

FCC 47 CFR § 2.1093 IEC/IEEE Std 62209-1528 : 2020 IEC TR 63170 : 2018

RF EVALUATION REPORT (Above 6GHz)

FOR

GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC, WPT and UWB

MODEL NUMBER: SM-F946D, SM-F946J

FCC ID: A3LSMF946JPN

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Prepared for

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TL-637

Revision History

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1. Attestation of Test Results

| Applicant Name | | SAMSUNG ELECTRONICS CO.,LTD. | | | | | | |
|--|----------------------|---|---|------|---|---------------------------------|------|--|
| FCC ID | | A3LSMF946U | | | | | | |
| Model Number | | SM- F946U, SM-F946U1 | | | | | | |
| Applicable Standards | | FCC 47 CFR § 2.1093 IEC/IEEE Std 62209-1528 : 2020 IEC TR 63170 : 2018 Published RF exposure KDB procedures | | | | | | |
| | | SAR Limits (W/Kg) | | | Power Density Limits (mW/cm² over 4cm²) | | | |
| Exposure Cate | Exposure Category | | Peak spatial-average Product Specific 10g (10g of tissue) | | APD (Absorbed Power Density) | IPD (Incident Power Density) | | |
| General population / Uncontrolled exposure | | 1.6 | 4.0 | | N/A | 1.0 | | |
| | | Equipment Class | | | | | | |
| RF Exposure C | conditions | The Highest Reported S. (W/kg) | | API | O (mW/cm²) | IPD (mW/cm²) | | |
| | | 6CD | UWB | 6CD | UWB | 6CD | UWB | |
| Phablet-Head | | <0.1 | N/A | <0.1 | N/A | | | |
| Phablet-Body-v | vorn & Hotspot | 0.30 | N/A | 0.16 | N/A | 0.59 | 0.02 | |
| Phablet-Produc | t Specific 10g | 0.16 | <0.1 | 0.32 | <0.1 | | | |
| UMPC Mini Tal | olet-Body | 0.20 | N/A | 0.11 | N/A | 0.22 | 0.02 | |
| UMPC Mini Tal | olet-Extremity 10g | 0.21 | <0.1 | 0.41 | <0.1 | 0.22 | 0.02 | |
| Simultaneous | Head | 1.39 | N/A | | | | | |
| TX of | Body-worn & Hotspot | 1.00 | N/A | | | | | |
| Phablet & | Product Specific 10g | 0.16 | 0.16 | | | | | |
| UMPC Mini | Body | 1.09 | N/A | | | | | |
| Tablet | Extremity 10g | 3.52 | 3.52 | | | | | |
| Date Tested | | 5/30/2023 to 6/30/2023 | | | | | | |
| Test Results | Test Results | | Pass | | | | | |

UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

| Approved & Released By: | Prepared By: |
|---------------------------------|---------------------------------|
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| Justin Park | Seungyeon Kim |
| Operations Leader | Laboratory Engineer |
| UL Korea, Ltd. Suwon Laboratory | UL Korea, Ltd. Suwon Laboratory |

2. Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE Std 1528-2013, IEC TR 63170-2018, IEC 62479:2010, IEC/IEEE 63195-1:2022 the following FCC Published RF exposure KDB procedures:

- 248227 D01 802.11 Wi-Fi SAR v02r02
- o 447498 D01 General RF Exposure Guidance v06
- 648474 D04 Handset SAR v01r03
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 941225 D07 UMPC Mini Tablet v01r02

In addition to the above, the following information was used:

- o TCB workshop April, 2021; RF Exposure Policies (U-NII 6-7 GHz Interim Procedures)
- PEAG, 5G Module Application Note: 5G Compliance Testing
- SPEAG DASY6 Application Note: Interim Procedures for Devices Operating at 6 10 GHz

3. Facilities and Accreditation

The test sites and measurement facilities used to collect data are located at

| Suwon |
|------------|
| SAR 1 Room |
| SAR 6 Room |
| SAR 8 Room |
| SAR 9 Room |

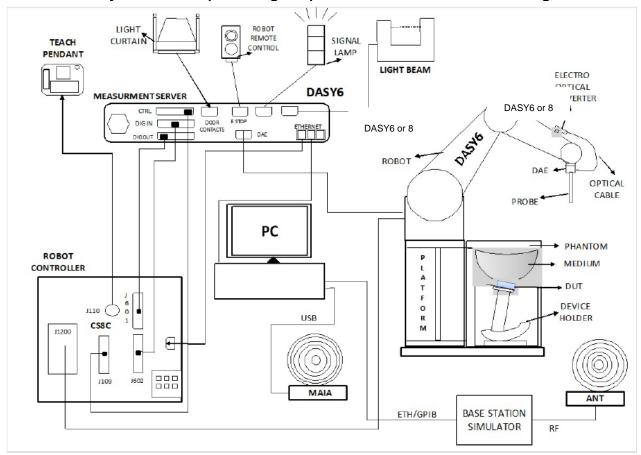
UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637.

The full scope of accreditation can be viewed at https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf.

4. SAR and Power Density Measurement System & Test Equipment

4.1. SAR Measurement System

The DASY6 & 8 system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, ADconversion, 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.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win10 and the DASY6 or 8 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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4.1.1. SAR Scan Procedures

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 2.1 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEC/IEEE Standard 62209-1528, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan). If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly.

Area Scan Parameters extracted from IEC/IEEE Standard 62209-1528.

| Barranatan | DUT transmit frequency being tested | | | |
|---|---|---|--|--|
| Parameter | <i>f</i> ≤ 3 GHz | 3 GHz < <i>f</i> ≤ 10 GHz | | |
| Maximum distance between the measured points (geometric centre of the sensors) and the inner phantom surface ($z_{\rm M1}$ in Figure 20 in mm) | 5 ± 1 | δ In(2)/2 ± 0,5 ^a | | |
| Maximum spacing between adjacent measured points in mm (see O.8.3.1) ^b | 20, or half of the corresponding zoom scan length, whichever is smaller | 60/f, or half of the corresponding zoom scan length, whichever is smaller | | |
| Maximum angle between the probe axis and the phantom surface normal $(\alpha \text{ in Figure 20})^c$ | 5° (flat phantom only) 30° (other phantoms) | 5° (flat phantom only) 20° (other phantoms) | | |
| Tolerance in the probe angle | 1° | 1° | | |

 $^{^{}m a}$ $^{
m c}$ is the penetration depth for a plane-wave incident normally on a planar half-space.

b See Clause O.8 on how Δx and Δy may be selected for individual area scan requirements.

The probe angle relative to the phantom surface normal is restricted due to the degradation in the measurement accuracy in fields with steep spatial gradients. The measurement accuracy decreases with increasing probe angle and increasing frequency. This is the reason for the tighter probe angle restriction at frequencies above 3 GHz.

Step 3: Zoom Scan

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The Zoom Scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1 g and 10 g and displays these values next to the job's label.

Zoom Scan Parameters extracted from IEC/IEEE Standard 62209-1528.

| Darameter | DUT transmit frequency being tested | | |
|--|--|--|--|
| Parameter | <i>f</i> ≤ 3 GHz | 3 GHz < <i>f</i> ≤ 10 GHz | |
| Maximum distance between the closest measured points and the phantom surface ($z_{\rm M1}$ in Figure 20 and Table 3, in mm) | 5 | δ ln(2)/2 ^a | |
| Maximum angle between the probe axis and the phantom surface normal (α in Figure 20) | 5° (flat phantom only) 30° (other phantoms) | 5° (flat phantom only) 20° (other phantoms) | |
| Maximum spacing between measured points in the x - and y -directions (Δx and Δy , in mm) | 8 | 24/f ^b | |
| For uniform grids: Maximum spacing between measured points in the direction normal to the phantom shell $(\Delta z_1$ in Figure 20, in mm) | 5 | 10/(f - 1) | |
| For graded grids: Maximum spacing between the two closest measured points in the direction normal to the phantom shell (Δz_1 in Figure 20, in mm) | 4 | 12 <i>lf</i> | |
| For graded grids: Maximum incremental increase in the spacing between measured points in the direction normal to the phantom shell $(R_z = \Delta z_2/\Delta z_1)$ in Figure 20) | 1,5 | 1,5 | |
| Minimum edge length of the zoom scan volume in the x - and y -directions (L_z in O.8.3.2, in mm) | 30 | 22 | |
| Minimum edge length of the zoom scan volume in the direction normal to the phantom shell $(L_{\rm h}$ in O.8.3.2 in mm) | 30 | 22 | |
| Tolerance in the probe angle | 1° | 1° | |
| | <u> </u> | | |

S is the penetration depth for a plane-wave incident normally on a planar half-space.

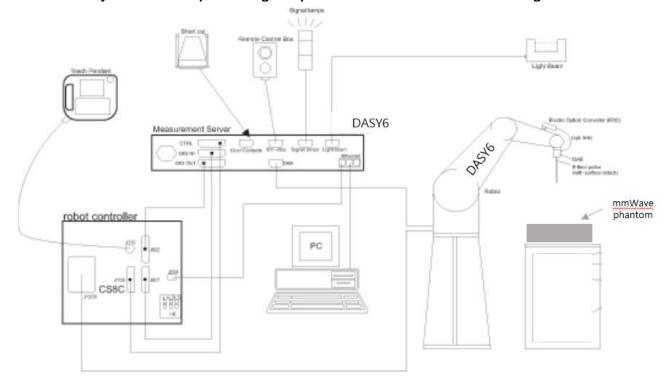
Step 4: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

This is the maximum spacing allowed, which might not work for all circumstances.

4.2. Incident Power Density Measurement System

The DASY6 & 8 system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- The EUmmWVx probe is based on the pseudo-vector probe design, which not only measures the field magnitude but also derives its polarization ellipse.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, ADconversion, 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.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win10 and the DASY6 or 8 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom which is specialized for 5G other accessories according to the targeted measurement.

4.2.1. Power Density Scan Procedures

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to devise under test.

Step 2: 5G Scan

The steps in the X, Y, and Z directions are specified in terms of fractions of the signal wavelength ,lambda. Area Scan Parameters extracted from SPEAG, 5G Module V1.2 Application Note.

Recommended settings for measurement of verification sources

| Frequency [GHz] | Grid step | Grid extent X/Y [mm] | Measurement points |
|-----------------|--|----------------------|--------------------|
| 10 | $0.125 \left(\frac{\lambda}{8}\right)$ | 60/60 | 18 × 18 |
| 30 | $0.25 \left(\frac{\lambda}{4}\right)$ | 60/60 | 26×26 |
| 45 | $0.25 \left(\frac{\lambda}{4}\right)$ | 42/42 | 28 × 28 |
| 60 | $0.25 \left(\frac{\lambda}{4}\right)$ | 32.5/32.5 | 28 × 28 |
| 90 | $0.25 \left(\frac{\lambda}{4}\right)$ | 30/30 | 38 × 38 |

The minimum distance of probe sensors to verification source surface, horn antenna, is 10 mm.

Per equipment manufacturer guidance for 6-10GHz, Power density was measured at d=2mm and d= λ /5mm using same grid size and grid step size for some frequencies and surfaces. The integrated power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is < 1dB, the grid step was sufficient for determining compliance at d=2mm.

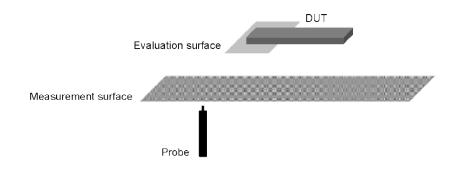
Step 3: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1. When the drift is larger than \pm 5 %, test is repeated from step1.

4.2.2. Total Field and Power Flux Density Reconstruction(measurement distance)

Reconstruction algorithms are used to project or transform the measured fields from the measurement surface to the evaluation surface (below fig) in order to determine power density or to compute spatial-average and/or local power density with known uncertainty.

Manufacture has 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 EUmmWVx 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- and H-fields, as well as of the power density, on measurement planes.



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Doc. No.: 1.0(04)

4.3. Test Equipment

The measuring equipment used to perform the tests documented in this report has been calibrated in accordance with the manufacturers' recommendations, and is traceable to recognized national standards.

4.3.1. SAR Test Equipment

Dielectric Property Measurements

| Name of Equipment | Manufacturer | Type/Model | Serial No. | Cal. Due Date |
|---------------------------|-----------------|---------------|---------------|---------------|
| Network Analyzer | ROHDE & SCHWARZ | ZNB 20 | 102256 | 8-5-2023 |
| Dielectric Assessment Kit | SPEAG | DAK-3.5 | 1196 | 7-25-2023 |
| Shorting block | SPEAG | DAK-3.5 Short | SM DAK 200 BA | N/A |
| Thermometer | LKM | DTM3000 | 3851 | 8-3-2023 |
| Thermometer | LKM | DTM3000 | 3862 | 8-3-2023 |

System Check

| System Check | | | | |
|------------------------------|------------------------|-------------------------------|------------|---------------|
| Name of Equipment | Manufacturer | Type/Model | Serial No. | Cal. Due Date |
| MXG Analog Signal Generator | Keysight | N5181B | MY59100587 | 8-4-2023 |
| Power Sensor | KEYSIGHT | U2000A | MY60180020 | 8-3-2023 |
| Power Sensor | KEYSIGHT | U2000A | MY61010006 | 8-3-2023 |
| Power Amplifier | EXODUS | AMP2027ADB | 10002 | 1-6-2024 |
| Directional Coupler | KRYTAR | 100318010 | 215542 | 1-5-2024 |
| Low Pass Filter | Wainwright Instruments | WLKX10-11000-13640-21000-60TS | 1 | 8-2-2023 |
| Attenuator | KEYSIGHT | 8491B/010 | MY39272011 | 8-2-2023 |
| Attenuator | KEYSIGHT | 8491B/020 | MY39272300 | 8-2-2023 |
| Attenuator | MINI-CIRCUITS | BW-S3W10+ | N/A | 1-6-2024 |
| E-Field Probe | SPEAG | EX3DV4 | 7376 | 7-27-2023 |
| E-Field Probe | SPEAG | EX3DV4 | 7545 | 8-19-2023 |
| Data Acquisition Electronics | SPEAG | DAE4 | 1494 | 7-18-2023 |
| Data Acquisition Electronics | SPEAG | DAE4 | 1668 | 4-26-2024 |
| System Validation Dipole | SPEAG | D6.5GHz | 1010 | 5-27-2024 |
| System Validation Dipole | SPEAG | D8GHzV2 | 1012 | 11-1-2023 |
| Thermometer | Lutron | MHB-382SD | AJ.42446 | 8-9-2023 |
| Thermometer | Lutron | MHB-382SD | AK.12102 | 8-9-2023 |
| Thermometer | Lutron | MHB-382SD | AK.12103 | 8-9-2023 |
| | | | | |

Note(s):

- 1. For System Validation Dipole, Calibration interval applied every 2 years according to referencing KDB 865664 guidance.
- 2. Refer to Appendix F that mentioned about justification for Extended SAR Dipole Calibrations. (for blue box items)
- 3. All equipments were used until Cal. Due date.

4.3.2 Incident Power Density Test Equipment

System Check

| Cystem Check | | | | |
|------------------------------|------------------------|-------------------------------|------------|---------------|
| Name of Equipment | Manufacturer | Type/Model | Serial No. | Cal. Due Date |
| MXG Analog Signal Generator | Keysight | N5181B | MY59100587 | 8/4/2023 |
| Power Sensor | KEYSIGHT | U2000A | MY60180020 | 8/3/2023 |
| Power Sensor | KEYSIGHT | U2000A | MY61010006 | 8/3/2023 |
| Power Amplifier | EXODUS | AMP2027ADB | 10002 | 1/6/2024 |
| Directional Coupler | KRYTAR | 100318010 | 215542 | 1/5/2024 |
| Low Pass Filter | Wainwright Instruments | WLKX10-11000-13640-21000-60TS | 1 | 8/2/2023 |
| Attenuator | KEYSIGHT | 8491B/010 | MY39272011 | 8/2/2023 |
| Attenuator | KEYSIGHT | 8491B/020 | MY39272300 | 8/2/2023 |
| Attenuator | MINI-CIRCUITS | BW-S3W10+ | N/A | 1/6/2024 |
| 5G probe | SPEAG | EummWV4 | 9559 | 2-16-2024 |
| 5G probe | SPEAG | EummWV4 | 9536 | 2/16/2024 |
| Data Acquisition Electronics | SPEAG | DAE4 | 1670 | 5-23-2024 |
| Data Acquisition Electronics | SPEAG | DAE4 | 1468 | 8-18-2023 |
| Verification kit | SPEAG | 5G verification source_10GHz | 1022 | 2/20/2024 |
| Thermometer | Lutron | MHB-382SD | AK.12102 | 8/9/2023 |
| | | | | |

Note(s):

1. All equipments were used until Cal. Due date.

5. Measurement Uncertainty

5.1. SAR Measurement Uncertainty

Measurement uncertainty for 6 GHz to 10 GHz

(According to IEEE 62209-1528)

| а | b | (| c | d | e f(d,k) | f | g | h = cxf/e | l= cxg/e | k |
|---|----------------|------------------|-------------------|----------------|-------------|--------------------|---------------------|---------------------------|----------------------------|--------------|
| Uncertainty component | Reference | Tol. 1 g (±%) | Tol. 10 g (±%) | Prob. Dist. | Div. | <i>ci</i> (1 g) | <i>ci</i> (10 g) | 1 g <i>ui</i> (± %) | 10 g <i>ui</i> (± %) | vi |
| Measurement System Errors | | | | | | | | | | |
| Probe Calibration | 8.4.1.1 | 18 | 3.6 | Normal | 2 | 1 | 1 | 9.3 | 9.3 | o |
| Probe Calibration Drift | 8.4.1.2 | 1 | .7 | Rectangular | 1.732 | 1 | 1 | 1.0 | 1.0 | ∞ |
| Probe Linearity | 8.4.1.3 | 4 | .7 | Rectangular | 1.732 | 1 | 1 | 2.7 | 2.7 | _∞ |
| Broadband Signal | 8.4.1.4 | 2 | .8 | Rectangular | 1.732 | 1 | 1 | 1.6 | 1.6 | _∞ |
| Probe Isotropy | 8.4.1.5 | 7 | .6 | Rectangular | 1.732 | 1 | 1 | 4.4 | 4.4 | _∞ |
| Data Acquisition | 8.4.1.6 | 0 | .3 | Normal | 1 | 1 | 1 | 0.3 | 0.3 | oo |
| RF Ambient | 8.4.1.7 | 1 | .8 | Normal | 1 | 1 | 1 | 1.8 | 1.8 | ∞ |
| Probe Positioning | 8.4.1.8 | 0.0 | 005 | Normal | 1 | 0.50 | 0.50 | 0.25 | 0.25 | ∞ |
| Data Processing | 8.4.1.9 | 3 | .5 | Normal | 1 | 1 | 1 | 3.5 | 3.5 | ∞ |
| Phantom and Device Errors | | | | | | | | | | |
| Conductivity (meas.)DAK | 8.4.2.1 | 2 | .5 | Normal | 1 | 0.78 | 0.71 | 2.0 | 1.8 | ∞ |
| Conductivity (temp.)BB | 8.4.2.2 | 2 | .4 | Rectangular | 1.732 | 0.78 | 0.71 | 1.1 | 1.0 | ∞ |
| Phantom Permittivity | 8.4.2.3 | 14 | 1.0 | Rectangular | 1.732 | 0 | 0 | 0.0 | 0.0 | ∞ |
| Distance DUT -TSL | 8.4.2.4 | 2 | .0 | Normal | 1 | 2 | 2 | 4.0 | 4.0 | ∞ |
| Device Positioning | 8.4.2.5 | 3.1 | 4.2 | Normal | 1 | 1 | 1 | 3.1 | 4.2 | 50 |
| Device Holder | 8.4.2.6 | 3 | .6 | Normal | 1 | 1 | 1 | 3.6 | 3.6 | _∞ |
| DUT Modulation | 8.4.2.7 | 2 | .4 | Rectangular | 1.732 | 1 | 1 | 1.4 | 1.4 | _∞ |
| Time-average SAR | 8.4.2.8 | 1 | .7 | Rectangular | 1.732 | 1 | 1 | 1.0 | 1.0 | _∞ |
| DUT drift | 8.4.2.9 | 5 | .0 | Normal | 1 | 1 | 1 | 5.0 | 5.0 | _∞ |
| Correction to the SAR results | | | | | | | • | • | | |
| Deviation to Target | 8.4.3.1 | 1 | .9 | Normal | 1 | 1 | 0.84 | 1.9 | 1.6 | ∞ |
| Combined Standard Uncertainty Uc(y) = | | | | RSS | | | | 14.39 | 14.61 | |
| Expanded Uncertainty U, Coverage Factor = | 2, > 95 % Conf | idence = | | | | | | 28.79 | 29.23 | |

5.1.1. Decision rule

Decision rule for statement(s) of conformity is based on Procedures 1, Clause 4.4.2 in IEC Guide 115:2007.

Incident Power Density Measurement Uncertainty 5.2.

| Measurement Uncertainty for cDASY6 Module mmWav | | | | | _ | | | | | |
|---|-------------------------------------|--------------|---------|------|-----------|----------|--|--|--|--|
| Error Description | Uncertainty | Probe Dist. | Divisor | (Ci) | Std. Unc. | (Vi) | | | | |
| ' | value (±dB) | 1 1000 51011 | Dillooi | (0.) | (±dB) | (*.) | | | | |
| Uncertainty terms dependent on the measurement sys | | | | | | | | | | |
| Calibration | 0.49 | Normal | 1 | 1 | 0.49 | Infinity | | | | |
| Probe correction | 0.00 | Rectangular | 1.73 | 1 | 0.00 | Infinity | | | | |
| Frequency response (BW =< 1 GHz) | 0.20 | Rectangular | 1.73 | 1 | 0.12 | Infinity | | | | |
| Sensor cross coupling | 0.00 | Rectangular | 1.73 | 1 | 0.00 | Infinity | | | | |
| Isotropy | 0.50 | Rectangular | 1.73 | 1 | 0.29 | Infinity | | | | |
| Linearity | 0.20 | Rectangular | 1.73 | 1 | 0.12 | Infinity | | | | |
| Probe scattering | 0.00 | Rectangular | 1.73 | 1 | 0.00 | Infinity | | | | |
| Probe positioning offset | 0.30 | Rectangular | 1.73 | 1 | 0.17 | Infinity | | | | |
| Probe positioning repeatability | 0.04 | Rectangular | 1.73 | 1 | 0.02 | Infinity | | | | |
| Sensor mechanical offset | 0.00 | Rectangular | 1.73 | 1 | 0.00 | Infinity | | | | |
| Probe spatial resolution | 0.00 | Rectangular | 1.73 | 1 | 0.00 | Infinity | | | | |
| Field impedance dependance | 0.00 | Rectangular | 1.73 | 1 | 0.00 | Infinity | | | | |
| Amplitude and phase drift | 0.00 | Rectangular | 1.73 | 1 | 0.00 | Infinity | | | | |
| Amplitude and phase noise | 0.04 | Rectangular | 1.73 | 1 | 0.02 | Infinity | | | | |
| Measurement area truncation | 0.10 | Rectangular | 1.73 | 1 | 0.06 | Infinity | | | | |
| Data acquisition | 0.03 | Normal | 1.00 | 1 | 0.03 | Infinity | | | | |
| Sampling | 0.00 | Rectangular | 1.73 | 1 | 0.00 | Infinity | | | | |
| Field reconstruction | 0.60 | Rectangular | 1.73 | 1 | 0.35 | Infinity | | | | |
| Forward transformation | 0.00 | Rectangular | 1.73 | 1 | 0.00 | Infinity | | | | |
| Power density scaling | - | Rectangular | 1.73 | 1 | - | Infinity | | | | |
| Spatial averaging | 0.10 | Rectangular | 1.73 | 1 | 0.06 | Infinity | | | | |
| System detection limit | 0.04 | Rectangular | 1.73 | 1 | 0.02 | Infinity | | | | |
| Uncertainty terms dependent on the DUT and environn | nental factors | | | | | • | | | | |
| Probe coupling with DUT | 0.00 | Rectangular | 1.73 | 1 | 0.00 | Infinity | | | | |
| Modulation response | 0.40 | Rectangular | 1.73 | 1 | 0.23 | Infinity | | | | |
| Integration time | 0.00 | Rectangular | 1.73 | 1 | 0.00 | Infinity | | | | |
| Response time | 0.00 | Rectangular | 1.73 | 1 | 0.00 | Infinity | | | | |
| Device holder influence | 0.10 | Rectangular | 1.73 | 1 | 0.06 | Infinity | | | | |
| DUT alignment | 0.00 | Rectangular | 1.73 | 1 | 0.00 | Infinity | | | | |
| RF ambient conditions | 0.04 | Rectangular | 1.73 | 1 | 0.02 | Infinity | | | | |
| Ambient reflections | 0.04 | Rectangular | 1.73 | 1 | 0.02 | Infinity | | | | |
| Immunity / secondary reception | 0.00 | Rectangular | 1.73 | 1 | 0.00 | Infinity | | | | |
| Drift of the DUT | 0.22 | Rectangular | 1.73 | 1 | 0.13 | Infinity | | | | |
| Combir | ned Std. Uncertainty | | | • | 0.76 | Infinity | | | | |
| | Expanded Standard Uncertainty (95%) | | | | | | | | | |

5.2.1. Decision rule

Decision rule for statement(s) of conformity is based on Procedures 2, Clause 4.4.3 in IEC Guide 115:2007.

6. Device Under Test (DUT) Information

6.1. DUT Description

| Device Dimension | Refer to Appe | ndix A. | | | | | | | | |
|-------------------------|---------------|---------------------------------------|-----------|--|--|--|--|--|--|--|
| Back Cover | ⊠ The Back (| The Back Cover is not removable. | | | | | | | | |
| Battery Options | | geable battery is not user accessible | | | | | | | | |
| Test Sample Information | No. | S/N | Notes | | | | | | | |
| | 1 | R3CW408VAHK | Conducted | | | | | | | |
| | 2 | 732bb529284c7ece | Conducted | | | | | | | |
| | 3 | 732bb528e24c7ece | Radiated | | | | | | | |
| | 4 | R3CW408V1GL | Radiated | | | | | | | |
| | 5 | R3CW408U11T | Radiated | | | | | | | |
| | 6 | R3CW408U1EX | Radiated | | | | | | | |

6.2. Wireless Technologies of UNII 6E

| Wireless technologies | Frequency bands | Operating mode | Duty Cycle used for SAR & PD testing |
|-------------------------------|---|--|--------------------------------------|
| Wi-Fi_UNII 6e (Above 6GHz) | UNII Band 5 (5925-6425 MHz) UNII Band 6 (6425-6525 MHz) UNII Band 7 (6525-6885 MHz) UNII Band 8 (6885-7125 MHz) | 802.11a 802.11ax (HE20) 802.11ax (HE40) 802.11ax (HE80) 802.11ax (HE160) | 99.7% (802.11ax (HE160)) |
| UWB | Ch.5 (6489.6 MHz) Ch.9 (7987.2 MHz) | Signal Configurations(0/1/3), PRF modes(BPRF/HPRF) | N/A |

Notes:

Duty cycle for Wi-Fi is referenced from the UNII report.

6.3. Nominal Output Power

| | | | | | | | | Inc | door AP (d | IBm) | | | | | | |
|--|----------------|------------|------------|-------------------------|------------------|------------|-----------------------|------------|------------|-------------------------|------------|------------|-----------------------|------------|------------|--------------------------|
| | | | Pmax | | | | | | | Pli | mit | | | | | |
| RF Air interface | Mode | | IIIIux | | DSI=0 (F/O Body) | | | DS | I=1 (F/C B | ody) | DS | I=2 (F/O H | ead) | DS | I=3 (F/C H | ad) |
| | | WLAN Ant.1 | WLAN Ant.2 | M IM O (Ant.1+Ant.2) | WLAN Ant.1 | WLAN Ant.2 | MIMO (Ant.1+Ant.2) | WLAN Ant.1 | WLAN Ant.2 | M IM O (Ant.1+Ant.2) | WLAN Ant.1 | WLAN Ant.2 | MIMO (Ant.1+Ant.2) | WLAN Ant.1 | WLAN Ant.2 | M IM O (Ant.1+ Ant.2) |
| | 802.11a | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| W.E. & O. I | 802.11ax HE20 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| (UNII - 5) | 802.11ax HE40 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| ` ′ | 802.11ax HE80 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11ax HE160 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11a | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11ax HE20 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| WIFI 6 GHz (UNII - 6) | 802.11ax HE40 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| . , | 802.11ax HE80 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11ax HE160 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11a | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11ax HE20 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11ax HE40 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| (01411-7) | 802.11ax HE80 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11ax HE160 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11a | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11ax HE20 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| WiFi 6 GHz | 802.11ax HE40 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| (01411 - 0) | 802.11ax HE80 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| WiFi 6 GHz (UNII - 6) WiFi 6 GHz (UNII - 7) | 802.11ax HE160 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |

| | | | | | | | | Sta | ndard AP | (dBm) | | | | | | |
|--------------------------|----------------|------------|------------|-----------------------|------------------|------------|-----------------------|------------|------------|-------------------------|------------|------------|-----------------------|------------|-----------------|-------------------------|
| | | | Pmax | | | Plimit | | | | | | | | | | |
| RF Air interface Mode | Mode | riiidx | | | DSI=0 (F/O Body) | | | DS | I=1 (F/C B | ody) | DS | I=2 (F/O H | ead) D | | SI=3 (F/C Head) | |
| | | WLAN Ant.1 | WLAN Ant.2 | MIMO (Ant.1+Ant.2) | WLAN Ant.1 | WLAN Ant.2 | MIMO (Ant.1+Ant.2) | WLAN Ant.1 | WLAN Ant.2 | M IM O (Ant.1+Ant.2) | WLAN Ant.1 | WLAN Ant.2 | MIMO (Ant.1+Ant.2) | WLAN Ant.1 | WLAN Ant.2 | M IM O (Ant.1+Ant.2) |
| | 802.11a | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11ax HE20 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| WiFi 6 GHz (UNII - 5) | 802.11ax HE40 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| (- ', | 802.11ax HE80 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11ax HE160 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11a | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11ax HE20 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| WiFi 6 GHz (UNII - 7) | 802.11ax HE40 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| (/ | 802.11ax HE80 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |
| | 802.11ax HE160 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 13.0 |

- Note(s):

 Only MIMO mode supports for UNII 6e Bands.

 This device has support Dual Client (6CD) in UNII 6-7GHz. So Indoor AP support to UNII 5 8, and Standard AP supports to UNII5, 7.

7. RF Exposure Conditions (Test Configurations)

Refer to Appendix A for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.

Forder Closed configuration

| Wireless | RF Exposure | A 4 | DUT-to-User | Test | Antenna-to- | SAR | NI-4- |
|--------------|-----------------|----------------|-------------|------------------|--------------|----------|-------|
| technologies | Conditions | Antena | Separation | Position | edge/surface | Required | Note |
| | | | | Left Touch | N/A | Yes | |
| | Head | | 0 mm | Left Tilt (15°) | N/A | Yes | |
| | пеац | | 0 111111 | Right Touch | N/A | Yes | |
| | | | | Right Tilt (15°) | N/A | Yes | |
| | Body-worn & | | 10 mm | Rear | N/A | Yes | |
| LINIII C- | UNII 6e Hotspot | WiFi 6G | 10 111111 | Front | N/A | Yes | |
| UNII 6e | | MIMO | | Rear | < 25 mm | Yes | |
| | | | | Front | < 25 mm | Yes | |
| | Product | | 0 | Тор | < 25 mm | Yes | |
| | Specific 10-g | | 0 mm | Left | < 25 mm | Yes | |
| | | | | Bottom | > 25 mm | No | 1 |
| | | | | Right | < 25 mm | Yes | |
| | | | | Rear | < 25 mm | Yes | |
| | | | | Front | < 25 mm | Yes | |
| | | Antenna 1 | 0 mm | Тор | < 25 mm | Yes | |
| | | (Metal Ant.) | 0111111 | Left | > 25 mm | No | 1 |
| | | | | Bottom | > 25 mm | No | 1 |
| UWB | Product | | | Right | < 25 mm | Yes | |
| I OWB | Specific 10-g | | | Rear | < 25 mm | Yes | |
| | | | | Front | < 25 mm | Yes | |
| | | Antenna 2 | 0 mm | Тор | < 25 mm | Yes | |
| | | (Patch Ant.) | """ | Left | > 25 mm | No | 1 |
| | | (1 (10117416.) | | Bottom | > 25 mm | No | 1 |
| | | | | Right | < 25 mm | Yes | |

Forder Opened configuration

| Wireless technologies | RF Exposure Conditions | Antena | DUT-to-User Separation | Test Position | Antenna-to- edge/surface | SAR Required | Note |
|--------------------------|---------------------------|--------------|---------------------------|-------------------|-----------------------------|-----------------|------|
| | | | | Rear | < 25 mm | Yes | |
| | | | | Front | < 25 mm | Yes | |
| | | | 10 mm | Тор | < 25 mm | Yes | |
| | | | 10 111111 | Left | < 25 mm | Yes | |
| | | | | Bottom | > 25 mm | No | 1 |
| | 5 | WiFi 6G | | Right | > 25 mm | No | 1 |
| UNII 6e | Body / Externity | MIMO | | Rear | < 25 mm | Yes | |
| | | | | Front | < 25 mm | Yes | |
| | | | | Тор | < 25 mm | Yes | |
| | | | 0 mm | 0 mm Left < 25 mm | < 25 mm | Yes | |
| | | | | Bottom | > 25 mm | No | 1 |
| | | | | Right | > 25 mm | No | 1 |
| | | | | Rear | < 25 mm | Yes | |
| | | | | Front | < 25 mm | Yes | |
| | | Antenna 1 | 0 mm | Тор | < 25 mm | Yes | |
| | | (Metal Ant.) | | Left | > 25 mm | No | 1 |
| | | | | Bottom | > 25 mm | No | 1 |
| UWB | Externity | | | Right | > 25 mm | No | 1 |
| OVVD | Laterinty | | | Rear | < 25 mm | Yes | |
| | | | | Front | < 25 mm | Yes | |
| | | Antenna 2 | 0 mm | Top | < 25 mm | Yes | |
| | | (Patch Ant.) | 0 111111 | Left | > 25 mm | No | 1 |
| | | (. 2 | | Bottom | > 25 mm | No | 1 |
| | | | <u> </u> | Right | > 25 mm | No | 1 |

Notes:

- SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hot Spot SAR.
- For Phablet devices: When hotspot mode applies, Product specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.
- For Phablet devices: When hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and edges with an antenna located at ≤ 25mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.
- Per manufacturer guide, UWB SAR was considered about only hand held condition (Extremity 10-g).

8. SAR System Check with Dielectric Property Measurements

8.1. Dielectric Property Measurements

The temperature of the tissue-equivalent medium used during measurement must also be within 18° C to 25° C and within $\pm 2^{\circ}$ C of the temperature when the tissue parameters are characterized.

The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after 1 days of use; for example, when the parameters are marginal at the beginning of the measurement series. Tissue dielectric parameters were measured at the low, middle and high frequency of each operating frequency range of the test device.

Tissue Dielectric Parameters

Refer to Table 2 within the IEC/IEEE Std 62209-1528: 2020

| Target Frequency (MHz) | Tissue parameters | | | | |
|----------------------------|-------------------|---------|--|--|--|
| raiget i requeitcy (Mi iz) | ε_{r} | ஏ (S/m) | | | |
| 5800 | 35.3 | 5.27 | | | |
| 6000 | 35.1 | 5.48 | | | |
| 6500 | 34.5 | 6.07 | | | |
| 7000 | 33.9 | 6.65 | | | |
| 7500 | 33.3 | 7.24 | | | |
| 8000 | 32.7 | 7.84 | | | |
| 8500 | 32.1 | 8.46 | | | |

Dielectric Property Measurements Results:

SAR 1 Room

| Date | Freq. (MHz) | | Lie | quid Parameters | Measured | Target | Delta (%) | Limit ±(%) |
|------------|-------------|----|---------|--|----------|--------|-----------|------------|
| | Head 6000 | e' | 35.8200 | Relative Permittivity (ε_r): | 35.82 | 35.10 | 2.05 | 5 |
| | rieau 0000 | e" | 16.0800 | Conductivity (σ): | 5.36 | 5.48 | -2.11 | 5 |
| | Head 6200 | e' | 35.4400 | Relative Permittivity (ε_r): | 35.44 | 34.86 | 1.66 | 5 |
| | Tieau 0200 | e" | 16.1200 | Conductivity (σ): | 5.56 | 5.72 | -2.78 | 5 |
| | Head 6500 | e' | 34.7900 | Relative Permittivity (ε_r): | 34.79 | 34.50 | 0.84 | 5 |
| 2023-06-19 | rieau 0300 | e" | 16.3100 | Conductivity (σ): | 5.89 | 6.07 | -2.89 | 5 |
| 2023-00-19 | Head 6600 | e' | 34.5600 | Relative Permittivity (ε_r): | 34.56 | 34.38 | 0.52 | 5 |
| | Head 0000 | e" | 16.4100 | Conductivity (σ): | 6.02 | 6.19 | -2.65 | 5 |
| | Head 6800 | e' | 34.1800 | Relative Permittivity (ε_r): | 34.18 | 34.14 | 0.12 | 5 |
| | Head 0000 | e" | 16.5000 | Conductivity (σ): | 6.24 | 6.42 | -2.79 | 5 |
| | Head 7000 | e' | 33.9200 | Relative Permittivity (ε_r): | 33.92 | 33.90 | 0.06 | 5 |
| | Tieau 7000 | e" | 16.4300 | Conductivity (σ): | 6.39 | 6.65 | -3.84 | 5 |
| | Head 6000 | e' | 34.4200 | Relative Permittivity (ε_r): | 34.42 | 35.10 | -1.94 | 5 |
| | Head 6000 | e" | 17.0300 | Conductivity (σ): | 5.68 | 5.48 | 3.68 | 5 |
| | Head 6200 | e' | 34.0600 | Relative Permittivity (ε_r): | 34.06 | 34.86 | -2.29 | 5 |
| | Head 0200 | e" | 17.0700 | Conductivity (σ): | 5.88 | 5.72 | 2.95 | 5 |
| | Head 6500 | e' | 33.5100 | Relative Permittivity (ε_r): | 33.51 | 34.50 | -2.87 | 5 |
| 2023-06-20 | nead 6500 | e" | 17.3100 | Conductivity (σ): | 6.26 | 6.07 | 3.07 | 5 |
| 2023-00-20 | Head 6600 | e' | 33.2900 | Relative Permittivity (ε_r): | 33.29 | 34.38 | -3.17 | 5 |
| | Head 0000 | e" | 17.4400 | Conductivity (σ): | 6.40 | 6.19 | 3.46 | 5 |
| | Head 6800 | e' | 32.8200 | Relative Permittivity (ε_r): | 32.82 | 34.14 | -3.87 | 5 |
| | rieau 0000 | e" | 17.5900 | Conductivity (σ): | 6.65 | 6.42 | 3.63 | 5 |
| | Head 7000 | e' | 32.4400 | Relative Permittivity (ε_r): | 32.44 | 33.90 | -4.31 | 5 |
| | nead 7000 | e" | 17.5100 | Conductivity (σ): | 6.82 | 6.65 | 2.49 | 5 |
| | Head 6000 | e' | 34.2100 | Relative Permittivity (ε_r): | 34.21 | 35.10 | -2.54 | 5 |
| | Head 6000 | e" | 16.0800 | Conductivity (σ): | 5.36 | 5.48 | -2.11 | 5 |
| | Head 6200 | e' | 33.8300 | Relative Permittivity (ε_r): | 33.83 | 34.86 | -2.95 | 5 |
| | Head 0200 | e" | 16.2500 | Conductivity (σ): | 5.60 | 5.72 | -1.99 | 5 |
| | Head 6500 | e' | 33.2800 | Relative Permittivity (ε_r): | 33.28 | 34.50 | -3.54 | 5 |
| 2023-06-21 | nead 6500 | e" | 16.5000 | Conductivity (σ): | 5.96 | 6.07 | -1.76 | 5 |
| 2023-00-21 | Hood 6600 | e' | 33.1100 | Relative Permittivity (ε_r): | 33.11 | 34.38 | -3.69 | 5 |
| | Head 6600 | e" | 16.6000 | Conductivity (σ): | 6.09 | 6.19 | -1.52 | 5 |
| | Hood 6900 | e' | 32.8300 | Relative Permittivity (ε _r): | 32.83 | 34.14 | -3.84 | 5 |
| | Head 6800 | e" | 16.7200 | Conductivity (σ): | 6.32 | 6.42 | -1.50 | 5 |
| | Head 7000 | e' | 32.6000 | Relative Permittivity (ε_r): | 32.60 | 33.90 | -3.83 | 5 |
| | nead 7000 | e" | 16.7800 | Conductivity (σ): | 6.53 | 6.65 | -1.79 | 5 |

| | Head 6000 | e' | 34.6300 | Relative Permittivity (ε_r): | 34.63 | 35.10 | -1.34 | 5 |
|------------|-----------|----|---------|--|-------|-------|-------|---|
| | Head 6000 | e" | 16.9600 | Conductivity (σ): | 5.66 | 5.48 | 3.25 | 5 |
| | Head 6200 | e' | 34.2500 | Relative Permittivity (ε_r): | 34.25 | 34.86 | -1.75 | 5 |
| | Head 6200 | e" | 17.1200 | Conductivity (σ): | 5.90 | 5.72 | 3.25 | 5 |
| | Head 6500 | e' | 33.7200 | Relative Permittivity (ε_r): | 33.72 | 34.50 | -2.26 | 5 |
| 2023-06-26 | Head 0000 | e" | 17.3100 | Conductivity (σ): | 6.26 | 6.07 | 3.07 | 5 |
| 2023-00-20 | Head 6600 | e' | 33.5300 | Relative Permittivity (ε_r): | 33.53 | 34.38 | -2.47 | 5 |
| | Head 0000 | e" | 17.3900 | Conductivity (σ): | 6.38 | 6.19 | 3.17 | 5 |
| | Head 6800 | e' | 33.1700 | Relative Permittivity (ε_r): | 33.17 | 34.14 | -2.84 | 5 |
| | Head 0000 | e" | 17.5100 | Conductivity (σ): | 6.62 | 6.42 | 3.16 | 5 |
| | Head 7000 | e' | 32.8400 | Relative Permittivity (ε_r): | 32.84 | 33.90 | -3.13 | 5 |
| | Head 7000 | e" | 17.5900 | Conductivity (σ): | 6.85 | 6.65 | 2.95 | 5 |
| | Head 6000 | e' | 35.9800 | Relative Permittivity (ε_r): | 35.98 | 35.10 | 2.51 | 5 |
| | Head 6000 | e" | 16.0000 | Conductivity (σ): | 5.34 | 5.48 | -2.59 | 5 |
| | Head 6200 | e' | 35.6500 | Relative Permittivity (ε_r): | 35.65 | 34.86 | 2.27 | 5 |
| | Head 6200 | e" | 16.1900 | Conductivity (σ): | 5.58 | 5.72 | -2.36 | 5 |
| | Head 6500 | e' | 35.2000 | Relative Permittivity (ε_r): | 35.20 | 34.50 | 2.03 | 5 |
| 2023-06-27 | Head 0000 | e" | 16.3900 | Conductivity (σ): | 5.92 | 6.07 | -2.41 | 5 |
| 2023-00-27 | Head 6600 | e' | 35.0400 | Relative Permittivity (ε_r): | 35.04 | 34.38 | 1.92 | 5 |
| | nead 6600 | e" | 16.4700 | Conductivity (σ): | 6.04 | 6.19 | -2.29 | 5 |
| | Head 6800 | e' | 34.7300 | Relative Permittivity (ε_r): | 34.73 | 34.14 | 1.73 | 5 |
| | nead 6600 | e" | 16.6000 | Conductivity (σ): | 6.28 | 6.42 | -2.21 | 5 |
| | Head 7000 | e' | 34.4400 | Relative Permittivity (ε_r): | 34.44 | 33.90 | 1.59 | 5 |
| | neau 7000 | e" | 16.7000 | Conductivity (σ): | 6.50 | 6.65 | -2.26 | 5 |
| | | | | | | | | |

SAR 6 Room

| Date | Freq. (MHz) | | Li | quid Parameters | Measured | Target | Delta (%) | Limit ±(%) |
|------------|--|----|---------|---|----------|--------|-----------|------------|
| | UI 0000 | e' | 34.7500 | Relative Permittivity (ε _r): | 34.75 | 35.10 | -1.00 | 5 |
| | Head 6000 | e" | 16.7900 | Conductivity (σ): | 5.60 | 5.48 | 2.22 | 5 |
| | UI 0000 | e' | 34.3800 | Relative Permittivity (ε _r): | 34.38 | 34.86 | -1.38 | 5 |
| | Head 6200 | e" | 16.9500 | Conductivity (σ): | 5.84 | 5.72 | 2.23 | 5 |
| | Hood 6500 | e' | 33.8900 | Relative Permittivity (ε _r): | 33.89 | 34.50 | -1.77 | 5 |
| 2023-06-19 | Head 6500 | e" | 17.0800 | Conductivity (σ): | 6.17 | 6.07 | 1.70 | 5 |
| 2023-06-19 | Head 6600 | e' | 33.6900 | Relative Permittivity (ε _r): | 33.69 | 34.38 | -2.01 | 5 |
| | nead 6600 | e" | 17.1300 | Conductivity (σ): | 6.29 | 6.19 | 1.62 | 5 |
| | Head 6800 | e' | 33.3000 | Relative Permittivity (ε _r): | 33.30 | 34.14 | -2.46 | 5 |
| | nead 6600 | e" | 17.2100 | Conductivity (σ): | 6.51 | 6.42 | 1.39 | 5 |
| | Head 7000 | e' | 32.9300 | Relative Permittivity (ε _r): | 32.93 | 33.90 | -2.86 | 5 |
| | nead 7000 | e" | 17.2800 | Conductivity (σ): | 6.73 | 6.65 | 1.14 | 5 |
| | UI 0000 | e' | 36.5700 | Relative Permittivity (ε _r): | 36.57 | 35.10 | 4.19 | 5 |
| | Head 6000 | e" | 17.0100 | Conductivity (σ): | 5.67 | 5.48 | 3.56 | 5 |
| | UI 0000 | e' | 36.1800 | Relative Permittivity (ε _r): | 36.18 | 34.86 | 3.79 | 5 |
| | Head 6200 | e" | 17.1500 | Conductivity (σ): | 5.91 | 5.72 | 3.43 | 5 |
| | | e' | 35.6100 | Relative Permittivity (ε_r) : | 35.61 | 34.50 | 3.22 | 5 |
| 2002 00 00 | Head 6500 | e" | 17.3900 | Conductivity (σ): | 6.29 | 6.07 | 3.54 | 5 |
| 2023-06-20 | UI 0000 | e' | 35.4000 | Relative Permittivity (ε _r): | 35.40 | 34.38 | 2.97 | 5 |
| | Head 6600 | e" | 17.4900 | Conductivity (σ): | 6.42 | 6.19 | 3.76 | 5 |
| | UI 0000 | e' | 35.0500 | Relative Permittivity (ε _r): | 35.05 | 34.14 | 2.67 | 5 |
| | Head 6800 | e" | 17.6300 | Conductivity (σ): | 6.67 | 6.42 | 3.86 | 5 |
| | Head 7000 | e' | 34.7500 | Relative Permittivity (ε _r): | 34.75 | 33.90 | 2.51 | 5 |
| | nead 7000 | e" | 17.7000 | Conductivity (σ): | 6.89 | 6.65 | 3.60 | 5 |
| | Heed 7000 | e' | 34.7500 | Relative Permittivity (ɛ _r): | 34.75 | 33.90 | 2.51 | 5 |
| | nead 7000 | e" | 17.7000 | Conductivity (σ): | 6.89 | 6.65 | 3.60 | 5 |
| | Head 7050 | e' | 34.2800 | Relative Permittivity (ɛ _r): | 34.28 | 33.60 | 2.02 | 5 |
| | nead 7250 | e" | 17.8300 | Conductivity (σ): | 7.19 | 6.95 | 3.49 | 5 |
| | Heed 7500 | e' | 33.8200 | Relative Permittivity (ε _r): | 33.82 | 33.30 | 1.56 | 5 |
| 2022 06 20 | nead 7500 | e" | 17.9600 | Conductivity (σ): | 7.49 | 7.24 | 3.45 | 5 |
| 2023-00-20 | Hood 7000 | e' | 33.2900 | Relative Permittivity (ε_r) : | 33.29 | 32.94 | 1.06 | 5 |
| | neau /out | e" | 18.1200 | Conductivity (σ): | 7.86 | 7.60 | 3.40 | 5 |
| | Hood 9000 | e' | 33.0300 | Relative Permittivity (ε_r) : | 33.03 | 32.70 | 1.01 | 5 |
| | nead 6000 | e" | 18.1600 | Conductivity (σ): | 8.08 | 7.84 | 3.04 | 5 |
| | Head 7000 Head 7250 Head 7500 Head 7800 Head 8000 Head 8100 | e' | 32.8500 | Relative Permittivity (ε_r) : | 32.85 | 32.58 | 0.83 | 5 |
| | nead 6100 | e" | 18.1800 | Conductivity (σ): | 8.19 | 7.96 | 2.81 | 5 |

| Head 7000 |
|--|
| Pack |
| Head 7500 e* 17.9700 Conductivity (o*); 7.24 6.95 4.31 5 Head 7500 e* 32.4200 Relative Permittivity (e*); 32.42 33.30 -2.64 5 e* 18.0900 Conductivity (o*); 7.54 7.24 4.20 5 Head 7800 e* 31.8600 Relative Permittivity (e*); 31.86 32.94 -3.28 5 Head 8000 e* 18.2600 Conductivity (o*); 7.92 7.60 4.20 5 Head 8000 e* 31.5800 Relative Permittivity (e*); 31.58 32.70 -3.43 5 e* 18.3200 Conductivity (o*); 8.15 7.84 3.94 5 Head 8100 e* 31.4300 Relative Permittivity (e*); 31.43 32.58 -3.53 5 e* 18.3500 Conductivity (o*); 8.26 7.96 3.77 5 Head 7000 e* 33.6500 Relative Permittivity (e*); 33.65 33.90 -0.74 5 Head 7250 e* 33.2600 Relative Permittivity (e*); 33.26 33.60 -1.01 5 Head 7500 e* 32.7600 Relative Permittivity (o*); 7.00 6.95 0.77 5 Head 7800 e* 32.7600 Relative Permittivity (e*); 32.76 33.30 -1.62 5 Head 7800 e* 32.0400 Relative Permittivity (o*); 7.26 7.24 0.28 5 Head 8000 e* 17.4500 Conductivity (o*); 7.57 7.60 -0.42 5 Head 8000 e* 17.4500 Conductivity (o*); 7.57 7.60 -0.42 5 Head 8100 e* 31.7000 Relative Permittivity (e*); 31.70 32.70 -3.06 5 Head 8100 e* 31.5000 Relative Permittivity (o*); 7.75 7.84 -1.11 5 Head 8100 e* 31.5000 Relative Permittivity (o*); 7.75 7.84 -1.11 5 Head 8100 e* 31.5000 Relative Permittivity (o*); 7.75 7.84 -1.11 5 Head 8100 e* 31.5000 Relative Permittivity (o*); 7.75 7.84 -1.11 5 Head 8100 e* 31.5000 Relative Permittivity (o*); 7.75 7.84 -1.11 5 Head 8100 e* 31.5000 Relative Permittivity (o*); 31.50 32.58 -3.31 5 |
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| Head 7500 e" 18.0900 Conductivity (σ); 7.54 7.24 4.20 5 Head 7800 e' 31.8600 Relative Permittivity (ε _i); 31.86 32.94 -3.28 5 Head 8000 e' 18.2600 Conductivity (σ); 7.92 7.60 4.20 5 Head 8000 e' 18.3200 Relative Permittivity (ε _i); 31.58 32.70 -3.43 5 Head 8100 e' 31.4300 Relative Permittivity (ε _i); 31.43 32.58 -3.53 5 Head 7000 e' 18.3500 Conductivity (σ); 8.26 7.96 3.77 5 Head 7000 e' 33.6500 Relative Permittivity (ε _i); 33.65 33.90 -0.74 5 Head 7250 e' 33.2600 Relative Permittivity (ε _i); 33.26 33.60 -1.01 5 Head 7500 e' 17.3600 Relative Permittivity (ε _i); 32.76 33.30 -1.62 5 Head 7800 e' 32.7600 Relative Permittivity (ε _i); 32.76 33.30 -1.62 5 Head 7800 e' 32.0400 Relative Permittivity (ε _i); 32.76 7.24 0.28 5 Head 8000 e' 17.4500 Conductivity (σ); 7.26 7.24 0.28 5 Head 8000 e' 17.4500 Conductivity (σ); 7.57 7.60 -0.42 5 Head 8000 e' 17.4300 Relative Permittivity (ε _i); 31.70 32.70 -3.06 5 Head 8100 e' 31.5000 Relative Permittivity (ε _i); 31.50 32.58 -3.31 5 |
| Page 14 Page 15 Page |
| Head 7800 e' 31.8600 Relative Permittivity (e _i): 31.86 32.94 -3.28 5 e' 18.2600 Conductivity (σ): 7.92 7.60 4.20 5 Head 8000 e' 31.5800 Relative Permittivity (e _i): 31.58 32.70 -3.43 5 Head 8100 e' 18.3200 Conductivity (σ): 8.15 7.84 3.94 5 Head 8100 e' 31.4300 Relative Permittivity (e _i): 31.43 32.58 -3.53 5 Head 7000 e' 18.3500 Conductivity (σ): 8.26 7.96 3.77 5 Head 7000 e' 17.2900 Conductivity (σ): 6.73 6.65 1.20 5 Head 7250 e' 17.3600 Relative Permittivity (e _i): 33.26 33.60 -1.01 5 Head 7500 e' 17.3600 Relative Permittivity (e _i): 32.76 33.30 -1.62 5 Head 7800 e' 32.7600 Relative Permittivity (e _i): 7.26 7.24 0.28 5 Head 7800 e' 17.4500 Conductivity (σ): 7.26 7.24 0.28 5 Head 8000 e' 31.7000 Relative Permittivity (e _i): 32.04 32.94 -2.73 5 Head 8000 e' 17.4500 Conductivity (σ): 7.57 7.60 -0.42 5 Head 8100 e' 31.5000 Relative Permittivity (e _i): 31.70 32.70 -3.06 5 Head 8100 e' 31.5000 Relative Permittivity (e _i): 31.50 32.58 -3.31 5 |
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| Head 8100 e" 18.3200 Conductivity (\(\sigma\); 8.15 7.84 3.94 5 Head 8100 e" 31.4300 Relative Permittivity (\(\sigma\); 31.43 32.58 -3.53 5 Head 7000 e" 18.3500 Conductivity (\(\sigma\); 33.65 7.96 3.77 5 Head 7000 e" 17.2900 Conductivity (\(\sigma\); 6.73 6.65 1.20 5 Head 7250 e" 17.3600 Relative Permittivity (\(\sigma\); 33.26 33.60 -1.01 5 Head 7500 e" 17.4100 Conductivity (\(\sigma\); 32.76 33.30 -1.62 5 Head 7800 e" 17.4400 Relative Permittivity (\(\sigma\); 32.76 33.30 -1.62 5 Head 7800 e" 17.4500 Relative Permittivity (\(\sigma\); 32.04 32.94 -2.73 5 Head 8000 e" 17.4500 Conductivity (\(\sigma\); 7.57 7.60 -0.42 5 Head 8000 e" 17.4300 Relative Permittivity (\(\sigma\); 31.70 32.70 -3.06 5 Head 8100 e" 31.5000 Relative Permittivity (\(\sigma\); 31.50 32.58 -3.31 5 |
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| Head 7000 e" 17.2900 Conductivity (σ): 6.73 6.65 1.20 5 Head 7250 e" 33.2600 Relative Permittivity (ε _τ): 33.26 33.60 -1.01 5 Head 7250 e" 17.3600 Conductivity (σ): 7.00 6.95 0.77 5 Head 7500 e" 32.7600 Relative Permittivity (ε _τ): 32.76 33.30 -1.62 5 Head 7500 e" 17.4100 Conductivity (σ): 7.26 7.24 0.28 5 Head 7800 e" 32.0400 Relative Permittivity (ε _τ): 32.04 32.94 -2.73 5 Head 8000 e" 17.4500 Conductivity (σ): 7.57 7.60 -0.42 5 Head 8000 e" 17.4300 Relative Permittivity (ε _τ): 31.70 32.70 -3.06 5 Head 8100 e" 31.5000 Relative Permittivity (ε _τ): 31.50 32.58 -3.31 5 |
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| Head 7250 e" 17.3600 Conductivity (or); 7.00 6.95 0.77 5 Head 7500 e" 32.7600 Relative Permittivity (e _t); 32.76 33.30 -1.62 5 Head 7500 e" 17.4100 Conductivity (or); 7.26 7.24 0.28 5 Head 7800 e" 32.0400 Relative Permittivity (e _t); 32.04 32.94 -2.73 5 Head 8000 e" 17.4500 Conductivity (or); 7.57 7.60 -0.42 5 Head 8000 e" 31.7000 Relative Permittivity (e _t); 31.70 32.70 -3.06 5 Head 8100 e" 31.5000 Relative Permittivity (e _t); 31.50 32.58 -3.31 5 |
| Head 7500 e" 17.3600 Conductivity (\(\sigma\); 7.00 6.95 0.77 5 Head 7500 e" 32.7600 Relative Permittivity (\(\epsi\); 32.76 33.30 -1.62 5 Head 7800 e" 17.4100 Conductivity (\(\sigma\); 7.26 7.24 0.28 5 Head 7800 e" 32.0400 Relative Permittivity (\(\epsi\); 32.04 32.94 -2.73 5 Head 8000 e" 17.4500 Conductivity (\(\sigma\); 7.57 7.60 -0.42 5 Head 8000 e" 31.7000 Relative Permittivity (\(\epsi\); 31.70 32.70 -3.06 5 Head 8100 e" 31.5000 Relative Permittivity (\(\epsi\); 7.75 7.84 -1.11 5 Head 8100 Head 8100 Relative Permittivity (\(\epsi\); 31.50 32.58 -3.31 5 |
| Head 7500 e" 17.4100 Conductivity (\sigma): 7.26 7.24 0.28 5 Head 7800 e" 32.0400 Relative Permittivity (\sigma_t): 32.04 32.94 -2.73 5 Head 7800 e" 17.4500 Conductivity (\sigma_t): 7.57 7.60 -0.42 5 Head 8000 e" 31.700 Relative Permittivity (\sigma_t): 31.70 32.70 -3.06 5 Head 8100 e" 31.5000 Relative Permittivity (\sigma_t): 7.75 7.84 -1.11 5 Head 8100 e' 31.5000 Relative Permittivity (\sigma_t): 31.50 32.58 -3.31 5 |
| 2023-06-22 Head 7800 e" 17.4100 Conductivity (\(\text{o}\): 7.26 7.24 0.28 5 Head 7800 e" 32.0400 Relative Permittivity (\(\text{e}_t\): 32.04 32.94 -2.73 5 Head 8000 e" 17.4500 Conductivity (\(\text{o}\): 7.57 7.60 -0.42 5 Head 8000 e" 31.7000 Relative Permittivity (\(\text{e}_t\): 31.70 32.70 -3.06 5 Head 8100 e" 31.5000 Relative Permittivity (\(\text{o}_t\): 7.75 7.84 -1.11 5 Head 8100 Head 8100 E" 31.5000 Relative Permittivity (\(\text{e}_t\): 31.50 32.58 -3.31 5 |
| Head 7800 e' 32.0400 Relative Permittivity (e _r): 32.04 32.94 -2.73 5 |
| e" 17.4500 Conductivity (\sigma): 7.57 7.60 -0.42 5 Head 8000 e' 31.7000 Relative Permittivity (\sigma_t): 31.70 32.70 -3.06 5 e" 17.4300 Conductivity (\sigma): 7.75 7.84 -1.11 5 Head 8100 e' 31.5000 Relative Permittivity (\sigma_t): 31.50 32.58 -3.31 5 |
| Head 8000 e" 17.4300 Conductivity (σ): 7.75 7.84 -1.11 5 Head 8100 e' 31.5000 Relative Permittivity (e _r): 31.50 32.58 -3.31 5 |
| e" 17.4300 Conductivity (σ): 7.75 7.84 -1.11 5 Head 8100 e' 31.5000 Relative Permittivity (ε _r): 31.50 32.58 -3.31 5 |
| Head 8100 |
| I Head 8100 Head |
| e" 17.4900 Conductivity (σ): 7.88 7.96 -1.09 5 |
| e' 33.3500 Relative Permittivity (e ₁): 33.35 33.90 -1.62 5 |
| Head 7000 e" 17.7100 Conductivity (σ): 6.89 6.65 3.66 5 |
| e' 32.9900 Relative Permittivity (e _t): 32.99 33.60 -1.82 5 |
| Head 7250 e" 17.9600 Conductivity (σ): 7.24 6.95 4.25 5 |
| e' 32.5600 Relative Permittivity (e _t): 32.56 33.30 -2.22 5 |
| Head 7500 e" 18.0300 Conductivity (σ): 7.52 7.24 3.85 5 |
| 2023-06-23 e' 31.9700 Relative Permittivity (e _r): 31.97 32.94 -2.94 5 |
| Head 7800 e" 18.1000 Conductivity (σ): 7.85 7.60 3.29 5 |
| e' 31.6500 Relative Permittivity (ε _τ): 31.65 32.70 -3.21 5 |
| Head 8000 e" 18.2800 Conductivity (σ): 8.13 7.84 3.72 5 |
| e' 31.5200 Relative Permittivity (e.): 31.52 32.58 -3.25 5 |
| Head 8100 e" 18.3900 Conductivity (σ): 8.28 7.96 4.00 5 |

8.2. System Check

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every days.

System Performance Check Measurement Conditions:

- The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0 ±0.2 mm (bottom plate) filled with Simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be ≥ 10.0 cm for measurements > 6 GHz.
- The DASY system with an E-Field Probe was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center
 marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the
 phantom). The standard measuring distance was 5 mm (above 6GHz) from dipole center to the simulating
 liquid surface.
- The dipole input power (forward power) was 100 mW.
- The results are normalized to 1 W input power.

Reference Target SAR Values

The reference SAR values can be obtained from the calibration certificate of system validation dipoles.

| System Dipole | Serial No. | Cal. Date | Freq. (MHz) | Target SAR V | /alues (W/kg) |
|---------------|------------|------------|------------------|------------------------|---------------|
| System Dipole | Senai No. | Cal. Date | i req. (ivii iz) | 1g/10g | Head |
| | | | | 1g | 285.00 |
| D6.5GHzV2 | 1010 | 2022-05-27 | 6500 | 10g | 52.90 |
| | | | | APD(4cm ²) | 1300.00 |
| | | | | 1g | 267.00 |
| D8GHzV2 | 1012 | 2022-11-01 | 8000 | 10g | 44.80 |
| | | | | APD(4cm ²) | 1100.00 |

System Check Results

The 1-g and 10-g SAR measured with a reference dipole, using the required tissue-equivalent medium at the test frequency, must be within 10% of the manufacturer calibrated dipole SAR target.

SAR 1 Room

| SAK I KUU | 111 | | | | | | | | | |
|-------------|------------------------------|----------|------|------------------------|--------------|-----------|---------------------|--------|----------|--|
| | System | Dipole | - | .S. | Measure | d Results | Torget | Delta | | |
| Date Tested | Type | Serial # | | .s. quid | Zoom Scan to | Normalize | Target (Ref. Value) | ±10 % | Plot No. | |
| | туре | Seliai # | Lic | quiu | 100 mW | to 1 W | (Rei. Value) | ±10 % | | |
| | | | | 1g | 27.70 | 277.0 | 285.00 | -2.81 | | |
| 2023-06-19 | D6.5G V2 | 1010 | Head | 10g | 5.47 | 54.7 | 52.90 | 3.40 | | |
| | | | | APD(4cm ²) | 133.00 | 1330.0 | 1300.00 | 2.31 | | |
| | | | | 1g | 29.00 | 290.0 | 285.00 | 1.75 | | |
| 2023-06-20 | D6.5G V2 | 1010 | Head | 10g | 5.48 | 54.8 | 52.90 | 3.59 | | |
| | 0 D0.3G V2 1010 | | | APD(4cm ²) | 133.00 | 1330.0 | 1300.00 | 2.31 | | |
| | | | | 1g | 27.50 | 275.0 | 285.00 | -3.51 | | |
| 2023-06-21 | D6.5G V2 | 1010 | Head | 10g | 5.25 | 52.5 | 52.90 | -0.76 | | |
| | | | | APD(4cm ²) | 128.00 | 1280.0 | 1300.00 | -1.54 | | |
| | | | | | 1g | 27.40 | 274.0 | 285.00 | -3.86 | |
| 2023-06-26 | D6.5G V2 | 1010 | Head | 10g | 5.25 | 52.5 | 52.90 | -0.76 | | |
| | 520 00 20 50.00 12 10.10 | | | APD(4cm^2) | | 1280.0 | 1300.00 | -1.54 | | |
| | | | | 1g | 26.40 | 264.0 | 285.00 | -7.37 | | |
| 2023-06-27 | D6.5G V2 | 1010 | Head | 10g | 5.14 | 51.4 | 52.90 | -2.84 | 1 | |
| | 2023-06-27 D0.5G V2 | | | APD(4cm ²) | 125.00 | 1250.0 | 1300.00 | -3.85 | | |

SAR 6 Room

| | System | Dipole | _ | C | Measure | d Results | Townst | Dalta | |
|-------------|-------------------------|-----------|------|------------------------|------------------------|---------------------|------------------------|----------------|----------|
| Date Tested | Type | Serial # | | S. quid | Zoom Scan to 100 mW | Normalize to 1 W | Target (Ref. Value) | Delta ±10 % | Plot No. |
| | | | | 1g | 27.10 | 271.0 | 285.00 | -4.91 | |
| 2023-06-19 | D6.5GHzV2 | 1010 | Head | 10g | 5.19 | 51.9 | 52.90 | -1.89 | 2 |
| | | | | APD(4cm ²) | 126.00 | 1260.0 | 1300.00 | -3.08 | |
| | | | | 1g | 28.40 | 284.0 | 285.00 | -0.35 | |
| 2023-06-20 | D6.5GHzV2 | 1010 | Head | 10g | 5.47 | 54.7 | 52.90 | 3.40 | |
| | | | | APD(4cm ²) | 133.00 | 1330.0 | 1300.00 | 2.31 | |
| | | | | 1g | 24.60 | 246.0 | 267.00 | -7.87 | |
| 2023-06-20 | D8GHzV2 | 1012 | Head | 10g | 4.39 | 43.9 | 44.80 | -2.01 | 3 |
| | | | | APD(4cm ²) | 107.00 | 1070.0 | 1100.00 | -2.73 | |
| | | | | 1g | 27.20 | 272.0 | 267.00 | 1.87 | |
| 2023-06-21 | D8GHzV2 | 1012 | Head | 10g | 4.81 | 48.1 | 44.80 | 7.37 | |
| | | | | APD(4cm ²) | 117.00 | 1170.0 | 1100.00 | 6.36 | |
| | | | | 1g | 25.10 | 251.0 | 267.00 | -5.99 | |
| 2023-06-22 | D8GHzV2 | 1012 | Head | 10g | 4.44 | 44.4 | 44.80 | -0.89 | |
| | | | | APD(4cm ²) | 108.00 | 1080.0 | 1100.00 | -1.82 | |
| | | | 1g | 26.80 | 268.0 | 267.00 | 0.37 | | |
| 2023-06-23 | 2023-06-23 D8GHzV2 1012 | Head | 10g | 4.70 | 47.0 | 44.80 | 4.91 | | |
| | | HzV2 1012 | | APD(4cm ²) | 115.00 | 1150.0 | 1100.00 | 4.55 | |

9. IPD(Incident Power Density) System with Dielectric Property

9.1. Dielectric Property

Media is air so Relative Permittivity (ε r) and Conductivity (σ) is 1.

9.2. System Check

Per Nov 2017,TCB Workshop

System validation is required before a system is deployed for measurement

System check is also required before each series of continuous measurement and, as applicable, repeated at least weekly

Peak and spatially averaged power density at the peak location(s) must be compared to calibrated results according to the defined test conditions

- the same spatial resolution and measurement region used in the waveguide calibration should be applied to system validation and system check
- 4 cm² spatial averaging have been used according to FCC requirement.
- power density distribution should also be verified, both spatially (shape) and numerically (level) through visual inspection for noticeable differences
- The Horn antenna input power (forward power) was 100mW.
- The measured results should be within 10% of the calibrated targets

Reference Target PD Values

Per the manufacturer's guide, the target value of the calibration report was converted to a value of 100mW input power.

| 5G verification | Serial No. | Cal. Date | Freq. (MHz) | Averaging | Prad | Input power | Target PD Va | lues (W/m^2) | Note | Probe No. |
|-----------------|------------|-----------|------------------|-----------|------|-------------|--------------|--------------|-----------------------------------|-------------|
| Source | Ocharivo. | Oal. Date | 1 10q. (IVII 12) | area | (mW) | (mW) | 1 cm^2 | 4 cm^2 | Note | T TODE IVO. |
| 10GHz | 1022 | 2/20/2023 | 100000 | Circular | 89.1 | | 59.40 | 54.90 | Cal.report target | 9536 |
| TOGHZ | 1022 | 2/20/2023 | 100000 | Circular | | 100 | 66.67 | 61.62 | Convert target from Cal.report | 9556 |
| 10GHz | 1022 | 2/20/2023 | 100000 | Circular | 89.1 | | 58.60 | 53.90 | Cal.report target | 9559 |
| TOGHZ | 1022 | 2/20/2023 | 100000 | Circular | | 100 | 65.77 | 60.49 | Convert target from Cal.report | 9339 |

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Doc. No.: 1.0(04)

SAR 8 Room

| Date | Sorce SN | Sorce Cal. Due Data | Input Pow er (mW) | Measured Results for 1cm^2 (W/m^2) | Target (Ref. Value) (W/m^2) | Delta ±10 % | Measured Total psPD for 4cm^2 (W/m^2) | Target (Ref. Value) (W/m^2) | Delta ±10 % | visual inspection | Plot No. |
|------------|-------------|------------------------|-------------------------|---|-----------------------------------|----------------|--|-----------------------------------|----------------|----------------------|-------------|
| 2023-05-30 | 1022 | 3-1-2023 | 100.0 | 66.70 | 66.67 | 0.04 | 61.00 | 61.62 | -1.01 | confirmed | |
| 2023-05-31 | 1022 | 3-1-2023 | 100.0 | 63.00 | 66.67 | -5.50 | 57.60 | 61.62 | -6.52 | confirmed | |
| 2023-06-01 | 1022 | 3-1-2023 | 100.0 | 65.00 | 66.67 | -2.50 | 60.10 | 61.62 | -2.47 | confirmed | |
| 2023-06-05 | 1022 | 3-1-2023 | 100.0 | 62.10 | 66.67 | -6.85 | 56.00 | 61.62 | -9.12 | confirmed | 4 |
| 2023-06-07 | 1022 | 3-1-2023 | 100.0 | 67.70 | 66.67 | 1.54 | 61.80 | 61.62 | 0.29 | confirmed | |
| 2023-06-08 | 1022 | 3-1-2023 | 100.0 | 63.70 | 66.67 | -4.45 | 59.40 | 61.62 | -3.60 | confirmed | |
| 2023-06-09 | 1022 | 3-1-2023 | 100.0 | 64.80 | 66.67 | -2.80 | 60.00 | 61.62 | -2.63 | confirmed | |
| 2023-06-12 | 1022 | 3-1-2023 | 100.0 | 66.70 | 66.67 | 0.04 | 61.20 | 61.62 | -0.68 | confirmed | |
| 2023-06-15 | 1022 | 3-1-2023 | 100.0 | 68.90 | 66.67 | 3.34 | 62.60 | 61.62 | 1.59 | confirmed | |
| 2023-06-16 | 1022 | 3-1-2023 | 100.0 | 61.40 | 66.67 | -7.90 | 56.30 | 61.62 | -8.63 | confirmed | 5 |
| 2023-06-19 | 1022 | 3-1-2023 | 100.0 | 63.20 | 66.67 | -5.20 | 59.20 | 61.62 | -3.93 | confirmed | |
| 2023-06-20 | 1022 | 3-1-2023 | 100.0 | 64.80 | 66.67 | -2.80 | 58.50 | 61.62 | -5.06 | confirmed | |
| 2023-06-21 | 1022 | 3-1-2023 | 100.0 | 66.00 | 66.67 | -1.00 | 60.00 | 61.62 | -2.63 | confirmed | |
| 2023-06-22 | 1022 | 3-1-2023 | 100.0 | 66.30 | 66.67 | -0.55 | 60.70 | 61.62 | -1.49 | confirmed | |
| 2023-06-23 | 1022 | 3-1-2023 | 100.0 | 62.80 | 66.67 | -5.80 | 57.40 | 61.62 | -6.85 | confirmed | |
| 2023-06-25 | 1022 | 3-1-2023 | 100.0 | 64.20 | 66.67 | -3.70 | 59.20 | 61.62 | -3.93 | confirmed | |
| 2023-06-26 | 1022 | 3-1-2023 | 100.0 | 67.40 | 66.67 | 1.09 | 61.30 | 61.62 | -0.52 | confirmed | |
| 2023-06-27 | 1022 | 3-1-2023 | 100.0 | 65.60 | 66.67 | -1.60 | 59.60 | 61.62 | -3.28 | confirmed | |
| 2023-06-28 | 1022 | 3-1-2023 | 100.0 | 65.80 | 66.67 | -1.30 | 60.10 | 61.62 | -2.47 | confirmed | |
| 2023-06-29 | 1022 | 3-1-2023 | 100.0 | 66.40 | 66.67 | -0.40 | 60.00 | 61.62 | -2.63 | confirmed | |
| 2023-06-30 | 1022 | 3-1-2023 | 100.0 | 62.80 | 66.67 | -5.80 | 57.30 | 61.62 | -7.01 | confirmed | |

SAR 9 Room

| Date | Sorce SN | Sorce Cal. Due Data | Input Pow er (mW) | Measured Results for 1cm^2 (W/m^2) | Target (Ref. Value) (W/m^2) | Delta ±10 % | Measured Total psPD for 4cm^2 (W/m^2) | Target (Ref. Value) (W/m^2) | Delta ±10 % | visual inspection | Plot No. |
|------------|-------------|------------------------|-------------------------|---|-----------------------------------|----------------|--|-----------------------------------|----------------|----------------------|-------------|
| 2023-06-15 | 1022 | 3-1-2023 | 100.0 | 67.20 | 65.77 | 2.17 | 61.40 | 60.49 | 1.50 | confirmed | 6 |
| 2023-06-16 | 1022 | 3-1-2023 | 100.0 | 66.60 | 65.77 | 1.26 | 59.60 | 60.49 | -1.47 | confirmed | |

Note(s):

psPD value used the pstot avg value of test result plot.

9.3. Wi-Fi 6 GHz (U-NII Bands)

Indoor AP / Standard AP

| | | | | | Pn | nax (=Plimit) A | verage Pow | er | |
|----------------|---------------------|-------------|------------|----------------|------------------|--|------------------|---------------------------------|----------------------|
| | | | | | WLANM | IIMO Ant.1 | WLAN MI | MO Ant.2 | |
| Band (GHz) | Mode | Data Rate | Ch# | Freq. (MHz) | Avg Pwr (dBm) | Max. Tune- up Limit (dBm) | Avg Pwr (dBm) | Max. Tune- up Limit (dBm) | SAR Test (Yes/No) |
| | | | 1 | 5955 | 9.18 | | 8.99 | | |
| | 802.11a | 6 Mbps | 45 | 6175 | 9.33 | 10.00 | 8.22 | 10.00 | No |
| - | | | 93 1 | 6415 5935 | 9.71 8.87 | | 8.11 8.83 | | |
| | 802.11ax | 7.3 Mbps | 45 | 6175 | 9.51 | 10.00 | 8.45 | 10.00 | No |
| | (HE20) | | 93 | 6415 | 9.83 | 1 | 8.42 | 1 | |
| UNII 5 | 802.11ax | | 3 | 5965 | 9.16 | | 9.36 | | |
| (5.925 - 6.425 | (HE40) | 14.6 Mbps | 43 | 6165 | 9.49 | 10.00 | 8.89 | 10.00 | No |
| GHz) | | | 91 7 | 6405 5985 | 9.76 | | 8.37 9.33 | | |
| J/ | 802.11ax | 36.0 Mbps | 39 | 6145 | 9.08 9.06 | 10.00 | 8.90 | 10.00 | No |
| | (HE80) | | 87 | 6385 | 9.81 | . 0.00 | 7.78 | 1 | |
| | 802.11ax | | 15 | 6025 | 9.07 | | 9.06 | | |
| | (HE160) | 72.0 Mbps | 47 | 6185 | 9.46 | 10.00 | 8.87 | 10.00 | Yes |
| | (112100) | | 79 | 6345 | 9.62 | | 8.29 | | |
| | 902 116 | 6 Mbps | 97 | 6435 | 9.67 | 10.00 | 8.50 | 10.00 | No |
| | 802.11a | 6 Mbps | 105 113 | 6475 6515 | 9.01 8.88 | 10.00 | 8.12 8.40 | 10.00 | No |
| l | 000.11 | | 97 | 6435 | 9.76 | | 8.68 | | |
| | 802.11ax | 7.3 Mbps | 105 | 6475 | 9.52 | 10.00 | 8.67 | 10.00 | No |
| UNII 6 | (HE20) | - | 113 | 6515 | 9.45 | | 9.10 | | |
| (6.425 - 6.525 | 802.11ax | 14 6 Mbpo | 99 | 6445 | 9.68 | 10.00 | 8.56 | 10.00 | No |
| GHz) | (HE40) | 14.6 Mbps | 115 | 6525 | 9.02 | 10.00 | 8.26 | 10.00 | No |
| | 802.11ax (HE80) | 36.0 Mbps | 103 | 6465 | 9.76 | 10.00 | 8.56 | 10.00 | No |
| | 802.11ax (HE160) | 72.0 Mbps | 111 | 6505 | 9.29 | 10.00 | 8.18 | 10.00 | Yes |
| | | | 117 | 6535 | 9.02 | | 8.34 | | |
| | 802.11a | 6 Mbps | 149 | 6695 | 9.63 | 10.00 | 8.90 | 10.00 | No |
| | | | 185 | 6875 | 9.11 | | 8.03 | | |
| | 802.11ax | 7.3 Mbps | 117 149 | 6535 6695 | 9.42 9.56 | 10.00 | 8.71 8.88 | 10.00 | No |
| | (HE20) | 7.0 1000 | 185 | 6875 | 9.42 | 10.00 | 8.87 | 1 10.00 | 140 |
| UNII 7 | 802.11ax | | 123 | 6565 | 9.26 | | 8.18 | | |
| (6.525 - 6.885 | (HE40) | 14.6 Mbps | 147 | 6685 | 9.62 | 10.00 | 8.82 | 10.00 | No |
| GHz) | (111240) | | 179 | 6845 | 9.52 | | 8.36 | | |
| | 802.11ax | 36.0 Mbps | 119 151 | 6545 6705 | 9.16 | 10.00 | 8.36 | 10.00 | No |
| | (HE80) | JU.U IVIDPS | 183 | 6865 | 9.82 9.12 | 10.00 | 9.05 8.16 | 1 10.00 | INU |
| | 802.11ax | | 143 | 6665 | 9.18 | | 8.80 | | |
| | (HE160) | 72.0 Mbps | 175 | 6825 | 9.36 | 10.00 | 8.16 | 10.00 | Yes |
| | (112100) | | | | 9.35 | | | + | |
| | 802.11a | 6 Mbps | 189 209 | 5955 6175 | 9.35 | 10.00 | 8.89 8.82 | 10.00 | No |
| | 002.11a | 0 Mbps | 233 | 6415 | 9.27 | 10.00 | 9.09 | 10.00 | 140 |
| | | | 189 | 5955 | 9.41 | | 9.03 | | |
| | 802.11ax | 7.3 Mbps | 209 | 6175 | 9.37 | 10.00 | 8.99 | 10.00 | No |
| UNII 8 | (HE20) | | 233 | 6415 | 9.28 | 1 | 9.21 | 1 | _ |
| | 802.11ax | | 187 | 6885 | 9.33 | j | 8.58 | | |
| (6.885 - 7.125 | 602.11ax (HE40) | 14.6 Mbps | 203 | 6965 | 9.26 | 10.00 | 8.54 | 10.00 | No |
| GHz) | . , | | 227 | 7085 | 9.26 | | 8.18 | | |
| [| 802.11ax | 36.0 Mbps | 199 | 6945 | 9.09 | 10.00 | 8.46 | 10.00 | No |
| | (HE80) | | 215 | 7025 | 9.16 | 10.00 | 8.68 | | 1,10 |
| | 802.11ax (HE160) | 72.0 Mbps | 207 | 6985 | 9.36 | 10.00 | 8.74 | 10.00 | Yes |

Note(s):

- 1. Indoor AP for Maximum target power is equal to Standard AP related all RF exposure conditions.
- 2. Because of Pmax tune-up limit value is the same as Plimit tune-up limit value, Pmax average power is equal to Plimit average power. Refer to Section.6.3.
- 3. Per TCB workshop April.2021's guide, Channel power verification was performed for UNII 6e (5925MHz-7125MHz). So, 5 test channels of 802.11ax (HE160) were determined for SAR/PD test. Refer to blue box in table.

10. SAR and APD(Absorbed Power Density) Results

SAR Test Reduction criteria are as follows:

- Reported SAR(W/kg) for Wi-Fi = Measured SAR * Tune-up scaling factor * Duty Cycle scaling factor
- Duty Cycle scaling factor = 1 / Duty cycle (%)

KDB 447498 D01 General RF Exposure Guidance:

Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

KDB 648474 D04 Handset SAR:

With headset attached, when the reported SAR for body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

KDB 648474 D04 Handset SAR (Phablet Only):

For smart phones, with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm.

When hotspot mode does not apply, 10-g extremity SAR is required for all surfaces and edges with an antenna located at \leq 25mm From that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; However, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, Including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Additional 1-g SAR testing at 5 mm is not required when hotspot mode 10-g extremity SAR is not required for the surfaces and edges; since all 1-g reported SAR < 1.2 W/kg.

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10.1. WiFi (UNII Bands-Above 6GHz)

Forder Closed configuration

SAR test results

| March Coordinate March | | RF Exposure | | PWR | Dist. | | | Freq. | Duty | Power | (dBm) | 1-g SAF | R (W/kg) | 10-g SAI | R (W/kg) | Plot |
|--|---------|--|-----------|----------|-------|---------------|-------|--------|--------------|-------|-------|---------|---|----------|---------------------------------------|--|
| Head NA NA NA NA NA NA NA NA NA N | Antenna | the state of the s | Mode | | | Test Position | Ch #. | | Cycle (%) | | Meas. | Meas. | Scaled | Meas. | Scaled | No. |
| Hend Hend N/A N/A N/A N/A N/A N/A N/A N/ | | | | | | Left Touch | 79 | 6345.0 | | | 9.62 | 0.018 | 0.020 | | | |
| Head Head NA 0 Right Touch 11 | | | | | | | | | | | | | | | | |
| Head | | | | | | | 15 | 6025.0 | 99.7% | 10.00 | 9.07 | 0.041 | 0.051 | | | |
| No. | | | | | | | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | 0.033 | 0.036 | | 0.037 0.109 0.137 0.162 2 0.088 0.069 | |
| VULN MIMO Art. | | Head | | N/A | 0 | Right Touch | 111 | 6505.0 | 99.7% | 10.00 | 9.29 | 0.059 | 0.070 | | | 1 |
| NULAN Body-wom & Hofspot Herido Art. Herido Art. Herido Art. Herido Art. Herido Art. Herido Art. Art. Herido Art. | | | | | | | 143 | 6665.0 | 99.7% | 10.00 | 9.18 | 0.024 | 0.029 | | | |
| VILAN MMO Art. Body-wom & Body-wom & Body-wom & Helson Art. Body-wom & Holspot Art. Helson A | | | | | | | 207 | 6985.0 | 99.7% | 10.00 | 9.36 | | | | | |
| VILAN MiMO Art. Art. Body-wom & He160 T2.0 Mbps | | | | | | Right Tilt | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | | | | |
| MILAN Body war 8 | | | | | | | 15 | 6025.0 | 99.7% | 10.00 | 9.07 | | | | | |
| MMIO Art. 1 Hotspot Hefs | | | | | | | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | | | | |
| Art.1 Porspoil Fich T2.0 Mbps Front T9 6345.0 98.7% 10.00 9.18 Product Specific 10·g N/A N/A N/A N/A N/A N/A N/A N/ | | Body-worn & | 802.11ax | N/A | 10 | Rear | 111 | 6505.0 | 99.7% | 10.00 | 9.29 | | | | | |
| Product Specific 10-g N/A N/A | | Hotspot | | IN/A | 10 | | 143 | 6665.0 | 99.7% | 10.00 | 9.18 | | | | | |
| Product Specific 10-g Head NA Rear 79 6345.0 99.7% 10.00 9.62 Front 79 6345.0 99.7% 10.00 9.62 15 6025.0 99.7% 10.00 9.62 0.034 0.037 15 6025.0 99.7% 10.00 9.62 0.125 0.137 143 6665.0 99.7% 10.00 9.18 0.073 0.088 0.099 Right 79 6345.0 99.7% 10.00 9.18 0.073 0.088 0.099 Left Tilt 79 6345.0 99.7% 10.00 9.62 Left Tilt 79 6345.0 99.7% 10.00 8.29 Right Touch 111 6505.0 99.7% 10.00 8.29 Right Touch 99.7% 10.00 8.29 Right Tilt 79 6345.0 99.7% 10.00 8.29 Right Touch 99.7% 10.00 8.29 Right Tilt 79 6345.0 99.7% 10.00 8.29 Right Tilt 79 6345.0 99.7% 10.00 8.29 Right Tilt 79 6345.0 99.7% 10.00 8.29 Right Tilt 6055.0 99.7% 10.00 8.29 Right Tilt 6055.0 99.7% 10.00 8.29 Right Tilt 79 6345.0 99.7% 10.00 8. | , | | 72.0 Mbps | | | | 207 | 6985.0 | 99.7% | 10.00 | 9.36 | | | | | |
| Product Specific 10-g N/A N/A | | | | | | Front | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | 0.013 | 0.014 | | | |
| Product Specific 10-g NA Product Specific 10-g NA NA NA NA NA NA NA NA NA N | | | | | | Rear | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | | | | |
| Product Specific 10-g N/A N/A N/A N/A N/A N/A N/A N/ | | | | | | Front | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | | 0.034 | 0.037 | |
| Product Specific 10-g Right Touch NA NA NA NA NA NA NA NA NA N | | | | | | Тор | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | | | | 1 |
| Specific 10-g Specific 10-g Left 111 6505.0 99.7% 10.00 9.29 0.137 0.182 0.137 0.162 0.125 0.137 0.162 0.137 0.137 0.162 0.137 0.137 0.162 0.137 | | Product | | | | | 15 | 6025.0 | 99.7% | 10.00 | 9.07 | | | 0.088 | 0.109 | |
| Head N/A N/A N/A N/A N/A N/A N/A N/ | | | | N/A | 0 | | 79 | 6345.0 | | 10.00 | 9.62 | | | 0.125 | 0.137 | |
| N/A | | | | | | Left | 111 | | | 10.00 | 9.29 | | | 0.137 | 0.162 | 2 |
| Right | | | | | | | | | | | | | | | | |
| Head N/A Right Touch Fight Tilt Product Specific 10-g N/A N/A N/A N/A N/A N/A N/A N/ | | | | | | | | | | | | | | | | |
| Head N/A N/A N/A N/A N/A Body Body Right Touch Right Tilt Rear N/A N/A N/A N/A N/A N/A N/A N/ | | | | | | · - | | | | | | | XIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | | | |
| Head N/A 0 Right Touch Right Touch Right Touch Right Touch 15 6025.0 99.7% 10.00 9.06 79 6345.0 99.7% 10.00 8.29 111 6505.0 99.7% 10.00 8.18 143 6665.0 99.7% 10.00 8.74 10.00 8.29 Right Tilt Rear 111 6505.0 99.7% 10.00 8.29 Right Tilt Rear 111 6505.0 99.7% 10.00 8.29 Rear 111 6505.0 99.7% 10.00 8.80 Rear 111 6505.0 99.7% 10.00 8.29 Rear 111 6505.0 99.7% 10.00 8.00 8.00 8.00 8.00 8.00 8.00 8.0 | | | | | | | | | | | | | | | | |
| WLAN MIMO Ant.2 Product Specific 10-g N/A N/A N/A N/A Product Specific 10-g N/A N/A N/A N/A N/A N/A N/A N/ | | | | | | Left Tilt | | | | | | | | | | |
| MULAN MIMO Ant.2 Product Specific 10-g Prod | | | | | | | | | | | | | | | | _ |
| WLAN MIMO Ant.2 Product Specific 10-g N/A N/A N/A N/A N/A N/A N/A N/ | | Head | | N/A | 0 | Di Li T | | | | | | | | | | - |
| WLAN MIMO Ant.2 Product Specific 10-g N/A N/A N/A N/A N/A N/A N/A N/ | | | | | | Right Touch | | | | | | | | | | - |
| WLAN MIMO Ant.2 Body Right Tilt Right Tilt Rear 15 6025.0 99.7% 10.00 8.29 0.050 0.074 Rear 111 6505.0 99.7% 10.00 8.18 0.086 0.131 HE160 72.0 Mbps N/A Rear Rear Product Specific 10-g N/A N/A N/A N/A N/A Rear Right Tilt Rear Right Tilt Rear 15 6025.0 99.7% 10.00 8.29 0.050 0.074 Rear 111 6505.0 99.7% 10.00 8.18 0.086 0.131 143 6665.0 99.7% 10.00 8.74 0.225 0.302 Rear Rea | | | | | | | | | | | | | ************ | | | ! |
| WLAN MIMO Ant.2 Body B | | | | | | D: L: Th | | | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | ! |
| WLAN MIMO Ant.2 Body Ant.2 B | | | | | | Right Hit | | | | | | <i></i> | | | | - |
| MLAN MIMO Ant.2 Body Ant.2 B | | | | | | | | | | | | | | | | _ |
| MIMO Ant.2 Body HE160 72.0 Mbps N/A 10 N/A | WLAN | | | | | Poor | | | | | | | | | | - |
| Ant.2 72.0 Mbps 72.0 Mbps 207 6985.0 99.7% 10.00 8.74 0.225 0.302 Front 79 6345.0 99.7% 10.00 8.29 Rear 79 6345.0 99.7% 10.00 8.29 Front 79 6345.0 99.7% 10.00 8.29 Top 79 6345.0 99.7% 10.00 8.29 Top 79 6345.0 99.7% 10.00 8.29 Left 111 6505.0 99.7% 10.00 8.29 Left 111 6505.0 99.7% 10.00 8.29 Left 111 6505.0 99.7% 10.00 8.29 207 6985.0 99.7% 10.00 8.80 207 6985.0 99.7% 10.00 8.74 | | Body | | N/A | 10 | Neai | | | | | | | | | | - |
| Front 79 6345.0 99.7% 10.00 8.29 Rear 79 6345.0 99.7% 10.00 8.29 Front 79 6345.0 99.7% 10.00 8.29 Top 79 6345.0 99.7% 10.00 8.29 N/A 0 Left 111 6505.0 99.7% 10.00 8.29 Left 111 6505.0 99.7% 10.00 8.29 Left 111 6505.0 99.7% 10.00 8.29 207 6985.0 99.7% 10.00 8.80 | Ant.2 | | | | | | | | | | | | | | | 2 |
| Product Specific 10-g N/A Rear 79 6345.0 99.7% 10.00 8.29 Top 79 6345.0 99.7% 10.00 8.29 15 6025.0 99.7% 10.00 9.06 79 6345.0 99.7% 10.00 8.29 Left 111 6505.0 99.7% 10.00 8.29 Left 99.7% 10.00 8.29 Left 111 6505.0 99.7% 10.00 8.29 207 6985.0 99.7% 10.00 8.80 | | | · · | | | Eront | | | | | | 0.223 | 0.302 | | | 3 |
| Product Specific 10-g N/A N/A Product Specific 20-g N/A N/A Product Specific 20-g N/A Product Specific 20-g N/A N/A Product Specific 20-g N/A N/A N/A N/A Product Specific 20-g N/A N/A N/A N/A N/A N/A Product Specific 20-g N/A N/A N/A N/A N/A N/A N/A N/ | | | | — | 1 | | | | | | | | V///////////////////////////////////// | 0.044 | 0.065 | |
| Product Specific 10-g N/A 0 Top 79 6345.0 99.7% 10.00 8.29 15 6025.0 99.7% 10.00 9.06 79 6345.0 99.7% 10.00 8.29 Left 111 6505.0 99.7% 10.00 8.18 143 6665.0 99.7% 10.00 8.80 207 6985.0 99.7% 10.00 8.74 | | | | | | | | | | | | | | | | |
| Product Specific 10-g N/A 0 15 6025.0 99.7% 10.00 9.06 79 6345.0 99.7% 10.00 8.29 111 6505.0 99.7% 10.00 8.18 143 6665.0 99.7% 10.00 8.80 207 6985.0 99.7% 10.00 8.74 | | | | | | | | | | | | | | | | 1 |
| Product Specific 10-g N/A 0 179 6345.0 99.7% 10.00 8.29 Left 111 6505.0 99.7% 10.00 8.18 143 6665.0 99.7% 10.00 8.80 207 6985.0 99.7% 10.00 8.74 | | | | | | TOP | | | | | | | | 0.010 | 0.024 | |
| Left 111 6505.0 99.7% 10.00 8.18 143 6665.0 99.7% 10.00 8.80 207 6985.0 99.7% 10.00 8.74 | | | | N/A | 0 | | | | | | | | | | | 1 |
| 143 6665.0 99.7% 10.00 8.80 207 6985.0 99.7% 10.00 8.74 | | Specific 10-g | | | Ĭ | Left | | | | | | | | | | 1 |
| 207 6985.0 99.7% 10.00 8.74 | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | 1 |
| | | | | | | Right | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | | | 0.000 | 0.000 | 1 |

Forder Opened configuration

SAR test results

| | RF Exposure | | PWR | Dist. | | | Freq. | Duty | Power | (dBm) | 1-g SAF | R (W/kg) | 10-g SA | R (W/kg) | - Plot |
|--------------|-------------------|-------------------|----------|-------|---------------|-------|--------|--------------|------------------|-------|---------|----------|---------|----------|--------|
| Antenna | Conditions | Mode | Back-off | (mm) | Test Position | Ch #. | (MHz) | Cycle (%) | Tune-up limit | Meas. | Meas. | Scaled | Meas. | Scaled | No. |
| | | | | | | 15 | 6025.0 | 99.7% | 10.00 | 9.07 | | | | | |
| | | | | | | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | | | | |
| | | | | | Rear | 111 | 6505.0 | 99.7% | 10.00 | 9.29 | | | | | |
| | UMPC Body | | N/A | 10 | | 143 | 6665.0 | 99.7% | 10.00 | 9.18 | | | | | |
| | 1g SAR | | IN/A | 10 | | 207 | 6985.0 | 99.7% | 10.00 | 9.36 | | | | | |
| | 3 - | | | | Front | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | | | | |
| | | | | | Тор | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | | | | |
| WLAN MIMO | | 802.11ax HE160 | | | Left | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | 0.003 | 0.003 | | | |
| Ant.1 | | 72.0 Mbps | | | Rear | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | | | | |
| | | | | | | 15 | 6025.0 | 99.7% | 10.00 | 9.07 | | | 0.170 | 0.211 | 4 |
| | | | | | | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | | 0.177 | 0.194 | |
| | UMPC Extremity | | N/A | 0 | Front | 111 | 6505.0 | 99.7% | 10.00 | 9.29 | | | 0.152 | 0.180 | |
| | 10g SAR | | INA | U | | 143 | 6665.0 | 99.7% | 10.00 | 9.18 | | | 0.159 | 0.193 | |
| | | | | | | 207 | 6985.0 | 99.7% | 10.00 | 9.36 | | | 0.109 | 0.127 | |
| | | | | | Тор | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | | | | |
| | | | | | Left | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | | | | |
| | | | | | | 15 | 6025.0 | 99.7% | 10.00 | 9.06 | 0.070 | 0.074 | | | |
| | | | | | | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | 0.047 | 0.070 | | | |
| | | | | | Rear | 111 | 6505.0 | 99.7% | 10.00 | 8.18 | 0.065 | 0.099 | | | |
| | UMPC Body | | N/A | 10 | | 143 | 6665.0 | 99.7% | 10.00 | 8.80 | 0.151 | 0.200 | | | 5 |
| | 1g SAR | | INA | 10 | | 207 | 6985.0 | 99.7% | 10.00 | 8.74 | 0.145 | 0.194 | | | |
| | .9 | | | | Front | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | 0.024 | 0.036 | | | |
| | | | | | Тор | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | 0.008 | 0.012 | | | |
| WLAN MIMO | | 802.11ax HE160 | | | Left | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | | | | | |
| Ant.2 | | 72.0 Mbps | | | Rear | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | | • | 0.075 | 0.111 | |
| | | | | | | 15 | 6025.0 | 99.7% | 10.00 | 9.06 | | | | | |
| | | | | | | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | | | | | |
| | UMPC Extremity | | N/A | 0 | Front | 111 | 6505.0 | 99.7% | 10.00 | 8.18 | | | | | |
| | 10g SAR | | IWA | U | | 143 | 6665.0 | 99.7% | 10.00 | 8.80 | | | | | |
| | .09 0 | | | | | 207 | 6985.0 | 99.7% | 10.00 | 8.74 | | | | | I |
| | | | | | Тор | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | | | 0.001 | 0.001 | |
| | | | | | Left | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | | | 0.066 | 0.098 | |

Forder Closed configuration

APD (Absorbed Power Density) results

| | RF Exposure | | PWR | Dist. | | | Freq. | Duty | Power | (dBm) | Measured | Plot |
|---------------|--------------------------|-------------------|----------|-------|---------------|-------|--|-------|---------|-------|---|--------------|
| Antenna | Conditions | Mode | Back-off | (mm) | Test Position | Ch #. | (MHz) | Cycle | Tune-up | Meas. | APD (22) (22) (22) (22) | No. |
| | | | | , , | | 70 | 0045.0 | (%) | limit | | (mW/cm ² over 4cm ²) | |
| | | | | | Left Touch | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | 0.0077 | |
| | | | | | Left Tilt | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | 0.0000 | |
| | | | | | | 15 | 6025.0 | 99.7% | 10.00 | 9.07 | 0.0213 | - |
| | Head | | N/A | 0 | Dight Touch | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | 0.0197 | |
| | | | | | Right Touch | 111 | 6505.0 | 99.7% | 10.00 | 9.29 | 0.0346 | 1 |
| | | | | | | | 1 | | | | 0.0098 | |
| | | | | | Right Tilt | | 1 | | | | | \vdash |
| | | - | | | Right filt | | | | | | | \vdash |
| | | | | | | | | | | | | \vdash |
| WLAN | Body-worn & | 000.44 | | | Rear | | - | | | | | \vdash |
| MIMO | Hotspot | 802.11ax HE160 | N/A | 10 | rcai | | | | | | | \vdash |
| Ant.1 | . 1010001 | 72.0 Mbps | | | | 207 | 1 | | | | | \vdash |
| | | | | | Front | | 1 | | | | 0.0080 | \vdash |
| | | | | | Rear | | | | | | 0.0009 | |
| | | | | | Front | | | | | | 0.0780 | ├ |
| | | | | | Top | | 1 | | | | 0.0709 | |
| | | | | | ТОР | | 1 | | | | 0.2070 | \vdash |
| | Product | | N/A | 0 | | 79 | - | | | | | |
| | Specific 10-g | | 1477 | | Rear-Left | 111 | 1 | | | | | 2 |
| | | | | | 1100. 2011 | 143 | 1 | | | | | |
| | | | | | | 207 | 1 | | | | | |
| | | | | | Rear-Right | 79 | - | | | | 0.1000 | \vdash |
| | | | | | Left Touch | 79 | | | | | | |
| | | | | | Left Tilt | 79 | - | | | | | |
| | | | | | | 15 | | | | | | |
| | | | | | | 79 | 1 | | | | | |
| | Head | | N/A | 0 | Right Touch | 111 | 1 | 99.7% | | 8.18 | | |
| | | | | | | 143 | 6665.0 | 99.7% | 10.00 | 8.80 | | |
| | | | | | | 207 | 6985.0 | 99.7% | 10.00 | 8.74 | 0.0111 | |
| | | | | | Right Tilt | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | | |
| | | | | | | 15 | 6025.0 | 99.7% | 10.00 | 9.06 | 0.0757 | |
| | | | | | | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | 0.0344 | |
| WLAN | Body-worn & | 802.11ax | NI/A | 40 | Rear | 111 | 6505.0 | 99.7% | 10.00 | 8.18 | 0.0580 | |
| MIMO Ant.2 | Hotspot | HE160 | N/A | 10 | | 143 | 6665.0 | 99.7% | 10.00 | 8.80 | 0.0886 | |
| AIII.2 | | 72.0 Mbps | | | | 207 | 6985.0 | 99.7% | 10.00 | 8.74 | 0.1630 | 3 |
| | | | | | Front | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | | |
| | | | | | Rear | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | 1.0200 | |
| | | | | | Front | 79 | 79 6345.0 99.7% 10.00 9.62 0.0089 79 6345.0 99.7% 10.00 9.62 0.0789 79 6345.0 99.7% 10.00 9.62 0.0789 79 6345.0 99.7% 10.00 9.62 0.2070 79 6345.0 99.7% 10.00 9.62 0.2920 11 6505.0 99.7% 10.00 9.29 0.3200 2 43 6665.0 99.7% 10.00 9.18 0.1730 0.1380 79 6345.0 99.7% 10.00 9.36 0.1380 0.1380 79 6345.0 99.7% 10.00 9.62 0.1380 0.1380 79 6345.0 99.7% 10.00 8.29 0.00 0.00 79 6345.0 99.7% 10.00 8.29 0.00 0.00 79 6345.0 99.7% 10.00 8.80 0.00 0.00 1007 | | | | | |
| | | | | | Тор | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | 0.0374 | |
| | Draduat | | | | | 15 | 6025.0 | 99.7% | 10.00 | 9.06 | | |
| | Product Specific 10-g | | N/A | 0 | | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | | |
| | -, | | | | Rear-Left | 111 | 6505.0 | 99.7% | 10.00 | 8.18 | | igsquare |
| | | | | | | 143 | 6665.0 | 99.7% | 10.00 | 8.80 | | |
| | | | | | | 207 | 6985.0 | | 10.00 | 8.74 | | |
| | | | | | Rear-Right | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | 0.0016 | |

Note(s):

- 1. APD (Absorbed Power Density) over 4cm^2 averaging area is reported based on SAR measurements.
- 2. $10 \text{ W/m}^2 = 1.0 \text{ mW/cm}^2$

Forder Opened configuration

APD (Absorbed Power Density) results

| | | | | | | | | Duty | Power | (dBm) | Measured | |
|---------------|------------------------------|--------------------|-----------------|---------------|---------------|-------|----------------|--------------|------------------|--|---|-------------|
| Antenna | RF Exposure Conditions | Mode | PWR Back-off | Dist. (mm) | Test Position | Ch #. | Freq. (MHz) | Cycle (%) | Tune-up limit | Meas. | APD (mW/cm ² over 4cm ²) | Plot No. |
| | | | | | | 15 | 6025.0 | 99.7% | 10.00 | 9.07 | | |
| | | | | | | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | |
| | = = | | | | Rear | 111 | 6505.0 | 99.7% | 10.00 | 9.29 | | |
| | UMPC Body | | N/A | 10 | | 143 | 6665.0 | 99.7% | 10.00 | 9.18 | | |
| | 1g SAR | | IN/A | 10 | | 207 | 6985.0 | 99.7% | 10.00 | 9.36 | | |
| | .9 | | | | Front | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | |
| | | | | | Тор | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | |
| WLAN MIMO | | 802.11ax HE160 | | | Rear-Left | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | 0.0033 | |
| Ant.1 | | 72.0 Mbps | | | Rear | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | |
| 7 | | 72.0500 | | | | 15 | 6025.0 | 99.7% | 10.00 | 9.07 | 0.3950 | |
| | | | | | | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | 0.4120 | 6 |
| | UMPC | | | | Front | 111 | 6505.0 | 99.7% | 10.00 | 9.29 | 0.3530 | |
| | Extremity 10g SAR | | N/A | 0 | | 143 | 6665.0 | 99.7% | 10.00 | 9.18 | 0.3690 | |
| | 10g SAR | | | | | 207 | 6985.0 | 99.7% | 10.00 | 9.36 | 0.2540 | |
| | .39 52.11 | | | | Тор | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | |
| | | | | | Rear-Left | 79 | 6345.0 | 99.7% | 10.00 | 9.62 | | |
| | | | | | Nour Lott | 15 | 6025.0 | 99.7% | 10.00 | 9.06 | 0.0493 | |
| | | | | | | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | 0.0339 | |
| | | | | | Rear | 111 | 6505.0 | 99.7% | 10.00 | 8.18 | 0.0461 | |
| | UMPC | | | 40 | | 143 | 6665.0 | 99.7% | 10.00 | 8.80 | 0.1070 | 5 |
| | Body 1g SAR | | N/A | 10 | | 207 | 6985.0 | 99.7% | 10.00 | 8.74 | 0.1010 | |
| | ig SAIX | | | | Front | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | 0.0193 | |
| | | | | | Тор | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | 0.0054 | |
| WLAN | | 802.11ax | | | Rear-Left | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | | |
| MIMO Ant.2 | | HE160 72.0 Mbps | | | Rear | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | 0.1730 | |
| AIII.2 | | 72.0 Mbps | | | | 15 | 6025.0 | 99.7% | 10.00 | 9.06 | | |
| | UMPC Extremity 10g SAR | | | | | 79 | 6345.0 | 99.7% | 10.00 | Meas. (mW/cm^2 over 4cm^2) 9.07 9.62 9.29 9.18 9.36 9.62 9.62 9.62 9.62 0.0033 9.62 9.07 9.62 0.4120 9.29 0.3530 9.18 0.3690 9.36 0.2540 9.62 9.62 9.62 9.62 9.62 9.04 9.62 9.06 9.62 9.06 9.62 9.01 9.62 9.02 9.62 9.02 9.62 9.02 9.62 9.02 9.62 9.02 9.62 9.02 9.62 9.02 9.62 9.02 9.62 9.02 9.62 9.02 9.62 9.02 9.62 9.02 9.62 9.02 9.62 9.02 9.62 9.03 | | |
| | | | | | Front | 111 | 6505.0 | 99.7% | 10.00 | 8.18 | | |
| | | | N/A | 0 | | 143 | 6665.0 | 99.7% | 10.00 | Meas. (mW/cm/2 over 4cm/2) 9.07 9.62 9.29 9.18 9.36 9.62 9.62 9.62 9.62 9.62 9.07 0.3950 9.62 9.18 0.3690 9.36 0.2540 9.62 9.62 9.62 9.62 9.62 9.18 0.3690 9.36 0.2540 9.62 9.63 9.64 9.65 9.65 9.75 9.75 8.74 0.1010 8.29 0.0193 8.29 0.1730 9.06 8.29 8.29 8.18 8.80 8.74 8.29 0.0180 | | |
| | Tog SAIX | | | | | 207 | 6985.0 | 99.7% | 10.00 | 8.74 | | |
| | | | | | Тор | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | 0.0180 | |
| | | | | | Rear-Left | 79 | 6345.0 | 99.7% | 10.00 | 8.29 | 0.1550 | |

Note(s):

- 1. APD (Absorbed Power Density) over 4cm^2 averaging area is reported based on SAR measurements.
- 2. $10 \text{ W/m}^2 = 1.0 \text{ mW/cm}^2$

10.2. UWB

SAR test results

Forder Closed configuration

| Antenna | RF Exposure Conditions | Mode | Dist. (mm) | Test Position | Ch #. | Freq. (MHz) | 10-g SAR (W/kg) | Plot No. |
|--------------|---------------------------|---------------|---------------|---------------|--|----------------|-----------------|------------------|
| | Cortailloris | | (11111) | | | (1011 12) | Meas. | INO. |
| | | | | Rear | 5 | 6489.6 | 0.000 | |
| | | | | ixeai | 9 | 7987.2 | 0.000 | 7 |
| 1.04/5 | | | | Front | 5 | 6489.6 | 0.000 | |
| UWB Ant.1 | Product | CW | 0 | TTOTIL | 9 | 7987.2 | 0.000 | |
| Ant.i | Specific 10-g | CVV | " | Top 5 | | 6489.6 | 0.000 | |
| | | 1 1 1 1 1 1 9 | | 9 | 7987.2 | 0.000 | | |
| | | | | Poor Bight | 5 | 6489.6 | 0.000 | |
| | | | | Rear-Right | Top 9 7987.2 0.000 ear-Right 5 6489.6 0.000 9 7987.2 0.000 | | | |
| LIMATE | | | | Rear | 9 | 7987.2 | 0.001 | |
| UWB Ant.2 | Product | CW | 0 | Front | 9 | 7987.2 | 0.000 | |
| Ant.2 | Specific 10-g | CVV | " | Тор | 9 | 7987.2 | 0.002 | 8 |
| | | | | Rear-Right | 9 | 7987.2 | 0.000 | , and the second |

Forder Opened configuration

| Antenna | RF Exposure Conditions | Mode | Dist. (mm) | Test Position | Ch #. | Freq. (MHz) | 10-g SAR (W/kg) Meas. | Plot No. |
|--------------|---------------------------|------|---------------|---------------|--|----------------|--------------------------|-------------|
| | | | | Poor | 5 | 6489.6 | 0.000 | |
| LBACE | | | Rear 9 798 | | 7987.2 | 0.001 | 9 | |
| UWB Ant.1 | UMPC | | | Front | 5 | 6489.6 | 0.000 | |
| Ant.i | | | 0 | FIOR | 9 | 7987.2 | 0.000 | |
| | Extremity | CW | | Тор | Meas. 5 6489.6 0.000 9 7987.2 0.001 5 6489.6 0.000 9 7987.2 0.000 9 7987.2 0.000 5 6489.6 0.000 9 7987.2 0.000 9 7987.2 0.000 ar 9 7987.2 0.000 ont 9 7987.2 0.000 ont 9 7987.2 0.000 | | | |
| | 10g SAR | | | тор | 9 | 7987.2 | 0.000 | |
| UWB | | | | Rear | 9 | 7987.2 | 0.000 | |
| Ant.2 | | | | Front | 9 | 7987.2 | 0.000 | 10 |
| 7 11.11.2 | | | | Тор | 9 | 7987.2 | 0.000 | · |

Note(s):

UWB Ant.1 has support to Ch.5 and Ch.9 and UWB Ant.2 has only support to Ch.9.

APD (Absorbed Power Density) results

Forder Closed configuration

| Antenna | RF Exposure Conditions | Mode | Dist. (mm) | Test Position | Ch #. | Freq. (MHz) | Measured APD (mW/cm^2 over 4cm^2) | Plot No. |
|--------------|---------------------------|-------------------|---------------|---------------|--------|----------------|---|-------------|
| | | | | Rear | 5 | 6489.6 | 0.0004 | |
| | | | 9 | | | 7987.2 | 0.0018 | 7 |
| 1.04/5 | | | | Front | 5 | 6489.6 | 0.0007 | |
| UWB Ant.1 | Product | CW | 0 | FIOR | 9 | 7987.2 | 0.0011 | |
| Ant.i | Specific 10-g | Specific 10-g Top | 5 | 6489.6 | 0.0008 | | | |
| | | | | ТОР | 9 | 7987.2 | 0.0008 | |
| | | | | Rear-Right | 5 | 6489.6 | 0.0012 | |
| | | | | Real-Right | 9 | 7987.2 | 0.0016 | |
| 1.14/5 | | | | Rear | 9 | 7987.2 | 0.0023 | |
| UWB Ant.2 | Product | CW | 0 | Front | 9 | 7987.2 | 0.0018 | |
| AIII.2 | Specific 10-g | CW | U | Тор | 9 | 7987.2 | 0.0038 | 8 |
| | | | | Rear-Right | 9 | 7987.2 | 0.0006 | |

Forder Opened configuration

| Antenna | RF Exposure Conditions | Mode | Dist. (mm) | Test Position | Ch #. | Freq. (MHz) | Measured APD (mW/cm^2 over 4cm^2) | Plot No. |
|--------------|---------------------------|------|---------------|---------------|------------------------------------|----------------|-----------------------------------|-------------|
| | | | | Rear | 5 | 6489.6 | 0.0004 | |
| 1.84/5 | UMPC | | | Near | 9 | 7987.2 | 0.0023 | 9 |
| UWB Ant.1 | | | | Front | 5 | 6489.6 | 0.0003 | |
| AIII. I | | | | FIOR | 9 | 7987.2 | 0.0005 | |
| | Extremity | CW | 0 | Тор | 9 7987.2 0.0005 5 6489.6 0.0002 | | | |
| | 10g SAR | | | ТОР | 9 | 7987.2 | 0.0006 | |
| UWB | | | | Rear | 9 | 7987.2 | 0.0005 | |
| Ant.2 | | | | Front | 9 | 7987.2 | 0.0006 | 10 |
| | | | | Тор | 9 | 7987.2 | 0.0004 | |

Note(s):

- 1. APD (Absorbed Power Density) over 4cm^2 averaging area is reported based on SAR measurements.
- 2 10 W/m² = 1.0 mW/cm²

11. IPD(Incident Power density) Results

11.1. WiFi (UNII Bands-Above 6GHz)

Forder Closed configuration

| Antenna | Mode | Test Position | Dist. | Ch. | Freq. (MHz) | Duty Cycle | Grid Step | iPD Note.4 (m W/cm ^2) | Power | (dBm) | Measured. Normal psPD | Measured. Total psPD | Reported. Normal psPD Note.3 | Reported. Total psPD Note3 | Scailing factor for Measurement Uncertainty per | Scaled Normal psPD | Scaled Total ps PD | Note. | Plot | |
|---------------|---------------|---------------|-------|--------|-------------|------------|-----------|---------------------------|------------------|--------|-----------------------------|----------------------------|------------------------------------|----------------------------------|---|--------------------------|--------------------------|--------|------|--|
| | | | ` ' | | | | () | , , , | Tune-up limit | Meas. | mW/cm^2 | mW/cm^2 | m W/cm ^2 | mW/cm^2 | IEC 62479 Note.2 | mW/cm^2 | mW/cm^2 | | | |
| | | | | 15 | 6025.0 | 99.7% | 0.041 | N/A | 10.00 | 9.07 | | | | | 1.541 | | | | | |
| | | | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 9.62 | | | | | 1.541 | | | | | |
| | | Rear | | 111 | 6505.0 | 99.7% | 0.044 | N/A | 10.00 | 9.29 | | | | | 1.541 | | | | | |
| WLAN | MIMO 802.11ax | | | 143 | 6665.0 | 99.7% | 0.045 | N/A | 10.00 | 9.18 | | | | | 1.541 | | | | | |
| | | | 2.00 | 207 | 6985.0 | 99.7% | 0.047 | N/A | 10.00 | 9.36 | | | | | 1.541 | | | | | |
| Ant.1 | Front | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 9.62 | 0.0502 | 0.0547 | 0.0548 | 0.0597 | 1.541 | 0.0844 | 0.0920 | | | | |
| | | Тор | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 9.62 | | | | | 1.541 | | | | | |
| | | Left | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 9.62 | 0.0803 | 0.0885 | 0.0877 | 0.0966 | 1.541 | 0.1351 | 0.1489 | | | |
| | | Right | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 9.62 | | | | | 1.541 | | | | | |
| | | | Rear | | 15 | 6025.0 | 99.7% | 0.041 | 0.0837 | 10.00 | 9.06 | 0.1190 | 0.1320 | 0.1480 | 0.1640 | 1.541 | 0.2281 | 0.2527 | 4 | |
| | | | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 8.29 | 0.0993 | 0.1090 | 0.1470 | 0.1620 | 1.541 | 0.2265 | 0.2496 | | | |
| | | Rear | | 111 | 6505.0 | 99.7% | 0.044 | N/A | 10.00 | 8.18 | 0.1380 | 0.1560 | 0.2100 | 0.2370 | 1.541 | 0.3236 | 0.3652 | | | |
| | | | | 143 | 6665.0 | 99.7% | 0.045 | N/A | 10.00 | 8.80 | 0.2320 | 0.2740 | 0.3050 | 0.3610 | 1.541 | 0.4700 | 0.5563 | | | |
| WLAN | 802.11ax | | 2.00 | 207 | 6985.0 | 99.7% | 0.047 | N/A | 10.00 | 8.74 | 0.2240 | 0.2850 | 0.3000 | 0.3810 | 1.541 | 0.4623 | 0.5871 | | 11 | |
| MIMO Ant.2 | HE 160 | Front | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 8.29 | | | | | 1.541 | | | | | |
| | | Тор | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 8.29 | 0.0307 | 0.0329 | 0.0455 | 0.0488 | 1.541 | 0.0701 | 0.0752 | | | |
| | | Left | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 8.29 | | | | | 1.541 | | | | | |
| | | Right | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 8.29 | 0.0171 | 0.0175 | 0.0254 | 0.0260 | 1.541 | 0.0391 | 0.0401 | | | |
| | | Rear | 9.96 | 15 | 6025.0 | 99.7% | 0.041 | 0.0893 | 10.00 | 9.06 | 0.0782 | 0.0828 | 0.0972 | 0.1030 | 1.541 | 0.1498 | 0.1587 | 4 | | |

Forder Opened configuration

| Antenna | Mode | Test Position | Dist. | Ch. | Freq. (MHz) | Duty Cycle | Grid Step (Lamda) | iPD Note.4 (m W/cm^2) | Power | (dBm) | Measured. Normal psPD | Measured. Total psPD | Reported. Normal psPD Note.3 | Reported. Total psPD Note3 | Scailing factor for Measurement Uncertainty per | Scaled Normal psPD | Scaled Total psPD | Note. | Plot No. |
|--------------|----------|---------------|-------|-----|-------------|------------|----------------------|--------------------------|------------------|-------|-----------------------------|----------------------------|------------------------------------|----------------------------------|---|--------------------------|-------------------------|-------|-------------|
| | | | () | | | | (Lamaa) | (| Tune-up limit | Meas. | mW/cm^2 | mW/cm^2 | m W/cm ^2 | mW/cm^2 | IEC 62479 Note.2 | mW/cm^2 | mW/cm^2 | | |
| | | Rear | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 9.62 | | | | | 1.541 | | | | |
| | | | | 15 | 6025.0 | 99.7% | 0.041 | N/A | 10.00 | 9.07 | 0.0559 | 0.0726 | 0.0693 | 0.0900 | 1.541 | 0.1068 | 0.1387 | | |
| | | | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 9.62 | 0.0971 | 0.1090 | 0.1060 | 0.1190 | 1.541 | 0.1633 | 0.1834 | | |
| WLAN MIMO | 802.11ax | Front | 2.00 | 111 | 6505.0 | 99.7% | 0.044 | N/A | 10.00 | 9.29 | 0.0930 | 0.1120 | 0.1100 | 0.1320 | 1.541 | 0.1695 | 0.2034 | | |
| Ant.1 | HE 160 | | 2.00 | 143 | 6665.0 | 99.7% | 0.045 | N/A | 10.00 | 9.18 | 0.0784 | 0.0940 | 0.0946 | 0.1140 | 1.541 | 0.1458 | 0.1757 | | |
| | | | | 207 | 6985.0 | 99.7% | 0.047 | N/A | 10.00 | 9.36 | 0.1020 | 0.1250 | 0.1180 | 0.1450 | 1.541 | 0.1818 | 0.2234 | | 12 |
| | | Тор | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 9.62 | 0.0236 | 0.0256 | 0.0258 | 0.0280 | 1.541 | 0.0398 | 0.0431 | | |
| | | Left | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 9.62 | 0.0561 | 0.0634 | 0.0612 | 0.0692 | 1.541 | 0.0943 | 0.1066 | | |
| | | Rear | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 8.29 | 0.0860 | 0.0926 | 0.1270 | 0.1370 | 1.541 | 0.1957 | 0.2111 | | |
| | | | | 15 | 6025.0 | 99.7% | 0.041 | N/A | 10.00 | 9.06 | | | | | 1.541 | | | | |
| | | | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 8.29 | | | | | 1.541 | | | | |
| WLAN MIMO | 802.11ax | Front | 2.00 | 111 | 6505.0 | 99.7% | 0.044 | N/A | 10.00 | 8.18 | | | | | 1.541 | | | | |
| Ant.2 | HE 160 | | 2.00 | 143 | 6665.0 | 99.7% | 0.045 | N/A | 10.00 | 8.80 | | | | | 1.541 | | | | |
| | | | | 207 | 6985.0 | 99.7% | 0.047 | N/A | 10.00 | 8.74 | | | | | 1.541 | | | | |
| | | Тор | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 8.29 | 0.0236 | 0.0256 | 0.0350 | 0.0380 | 1.541 | 0.0539 | 0.0586 | | |
| | | Left | | 79 | 6345.0 | 99.7% | 0.043 | N/A | 10.00 | 8.29 | | | | | 1.541 | | | | |

Note(s):

- 1. $10 \text{ W/m}^2 = 1.0 \text{ mW/cm}^2$
- 2. Per TCBC workshop guide, Incident power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.65 dB (84.1%) was used to determine the psPD measurement scalling factor.
- 3. Power density test data were scaled to tune-up limit using measurement system tool.
- 4. Grid Step setting were using the automatic grid step function of measurement system tool.
- 5. Per manufacturer guide, Incident power density was measured at d=2mm and d=Lamda/5mm using the same grid size and grid step size for some frequencies and surfaces. iPD(integrated Power Density) was calculated based on these measurements. Since iPD ratio between the two distance is < 1dB, the grid step was sufficient for determining compliance at d=2mm.

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11.2. UWB

Forder Closed configuration

| Antenna | Mode | Test Position | Dist. (mm) | Ch. | Freq. (MHz) | Grid Step (Lamda) | Meas. Normal psPD | Meas. Total psPD | Scailing factor for Measurement Uncertainty per | Scaled Normal psPD | Scaled Total psPD | Note. | Plot No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|------|------------------|---------------|------|-------------|----------------------|-------------------------|------------------------|---|--------------------------|-------------------------|--------|-------------|--|-------------|---|---|--------|--------------------|---|--|---|---|---|--|--|--------|-------------|---------------|-------------|-------------|---|---------|------|---------|----------|--------|--------|--------|--------|--------|---|---|---------|---------|--------|--------|--------|--------|--------|--------|--|--|
| | | | | | | | mW/cm^2 | m W/cm ^2 | IEC 62479 Note.2 | m W/cm ^2 | m W/cm ^2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Rear | ear | 5 | 6489.60 | 0.04 | 0.0057 | 0.0065 | 1.541 | 0.0088 | 0.0100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Real | | 9 | 7987.20 | 0.04 | 0.0046 | 0.0066 | 1.541 | 0.0071 | 0.0102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Front | | | | 5 | 6489.60 | 0.04 | 0.0087 | 0.0096 | 1.541 | 0.0134 | 0.0148 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UWB | | | | 9 | 7987.20 | 0.04 | 0.0089 | 0.0095 | 1.541 | 0.0137 | 0.0146 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ant. 1 | | | | 5 | 6489.60 | 0.04 | 0.0137 | 0.0137 | 1.541 | 0.0211 | 0.0211 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CW | | 2.00 | 2.00 | 9 | 7987.20 | 0.04 | 0.0109 | 0.0123 | 1.541 | 0.0168 | 0.0190 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 5 | 6489.60 | 0.04 | 0.0138 | 0.0143 | 1.541 | 0.0213 | 0.0220 | | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Right | | | | | | | | | | | | | - - - | = | = | - - | - - - | = | | _ | - | - | | | - - | - - - | = = - - | = - - | - - - | - | - | 9 | 7987.20 | 0.04 | 0.0067 | 0.0081 | 1.541 | 0.0103 | 0.0125 | | | | | | | | | | | | |
| | | Rear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9 | 7987.20 | 0.04 | 0.0119 | 0.0125 | 1.541 | 0.0183 | 0.0193 | | 14 | | | | | | | | | | | | |
| UWB | | Front | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | - | | | | <u> </u> | | | | | | - | _ | 9 | 7987.20 | 0.04 | 0.0095 | 0.0106 | 1.541 | 0.0146 | 0.0163 | | |
| Ant. 2 | | Edge 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9 | 7987.20 | 0.04 | 0.0114 | 0.0119 | 1.541 | 0.0176 | 0.0183 | | | |
| | | Right | | | 9 | 7987.20 | 0.04 | 0.0064 | 0.0086 | 1.541 | 0.0099 | 0.0133 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Forder Opened configuration

| Antenna | Mode | Test Position | Dist. (mm) | Ch. | Freq. (MHz) | Grid Step (Lamda) | Meas. Normal psPD mW/cm^2 | Meas. Total psPD mW/cm^2 | Scailing factor for Measurement Uncertainty per IEC 62479 Note.2 | Scaled Normal psPD mW/cm^2 | Scaled Total psPD mW/cm^2 | Note. | Plot No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|------------------|---------------|------|-------------|----------------------|------------------------------------|-----------------------------------|---|-------------------------------------|------------------------------------|--------|-------------|--------|--------------|---|--------|--|---|--|--|--|---|---|--------|---------|------|--------|--------------|-------|--------|--------|---|---------|------|--------|--------|-------|---------|--------|--------|--------|-------|--------|--------|--|----|
| | | Deen | | 5 | 6489.60 | 0.04 | 0.0093 | 0.0098 | 1.541 | 0.0143 | 0.0151 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Rear | | 9 | 7987.20 | 0.04 | 0.0099 | 0.0108 | 1.541 | 0.0153 | 0.0166 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UWB | | Front | | 5 | 6489.60 | 0.04 | 0.0108 | 0.0116 | 1.541 | 0.0166 | 0.0179 | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ant. 1 | | | ıı | 2.00 | 9 | 7987.20 | 0.04 | 0.0103 | 0.0108 | 1.541 | 0.0159 | 0.0166 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CW | | | | 2.00 | 2.00 | 2.00 | 5 | 6489.60 | 0.04 | 0.0093 | 0.0100 | 1.541 | 0.0143 | 0.0154 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Тор | | | | | | | | | ı | | | | | | | | | | | | ı | Ì | 9 | 7987.20 | 0.04 | 0.0097 | 0.0106 | 1.541 | 0.0149 | 0.0163 | | | | | | | | | | | | | | | |
| LIME | | Rear | Rear | | | | | | | | | | | | | - | = - | | - | | | | | | = - | - | | | | = | - | - | | | | | | 9 | 7987.20 | 0.04 | 0.0121 | 0.0135 | 1.541 | 0.0186 | 0.0208 | | 16 |
| UWB Ant. 2 | | Front | Front | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9 | 7987.20 | 0.04 | 0.0111 | 0.0126 | 1.541 | 0.0171 | 0.0194 | | | | | | | |
| 7 411. 2 | Ant. 2 | Edge 1 | | 9 | 7987.20 | 0.04 | 0.0124 | 0.0131 | 1.541 | 0.0191 | 0.0202 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note(s):

- 1. $10 \text{ W/m}^2 = 1.0 \text{ mW/cm}^2$
- 2. Per TCBC workshop guide, Incident power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.65 dB (84.1%) was used to determine the psPD measurement scalling factor.
- 3. IPD verification is not considered in UWB. because the test was conducted with the lowest grid step of WIFI 6e and was verified.

Simultaneous Transmission Analysis 12.

Please refer to section.12 in FCC SAR report S1.

Appendixes

Refer to separated files for the following appendixes.

4790841160-S2 FCC Report Above 6GHz_App A_PD Photos & Ant. Locations 4790841160-S2 FCC Report Above 6GHz App B Highest SAR and PD Test Plots 4790841160-S2 FCC Report Above 6GHz _App C_System Check Plots 4790841160-S2 FCC Report Above 6GHz _App D_SAR Tissue Ingredients 4790841160-S2 FCC Report Above 6GHz _App E_Probe Cal. Certificates 4790841160-S2 FCC Report Above 6GHz _App F_Dipole and Horn antenna Cal. Certificates

END OF REPORT