-66A-66A, CA_30A-66A-66A</p> <p>CA_2A-30A-66A, CA_2A-66A-71A, CA_2A-12A-30A, CA_4A-12A-30A</p> <p>CA_2A-5A-30A, CA_4A-4A-12A, CA_2A-2A-12A, CA_2A-4A-5A</p> <p>CA_4A-5A-30A, CA_2A-29A-30A, CA_4A-29A-30A</p> <p>LTE CA with 4 carriers:CA_2A-2A-12A-30A, CA_12A-30A-66A-66A</p> <p>CA_2A-12A-66A-66A, CA_2A-5A-66A-66A, CA_5A-30A-66A-66A</p> <p>CA_2A-2A-12A-66A, CA_2A-2A-5A-30A, CA_2A-2A-5A-66A</p> <p>CA_2A-2A-66A-66A, CA_2A-2A-30A-66A, CA_2A-30A-66A-66A</p> <p>CA_2A-2A-29A-30A, CA_29A-30A-66A-66A, CA_2A-2A-14A-66A</p> <p>CA_14A-30A-66A-66A, CA_2A-14A-66A-66A</p> <p>LTE CA with 5 carriers:CA_2A-2A-14A-66A-66A</p> <p>CA_2A-2A-12A-66A-66A, CA_2A-2A-5A-66A-66A</p> <p>CA_2A-2A-29A-66A-66A, CA_2A-5A-12A-30A-66A</p> <p>LTE CA 2UL:CA_2A-12A, CA_4A-12A, CA_12A-66A, CA_2A-5A</p> <p>CA_5A-66A, CA_12A-30A, CA_5A-30A, CA_2A-14A, CA_14A-66A</p> <p>CA_14A-30A</p> <p>5G Network</p> <p>SA: NR n2/n5/n14/n30/n48/n66/n77</p> <p>SA UL MIMO: n77</p> <p>1DL+FR1:DC_14A_n66A,DC_2A_n5A, DC_30A_n5A, DC_66A_n5A</p> <p>DC_2A_n66A, DC_12A_n66A, DC_30A_n66A, DC_5A_n2A</p> |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>DC_12A_n2A, DC_30A_n2A, DC_66A_n2A, DC_2A_n77A<br/> DC_5A_n77A, DC_66A_n77A, DC_30A_n77A, DC_12A_n77A<br/> DC_14A_n77A, DC_2A_n77(2A), DC_5A_n77(2A),<br/> DC_66A_n77(2A)<br/> DC_12A_n77(2A), DC_14A_n77(2A), DC_30A_n77(2A),<br/> DC_14A_n66A<br/> DC_14A_n2A</p> <p>2DL +FR1:DC_2A-2A_n5A, DC_2A-5A_n5A, DC_5A-66A_n5A<br/> DC_2A-30A_n5A, DC_2A-66A_n5A, DC_30A-66A_n5A<br/> DC_66A-66A_n5A, DC_2A-12A_n66A, DC_2A-29A_n66A<br/> DC_2A-30A_n66A, DC_2A-2A_n66A, DC_12A-30A_n66A<br/> DC_5A-30A_n2A, DC_12A-30A_n2A, DC_29A-30A_n2A<br/> DC_5A-66A_n2A, DC_12A-66A_n2A, DC_29A-66A_n2A<br/> DC_30A-66A_n2A, DC_2A-5A_n2A, DC_2A-12A_n2A<br/> DC_2A-30A_n2A, DC_2A-66A_n2A, DC_29A-30A_n66A<br/> DC_2A-66A_n66A, DC_12A-66A_n66A, DC_30A-66A_n66A<br/> DC_2A-12A_n77A, DC_12A-66A_n77A, DC_12A-30A_n77A<br/> DC_2A-14A_n77A, DC_14A-66A_n77A, DC_14A-30A_n77A<br/> DC_2A-2A_n77A, DC_2A-5A_n77A, DC_2A-29A_n77A<br/> DC_2A-30A_n77A, DC_2A-66A_n77A, DC_5A-30A_n77A<br/> DC_2A-14A_n66A, DC_5A-66A_n77A, DC_29A-30A_n77A<br/> DC_29A-66A_n77A, DC_30A-66A_n77A, DC_66A-66A_n77A<br/> DC_14A-30A_n66A, DC_14A-66A_n66A, DC_2A-2A_n77(2A)<br/> DC_14A-30A_n2A, DC_14A-66A_n2A, DC_66A-66A_n77(2A)<br/> DC_2A-14A_n2A, DC_2A-14A_n66A, DC_14A-30A_n2A<br/> DC_14A-30A_n66A, DC_14A-66A_n66A, DC_14A-66A_n2A</p> <p>3DL +FR1:DC_2A-2A-30A_n5A, DC_2A-2A-66A_n5A<br/> DC_2A-66A-66A_n5A, DC_30A-66A-66A_n5A, DC_2A-2A-5A_n5A<br/> DC_5A-66A-66A_n5A, DC_2A-2A-30A_n66A, DC_2A-2A-12A_n66A<br/> DC_5A-66A-66A_n2A, DC_12A-66A-66A_n2A, DC_29A-66A-<br/> 66A_n2A<br/> DC_30A-66A-66A_n2A, DC_2A-2A-14A_n77A,DC_14A-66A-<br/> 66A_n77A<br/> DC_2A-2A-12A_n77A, DC_12A-66A-66A_n77A,DC_2A-2A-<br/> 30A_n77A<br/> DC_2A-2A-14A_n66A,DC_2A-2A-66A_n77A,DC_2A-66A-66A_n77A<br/> DC_30A-66A-66A_n77A, DC_66A-66A-66A_n77A<br/> DC_2A-2A-29A_n77A, DC_29A-66A-66A_n77A, DC_2A-2A-<br/> 5A_n77A<br/> DC_5A-66A-66A_n77A, DC_14A-66A-66A_n2A, DC_2A-2A-<br/> 14A_n66A<br/> DC_14A-66A-66A_n2A</p> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>4DL + FR1:DC_2A-2A-66A-66A_n77A, DC_2A-2A-66A-66A_n5A</p> <p>FR1 1DL CA:CA_n2(2A), CA_n66(2A), CA_n66(3A), CA_n77(2A)</p> <p>FR1 2DL CA:CA_n2A-n66A, CA_n5A-n66A, CA_n2A-n5A<br/>CA_n14A-n66A, CA_n30A-n66A, CA_n2A-n14A, CA_n2A-n30A<br/>CA_n5A-n30A, CA_n14A-n30A</p> <p>Intra Band 2CC n48:CA_n2(2A)-n5A, CA_n2(2A)-n66A<br/>CA_n2A-n66(2A), CA_n5A-n66(2A), CA_n30A-n66(2A)<br/>CA_n2(2A)-n14A, CA_n14A-n66(2A), CA_n2A-n77A, CA_n5A-n77A<br/>CA_n12A-n77A, CA_n14A-n77A, CA_n66A-n77A, CA_n30A-n77A<br/>CA_n2A-n77(2A), CA_n5A-n77(2A), CA_n12A-n77(2A)<br/>CA_n14A-n77(2A), CA_n66A-n77(2A), CA_n30A-n77(2A)<br/>CA_n2(2A)-n77A, CA_n66(2A)-n77A, CA_n5A-n30A, CA_n2A-n66A<br/>CA_n2A-n30A, CA_n2(2A)-n30A, CA_n30A-n66A</p> <p>FR1 3DL CA:CA_n2A-n5A-n66A, CA_n2A-n5A-n30A<br/>CA_n5A-n30A-n66A, CA_n2A-n30A-n66A, CA_n2A-n14A-n30A<br/>CA_n2A-n14A-n66A, CA_n14A-n30A-n66A, CA_n2A-n12A-n77A<br/>CA_n2A-n14A-n77A, CA_n2A-n66A-n77A, CA_n2A-n30A-n77A<br/>CA_n30A-n66A-n77A, CA_n2A-n5A-n77A, CA_n5A-n66A-n77A<br/>CA_n5A-n30A-n77A, CA_n12A-n30A-n77A, CA_n12A-n66A-n77A<br/>CA_n14A-n30A-n77A, CA_n14A-n66A-n77A, CA_n5a-n30a-n66a<br/>CA_n2a-n30a-n66a, CA_n2a-n5a-n30a, CA_n5a-n30a-n77a</p> <p>FR1 2UL CA:CA_n5a-n66a, CA_n14a-n77a, CA_n5A-n30A<br/>CA_n30A-n66A, CA_n14A-n30A, CA_n2A-n5A, CA_n2A-n66A<br/>CA_n5A-n66A, CA_n2A-n14A, CA_n14A-n66A, CA_n30a-n77a<br/>CA_n2a-n77a, CA_n5a-n77a, CA_n66a-n77a</p> <p>Bluetooth (BR+EDR+BLE)</p> <p>WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40),<br/>802.11ac(VHT20/40/80/160), 802.11ax(HE20/40/80/160) and<br/>802.11be(EHT20/40/80/160)</p> |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

The requirement for the following technical information of the EUT was tested in this report:

|                   |                                                     |                                              |
|-------------------|-----------------------------------------------------|----------------------------------------------|
| Operating Mode    | 6G WIFI                                             |                                              |
| Frequency Range   | 802.11ax(HE20/HE40/HE80/HE160)                      | 5925 MHz ~ 6425 MHz                          |
|                   |                                                     | 6425 MHz ~ 6525 MHz                          |
|                   |                                                     | 6525 MHz ~ 6875 MHz                          |
|                   |                                                     | 6875 MHz ~ 7125 MHz                          |
|                   | 802.11be(EHT20/EHT40/EHT80/EHT160)                  | 5925 MHz ~ 6425 MHz                          |
|                   |                                                     | 6425 MHz ~ 6525 MHz                          |
|                   |                                                     | 6525 MHz ~ 6875 MHz                          |
|                   |                                                     | 6875 MHz ~ 7125 MHz                          |
| Antenna Type      | PIFA Antenna                                        |                                              |
| Hotspot Function  | N/A                                                 |                                              |
| Exposure Category | General Population/Uncontrolled exposure            |                                              |
| Product Type      | Portable Device                                     |                                              |
| EUT Type          | <input checked="" type="checkbox"/> Production unit | <input type="checkbox"/> Identical prototype |

### 3 SUMMARY OF TEST RESULT

#### 3.1 Test Standards

| No. | Identity                  | Document Title                                                                                                                                                                                                                                                                  |
|-----|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | 47 CFR Part 2.1093        | Radio frequency radiation exposure evaluation: portable devices                                                                                                                                                                                                                 |
| 2   | ANSI C95.1-1992           | IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz                                                                                                                                                      |
| 3   | 47 CFR Part 1.1310        | Radiofrequency radiation exposure limits                                                                                                                                                                                                                                        |
| 4   | FCC KDB 865664 D02 v01r02 | RF Exposure Reporting                                                                                                                                                                                                                                                           |
| 5   | KDB 248227 D01 v02r02     | SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters                                                                                                                                                                                                                               |
| 6   | IEC/IEEE 62209-1528:2020  | Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz) |
| 7   | IEC/IEEE 63195-1:2022     | Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz)-Part 1: Measurement procedure                                                                       |
| 8   | IEC TR 63170:2018         | Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz                                                                                           |

### 3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is power density for frequencies between 1.5GHz and 100 GHz is  $1.0 \text{ mW/cm}^2 = 10 \text{ W/m}^2$

Table of Exposure Limits:

| Frequency range (MHz)                                               | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW / cm <sup>2</sup> ) | Averaging time (minutes) |
|---------------------------------------------------------------------|-------------------------------|-------------------------------|---------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposure                     |                               |                               |                                       |                          |
| 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                        |
| 300-1,500                                                           | /                             | /                             | f/300                                 | 6                        |
| 1,500-100,000                                                       | /                             | /                             | 5                                     | 6                        |
| (B) Limits for General Population/Uncontrolled Exposure             |                               |                               |                                       |                          |
| 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                       |
| 300-1,500                                                           | /                             | /                             | f/1500                                | 30                       |
| 1,500-100,000                                                       | /                             | /                             | 1.0                                   | 30                       |
| <i>f = frequency in MHz * = Plane-wave equivalent power density</i> |                               |                               |                                       |                          |

NOTE:

**General Population/Uncontrolled Exposure:** Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

**Occupational/Controlled Exposure:** Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

### 3.3 Test Result Summary

#### 3.3.1 Highest Power Density

| Equipment Class           | Band    | Maximum Scaled PD<br>(W/m <sup>2</sup> ) | Maximum Report<br>PD<br>(W/m <sup>2</sup> ) |
|---------------------------|---------|------------------------------------------|---------------------------------------------|
| U-NII-5/6/7/8             | 6G WLAN | 6.92                                     | <b>6.92</b>                                 |
| Limit (W/m <sup>2</sup> ) |         | 10                                       |                                             |
| Verdict                   |         | Pass                                     |                                             |

### 3.4 Test Uncertainty

For PTP measurement method: DASY8 uncertainty budget in compliance with IEC/IEEE 63195-1 for the cases indicated in the reference table.

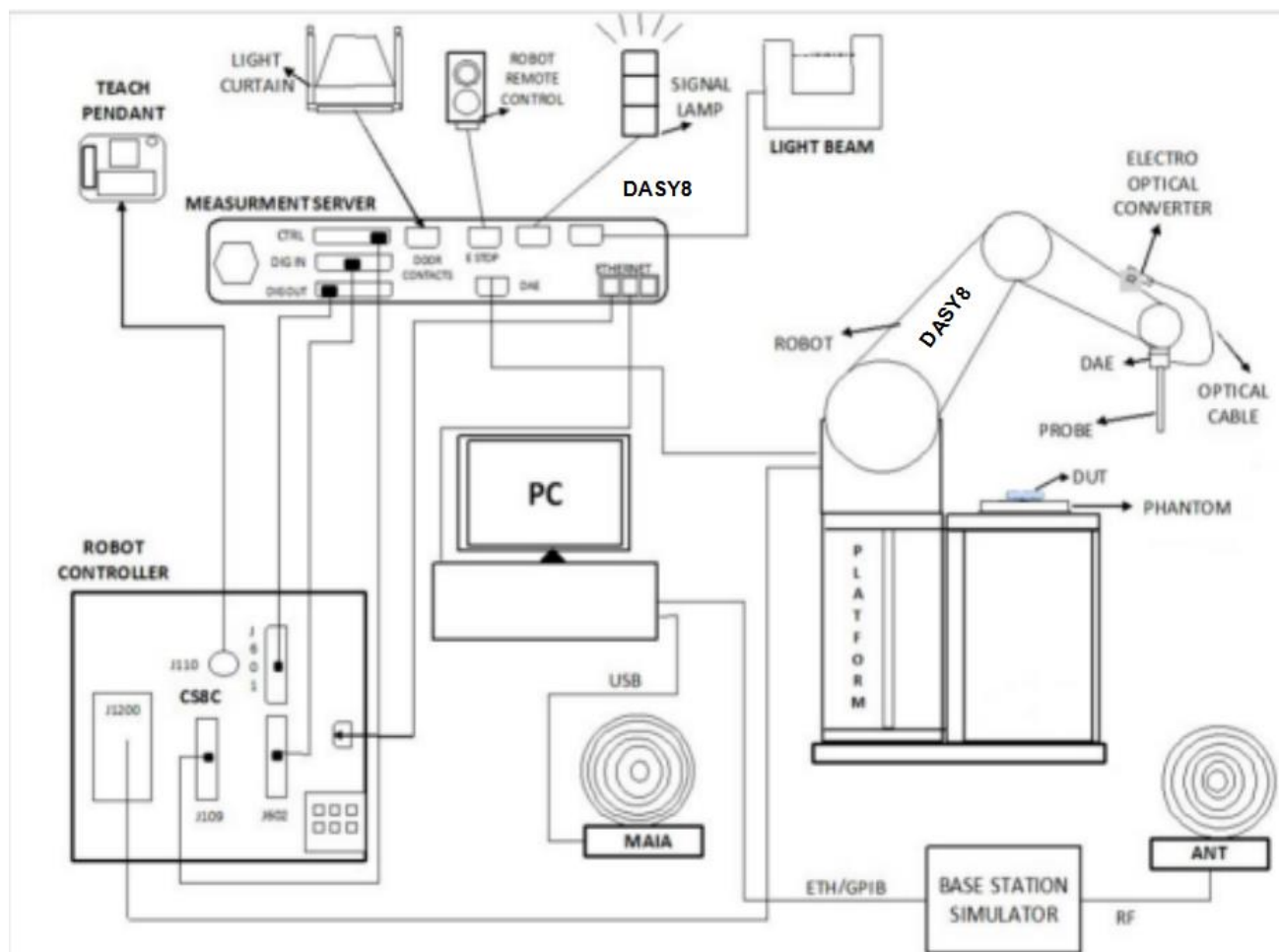
| DASY8 Uncertainty Budget for PD (avg ≥1 cm2)                     |                                 |                     |                 |       |      |                    |              |
|------------------------------------------------------------------|---------------------------------|---------------------|-----------------|-------|------|--------------------|--------------|
| Evaluation Distances to the Antennas ≥ λ/5                       |                                 |                     |                 |       |      |                    |              |
| in Compliance with IEC/IEEE 63195                                |                                 |                     |                 |       |      |                    |              |
| Error Description                                                |                                 | Unc. Value<br>(±dB) | Probab. Distri. | Div.  | (ci) | Std. Unc.<br>(±dB) | (vi)<br>veff |
| Uncertainty terms dependent on the measurement system            |                                 |                     |                 |       |      |                    |              |
| CAL                                                              | Calibration                     | 0.49                | N               | 1     | 1    | 0.49               | ∞            |
| COR                                                              | Probe correction                | 0                   | R               | 1.732 | 1    | 0                  | ∞            |
| FRS                                                              | Frequency response (BW ≤ 1 GHz) | 0.2                 | R               | 1.732 | 1    | 0.12               | ∞            |
| SCC                                                              | Sensor cross coupling           | 0                   | R               | 1.732 | 1    | 0                  | ∞            |
| ISO                                                              | Isotropy                        | 0.5                 | R               | 1.732 | 1    | 0.29               | ∞            |
| LIN                                                              | Linearity                       | 0.2                 | R               | 1.732 | 1    | 0.12               | ∞            |
| PSC                                                              | Probe scattering                | 0                   | R               | 1.732 | 1    | 0                  | ∞            |
| PPO                                                              | Probe positioning offset        | 0.3                 | R               | 1.732 | 1    | 0.17               | ∞            |
| PPR                                                              | Probe positioning repeatability | 0.04                | R               | 1.732 | 1    | 0.02               | ∞            |
| SMO                                                              | Sensor mechanical offset        | 0                   | R               | 1.732 | 1    | 0                  | ∞            |
| PSR                                                              | Probe spatial resolution        | 0                   | R               | 1.732 | 1    | 0                  | ∞            |
| FLD                                                              | Field impedance dependence      | 0                   | R               | 1.732 | 1    | 0                  | ∞            |
| APD                                                              | Amplitude and phase drift       | 0                   | R               | 1.732 | 1    | 0                  | ∞            |
| APN                                                              | Amplitude and phase noise       | 0.04                | R               | 1.732 | 1    | 0.02               | ∞            |
| TR                                                               | Measurement area truncation     | 0                   | R               | 1.732 | 1    | 0                  | ∞            |
| DAQ                                                              | Data acquisition                | 0.03                | N               | 1     | 1    | 0.03               | ∞            |
| SMP                                                              | Sampling                        | 0                   | R               | 1.732 | 1    | 0                  | ∞            |
| REC                                                              | Field reconstruction            | 0.6                 | R               | 1.732 | 1    | 0.35               | ∞            |
| TRA                                                              | FTE/MEO                         | 0 (0.7)             | R               | 1.732 | 1    | 0 (0.4)            | ∞            |
| SCA                                                              | Power density scaling           | –                   | R               | 1.732 | 1    | –                  | ∞            |
| SAV                                                              | Spatial averaging               | 0.1                 | R               | 1.732 | 1    | 0.06               | ∞            |
| SDL                                                              | System detection limit          | 0.04                | R               | 1.732 | 1    | 0.02               | ∞            |
| Uncertainty terms dependent on the DUT and environmental factors |                                 |                     |                 |       |      |                    |              |
| PC                                                               | Probe coupling with DUT         | 0                   | R               | 1.732 | 1    | 0                  | ∞            |
| MOD                                                              | Modulation response             | 0.4                 | R               | 1.732 | 1    | 0.23               | ∞            |

|                                              |                                |      |   |       |   |                    |          |
|----------------------------------------------|--------------------------------|------|---|-------|---|--------------------|----------|
| IT                                           | Integration time               | 0    | R | 1.732 | 1 | 0                  | $\infty$ |
| RT                                           | Response time                  | 0    | R | 1.732 | 1 | 0                  | $\infty$ |
| DH                                           | Device holder influence        | 0.14 | R | 1.732 | 1 | 0.08               | $\infty$ |
| DA                                           | DUT alignment                  | 0    | R | 1.732 | 1 | 0                  | $\infty$ |
| AC                                           | RF ambient conditions          | 0.04 | R | 1.732 | 1 | 0.02               | $\infty$ |
| AR                                           | Ambient reflections            | 0.04 | R | 1.732 | 1 | 0.02               | $\infty$ |
| MSI                                          | Immunity / secondary reception | 0    | R | 1.732 | 1 | 0                  | $\infty$ |
| DRI                                          | Drift of the DUT               | –    | R | 1.732 | 1 | –                  | $\infty$ |
| Combined Std Uncertainty (w/ FTE/MEO)        |                                |      | – | –     | – | 0.75               | $\infty$ |
| <b>Expanded Std Uncertainty (w/ FTE/MEO)</b> |                                |      | – | –     | – | <b>1.50 (1.71)</b> | –        |

## 4 MEASUREMENT SYSTEM

### 4.1 DASY Power Density System

#### 4.1.1 DASY PD System Diagram



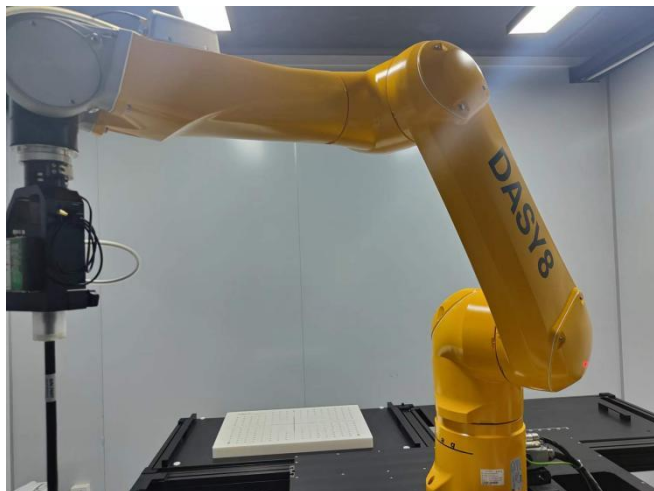
The DASY system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY measurement server.
6. The DASY measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.

7. DASY software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

#### 4.1.2 Robot

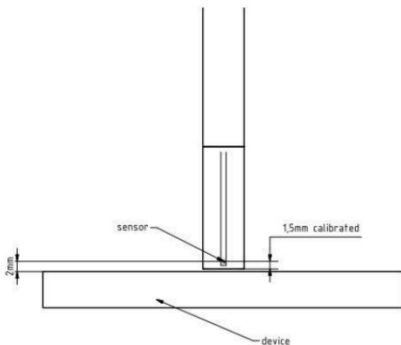
The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:



- High precision  
(repeatability  $\pm 0.02$  mm)
- High reliability  
(industrial design)
- Low maintenance costs  
(virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements  
(brush less synchron motors; no stepper motors)
- Low ELF interference  
(motor control \_elds shielded via the closed metallic construction shields)

#### 4.1.3 EUmmWave Probe / E-Field 5G Probe

The EUmmWave3 probe design allows measurements at distances as small as 2mm

|                                                                                                                                                                                                                                   |                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency                                                                                                                                                                                                                         | 750 MHz – 110 GHz                                                                                                                                                                                                   |
| Probe Overall Length                                                                                                                                                                                                              | 320 mm                                                                                                                                                                                                              |
| Probe Body Diameter                                                                                                                                                                                                               | 8.0 mm                                                                                                                                                                                                              |
| Tip Length                                                                                                                                                                                                                        | 23.0 mm                                                                                                                                                                                                             |
| Tip Diameter                                                                                                                                                                                                                      | 8.0 mm                                                                                                                                                                                                              |
| Probe's two dipoles length                                                                                                                                                                                                        | 0.9 mm – Diode loaded                                                                                                                                                                                               |
| Dynamic Range                                                                                                                                                                                                                     | < 20 V/m – 10000 V/m with PRE-10 (min < 50 V/m – 3000 V/m)                                                                                                                                                          |
| Position Precision                                                                                                                                                                                                                | < 0.2 mm                                                                                                                                                                                                            |
| Distance between diode sensors and probe's tip                                                                                                                                                                                    | 1.5 mm                                                                                                                                                                                                              |
| Minimum Mechanical separation between probe tip and a Surface                                                                                                                                                                     | 0.5 mm                                                                                                                                                                                                              |
| Applications                                                                                                                                                                                                                      | E-field measurements of 5G devices and other mm-wave transmitters operating above 10GHz in < 2 mm distance from device (free-space) Power density, H-field and far-field analysis using total field reconstruction. |
| Compatibility                                                                                                                                                                                                                     | cDASY6 + 5G-Module SW1.0 and higher                                                                                                                                                                                 |
| <div style="display: flex; align-items: center;">   </div> |                                                                                                                                                                                                                     |

#### 4.1.4 Data Acquisition Electronics

The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.



- Input Impedance: 200M $\Omega$ m
- The Inputs: Symmetrical and Floating
- Common Mode Rejection: Above 80dB

## 5 SYSTEM VERIFICATION

### 5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal Power Density measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

### 5.2 System Check Setup

The system was verified to be within  $\pm 0.66$  dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

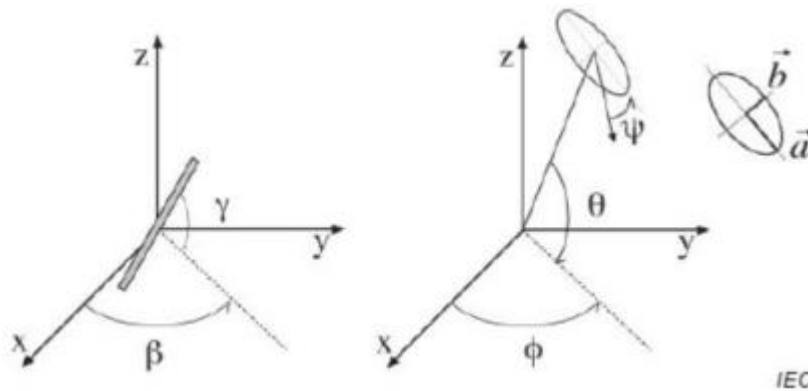
## 6 POWER DENSITY MEASUREMENT PROCEDURE

### 6.1 Computation of the Electric Field Polarization Ellipse

For the numerical description of an arbitrarily oriented ellipse in three-dimensional space, five parameters are needed: the semi-major axis ( $a$ ), the semi-minor axis ( $b$ ), two angles describing the orientation of the normal vector of the ellipse ( $\phi$ ,  $\theta$ ), and one angle describing the tilt of the semi-major axis ( $\Psi$ ). For the two

extreme cases, i.e. circular and linear polarizations, three parameters only ( $a$ ,  $\phi$  and  $\theta$ ) are sufficient for

the description of the incident field.



**Illustration of the angles used for the numerical description of the sensor and the orientation of an ellipse in 3-D space**

For the construction of the ellipse parameters from measured data, the problem can be reformulated as a nonlinear search problem. The semi-major and semi-minor axes of an elliptical field can be express as functions of the three angles ( $\phi$ ,  $\theta$  and  $\Psi$ ). The parameters can be uniquely determined towards minimizing the error based on least-squares for the given set of angles and the measured data. In this way, the numbers of three parameters is reduced from five to three, which means that least three sensors readings are necessary to gain sufficient information for the reconstruction of ellipse parameters.

However, to suppress the noise and increase the reconstruction accuracy, it is desirable to have an over determined system of equations. The solution to use a probe consisting of two sensors angled by  $\gamma_1$  and  $\gamma_2$  toward the probe axis and to perform measurements at three angular positions of the probe, i.e. at  $\beta_1$ ,  $\beta_2$  and  $\beta_3$ , results in over determination of two. If there is a need for more information or increased accuracy, more rotation angles can be added.

The reconstruction of ellipse parameters can be separated into linear and non-linear parts that are best solved by the givens algorithm combined with a downhill simplex algorithm. To minimize the mutual coupling, sensor angles are set with a  $90^\circ$  shift ( $\gamma_1 = \gamma_2 + 90^\circ$ ), and, to simplify, the first rotation angle of the probe ( $\beta_1$ ) can be set to  $0^\circ$ .

## 6.2 Total Field and Power Flux Density Reconstruction

Computation of the power density in general requires knowledge of the electric and magnetic field amplitudes and phases in the plane of incidence. Reconstruction of these quantities from pseudo-vector E-field measurements is feasible, as they are constrained by Maxwell's equations. The SPEAG have developed a reconstruction approach based on the Gerchberg-Saxton algorithm, which benefits from the availability of the E-Field polarization ellipse information obtained with the EUMMW2 probe. This reconstruction algorithm, together with the ability of the probe to measure extremely close to the source without perturbing the field, permits reconstruction of the E-field and H-field, as well as of the power density, on measurement planes located as near as  $\lambda/5$  away.

## 6.3 Power Flux Density Averaging

The average of the reconstructed power density is evaluated over a circular area in each measurement plane. The area of the circle is defined by the user; the default is 1cm<sup>2</sup>. The computed peak average value

is displayed in the box at the top right. Note that the average is evaluated only for grid points where the averaging circle is completely filled with values; for points at the edge where the averaging circle is only partly filled with values, the average power density is set to zero. Two average power density values are computed.

## 6.4 Measurement Workflow: Incident Power Density Measurements with DASY8 Module mmWave

The incident power density must be measured for the test configuration producing the highest SAR value. The measurement procedure is summarized below:

1. Perform a system performance check at 10 GHz.
2. Determine the optimal grid resolution to be used for subsequent measurements.
3. Assess the incident power for the configuration to be tested.
4. Calculate the additional reconstruction uncertainty at 2mm and compute the total measurement uncertainty.
5. Adjust the incident psPD results by the amount that the measurement uncertainty exceeds 30%

## 7 CONDUCTED RF OUPUT POWER

### 7.1 WIFI

#### 7.1.1 6G WIFI-ANT9-Full power

| Band              | Mode           | Channel | Freq. | Conducted Power(dBm) | Tune-up Power(dBm) | SAR Test Require. |
|-------------------|----------------|---------|-------|----------------------|--------------------|-------------------|
| 6G<br>(5925~7125) | 802.11ax(HE20) | 1       | 5955  | 10.88                | 12.00              | No                |
|                   |                | 45      | 6175  | 11.14                | 12.00              | No                |
|                   |                | 93      | 6415  | 11.01                | 12.00              | No                |
|                   |                | 97      | 6435  | 10.88                | 12.00              | No                |
|                   |                | 105     | 6475  | 11.23                | 12.00              | No                |
|                   |                | 113     | 6515  | 10.85                | 12.00              | No                |
|                   |                | 117     | 6535  | 10.85                | 12.00              | No                |
|                   |                | 153     | 6715  | 10.94                | 12.00              | No                |
|                   |                | 181     | 6855  | 11.33                | 12.00              | No                |
|                   |                | 185     | 6875  | 10.90                | 12.00              | No                |
|                   |                | 213     | 7015  | 11.21                | 12.00              | No                |
|                   |                | 233     | 7115  | 11.33                | 12.00              | No                |
|                   | 802.11ax(HE40) | 3       | 5965  | 10.90                | 12.00              | No                |
|                   |                | 43      | 6165  | 11.30                | 12.00              | No                |
|                   |                | 91      | 6405  | 10.86                | 12.00              | No                |
|                   |                | 99      | 6445  | 11.23                | 12.00              | No                |
|                   |                | 107     | 6485  | 11.26                | 12.00              | No                |
|                   |                | 115     | 6525  | 11.15                | 12.00              | No                |
|                   |                | 123     | 6565  | 10.96                | 12.00              | No                |
|                   |                | 155     | 6725  | 10.95                | 12.00              | No                |
|                   |                | 179     | 6845  | 11.11                | 12.00              | No                |
|                   |                | 187     | 6885  | 10.96                | 12.00              | No                |
|                   |                | 211     | 7005  | 11.08                | 12.00              | No                |
|                   |                | 227     | 7085  | 11.26                | 12.00              | No                |
|                   | 802.11ax(HE80) | 7       | 5985  | 11.30                | 12.00              | No                |
|                   |                | 39      | 6145  | 11.18                | 12.00              | No                |
|                   |                | 87      | 6385  | 11.14                | 12.00              | No                |
|                   |                | 103     | 6465  | 11.31                | 12.00              | No                |
|                   |                | 119     | 6545  | 11.21                | 12.00              | No                |
|                   |                | 135     | 6625  | 11.03                | 12.00              | No                |
|                   |                | 151     | 6705  | 10.99                | 12.00              | No                |
|                   |                | 167     | 6785  | 11.29                | 12.00              | No                |
|                   |                | 183     | 6865  | 11.24                | 12.00              | No                |
|                   |                | 199     | 6945  | 10.96                | 12.00              | No                |
|                   |                | 215     | 7025  | 11.32                | 12.00              | No                |

|  |                  |     |      |              |       |     |
|--|------------------|-----|------|--------------|-------|-----|
|  | 802.11ax(HE160)  | 15  | 6025 | <b>11.46</b> | 12.00 | Yes |
|  |                  | 47  | 6185 | 11.13        | 12.00 | No  |
|  |                  | 79  | 6345 | 11.24        | 12.00 | No  |
|  |                  | 111 | 6505 | 10.64        | 12.00 | No  |
|  |                  | 143 | 6665 | 11.16        | 12.00 | No  |
|  |                  | 175 | 6825 | 11.06        | 12.00 | No  |
|  |                  | 207 | 6985 | 10.54        | 12.00 | No  |
|  | 802.11be(EHT20)  | 1   | 5955 | 11.32        | 12.00 | No  |
|  |                  | 45  | 6175 | 11.34        | 12.00 | No  |
|  |                  | 93  | 6415 | 11.10        | 12.00 | No  |
|  |                  | 97  | 6435 | 10.94        | 12.00 | No  |
|  |                  | 105 | 6475 | 11.03        | 12.00 | No  |
|  |                  | 113 | 6515 | 10.88        | 12.00 | No  |
|  |                  | 117 | 6535 | 10.88        | 12.00 | No  |
|  |                  | 153 | 6715 | 11.21        | 12.00 | No  |
|  |                  | 181 | 6855 | 11.00        | 12.00 | No  |
|  |                  | 185 | 6875 | 10.89        | 12.00 | No  |
|  |                  | 213 | 7015 | 11.17        | 12.00 | No  |
|  |                  | 233 | 7115 | 10.85        | 12.00 | No  |
|  | 802.11be(EHT40)  | 3   | 5965 | 11.21        | 12.00 | No  |
|  |                  | 43  | 6165 | 10.98        | 12.00 | No  |
|  |                  | 91  | 6405 | 10.92        | 12.00 | No  |
|  |                  | 99  | 6445 | 11.08        | 12.00 | No  |
|  |                  | 107 | 6485 | 10.91        | 12.00 | No  |
|  |                  | 115 | 6525 | 11.02        | 12.00 | No  |
|  |                  | 123 | 6565 | 10.90        | 12.00 | No  |
|  |                  | 155 | 6725 | 10.91        | 12.00 | No  |
|  |                  | 179 | 6845 | 11.04        | 12.00 | No  |
|  |                  | 187 | 6885 | 11.14        | 12.00 | No  |
|  |                  | 211 | 7005 | 10.97        | 12.00 | No  |
|  |                  | 227 | 7085 | 11.03        | 12.00 | No  |
|  | 802.11be(EHT80)  | 7   | 5985 | 10.98        | 12.00 | No  |
|  |                  | 39  | 6145 | 11.26        | 12.00 | No  |
|  |                  | 87  | 6385 | 10.95        | 12.00 | No  |
|  |                  | 103 | 6465 | 11.27        | 12.00 | No  |
|  |                  | 119 | 6545 | 11.13        | 12.00 | No  |
|  |                  | 135 | 6625 | 11.05        | 12.00 | No  |
|  |                  | 151 | 6705 | 10.90        | 12.00 | No  |
|  |                  | 167 | 6785 | 11.03        | 12.00 | No  |
|  |                  | 183 | 6865 | 10.94        | 12.00 | No  |
|  |                  | 199 | 6945 | 11.15        | 12.00 | No  |
|  |                  | 215 | 7025 | 10.97        | 12.00 | No  |
|  | 802.11be(EHT160) | 15  | 6025 | 10.89        | 12.00 | No  |

|  |  |     |      |       |       |    |
|--|--|-----|------|-------|-------|----|
|  |  | 47  | 6185 | 10.90 | 12.00 | No |
|  |  | 79  | 6345 | 11.01 | 12.00 | No |
|  |  | 111 | 6505 | 11.06 | 12.00 | No |
|  |  | 143 | 6665 | 11.01 | 12.00 | No |
|  |  | 175 | 6825 | 11.07 | 12.00 | No |
|  |  | 207 | 6985 | 11.00 | 12.00 | No |

## 7.1.2 6G WIFI-ANT10-Full power

| Band              | Mode            | Channel | Freq. | Conducted Power(dBm) | Tune-up Power(dBm) | SAR Test Require. |
|-------------------|-----------------|---------|-------|----------------------|--------------------|-------------------|
| 6G<br>(5925~7125) | 802.11ax(HE20)  | 1       | 5955  | 11.11                | 12.00              | No                |
|                   |                 | 45      | 6175  | 10.98                | 12.00              | No                |
|                   |                 | 93      | 6415  | 10.98                | 12.00              | No                |
|                   |                 | 97      | 6435  | 11.06                | 12.00              | No                |
|                   |                 | 105     | 6475  | 11.17                | 12.00              | No                |
|                   |                 | 113     | 6515  | 11.21                | 12.00              | No                |
|                   |                 | 117     | 6535  | 11.22                | 12.00              | No                |
|                   |                 | 153     | 6715  | 11.14                | 12.00              | No                |
|                   |                 | 181     | 6855  | 11.34                | 12.00              | No                |
|                   |                 | 185     | 6875  | 11.12                | 12.00              | No                |
|                   |                 | 213     | 7015  | 11.13                | 12.00              | No                |
|                   |                 | 233     | 7115  | 11.25                | 12.00              | No                |
|                   | 802.11ax(HE40)  | 3       | 5965  | 11.31                | 12.00              | No                |
|                   |                 | 43      | 6165  | 11.02                | 12.00              | No                |
|                   |                 | 91      | 6405  | 11.01                | 12.00              | No                |
|                   |                 | 99      | 6445  | 11.26                | 12.00              | No                |
|                   |                 | 107     | 6485  | 11.18                | 12.00              | No                |
|                   |                 | 115     | 6525  | 11.26                | 12.00              | No                |
|                   |                 | 123     | 6565  | 11.22                | 12.00              | No                |
|                   |                 | 155     | 6725  | 10.89                | 12.00              | No                |
|                   |                 | 179     | 6845  | 11.02                | 12.00              | No                |
|                   |                 | 187     | 6885  | 11.34                | 12.00              | No                |
|                   |                 | 211     | 7005  | 11.00                | 12.00              | No                |
|                   |                 | 227     | 7085  | 11.08                | 12.00              | No                |
|                   | 802.11ax(HE80)  | 7       | 5985  | 11.25                | 12.00              | No                |
|                   |                 | 39      | 6145  | 10.99                | 12.00              | No                |
|                   |                 | 87      | 6385  | 11.11                | 12.00              | No                |
|                   |                 | 103     | 6465  | 11.23                | 12.00              | No                |
|                   |                 | 119     | 6545  | 11.22                | 12.00              | No                |
|                   |                 | 135     | 6625  | 11.15                | 12.00              | No                |
|                   |                 | 151     | 6705  | 11.07                | 12.00              | No                |
|                   |                 | 167     | 6785  | 11.22                | 12.00              | No                |
|                   |                 | 183     | 6865  | 11.26                | 12.00              | No                |
|                   |                 | 199     | 6945  | 11.03                | 12.00              | No                |
|                   | 802.11ax(HE160) | 215     | 7025  | 11.31                | 12.00              | No                |
|                   |                 | 15      | 6025  | <b>11.50</b>         | 12.00              | Yes               |
|                   |                 | 47      | 6185  | 11.28                | 12.00              | No                |
|                   |                 | 79      | 6345  | 11.38                | 12.00              | No                |
|                   |                 | 111     | 6505  | 10.69                | 12.00              | No                |

|  |                  |     |      |       |       |    |
|--|------------------|-----|------|-------|-------|----|
|  |                  | 143 | 6665 | 11.26 | 12.00 | No |
|  |                  | 175 | 6825 | 11.12 | 12.00 | No |
|  |                  | 207 | 6985 | 10.56 | 12.00 | No |
|  | 802.11be(EHT20)  | 1   | 5955 | 10.93 | 12.00 | No |
|  |                  | 45  | 6175 | 11.08 | 12.00 | No |
|  |                  | 93  | 6415 | 11.01 | 12.00 | No |
|  |                  | 97  | 6435 | 10.95 | 12.00 | No |
|  |                  | 105 | 6475 | 11.08 | 12.00 | No |
|  |                  | 113 | 6515 | 11.06 | 12.00 | No |
|  |                  | 117 | 6535 | 11.31 | 12.00 | No |
|  |                  | 153 | 6715 | 11.08 | 12.00 | No |
|  |                  | 181 | 6855 | 11.09 | 12.00 | No |
|  |                  | 185 | 6875 | 11.01 | 12.00 | No |
|  |                  | 213 | 7015 | 10.88 | 12.00 | No |
|  |                  | 233 | 7115 | 11.07 | 12.00 | No |
|  | 802.11be(EHT40)  | 3   | 5965 | 10.89 | 12.00 | No |
|  |                  | 43  | 6165 | 11.04 | 12.00 | No |
|  |                  | 91  | 6405 | 11.19 | 12.00 | No |
|  |                  | 99  | 6445 | 10.95 | 12.00 | No |
|  |                  | 107 | 6485 | 11.23 | 12.00 | No |
|  |                  | 115 | 6525 | 11.30 | 12.00 | No |
|  |                  | 123 | 6565 | 11.20 | 12.00 | No |
|  |                  | 155 | 6725 | 10.87 | 12.00 | No |
|  |                  | 179 | 6845 | 11.03 | 12.00 | No |
|  |                  | 187 | 6885 | 10.90 | 12.00 | No |
|  |                  | 211 | 7005 | 11.31 | 12.00 | No |
|  |                  | 227 | 7085 | 10.95 | 12.00 | No |
|  | 802.11be(EHT80)  | 7   | 5985 | 11.08 | 12.00 | No |
|  |                  | 39  | 6145 | 11.07 | 12.00 | No |
|  |                  | 87  | 6385 | 11.03 | 12.00 | No |
|  |                  | 103 | 6465 | 11.27 | 12.00 | No |
|  |                  | 119 | 6545 | 11.16 | 12.00 | No |
|  |                  | 135 | 6625 | 11.19 | 12.00 | No |
|  |                  | 151 | 6705 | 11.26 | 12.00 | No |
|  |                  | 167 | 6785 | 11.23 | 12.00 | No |
|  |                  | 183 | 6865 | 11.02 | 12.00 | No |
|  |                  | 199 | 6945 | 11.16 | 12.00 | No |
|  |                  | 215 | 7025 | 11.23 | 12.00 | No |
|  | 802.11be(EHT160) | 15  | 6025 | 11.11 | 12.00 | No |
|  |                  | 47  | 6185 | 11.19 | 12.00 | No |
|  |                  | 79  | 6345 | 10.99 | 12.00 | No |
|  |                  | 111 | 6505 | 11.03 | 12.00 | No |
|  |                  | 143 | 6665 | 11.28 | 12.00 | No |

|  |  |     |      |       |       |    |
|--|--|-----|------|-------|-------|----|
|  |  | 175 | 6825 | 11.27 | 12.00 | No |
|  |  | 207 | 6985 | 11.18 | 12.00 | No |

### 7.1.3 6G WIFI-MIMO-Full power

| Band              | Mode            | Channel | Freq. | Conducted Power(dBm) | Tune-up Power(dBm) | SAR Test Require. |
|-------------------|-----------------|---------|-------|----------------------|--------------------|-------------------|
| 6G<br>(5925~7125) | 802.11ax(HE20)  | 1       | 5955  | 14.27                | 15.00              | No                |
|                   |                 | 45      | 6175  | 13.98                | 15.00              | No                |
|                   |                 | 93      | 6415  | 14.10                | 15.00              | No                |
|                   |                 | 97      | 6435  | 14.04                | 15.00              | No                |
|                   |                 | 105     | 6475  | 13.93                | 15.00              | No                |
|                   |                 | 113     | 6515  | 14.10                | 15.00              | No                |
|                   |                 | 117     | 6535  | 14.00                | 15.00              | No                |
|                   |                 | 153     | 6715  | 13.97                | 15.00              | No                |
|                   |                 | 181     | 6855  | 14.32                | 15.00              | No                |
|                   |                 | 185     | 6875  | 14.34                | 15.00              | No                |
|                   |                 | 213     | 7015  | 14.04                | 15.00              | No                |
|                   |                 | 233     | 7115  | 14.14                | 15.00              | No                |
|                   | 802.11ax(HE40)  | 3       | 5965  | 14.31                | 15.00              | No                |
|                   |                 | 43      | 6165  | 14.20                | 15.00              | No                |
|                   |                 | 91      | 6405  | 13.94                | 15.00              | No                |
|                   |                 | 99      | 6445  | 14.00                | 15.00              | No                |
|                   |                 | 107     | 6485  | 13.89                | 15.00              | No                |
|                   |                 | 115     | 6525  | 14.32                | 15.00              | No                |
|                   |                 | 123     | 6565  | 14.29                | 15.00              | No                |
|                   |                 | 155     | 6725  | 14.09                | 15.00              | No                |
|                   |                 | 179     | 6845  | 14.28                | 15.00              | No                |
|                   |                 | 187     | 6885  | 14.28                | 15.00              | No                |
|                   |                 | 211     | 7005  | 14.09                | 15.00              | No                |
|                   |                 | 227     | 7085  | 14.14                | 15.00              | No                |
|                   | 802.11ax(HE80)  | 7       | 5985  | 14.31                | 15.00              | No                |
|                   |                 | 39      | 6145  | 14.15                | 15.00              | No                |
|                   |                 | 87      | 6385  | 14.03                | 15.00              | No                |
|                   |                 | 103     | 6465  | 14.21                | 15.00              | No                |
|                   |                 | 119     | 6545  | 14.22                | 15.00              | No                |
|                   |                 | 135     | 6625  | 13.89                | 15.00              | No                |
|                   |                 | 151     | 6705  | 14.22                | 15.00              | No                |
|                   |                 | 167     | 6785  | 14.33                | 15.00              | No                |
|                   |                 | 183     | 6865  | 13.91                | 15.00              | No                |
|                   |                 | 199     | 6945  | 13.85                | 15.00              | No                |
|                   |                 | 215     | 7025  | 14.08                | 15.00              | No                |
|                   | 802.11ax(HE160) | 15      | 6025  | <b>14.39</b>         | 15.00              | Yes               |

|  |                  |     |      |       |       |     |
|--|------------------|-----|------|-------|-------|-----|
|  |                  | 47  | 6185 | 14.10 | 15.00 | Yes |
|  |                  | 79  | 6345 | 14.17 | 15.00 | Yes |
|  |                  | 111 | 6505 | 14.33 | 15.00 | Yes |
|  |                  | 143 | 6665 | 14.01 | 15.00 | Yes |
|  |                  | 175 | 6825 | 14.09 | 15.00 | Yes |
|  |                  | 207 | 6985 | 14.12 | 15.00 | Yes |
|  | 802.11be(EHT20)  | 1   | 5955 | 14.13 | 15.00 | No  |
|  |                  | 45  | 6175 | 14.11 | 15.00 | No  |
|  |                  | 93  | 6415 | 13.88 | 15.00 | No  |
|  |                  | 97  | 6435 | 14.17 | 15.00 | No  |
|  |                  | 105 | 6475 | 14.12 | 15.00 | No  |
|  |                  | 113 | 6515 | 14.33 | 15.00 | No  |
|  |                  | 117 | 6535 | 14.11 | 15.00 | No  |
|  |                  | 153 | 6715 | 14.13 | 15.00 | No  |
|  |                  | 181 | 6855 | 13.90 | 15.00 | No  |
|  |                  | 185 | 6875 | 14.02 | 15.00 | No  |
|  |                  | 213 | 7015 | 14.26 | 15.00 | No  |
|  |                  | 233 | 7115 | 14.22 | 15.00 | No  |
|  | 802.11be(EHT40)  | 3   | 5965 | 14.02 | 15.00 | No  |
|  |                  | 43  | 6165 | 14.28 | 15.00 | No  |
|  |                  | 91  | 6405 | 13.89 | 15.00 | No  |
|  |                  | 99  | 6445 | 14.20 | 15.00 | No  |
|  |                  | 107 | 6485 | 14.34 | 15.00 | No  |
|  |                  | 115 | 6525 | 14.04 | 15.00 | No  |
|  |                  | 123 | 6565 | 14.03 | 15.00 | No  |
|  |                  | 155 | 6725 | 14.18 | 15.00 | No  |
|  |                  | 179 | 6845 | 14.26 | 15.00 | No  |
|  |                  | 187 | 6885 | 13.92 | 15.00 | No  |
|  |                  | 211 | 7005 | 14.01 | 15.00 | No  |
|  |                  | 227 | 7085 | 14.19 | 15.00 | No  |
|  | 802.11be(EHT80)  | 7   | 5985 | 14.34 | 15.00 | No  |
|  |                  | 39  | 6145 | 14.34 | 15.00 | No  |
|  |                  | 87  | 6385 | 14.21 | 15.00 | No  |
|  |                  | 103 | 6465 | 13.90 | 15.00 | No  |
|  |                  | 119 | 6545 | 13.85 | 15.00 | No  |
|  |                  | 135 | 6625 | 14.31 | 15.00 | No  |
|  |                  | 151 | 6705 | 13.86 | 15.00 | No  |
|  |                  | 167 | 6785 | 14.10 | 15.00 | No  |
|  |                  | 183 | 6865 | 14.13 | 15.00 | No  |
|  |                  | 199 | 6945 | 14.01 | 15.00 | No  |
|  |                  | 215 | 7025 | 13.86 | 15.00 | No  |
|  | 802.11be(EHT160) | 15  | 6025 | 14.07 | 15.00 | No  |
|  |                  | 47  | 6185 | 13.99 | 15.00 | No  |

|  |  |     |      |       |       |    |
|--|--|-----|------|-------|-------|----|
|  |  | 79  | 6345 | 14.22 | 15.00 | No |
|  |  | 111 | 6505 | 14.26 | 15.00 | No |
|  |  | 143 | 6665 | 14.19 | 15.00 | No |
|  |  | 175 | 6825 | 14.28 | 15.00 | No |
|  |  | 207 | 6985 | 13.90 | 15.00 | No |

## 8 ANTENNA LOCATION

For antenna location and support bands please refer the document “BL-SH2480613-AI EUT internal photo.pdf”.

| Antenna | Front Side(mm) | Back Side(mm) | Left Edge(mm) | Right Edge(mm) | Top Edge(mm) | Bottom Edge(mm) |
|---------|----------------|---------------|---------------|----------------|--------------|-----------------|
| Ant.0   | 15             | 2             | 3             | 120            | 5            | 40              |
| Ant.1   | 15             | 2             | 120           | 3              | 32           | 3               |
| Ant.9   | 15             | 2             | 3             | 100            | 5            | 55              |
| Ant.10  | 15             | 2             | 118           | 3              | 45           | 3               |

## 9 TEST RESULT OF POWER DENSITY

### 9.1.1 WIFI 6GHz SAR

| Antenna   | Band | Mode              | Position    | Dist.<br>(mm) | Ch. | Freq.<br>(MHz) | Power<br>Drift<br>(dB) | 1 g<br>Meas<br>SAR<br>(W/kg) | Meas.<br>Power<br>(dBm) | Max.<br>tune-<br>power<br>(dBm) | Scaling<br>Factor | Duty<br>Cycle<br>(%) | Scaling<br>Factor | 1 g<br>Scaled<br>SAR<br>(W/kg) | Measured<br>APD4cm2<br>[W/m2] | Scaled<br>APD<br>[W/m2] |
|-----------|------|-------------------|-------------|---------------|-----|----------------|------------------------|------------------------------|-------------------------|---------------------------------|-------------------|----------------------|-------------------|--------------------------------|-------------------------------|-------------------------|
| Body-Worn |      |                   |             |               |     |                |                        |                              |                         |                                 |                   |                      |                   |                                |                               |                         |
| Ant.9     | 6G   | 802.11 ax (HE160) | Front Side  | 10            | 15  | 6025           | -0.06                  | 0.052                        | 11.46                   | 12.00                           | 1.132             | 94.50                | 1.058             | 0.062                          | 0.462                         | 0.553                   |
|           | 6G   | 802.11 ax (HE160) | Back Side   | 10            | 15  | 6025           | 0.11                   | 0.024                        | 11.46                   | 12.00                           | 1.132             | 94.50                | 1.058             | 0.029                          | 0.214                         | 0.256                   |
|           | 6G   | 802.11 ax (HE160) | Left Edge   | 10            | 15  | 6025           | 0.13                   | 0.024                        | 11.46                   | 12.00                           | 1.132             | 94.50                | 1.058             | 0.029                          | 0.184                         | 0.220                   |
|           | 6G   | 802.11 ax (HE160) | Right Edge  | 10            | 15  | 6025           | 0.12                   | 0.012                        | 11.46                   | 12.00                           | 1.132             | 94.50                | 1.058             | 0.014                          | 0.101                         | 0.121                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 10            | 15  | 6025           | 0.08                   | 0.156                        | 11.46                   | 12.00                           | 1.132             | 94.50                | 1.058             | 0.187                          | 1.280                         | 1.533                   |
|           | 6G   | 802.11 ax (HE160) | Bottom Edge | 10            | 15  | 6025           | -0.01                  | 0.028                        | 11.46                   | 12.00                           | 1.132             | 94.50                | 1.058             | 0.034                          | 0.209                         | 0.250                   |
| Ant.10    | 6G   | 802.11 ax (HE160) | Front Side  | 10            | 15  | 6025           | 0.04                   | 0.044                        | 11.50                   | 12.00                           | 1.122             | 94.50                | 1.058             | 0.052                          | 0.352                         | 0.418                   |
|           | 6G   | 802.11 ax (HE160) | Back Side   | 10            | 15  | 6025           | -0.07                  | 0.030                        | 11.50                   | 12.00                           | 1.122             | 94.50                | 1.058             | 0.036                          | 0.249                         | 0.296                   |
|           | 6G   | 802.11 ax (HE160) | Left Edge   | 10            | 15  | 6025           | 0.01                   | 0.010                        | 11.50                   | 12.00                           | 1.122             | 94.50                | 1.058             | 0.012                          | 0.090                         | 0.107                   |
|           | 6G   | 802.11 ax (HE160) | Right Edge  | 10            | 15  | 6025           | 0.03                   | 0.015                        | 11.50                   | 12.00                           | 1.122             | 94.50                | 1.058             | 0.018                          | 0.129                         | 0.153                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 10            | 15  | 6025           | -0.10                  | 0.012                        | 11.50                   | 12.00                           | 1.122             | 94.50                | 1.058             | 0.014                          | 0.091                         | 0.108                   |
|           | 6G   | 802.11 ax (HE160) | Bottom Edge | 10            | 15  | 6025           | -0.08                  | 0.069                        | 11.50                   | 12.00                           | 1.122             | 94.50                | 1.058             | 0.082                          | 0.572                         | 0.679                   |
| MIMO      | 6G   | 802.11 ax (HE160) | Front Side  | 10            | 15  | 6025           | -0.11                  | 0.050                        | 14.39                   | 15.00                           | 1.151             | 94.50                | 1.058             | 0.061                          | 0.381                         | 0.464                   |
|           | 6G   | 802.11 ax (HE160) | Back Side   | 10            | 15  | 6025           | 0.03                   | 0.034                        | 14.39                   | 15.00                           | 1.151             | 94.50                | 1.058             | 0.041                          | 0.248                         | 0.302                   |
|           | 6G   | 802.11 ax (HE160) | Left Edge   | 10            | 15  | 6025           | -0.13                  | 0.028                        | 14.39                   | 15.00                           | 1.151             | 94.50                | 1.058             | 0.034                          | 0.249                         | 0.303                   |
|           | 6G   | 802.11 ax (HE160) | Right Edge  | 10            | 15  | 6025           | 0.02                   | 0.019                        | 14.39                   | 15.00                           | 1.151             | 94.50                | 1.058             | 0.023                          | 0.151                         | 0.184                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 10            | 15  | 6025           | -0.01                  | 0.160                        | 14.39                   | 15.00                           | 1.151             | 94.50                | 1.058             | 0.195                          | 1.310                         | <b>1.595</b>            |
|           | 6G   | 802.11 ax (HE160) | Bottom Edge | 10            | 15  | 6025           | -0.06                  | 0.074                        | 14.39                   | 15.00                           | 1.151             | 94.50                | 1.058             | 0.090                          | 0.659                         | 0.803                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 10            | 47  | 6185           | 0.09                   | 0.148                        | 14.10                   | 15.00                           | 1.230             | 94.50                | 1.058             | 0.193                          | 1.220                         | 1.588                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 10            | 79  | 6345           | 0.07                   | 0.120                        | 14.17                   | 15.00                           | 1.211             | 94.50                | 1.058             | 0.154                          | 1.110                         | 1.422                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 10            | 111 | 6505           | 0.09                   | 0.127                        | 14.33                   | 15.00                           | 1.167             | 94.50                | 1.058             | 0.157                          | 1.130                         | 1.395                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 10            | 143 | 6665           | 0.06                   | 0.131                        | 14.01                   | 15.00                           | 1.256             | 94.50                | 1.058             | 0.174                          | 1.110                         | 1.475                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 10            | 175 | 6825           | -0.01                  | 0.146                        | 14.09                   | 15.00                           | 1.233             | 94.50                | 1.058             | 0.190                          | 1.140                         | 1.487                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 10            | 207 | 6985           | 0.07                   | 0.150                        | 14.12                   | 15.00                           | 1.225             | 94.50                | 1.058             | 0.194                          | 1.220                         | 1.581                   |

| Antenna   | Band | Mode              | Position    | Dist.<br>(mm) | Ch. | Freq.<br>(MHz) | Power<br>Drift<br>(dB) | 10 g<br>Meas<br>SAR<br>(W/kg) | Meas.<br>Power<br>(dBm) | Max.<br>tune-<br>power<br>(dBm) | Scaling<br>Factor | Duty<br>Cycle<br>(%) | Scaling<br>Factor | 10 g<br>Scaled<br>SAR<br>(W/kg) | Measured<br>APD4cm2<br>[W/m2] | Scaled<br>APD<br>[W/m2] |
|-----------|------|-------------------|-------------|---------------|-----|----------------|------------------------|-------------------------------|-------------------------|---------------------------------|-------------------|----------------------|-------------------|---------------------------------|-------------------------------|-------------------------|
| Extremity |      |                   |             |               |     |                |                        |                               |                         |                                 |                   |                      |                   |                                 |                               |                         |
| Ant.9     | 6G   | 802.11 ax (HE160) | Front Side  | 0             | 15  | 6025           | 0.08                   | 0.078                         | 11.46                   | 12.00                           | 1.132             | 94.50                | 1.058             | 0.093                           | 1.990                         | 2.383                   |
|           | 6G   | 802.11 ax (HE160) | Back Side   | 0             | 15  | 6025           | 0.06                   | 0.032                         | 11.46                   | 12.00                           | 1.132             | 94.50                | 1.058             | 0.038                           | 0.764                         | 0.915                   |
|           | 6G   | 802.11 ax (HE160) | Left Edge   | 0             | 15  | 6025           | -0.03                  | 0.032                         | 11.46                   | 12.00                           | 1.132             | 94.50                | 1.058             | 0.038                           | 0.669                         | 0.801                   |
|           | 6G   | 802.11 ax (HE160) | Right Edge  | 0             | 15  | 6025           | 0.10                   | 0.002                         | 11.46                   | 12.00                           | 1.132             | 94.50                | 1.058             | 0.002                           | 0.043                         | 0.051                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 0             | 15  | 6025           | -0.07                  | 0.215                         | 11.46                   | 12.00                           | 1.132             | 94.50                | 1.058             | 0.257                           | 5.060                         | 6.060                   |
|           | 6G   | 802.11 ax (HE160) | Bottom Edge | 0             | 15  | 6025           | 0.07                   | 0.002                         | 11.46                   | 12.00                           | 1.132             | 94.50                | 1.058             | 0.002                           | 0.042                         | 0.050                   |
| Ant.10    | 6G   | 802.11 ax (HE160) | Front Side  | 0             | 15  | 6025           | -0.05                  | 0.063                         | 11.50                   | 12.00                           | 1.122             | 94.50                | 1.058             | 0.075                           | 1.330                         | 1.579                   |
|           | 6G   | 802.11 ax (HE160) | Back Side   | 0             | 15  | 6025           | -0.11                  | 0.025                         | 11.50                   | 12.00                           | 1.122             | 94.50                | 1.058             | 0.030                           | 0.655                         | 0.778                   |
|           | 6G   | 802.11 ax (HE160) | Left Edge   | 0             | 15  | 6025           | -0.13                  | 0.004                         | 11.50                   | 12.00                           | 1.122             | 94.50                | 1.058             | 0.005                           | 0.093                         | 0.110                   |
|           | 6G   | 802.11 ax (HE160) | Right Edge  | 0             | 15  | 6025           | 0.08                   | 0.017                         | 11.50                   | 12.00                           | 1.122             | 94.50                | 1.058             | 0.020                           | 0.438                         | 0.520                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 0             | 15  | 6025           | -0.03                  | 0.004                         | 11.50                   | 12.00                           | 1.122             | 94.50                | 1.058             | 0.005                           | 0.092                         | 0.109                   |
|           | 6G   | 802.11 ax (HE160) | Bottom Edge | 0             | 15  | 6025           | -0.04                  | 0.108                         | 11.50                   | 12.00                           | 1.122             | 94.50                | 1.058             | 0.128                           | 2.620                         | 3.110                   |
| MIMO      | 6G   | 802.11 ax (HE160) | Front Side  | 0             | 15  | 6025           | 0.08                   | 0.119                         | 14.39                   | 15.00                           | 1.151             | 94.50                | 1.058             | 0.145                           | 3.030                         | 3.690                   |
|           | 6G   | 802.11 ax (HE160) | Back Side   | 0             | 15  | 6025           | -0.03                  | 0.053                         | 14.39                   | 15.00                           | 1.151             | 94.50                | 1.058             | 0.065                           | 1.370                         | 1.668                   |
|           | 6G   | 802.11 ax (HE160) | Left Edge   | 0             | 15  | 6025           | 0.10                   | 0.057                         | 14.39                   | 15.00                           | 1.151             | 94.50                | 1.058             | 0.069                           | 1.270                         | 1.547                   |
|           | 6G   | 802.11 ax (HE160) | Right Edge  | 0             | 15  | 6025           | -0.11                  | 0.029                         | 14.39                   | 15.00                           | 1.151             | 94.50                | 1.058             | 0.035                           | 0.754                         | 0.918                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 0             | 15  | 6025           | -0.03                  | 0.239                         | 14.39                   | 15.00                           | 1.151             | 94.50                | 1.058             | 0.291                           | 5.640                         | <b>6.868</b>            |
|           | 6G   | 802.11 ax (HE160) | Bottom Edge | 0             | 15  | 6025           | -0.04                  | 0.112                         | 14.39                   | 15.00                           | 1.151             | 94.50                | 1.058             | 0.136                           | 2.580                         | 3.142                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 0             | 47  | 6185           | 0.09                   | 0.189                         | 14.10                   | 15.00                           | 1.230             | 94.50                | 1.058             | 0.246                           | 4.770                         | 6.207                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 0             | 79  | 6345           | 0.07                   | 0.153                         | 14.17                   | 15.00                           | 1.211             | 94.50                | 1.058             | 0.196                           | 3.420                         | 4.382                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 0             | 111 | 6505           | 0.09                   | 0.156                         | 14.33                   | 15.00                           | 1.167             | 94.50                | 1.058             | 0.193                           | 3.820                         | 4.717                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 0             | 143 | 6665           | 0.06                   | 0.164                         | 14.01                   | 15.00                           | 1.256             | 94.50                | 1.058             | 0.218                           | 4.650                         | 6.179                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 0             | 175 | 6825           | -0.01                  | 0.125                         | 14.09                   | 15.00                           | 1.233             | 94.50                | 1.058             | 0.163                           | 2.840                         | 3.705                   |
|           | 6G   | 802.11 ax (HE160) | Top Edge    | 0             | 207 | 6985           | 0.07                   | 0.145                         | 14.12                   | 15.00                           | 1.225             | 94.50                | 1.058             | 0.188                           | 4.010                         | 5.197                   |

## 9.1.2 WIFI 6GHz PD

| Fre. Band | Mode              | Antenna Manufacturer | Position | Dist. (mm) | Grid Step( $\lambda$ ) | Ch. | Freq. (MHz) | IPDn | IPD ratio ( $\geq -1$ ) |
|-----------|-------------------|----------------------|----------|------------|------------------------|-----|-------------|------|-------------------------|
| 6G        | 802.11 ax (HE160) | MIMO                 | Top Edge | 2          | 0.0625                 | 15  | 6025        | 2.16 | 2.41                    |
| 6G        | 802.11 ax (HE160) | MIMO                 | Top Edge | 12.45      | 0.0625                 | 15  | 6025        | 1.24 |                         |

| Fre. Band | Mode              | Antenna | Position    | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | Meas. Total psPD [W/m <sup>2</sup> ] | Meas. uncertainty Scaling Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | Duty cycle (%) | Duty cycle Factor | Scaled Totalps PD [W/m <sup>2</sup> ] | Meas. No. |
|-----------|-------------------|---------|-------------|------------|-----|-------------|------------------|--------------------------------------|----------------------------------|-------------------|--------------------------|----------------|----------------|-------------------|---------------------------------------|-----------|
| Body      |                   |         |             |            |     |             |                  |                                      |                                  |                   |                          |                |                |                   |                                       |           |
| 6G        | 802.11 ax (HE160) | Ant.9   | Front Side  | 2          | 15  | 6025        | 0.01             | 1.410                                | 1.545                            | 11.46             | 12.00                    | 1.132          | 94.50          | 1.058             | 2.609                                 | /         |
|           |                   |         | Back Side   | 2          | 15  | 6025        | 0.05             | 0.515                                | 1.545                            | 11.46             | 12.00                    | 1.132          | 94.50          | 1.058             | 0.953                                 | /         |
|           |                   |         | Left Edge   | 2          | 15  | 6025        | -0.10            | 0.489                                | 1.545                            | 11.46             | 12.00                    | 1.132          | 94.50          | 1.058             | 0.905                                 | /         |
|           |                   |         | Right Edge  | 2          | 15  | 6025        | 0.10             | 0.030                                | 1.545                            | 11.46             | 12.00                    | 1.132          | 94.50          | 1.058             | 0.056                                 | /         |
|           |                   |         | Top Edge    | 2          | 15  | 6025        | -0.12            | 3.530                                | 1.545                            | 11.46             | 12.00                    | 1.132          | 94.50          | 1.058             | <b>6.532</b>                          | 1#        |
|           |                   |         | Bottom Edge | 2          | 15  | 6025        | 0.00             | 0.032                                | 1.545                            | 11.46             | 12.00                    | 1.132          | 94.50          | 1.058             | 0.059                                 | /         |
|           |                   | Ant.10  | Front Side  | 2          | 15  | 6025        | 0.05             | 0.924                                | 1.545                            | 11.50             | 12.00                    | 1.122          | 94.50          | 1.058             | 1.695                                 | /         |
|           |                   |         | Back Side   | 2          | 15  | 6025        | -0.07            | 0.379                                | 1.545                            | 11.50             | 12.00                    | 1.122          | 94.50          | 1.058             | 0.695                                 | /         |
|           |                   |         | Left Edge   | 2          | 15  | 6025        | 0.03             | 0.060                                | 1.545                            | 11.50             | 12.00                    | 1.122          | 94.50          | 1.058             | 0.110                                 | /         |
|           |                   |         | Right Edge  | 2          | 15  | 6025        | -0.08            | 0.274                                | 1.545                            | 11.50             | 12.00                    | 1.122          | 94.50          | 1.058             | 0.503                                 | /         |
|           |                   |         | Top Edge    | 2          | 15  | 6025        | -0.08            | 0.064                                | 1.545                            | 11.50             | 12.00                    | 1.122          | 94.50          | 1.058             | 0.117                                 | /         |
|           |                   |         | Bottom Edge | 2          | 15  | 6025        | 0.00             | 1.760                                | 1.545                            | 11.50             | 12.00                    | 1.122          | 94.50          | 1.058             | <b>3.228</b>                          | 2#        |
|           |                   | MIMO    | Front Side  | 2          | 15  | 6025        | 0.05             | 1.790                                | 1.545                            | 14.39             | 15.00                    | 1.151          | 94.50          | 1.058             | 3.368                                 | /         |
|           |                   |         | Back Side   | 2          | 15  | 6025        | 0.05             | 0.890                                | 1.545                            | 14.39             | 15.00                    | 1.151          | 94.50          | 1.058             | 1.674                                 | /         |
|           |                   |         | Left Edge   | 2          | 15  | 6025        | -0.01            | 0.855                                | 1.545                            | 14.39             | 15.00                    | 1.151          | 94.50          | 1.058             | 1.609                                 | /         |
|           |                   |         | Right Edge  | 2          | 15  | 6025        | 0.08             | 0.440                                | 1.545                            | 14.39             | 15.00                    | 1.151          | 94.50          | 1.058             | 0.828                                 | /         |
|           |                   |         | Top Edge    | 2          | 15  | 6025        | -0.10            | 3.680                                | 1.545                            | 14.39             | 15.00                    | 1.151          | 94.50          | 1.058             | <b>6.924</b>                          | 3#        |
|           |                   |         | Bottom Edge | 2          | 15  | 6025        | 0.05             | 1.790                                | 1.545                            | 14.39             | 15.00                    | 1.151          | 94.50          | 1.058             | 3.368                                 | /         |
|           |                   |         | Top Edge    | 2          | 79  | 6345        | -0.11            | 2.490                                | 1.545                            | 14.17             | 15.00                    | 1.211          | 94.50          | 1.058             | 4.929                                 | /         |
|           |                   |         | Top Edge    | 2          | 111 | 6505        | -0.01            | 2.670                                | 1.545                            | 14.33             | 15.00                    | 1.167          | 94.50          | 1.058             | 5.093                                 | /         |
|           |                   |         | Top Edge    | 2          | 143 | 6665        | 0.01             | 2.700                                | 1.545                            | 14.01             | 15.00                    | 1.256          | 94.50          | 1.058             | 5.543                                 | /         |
|           |                   |         | Top Edge    | 2          | 207 | 6985        | 0.00             | 2.130                                | 1.545                            | 14.12             | 15.00                    | 1.225          | 94.50          | 1.058             | 4.265                                 | /         |

Note: According to FCC test guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%.

Total expanded uncertainty of 2.66 dB (84.5%) was used to determine the psPD measurement scaling factor.

## 10 SIMULTANEOUS TRANSMISSION

The fields generated by the antennas can be correlated or uncorrelated. At different frequencies, fields are always uncorrelated, and the aggregate power density contributions can be summed according to spatially averaged values of corresponding sources at any point in space,  $r$ , to determine the total exposure ratio (TER). Assuming  $I$  sources, the TER at each point in space is equal to

$$TER^{uncorr}(r) = \sum_{i=1}^I ER_i = \sum_{i=1}^I \frac{S_{av,i}(r, f_i)}{S_{lim}(f_i)}$$

Where  $S_{av,i}$  is the power density for the source  $I$  operating at a frequency  $f_i$  and  $S_{lim}$  is the power density limit as specified by the relevant standard.

Exposure from transmitters operating above and below 6GHz, where 6GHz denotes the transmission frequency where the basic restrictions change from being defined in terms of SAR to being defined in terms of power density, therefore uncorrelated and the TER is determined as

$$TER^{uncorr}(r) = \sum_{i=1}^I ER_i = \sum_{i=1}^I \frac{S_{av,i}(r, f_i)}{S_{lim}(f_i)}$$

According to the FCC guidance in TCBC workshop and IEC TR 63170, the total exposure ratio calculated by taking ratio of maximum reported SAR divided by SAR limit and adding it to maximum measured power density by its limit. Numerical sum of the ratios should be less or equal to 1. Therefore the simultaneous transmission should be follows:

$$TER = \sum_{n=1}^N \frac{SAR_n}{SAR_{n,limit}} + \sum_{n=1}^N \frac{S_{m,avg}}{S_{m,limit}} < 1$$

## 10.1 Simultaneous Transmission Mode Considerations

| No. | Simultaneous Tx Combination | Body-worn | Hotspot | Specific |
|-----|-----------------------------|-----------|---------|----------|
| 1   | 2.4G WIFI + 6G WIFI         | Yes       | Yes     | Yes      |
| 2   | WWAN + 6G WIFI              | Yes       | Yes     | Yes      |
| 3   | WWAN + 2.4G WIFI + 6G WIFI  | Yes       | Yes     | Yes      |

Note:

1. For WLAN 6GHz doesn't support wireless router capability.

2. The WLAN6GHz Sim-Tx analysis guidance with other transmitters was based on SAR test results.

The simultaneous transmission and test exemption analysis were compliant with KDB 447498. For the Device does not support FR2 or other MPE field measurement, therefore in the SAR report has no TER analysis according to KDB 987594 requirement.

## 11 TEST EQUIPMENTS LIST

| Description                   | Manufacturer | Model        | Serial No./Version | Cal. Date  | Cal. Due   |
|-------------------------------|--------------|--------------|--------------------|------------|------------|
| PC                            | Dell         | N/A          | N/A                | N/A        | N/A        |
| Test System                   | Speag        | DASY8 mmWave | V2.4.0.44          | N/A        | N/A        |
| Verification Source           | Speag        | 10GHz        | SN: 2010           | 2024/06/19 | 2025/06/18 |
| Data Acquisition Electronicsr | Speag        | DAE4         | SN: 1711           | 2024/03/18 | 2025/03/17 |
| EUmmW Probe                   | Speag        | EUmmWV4      | SN: 9607           | 2024/02/12 | 2025/02/11 |
| Signal Generator              | R&S          | SMB100A      | 177746             | 2024/04/24 | 2025/04/23 |
| Power Meter                   | R&S          | NRVD-B2      | 835843/014         | 2024/08/08 | 2025/08/07 |
| Power Sensor                  | R&S          | NRV-Z4       | 100381             | 2024/08/08 | 2025/08/07 |
| Power Sensor                  | R&S          | NRV-Z2       | 100211             | 2024/08/08 | 2025/08/07 |
| Thermometer                   | Elitech      | RC-4HC       | EF7239002652       | 2024/09/14 | 2025/09/13 |
| Power Amplifier               | SATIMO       | 6552B        | 22374              | N/A        | N/A        |

## ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The system was verified to be within  $\pm 0.66$  dB of the power density targets on the calibration certificate according to the test system specification in the users manual and calibration facility recommendation.

| Date                                                                                                                                     | Freq.<br>(GHz) | Meas. Forward<br>Power<br>(dBm) | Measured<br>PD 4 cm <sup>2</sup><br>(W/m <sup>2</sup> ) | Normalized<br>PD 4 cm <sup>2</sup><br>(W/m <sup>2</sup> ) | Target Forward<br>PD 4 cm <sup>2</sup><br>(W/m <sup>2</sup> ) | Deviation<br>(dB) |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------|---------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------|-------------------|
| 2024.11.22                                                                                                                               | 10             | 21.5                            | 177                                                     | 198.6                                                     | 183.00                                                        | 0.36              |
| 2024.11.23                                                                                                                               | 10             | 21.5                            | 182                                                     | 204.2                                                     | 183.00                                                        | 0.48              |
| 2024.11.24                                                                                                                               | 10             | 21.5                            | 179                                                     | 200.8                                                     | 183.00                                                        | 0.40              |
| Note1: The tolerance limit of System validation $\pm 0.66$ dB.                                                                           |                |                                 |                                                         |                                                           |                                                               |                   |
| Note2: According the verification source 10GHz calibration report the target forward power is 22.00dBm.                                  |                |                                 |                                                         |                                                           |                                                               |                   |
| Note3: Normalized PD 4 cm <sup>2</sup> = Measured PD 4 cm <sup>2</sup> *10 <sup>^(0.1*(Target Forward power- Meas. Forward Power))</sup> |                |                                 |                                                         |                                                           |                                                               |                   |

System Performance Check Data (10GHz)

Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Frequency [MHz],<br>Channel Number | Conversion Factor |
|-----------------|------------------------------|------------------------------------|-------------------|
| 5G Air          | Front,<br>10.00              | 10000.0Validation band,<br>10000   | 1.0               |

Hardware Setup

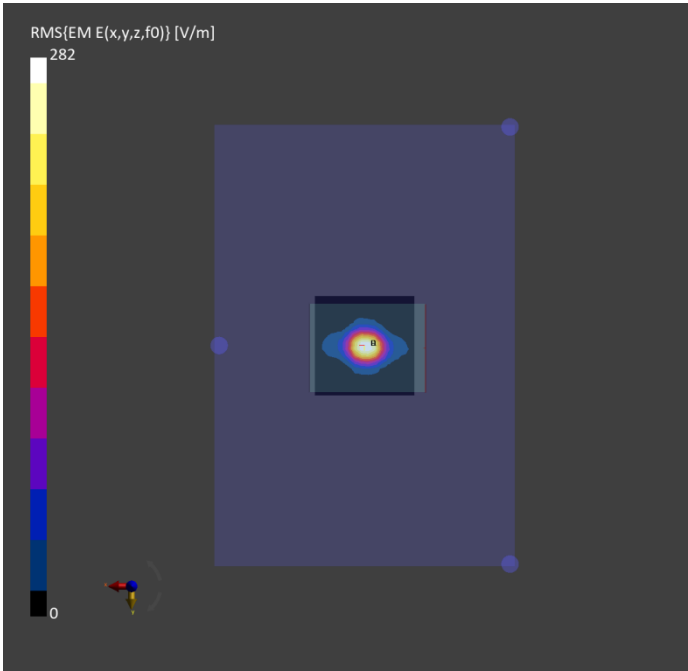
| Phantom      | Medium | Probe, Calibration Date               | DAE, Calibration Date   |
|--------------|--------|---------------------------------------|-------------------------|
| mmWave- 1083 | ---Air | EUmmWV4 - SN9607_F1-55GHz, 2024-02-12 | DAE4 Sn1711, 2024-03-18 |

Scan Setup

|                     | 5G Scan     |
|---------------------|-------------|
| Grid Extents [mm]   | 25.0 x 25.0 |
| Grid Steps [lambda] | 0.25 x 0.25 |
| Sensor Surface [mm] | 10.0        |
| MAIA                | N/A         |

Measurement Results

|                        | 5G Scan    |
|------------------------|------------|
| Date                   | 2024-11-22 |
| Avg. Area [cm²]        | 4.00       |
| psPDn+ [W/m²]          | 173        |
| psPDtot+ [W/m²]        | 177        |
| psPDmod+ [W/m²]        | 181        |
| E <sub>max</sub> [V/m] | 282        |
| Power Drift [dB]       | -0.02      |



System Performance Check Data (10GHz)

Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Frequency [MHz],<br>Channel Number | Conversion Factor |
|-----------------|------------------------------|------------------------------------|-------------------|
| 5G Air          | Front,<br>10.00              | 10000.0Validation band,<br>10000   | 1.0               |

Hardware Setup

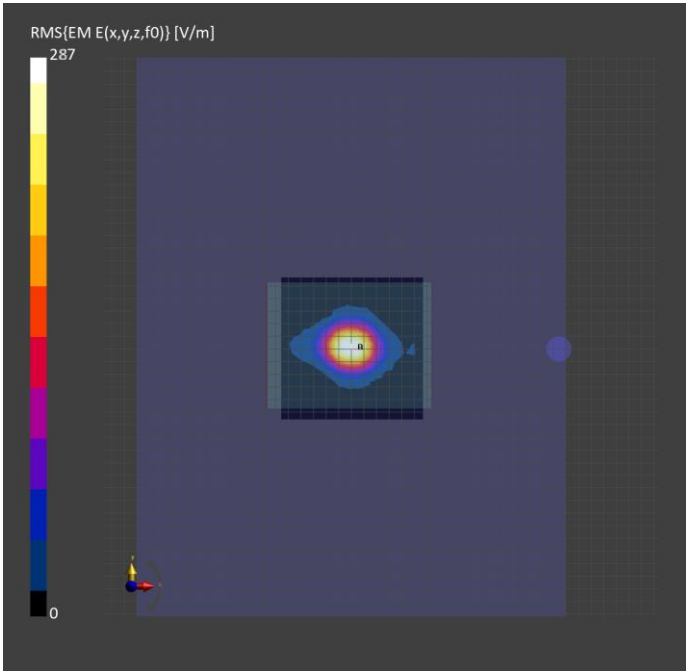
| Phantom      | Medium | Probe, Calibration Date               | DAE, Calibration Date   |
|--------------|--------|---------------------------------------|-------------------------|
| mmWave- 1083 | ---Air | EUmmWV4 - SN9607_F1-55GHz, 2024-02-12 | DAE4 Sn1711, 2024-03-18 |

Scan Setup

|                     | 5G Scan     |
|---------------------|-------------|
| Grid Extents [mm]   | 25.0 x 25.0 |
| Grid Steps [lambda] | 0.25 x 0.25 |
| Sensor Surface [mm] | 10.0        |
| MAIA                | N/A         |

Measurement Results

|                        | 5G Scan    |
|------------------------|------------|
| Date                   | 2024-11-23 |
| Avg. Area [cm²]        | 4.00       |
| psPDn+ [W/m²]          | 179        |
| psPDtot+ [W/m²]        | 182        |
| psPDmod+ [W/m²]        | 186        |
| E <sub>max</sub> [V/m] | 287        |
| Power Drift [dB]       | 0.07       |



System Performance Check Data (10GHz)

Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Frequency [MHz],<br>Channel Number | Conversion Factor |
|-----------------|------------------------------|------------------------------------|-------------------|
| 5G Air          | Front,<br>10.00              | 10000.0Validation band,<br>10000   | 1.0               |

Hardware Setup

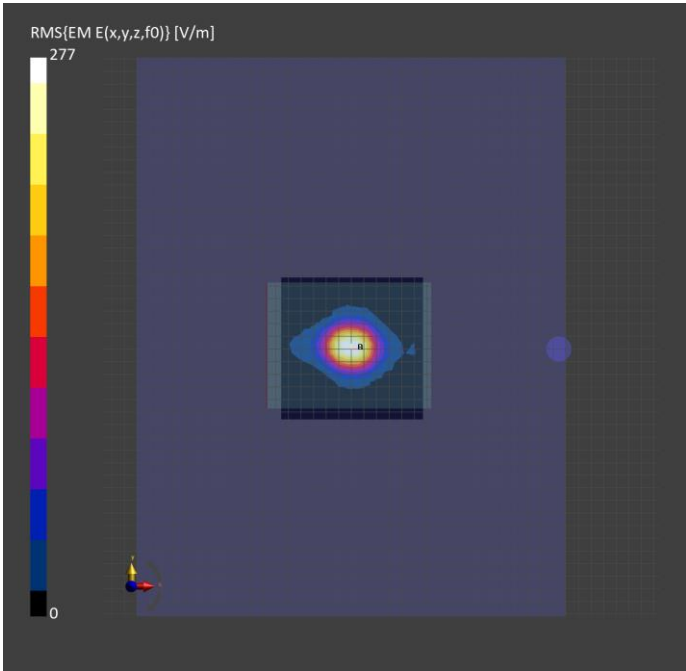
| Phantom      | Medium | Probe, Calibration Date               | DAE, Calibration Date   |
|--------------|--------|---------------------------------------|-------------------------|
| mmWave- 1083 | ---Air | EUmmWV4 - SN9607_F1-55GHz, 2024-02-12 | DAE4 Sn1711, 2024-03-18 |

Scan Setup

|                     | 5G Scan     |
|---------------------|-------------|
| Grid Extents [mm]   | 25.0 x 25.0 |
| Grid Steps [lambda] | 0.25 x 0.25 |
| Sensor Surface [mm] | 10.0        |
| MAIA                | N/A         |

Measurement Results

|                        | 5G Scan    |
|------------------------|------------|
| Date                   | 2024-11-24 |
| Avg. Area [cm²]        | 4.00       |
| psPDn+ [W/m²]          | 171        |
| psPDtot+ [W/m²]        | 179        |
| psPDmod+ [W/m²]        | 182        |
| E <sub>max</sub> [V/m] | 277        |
| Power Drift [dB]       | -0.01      |



ANNEX B POWER DENSITY TEST DATA

Meas.1 Body Plane with Top Edge 2mm on 15 Channel in IEEE802.11ax160 mode with Antenna 9

Exposure Conditions

| Phantom Section | Position, Distance [mm] | Test Band | Group, UID      | Frequency [MHz], Channel Number | Conversion Factor | Ambient temperature[°C] |
|-----------------|-------------------------|-----------|-----------------|---------------------------------|-------------------|-------------------------|
| 5G Air          | EDGE TOP, 2.00          | U-NII-5   | WLAN, 10755-AAC | 6025.0, 15                      | 1.0               | 22.5                    |

Hardware Setup

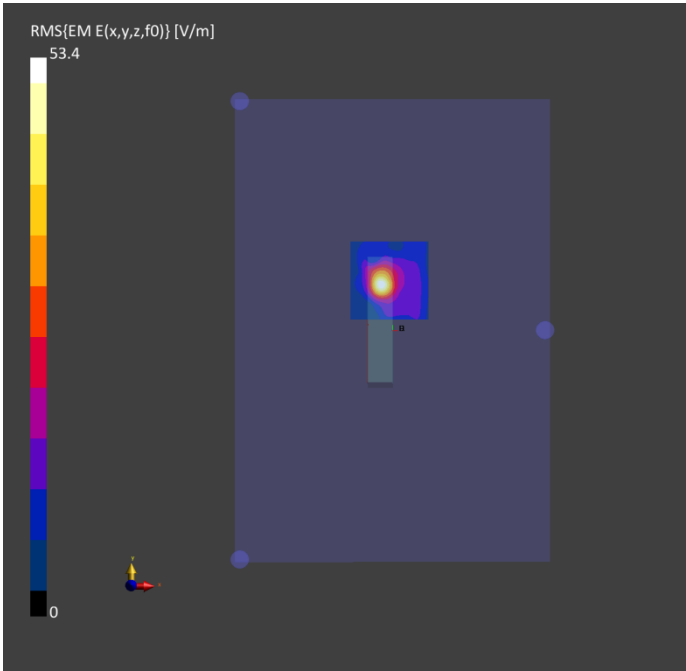
| Phantom      | Medium | Probe, Calibration Date               | DAE, Calibration Date   |
|--------------|--------|---------------------------------------|-------------------------|
| mmWave- 1083 | Air--- | EUmmWV4 - SN9607_F1-55GHz, 2024-02-12 | DAE4 Sn1711, 2024-03-18 |

Scan Setup

|                     | 5G Scan         |
|---------------------|-----------------|
| Grid Extents [mm]   | 80.0 x 80.0     |
| Grid Steps [lambda] | 0.0625 x 0.0625 |
| Sensor Surface [mm] | 2.0             |
| MAIA                | N/A             |

Measurement Results

|                        | 5G Scan    |
|------------------------|------------|
| Date                   | 2024-11-22 |
| Avg. Area [cm²]        | 4.00       |
| psPDn+ [W/m²]          | 3.12       |
| psPDtot+ [W/m²]        | 3.53       |
| psPDmod+ [W/m²]        | 4.10       |
| E <sub>max</sub> [V/m] | 53.4       |
| Power Drift [dB]       | -0.12      |



Meas.2 Body Plane with Bottom Edge 2mm on 15 Channel in IEEE802.11ax160 mode with Antenna 10

Exposure Conditions

| Phantom Section | Position, Distance [mm] | Test Band | Group, UID      | Frequency [MHz], Channel Number | Conversion Factor | Ambient temperature[°C] |
|-----------------|-------------------------|-----------|-----------------|---------------------------------|-------------------|-------------------------|
| 5G Air          | EDGE BOTTOM, 2.00       | U-NII-5   | WLAN, 10755-AAC | 6025.0, 15                      | 1.0               | 22.5                    |

Hardware Setup

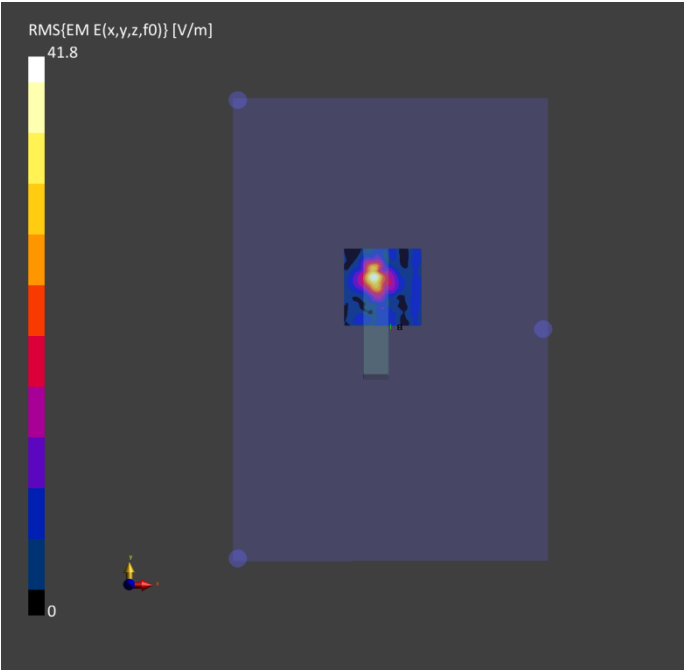
| Phantom      | Medium | Probe, Calibration Date               | DAE, Calibration Date   |
|--------------|--------|---------------------------------------|-------------------------|
| mmWave- 1083 | Air--- | EUmmWV4 - SN9607_F1-55GHz, 2024-02-12 | DAE4 Sn1711, 2024-03-18 |

Scan Setup

|                     | 5G Scan         |
|---------------------|-----------------|
| Grid Extents [mm]   | 80.0 x 80.0     |
| Grid Steps [lambda] | 0.0625 x 0.0625 |
| Sensor Surface [mm] | 2.0             |
| MAIA                | N/A             |

Measurement Results

|                        | 5G Scan    |
|------------------------|------------|
| Date                   | 2024-11-23 |
| Avg. Area [cm²]        | 4.00       |
| psPDn+ [W/m²]          | 1.11       |
| psPDtot+ [W/m²]        | 1.76       |
| psPDmod+ [W/m²]        | 2.18       |
| E <sub>max</sub> [V/m] | 41.8       |
| Power Drift [dB]       | 0.00       |



Meas.3 Body Plane with Top Edge 2mm on 15 Channel in IEEE802.11ax160 mode with Antenna MIMO

Exposure Conditions

| Phantom Section | Position, Distance [mm] | Test Band | Group, UID      | Frequency [MHz], Channel Number | Conversion Factor | Ambient temperature[°C] |
|-----------------|-------------------------|-----------|-----------------|---------------------------------|-------------------|-------------------------|
| 5G Air          | EDGE TOP, 2.00          | U-NII-5   | WLAN, 10755-AAC | 6025.0, 15                      | 1.0               | 22.5                    |

Hardware Setup

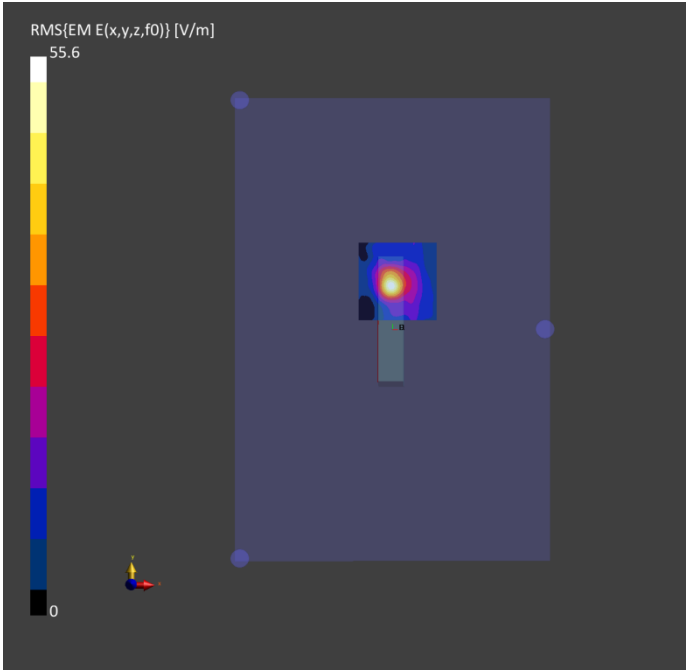
| Phantom      | Medium | Probe, Calibration Date               | DAE, Calibration Date   |
|--------------|--------|---------------------------------------|-------------------------|
| mmWave- 1083 | Air--- | EUmmWV4 - SN9607_F1-55GHz, 2024-02-12 | DAE4 Sn1711, 2024-03-18 |

Scan Setup

|                     | 5G Scan         |
|---------------------|-----------------|
| Grid Extents [mm]   | 80.0 x 80.0     |
| Grid Steps [lambda] | 0.0625 x 0.0625 |
| Sensor Surface [mm] | 2.0             |
| MAIA                | N/A             |

Measurement Results

|                        | 5G Scan    |
|------------------------|------------|
| Date                   | 2024-11-24 |
| Avg. Area [cm²]        | 4.00       |
| psPDn+ [W/m²]          | 3.28       |
| psPDtot+ [W/m²]        | 3.68       |
| psPDmod+ [W/m²]        | 4.24       |
| E <sub>max</sub> [V/m] | 55.6       |
| Power Drift [dB]       | -0.10      |



## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SH2480613-AW.pdf”.

## **ANNEX D POWER DENSITY TEST SETUP PHOTOS**

Please refer the document “BL-SH2480613-AS-2.pdf”.

## **ANNEX E POWER DENSITY CALIBRATION REPORT**

Please refer the document “BL-SH2480613-AC-2.pdf”.

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