

TEST REPORT

FCC SAR Test for NX-3210R-K3

Class II Permissive Change

APPLICANTJVCKENWOOD Corporation

REPORT NO. HCT-SR-2502-FC006.

DATE OF ISSUE February 10, 2025

Tested by Hae Sun Park

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TEST REPORT

FCC SAR Test for C2PC certification

REPORT NO.

HCT-SR-2502-FC006

DATE OF ISSUE

Feb. 10, 2025

FCC ID:

K44523700

| Applicant | JVCKENWOOD Corporation 3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan |
|------------------------------|---|
| Equipment Type Model Name | VHF DIGITAL TRANSCEIVER NX-3210R-K3 |
| Application Type | Class II Permissive Change |
| Date of Test | Jan. 14, 2025 |
| Location of Test | ■ Permanent Testing Lab □ On Site Testing Lab (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea) |
| Test Standard Used | 47CFR § 2.1093 |
| Test Results | PASS (SAR Limit: 8.0 W/kg) Refer to the clause 3.3 Test Result |
| | The result shown in this test report refer only to the sample(s) tested unless otherwise stated. This test results were applied only to the test methods required by the standard. |

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REVISION HISTORY

The revision history for this test report is shown in table.

| Revision No. | Date of Issue | Description |
|--------------|---------------|-----------------|
| 0 | Feb. 10, 2025 | Initial Release |

Notice

Content

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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1. Test Regulations

The tests were performed according to the following regulations:

| Test Standard | IEEE Standard 1528-2013 & KDB procedures |
|---------------|--|
| Test Method | FCC KDB Publication 447498 D01 General SAR Guidance v06 FCC KDB Publication 865664 D01 SAR measurement 100 Mt to 6 GHz v01r04 FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02 FCC KDB Publication 865664 D02 SAR Reporting v01r02 FCC KDB Publication 643646 D01 SAR Test for PTT Radios v01r03 |

2. Test Location

2.1 Test Laboratory

| Company Name | HCT Co., Ltd. |
|--------------|--|
| Address | 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea |
| Telephone | 031-645-6300 |
| Fax. | 031-645-6401 |

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3. Information of the EUT

3.1 General Information of the EUT

| Model Name | NX-3210R-K3 |
|------------------|----------------------------|
| Equipment Type | VHF DIGITAL TRANSCEIVER |
| FCC ID | K44523700 |
| Application Type | Class II Permissive Change |
| Applicant | JVCKENWOOD Corporation |

3.3 Host DUT description



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3.3 Attestation of test result of device under test

| Band | Tx. Frequency | Equipment Class | Reported 1g SAR (W/kg) | |
|------------------------------------|---------------|-----------------|------------------------|---------------------|
| | | | Hand-held to face | Body-Worn Belt clip |
| | | | SAR | SAR |
| VHF | 150 ~ 174 | TNF | 0.544 | 2.960 |
| Simultaneous transmission analysis | | 0.569 | 3.086 | |
| Date(s) of Tests: | Jan. 14, 2025 | | | |

Note

1. The Duty Cycle of PTT was 50% applied.(VHF)

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4. Output Power Specifications

This device operates using the following maximum output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB publication 447498 D01v06.

4.1 Maximum Output Power

| Band | Frequency | Maximum Power |
|----------------|----------------------|---------------|
| VHF | 150 MHz ~ 174 MHz | 5.5 W |
| Bluetooth / LE | 2 402 MHz ~ 2480 MHz | 2.5 mW |

(VHF: Target 5W, Tolerance: -0.5W, +0.5W)

4.2 Output Average Conducted Power

4.2.1 VHF Conducted Power

| Frequency (Mtz) | Туре | Channel | Power (dBm) |
|-----------------|--------|---------|-------------|
| 150.05 | Analog | 9 | 36.75 |
| 158.05 | Analog | 10 | 36.58 |
| 166 | Analog | 11 | 36.60 |
| 173.95 | Analog | 12 | 36.72 |

For FCC Band:

Per KDB 447498 D01v06 Page 7 section 6) pages 7-8, the number of channels required to be tested is as follows.

 $F_{high} = 174 MHz$

 $F_c = 162 MHz$

 $F_{Low} = 150 MHz$

 $N_c = Round \{ [100(f_{high} - f_{low}) / f_c]^{0.5} X (f_c / 100)^{0.2} \} = Round \{ [100(174-150) / 162]^{0.5} X (162/100)^{0.2} \} = 4 (100(174-150) / 162)^{0.5} X (162/100)^{0.2} Y (1$

Therefore, for the frequency band from 150.05 MHz to 173.95 MHz, 4channels are required for testing.

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5. SAR Test Exclusion Applied

Bluetooth for FCC

Per FCC KDB 447498 D01v06, The SAR exclusion threshold for distance < 50mm is defined by the following equation:

 $\frac{\textit{Max Power of Channel(mW)}}{\textit{Test Separation Distance (mm)}} * \sqrt{\textit{Frequency(GHz)}} \leq 3.0 \; \text{for} \; 1 - g \; \text{SAR}$

| Mode | Frequency [MHz] | Maximum Allowed Power [mW] | Separation Distance [mm] | ≤ 3.0 for 1g SAR |
|-------------|-----------------|----------------------------------|--------------------------------|------------------|
| Divistantla | | | 5 | 0.9 |
| Bluetooth | 2 480 | 3.0 | 25 | 0.2 |

Based on the maximum conducted power of Bluetooth and antenna to use separation distance, Bluetooth SAR was not required $[(3/5)^*\sqrt{2.480}] = 0.9 < 3.0$, $[(3/25)^*\sqrt{2.480}] = 0.2 < 3.0$

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D01v06 IV.C.1iii, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is $\leq 1.6 \text{W/kg}$. When standalone SAR is not required to be measured per FCC KDB 447498 D01v06 4.3.22, the following equation must be used to estimate the standalone 1-g SAR and 10g SAR for simultaneous transmission assessment involving that transmitter.

Estimated SAR =
$$\frac{\sqrt{f(GHZ)}}{7.5} * \frac{(Max \ Power \ of \ channel \ mW)}{Min \ Seperation \ Distance}$$
.

Estimated 1-g SAR

| Mode | Frequency [MHz] | Maximum Allowed Power [mW] | Separation Distance (Body) [mm] | Estimated 1g SAR (Body) [W/kg] |
|-----------|--------------------|----------------------------------|---------------------------------------|--------------------------------------|
| Dlustooth | 2 480 | 2.0 | 5 | 0.126 |
| Bluetooth | 2 400 | 3.0 | 25 | 0.025 |

Note:

- 1) The Estimated SAR results were determined according to FCC KDB447498 D01v06.
- 2) BT's maximum output Power was calculated with a round up
- 3) The frequency of Bluetooth using for estimated SAR was selected highest channel of Bluetooth for highest estimated SAR.

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5. Manufacturer's Accessory List

| Part Nol. | Description | Accessory Type | Accessory |
|-----------|--|------------------------|-----------|
| KRA-22M | VHF Low Profile Helical Antenna (146-162 MHz) | | 1 |
| KRA-22M2 | VHF Low Profile Helical Antenna (162-174 MHz) | | 2 |
| KRA-22M3 | VHF Low Profile Helical Antenna (135-150 MHz) | | 3 |
| KRA-26M | VHF Helical Antenna (146-162 MHz) | | 4 |
| KRA-26M2 | VHF Helical Antenna (162-174 MHz) | | 5 |
| KRA-26M3 | VHF Helical Antenna (135-150MHz) | Antenna | 6 |
| KRA-41M | VHF Stubby antenna (146-162 MHz) | | 7 |
| KRA-41M2 | VHF Stubby antenna (162-174 MHz) | | 8 |
| KRA-41M3 | VHF Stubby antenna (136-150 MHz) | | 9 |
| KRA-25 | High gain VHF helically loaded whip antenna (148-162 MHz) | | 10 |
| KRA-28 | Broad-band VHF helically loaded whip antenna (140-170 MHz) | | 11 |
| KNB-L1 | 2000mAh Li-ion Battery | | 1 |
| KNB-L2 | 2600mAh Li-ion Battery | Battery | 2 |
| KNB-L3 | 3400mAh Li-ion Battery | Patton/ | 3 |
| KNB-L11 | 3900mAh Li-ion Battery | Башегу | 4 |
| KNB-L12 | 3000mAh Li-ion Battery | | 5 |
| KNB-L13 | 4000mAh Li-ion Battery | | 6 |
| KBH-10 | Belt Clip | | 1 |
| KBH-11 | Belt Clip | | 2 |
| KLH-200K3 | Leather Case (Full key) | Accessories | 3 |
| KLH-201K3 | Nylon Case (Full key) | | 4 |
| KEP-1 | 3.5mm earphone | | 1 |
| KHS-11BL | 2-wire mic w/earphone (Black) | | 2 |
| KHS-12BL | 3-wire mic w/earphone (Black, non TDMA) | Miorophora | 3 |
| KHS-14 | Light Weight headset | Microphones & Audio | 4 |
| KHS-15-BH | Heavy-duty behind-the-headset (non TDMA) | Accessories | 5 |
| KHS-15-OH | Heavy-duty over-the-headset (non TDMA) | Accessories | 6 |
| KMC-70 | Speaker Microphone | | 7 |
| KMC-72 | Speaker Microphone | | 8 |

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* Note: Battery Dimensions

| | - | | | | | |
|---------|------------------------|-------------------------|--|--|--|--|
| No. | description | Size (mm) | | | | |
| KNB-L1 | 2000mAh Li-ion Battery | WHD 58 x 116.4 x 17.5 | | | | |
| KNB-L2 | 2600mAh Li-ion Battery | WHD 58 x 116.4 x 20.5 | | | | |
| KNB-L3 | 3400mAh Li-ion Battery | WHD 58 x 116.4 x 25.9 | | | | |
| KNB-L11 | 3900mAh Li-ion Battery | WHD 58 x 116.4 x 27.9 | | | | |
| KNB-L12 | 3000mAh Li-ion Battery | WHD 58.0 x 116.4 x 19.4 | | | | |
| KNB-L13 | 4000mAh Li-ion Battery | WHD 58.0 x 116.4 x 23.5 | | | | |

This SAR report is the result of a change test for the addition of a battery Since the additional battery has the biggest capacity of the battery, the Head Face SAR test were performed the Full SAR test and the body worn SAR were evaluated under the thinnest battery.

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* Radio Face Test (Hand-held to Face)

| | Battery 5 | | | | | | | | | | | |
|--|-----------|-------|-------|-------|-----------|-------|-------|--------|--------|---------|--|--|
| Ant.1 | Ant.2 | Ant.3 | Ant.4 | Ant.5 | Ant.6 | Ant.7 | Ant.8 | Ant. 9 | Ant.10 | Ant. 11 | | |
| Yes | Yes | No | Yes | Yes | No | Yes | Yes | No | Yes | Yes | | |
| | | | | | Battery 6 | | | | | | | |
| Ant.1 Ant.2 Ant.3 Ant.4 Ant.5 Ant.6 Ant.7 Ant.8 Ant.9 Ant.10 Ant. 11 | | | | | | | | | | Ant. 11 | | |
| Yes | Yes | No | Yes | Yes | No | Yes | Yes | No | Yes | Yes | | |

* Radio Body Test (Body-Worn)

| Mircophones & Audio | Battery | | | | | | | | | |
|---------------------|---------|-----|-----|-----|-----|-----|--|--|--|--|
| Accessory | 1 | 2 | 3 | 4 | 5 | 6 | | | | |
| 1 | No | No | No | No | No | No | | | | |
| 2 | No | No | No | No | No | No | | | | |
| 3 | No | No | No | No | No | No | | | | |
| 4 | No | No | No | No | No | No | | | | |
| 5 | No | No | No | No | No | No | | | | |
| 6 | No | No | No | No | No | No | | | | |
| 7 | Yes | Yes | Yes | Yes | Yes | Yes | | | | |
| 8 | No | No | No | No | No | No | | | | |

^{*} Manufacture's disclosed accessory listing information provided by Kenwood corporation.

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6. Introduction

The FCC has adopted the guidelines for evaluating the environmental effects of radio frequency radiation in ET Docket 93-62 on Aug. 6, 1996 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices.

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York 10017. The measurement procedure described in IEEE/ANSI C95.3-1992 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave is used for guidance in measuring SAR due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in Biological Effects and Exposure Criteria for Radio Frequency Electromagnetic Fields," NCRP Report No. 86 NCRP, 1986, Bethesda, MD 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

SAR Definition

Specific Absorption Rate (SAR) is defined as the time derivative of the incremental electromagnetic energy (d W) absorbed by (dissipated in) an incremental mass (d m) contained in a volume element (d V) of a given density (r). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body.

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right)$$

Figure 1. SAR Mathematical Equation SAR is expressed in units of Watts per Kilogram (W/kg)

$$SAR = \sigma E^2 / \rho$$

Where:

 σ = conductivity of the tissue-simulant material (S/m) ρ = mass density of the tissue-simulant material (kg/m³) E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relations to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.

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7. Description of test equipment

7.1 SAR MEASUREMENT SETUP

These measurements are performed using the DASY5 automated dosimetric assessment system. It is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland. It consists of high precision robotics system (Staubli), robot controller, Pentium III computer, near-field probe, probe alignment sensor, and the generic twin phantom containing the brain equivalent material. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF) (see Figure.2).

A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The PC with Windows XP or Windows 7 is working with SAR Measurement system DASY5, A/D interface card, monitor, mouse, and keyboard. The Staubli Robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electrooptical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.

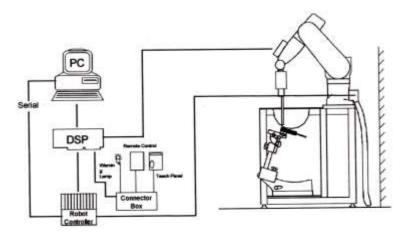


Figure 2. HCT SAR Lab. Test Measurement Set-up

The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer. The system is described in detail in.

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7.2 ELI Phantom

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range

of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-1528 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG diametric probes and dipoles.



Figure 6.1 ELI Phantom

Shell Thickness Filling Volume Dimensions $\begin{array}{l} \text{2.0} \pm \text{0.2mm} \\ \text{approx. 30 liters} \\ \text{Major axis: 600 mm, Minor axis: 400 mm} \end{array}$

7.3 Device Holder for Transmitters

Device Holder - Mounting Device

In combination with the SAM Phantom, the Mounting Device enables the rotation of the mounted transmitter in spherical coordinates whereby the rotation points is the ear opening. The devices can be easily, accurately, and repeatable positioned according to the EN 50360:2001/A:2001 and FCC KDB specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).

Note: A simulating human hand is not used due to the complex anatomical and geometrical structure of the hand that may produced infinite number of configurations. To produce the Worst-case condition (the hand absorbs antenna output power), the hand is omitted during the tests.



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7.4 Validation Dipole

The reference dipole should have a return loss better than -20 dB (measured in the setup) at the resonant frequency to reduce the uncertainty in the power measurement.

CLA

| | System Validation Dipole | | | | | | | | | | |
|---------------------|---|---------|--|--|--|--|--|--|--|--|--|
| Description | Narrowband antenna is used to simulate the 30-220 Mb range and calculates the SAR antenna system calibration value. A resonant loop antenna is integrated in a metal structure from the environment of the resonant structure. | CLA-180 | | | | | | | | | |
| Frequency | 150 MHz | | | | | | | | | | |
| Return Loss | > 10 dB at specified validation position | | | | | | | | | | |
| Power Capability | >10 W continuous | | | | | | | | | | |
| Dimension | CLA150: dipole length: 222.0 mm; overall height: 95.0 mm | | | | | | | | | | |

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7.5 Brain & Muscle Tissue Simulating Mixture Characterization

The brain and muscle mixtures consist of a viscous gel using hydrox-ethyl cellulose (HEC) gelling agent and

saline solution (see Table 1). Preservation with a bactericide is added and visual inspection is made to make sure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the desired tissue. The mixture characterizations used for

the brain and muscle tissue simulating liquids are according to the data by C. Gabriel and G. Hartsgrove.

| Frequency (MHz) | 30 | 5 | 0 | 1 | 44 | 450 | | 835 | 90 | 00 |
|---|-------|-------|-------|-------|-------|-----------|------|-------|-------|------|
| Recipe source number | 3 | 3 | 2 | 2 | 3 | 2 | 4 | 2 | 2 | 4 |
| Ingredients (% by weight) | | | | | | | | | | |
| Deionised water | 48,30 | 48,30 | 53,53 | 55,12 | 48,30 | 48,53 | 56 | 50,36 | 50,31 | 56 |
| Tween | | | 44,70 | 43,31 | | 49,51 | | 48,39 | 48,34 | |
| Oxidised mineral oil | | | | | | | 44 | | | 44 |
| Diethylenglycol monohexylether | | | | | | | | | | |
| Triton X-100 | | | | | | | | | | |
| Diacetin | 50,00 | 50,00 | | | 50,00 | | | | | |
| DGBE | | | | | | | | | | |
| NaCl | 1,60 | 1,60 | 1,77 | 1,57 | 1,60 | 1,96 | | 1,25 | 1,35 | |
| Additives and salt | 0,10 | 0,10 | | | 0,10 | | | | | |
| Measured dielectric paramete | rs | | | | | | | • | | |
| €,' | 54,2 | 53,1 | 54,54 | 52,81 | 51,0 | 43,29 | 42,3 | 41,6 | 41,0 | 40,6 |
| σ (S/m) | 0,75 | 0,75 | 0,76 | 0,76 | 0,77 | 0,88 | 0,84 | 0,90 | 0,98 | 0,98 |
| Temp. (*C) | | | 21 | 21 | | 21 | 20 | 21 | 21 | 20 |
| ε_temp_liquid _{un certainty} (%) | 0,8 | 0,1 | | | 0,1 | 0,1 | | 0,04 | 0,04 | |
| σ_temp_liquid _{uncertainty} (%) | 2,8 | 2,8 | | | 2,6 | 4,2 | | 1,6 | 1,6 | |
| Target values (from Table 1) | • | • | • | • | • | • | | • | • | • |
| £,' | 55,0 | 54 | ,5 | 52 | 2,4 | 43,5 41,5 | | 41,5 | | |
| σ (S/m) | 0,75 | 0, | 75 | 0, | 76 | 0,87 0,90 | | | 0,9 | 97 |

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8. SAR Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013.

- 1. The SAR distribution at the exposed side of the head or body was measured at a distance no more than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the DUT's head and body area and the horizontal grid resolution was depending on the FCC KDB 865664 D01v01r04 table 4-1 & IEEE 1528-2013.
- 2. Based on step, the area of the maximum absorption was determined by sophisticated interpolations routines implemented in DASY software. When an Area Scan has measured all reachable point. DASY system computes the field maximal found in the scanned are, within a range of the maximum. SAR at this fixed point was measured and used as a reference value.
- 3. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB 865664 D01v01r04 table 4-1 and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (reference from the DASY manual.)
 - a. The data at the surface were extrapolated, since the center of the dipoles is no more than 2.7 mm away from the tip of the probe (it is different from the probe type) and the distance between the surface and the lowest measuring point is 1.2 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
 - b. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed using the 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions. The volume was integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- 3. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan. If the value changed by more than 5 %, the SAR evaluation and drift measurements were repeated.

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Area scan and zoom scan resolution setting follow KDB 865664 D01v01r04 quoted below.

| | | | ≤ 3 GHz | > 3 GHz | |
|---|------------|---|--|---|--|
| Maximum distance fro point (geometric center of p surface | | | 5±1 mm | · δ· ln(2)±0.5 mm | |
| Maximum probe angle surface normal at the | | | 30° ±1 ° | 20° ±1 ° | |
| | | | ≤ 2 GHz: ≤15 mm 2-3 GHz: ≤12 mm | 3-4 GHz: ≤12 mm 4-6 GHz: ≤10 mm | |
| Maximum area scan S | patial res | solution: Δχ_{Area}, Δy _{Area} | When the x or y dimension of the test device, the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device. | | |
| Maximum zoom scan S Δy zoom | Spatial re | esolution: Δχ_{zoom}, | ≤ 2 GHz: ≤8mm 2-3 GHz: ≤5mm* | 3-4 GHz: ≤5 mm* 4-6 GHz: ≤4 mm* | |
| | uniform | n grid: Δz_{zoom}(n) | ≤ 5 mm | 3-4 GHz: ≤4 mm 4-5 GHz: ≤3 mm 5-6 GHz: ≤2 mm | |
| Maximum zoom scan Spatial resolution normal to phantom surface | graded | Δz _{zoom} (1): between1 st two Points closest to phantom surface | ≤ 4 mm | 3-4 GHz: ≤3 mm 4-5 GHz: ≤2.5 mm 5-6 GHz: ≤2 mm | |
| | grid | Δz _{zoom} (n>1): between subsequent Points | $\leq 1.5 \cdot \Delta z_{zoom}(n-1)$ | | |
| Minimum zoom scan volume | x, y, z | | ≥ 30 mm | 3-4 GHz: ≥28 mm 4-5 GHz: ≥25 mm 5-6 GHz: ≥22 mm | |

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

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^{*} When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



9. Description of Test Position

9.1 Body Holster/Belt Clip Configurations

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. A device with a headset output is tested with a headset connected to the device. Body dielectric parameters are used.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with each accessory. If multiple accessory share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some Devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used.

Since this EUT does not supply any body worn accessory to the end user a distance of 0 cm from the EUT back surface to the liquid interface is configured for the generic test.

"See the Test SET-UP Photo"

Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessory(ies), Including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

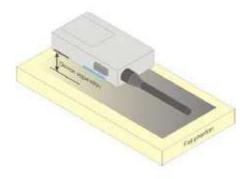
In all cases SAR measurements are performed to investigate the worst-case positioning. Worst case positioning is then documented and used to perform Body SAR testing.

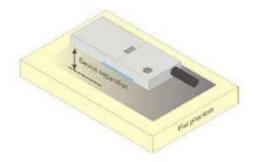
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9.2 Hand-held to Face device

A typical example of a front-of-face device is a two-way radio that is held at a distance from the face of the user when transmitting. In these cases the device under test shall be positioned at the distance to the phantom surface that corresponds to the intended use as specified by the manufacturer in the user instructions. If the intended use is not specified, a separation distance of 25 mm⁵ between the phantom surface and the device shall be used.





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10. RF Exposure Limits

| HUMAN EXPOSURE | UNCONTROLLED ENVIRONMENT General Population (W/kg) | CONTROLLED ENVIRONMENT Occupational (W/kg) |
|--|---|---|
| SPATIAL PEAK SAR * (Brain) | 1.60 | 8.00 |
| SPATIAL AVERAGE SAR ** (Whole Body) | 0.08 | 0.40 |
| SPATIAL PEAK SAR *** (Hands / Feet / Ankle / Wrist) | 4.00 | 20.00 |

Table 10.1 Safety Limits for Partial Body Exposure

NOTES:

- * The Spatial Peak value of the SAR averaged over any 1 g of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
 - ** The Spatial Average value of the SAR averaged over the whole-body.
- *** The Spatial Peak value of the SAR averaged over any 10 g of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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

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

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11. System Verification

11.1 Tissue Verification

The Head simulating material is calibrated by HCT using the DAKS 12 to determine the conductivity and permittivity.

| | Table for Head Tissue Verification | | | | | | | | | | | | |
|------------------|------------------------------------|----------------|----------------|---|--------|---|--------|---------|---------|--|--|--|--|
| Date of Tests | Tissue Temp. (°C) | Tissue Type | Freq. (MHz) | Measured Measured Conductivity Dielectric σ (S/m) Constant, ε | | Target Target Conductivity Dielectric σ (S/m) Constant, ε | | % dev σ | % dev ε | | | | |
| | | | 100 | 0.726 | 55.900 | 0.756 | 54.630 | -3.97 | 2.32 | | | | |
| 01/14/2025 | 20.1 | 150H | 150 | 0.773 | 52.700 | 0.760 | 52.300 | 1.71 | 0.76 | | | | |
| | | | 200 | 0.822 | 50.100 | 0.797 | 49.970 | 3.14 | 0.26 | | | | |

11.2 System Verification

* Input Power: 50 mW

| Freq. | Date | Probe (S/N) | Dipole (S/N) | Liquid | Amb. Temp. [°C] | Liquid Temp. [°C] | 1 W Target SAR _{1g} (SPEAG) [W/kg] | | 1 W Normalized SAR _{1g} [W/kg] | Deviation [%] | Limit [%] |
|-------|------------|----------------|-----------------|--------|-----------------------|-------------------------|--|-------|--|---------------|--------------|
| 150 | 01/14/2025 | 7655 | 4014 | Head | 20.3 | 20.1 | 3.72 | 0.189 | 3.78 | 1.61 | ± 10 |

11.3 System Verification Procedure

SAR measurement was prior to assessment, the system is verified to the \pm 10 % of the specifications at each frequency band by using the system verification kit. (Graphic Plots Attached)

- Cabling the system, using the verification kit equipment.
- Generate about 50 mW Input level from the signal generator to the Dipole Antenna.
- Dipole antenna was placed below the flat phantom.
- The measured one-gram SAR at the surface of the phantom above the dipole feed-point should be within $10\,\%$ of the target reference value.
- The results are normalized to 1 W input power.

SAR Verification was performed according to the FCC KDB 865664 D01v01r04.

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12. SAR Test Data Summary

12.1 Hand-held to Face SAR Results

| | VHF Hand-held to Face SAR | | | | | | | | | | | |
|-----------------|---------------------------|---------------------------|----------------------------|------------------------|----------|----------|--------------------------------|----------------------------|-------------|---------------------------|-------------|--|
| Frequency (MHz) | Ch. | Tune-Up Limit (dBm) | Measured Power (dBm) | Power Drift (dB) | Battery | Antenna | Separation Distance (mm) | Measure d SAR (W/Kg) | 50% Duty | Reported SAR (W/Kg) | Plot No. | |
| 150.05 | 9 | 37.4 | 36.75 | -0.07 | KNB-L13 | KRA-22M | 25 | 0.539 | 0.270 | 0.318 | - | |
| 173.95 | 12 | 37.4 | 36.72 | -0.01 | KNB-L13 | KRA-22M2 | 25 | 0.213 | 0.107 | 0.125 | - | |
| 150.05 | 9 | 37.4 | 36.75 | 0.06 | KNB-L13 | KRA-26M | 25 | 0.949 | 0.475 | 0.544 | 1 | |
| 173.95 | 12 | 37.4 | 36.72 | -0.03 | KNB-L13 | KRA-26M2 | 25 | 0.263 | 0.132 | 0.155 | 1 | |
| 150.05 | 9 | 37.4 | 36.75 | -1.88 | KNB-L13 | KRA-41M | 25 | 0.262 | 0.131 | 0.235 | - | |
| 173.95 | 12 | 37.4 | 36.72 | -0.07 | KNB-L13 | KRA-41M2 | 25 | 0.086 | 0.043 | 0.051 | 1 | |
| 150.05 | 9 | 37.4 | 36.75 | -0.04 | KNB-L13 | KRA-25 | 25 | 0.684 | 0.342 | 0.401 | - | |
| 150.05 | 9 | 37.4 | 36.75 | -0.01 | KNB-L13 | KRA-28 | 25 | 0.454 | 0.227 | 0.264 | - | |
| 150.05 | 9 | 37.4 | 36.75 | -0.04 | KNB-L12 | KRA-26M | 25 | 0.881 | 0.441 | 0.516 | - | |
| | | ANSI/ IEEE | | Н | ead | | | | | | | |
| | | | | 8 V | N/kg | | | | | | | |
| | | Controlle | d Exposure | | Averaged | over 1 g | ram | | | | | |

12.2 Body-worn Belt clip SAR Results

| | VHF Body-worn Belt clip SAR | | | | | | | | | | | |
|--|-----------------------------|---------------------------|----------------------------|------------------------|-------------|---------|-----------|--------------------------------|---------------------------|-------------|---------------------------|-------------|
| Frequency (MHz) | Ch. | Tune-Up Limit (dBm) | Measured Power (dBm) | Power Drift (dB) | Battery | Antenna | Belt Clip | Separation Distance (mm) | Measured SAR (W/Kg) | 50% Duty | Reported SAR (W/Kg) | Plot No. |
| 150.05 9 37.4 36.75 -0.05 KNB-L12 KRA-41M KBH-10 | | | | | | 0 | 5.040 | 2.520 | 2.960 | 2 | | |
| 150.05 | 9 | 37.4 | 36.75 | -0.02 | KNB-L13 | KRA-41M | KBH-10 | 0 | 3.240 | 1.620 | 1.890 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit | | | | | | | | | [| Body | | |
| | | Spa | 8 W/kg | | | | | | | | | |
| | | Conti | rolled Exp | osure/ (| Occupationa | ıl | | | Averaged | d over 1 gr | am | |

Note: Speaker Microphone (KMC-70)

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12.3 SAR Test Notes

General Notes:

- 1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Procedure.
- 2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
- 3. Liquid tissue depth was at least 15.0 cm for all frequencies.
- 4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- 5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D01v06.
- 6. Test signal call mode is Manual test cord.
- 7. The EUT was tested for face-held SAR with a 2.5 cm separation distance between the front of the EUT and the outer surface of the planer phantom
- 8. The Body-worn SAR evaluation was performed with the Balt-clip body-worn accessory and audio accessory attached to the DUT and touching the outer surface of the planar phantom.
- 9. The adjusted SAR value was calculated by first scaling the SAR value up by the drift. This value was then scaled up based on the difference of the upper end the tolerance and the measured conducted power. The resultant value is then multiplied by 0.5 to give the SAR value at 50% duty cycle.
- 10. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D01v06. Test Procedures applied in accordance with FCC KDB 643646 D01v01r03.
- 11. Measurement was reduced per KDB 643646 D01v01r03.
- 12. When the SAR for all antennas tested using the default battery is \leq 3.5 W/kg, testing of all other required channels is not necessary.
- 13. When the SAR of an antenna tested on the highest output power using the default battery is >3.5 W/Kg and ≤4.0 W/Kg, testing of the immediately adjacent channel(s) is not necessary, but testing of other required channels may still be required.
- 14. When the SAR for all antennas tested using the default battery \leq 4.0 W/kg, test additional batteries using the antenna and channel configuration that resulted in the highest SAR.
- 15. When the SAR of an antenna tested on the highest output power channel using the default battery is > 4.0 W/kg and ≤6.0 W/kg, testing of the required immediately adjacent channel(s) is necessary. For the remaining channels that cannot be excluded, this rule may be applied recursively with respect to the highest output power channel among the remaining channels.
- 16. Based on the SAR measured in the body-worn test sequence with default audio accessory, if the SAR for the antenna, body-worn accessory and battery combination(s) applicable to an audio accessory is/are >4.0 W/kg and <6.0 W/kg, test that audio accessory using the highest body-worn SAR combination (antenna, battery and body-worn accessory) and channel configuration previously identified that is applicable to the audio accessory.
- 17. When the SAR of an antenna tested is > 6.0 W/kg, test that battery and antenna combination with the default body-worn and audio accessory on the required immediately adjacent channels.
- 18. If the SAR measured >7.0 W/kg, test that battery, antenna, body-worn and audio accessory combination on all required channels.
- 19. Refer to original Body-worn SAR Data in [Report No:HCT-SR-2402-FC001-R1]

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13. Simultaneous SAR Analysis

This device is containing transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per KDB Publication 447498 D01v06 4.3.2, simultaneous transmission SAR test exclusion may be applied when the sum of 1g SAR and 10g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is \leq 8.0W/kg for 1g SAR and \leq 20.0 W/kg for 10g SAR. The different test positions in an exposure condition may be considered collectively to determine SAR exclusion according to the sum of 1g or 10g SAR.

The Bluetooth can transmit simultaneously with the PTT Radio.

13.1 Hand-held to Face SAR Simultaneous Transmission Analysis

| | Simultaneous Transmission Summation Scenario | | | | | | | | | | | |
|-----------------------|--|----------|---------------------------|-----------|--|--|--|--|--|--|--|--|
| | | Main SAR | Estimated Bluetooth/LE | Σ 1-g SAR | | | | | | | | |
| | Band | (W/kg) | (W/kg) | (W/kg) | | | | | | | | |
| | | 1 | 2 | 1+2 | | | | | | | | |
| VHF Hand-held to Face | | 0.544 | 0.025 | 0.569 | | | | | | | | |
| νпг | Body-Worn Belt clip | 2.960 | 0.126 | 3.086 | | | | | | | | |

13.3 Simultaneous Transmission Conclusion

The above numerical summed TER results for all the worst-case simultaneous transmission conditions were below the TER limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the TER limit. And therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528-2013.

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14. Measurement Uncertainty

Measurement Uncertainty for DUT SAR test According to KDB Publication 865664 D01 and IEEE Std 1528-2013

| а | b | с | d | е | f | g | h = c x f/e | i= cxg/e | k |
|---|-------------|--------------------|--------------------------|------|-------|--------|-------------------------|-------------------------|------------|
| Source of uncertainty | Description | Uncertainty ± % | Probability distribution | Div. | Ci | Ci | Standard Uncertainty | Standard Uncertainty | Vi Or Veff |
| | | | | | (1 g) | (10 g) | ± % (1 g) | ± % (10 g) | |
| Measurement system | | | | | | | | | |
| Probe calibration | 7.2.2.1 | 6.55 | N | 1 | 1 | 1 | 6.55 | 6.55 | 00 |
| Axial isotropy | 7.2.2.2 | 4.70 | R | 1.73 | 0.71 | 0.71 | 1.92 | 1.92 | ∞ |
| Hemispherical isotropy | 7.2.2.2 | 9.60 | R | 1.73 | 0.71 | 0.71 | 3.92 | 3.92 | ∞ |
| Boundary effect | 7.2.2.6 | 2.00 | R | 1.73 | 1 | 1 | 1.15 | 1.15 | 00 |
| Linearity | 7.2.2.3 | 4.70 | R | 1.73 | 1 | 1 | 2.71 | 2.71 | ∞ |
| Detection limits | 7.2.2.5 | 1.00 | R | 1.73 | 1 | 1 | 0.58 | 0.58 | 00 |
| Modulation response | 7.2.2.4 | 2.40 | R | 1.73 | 1 | 1 | 1.39 | 1.39 | 00 |
| Readout electronics | 7.2.2.7 | 0.30 | N | 1 | 1 | 1 | 0.30 | 0.30 | ∞ |
| Response time | 7.2.2.8 | 0.80 | R | 1.73 | 1 | 1 | 0.46 | 0.46 | ∞ |
| Integration time | 7.2.2.9 | 2.60 | R | 1.73 | 1 | 1 | 1.50 | 1.50 | 00 |
| RF ambient conditions - noise | 7.2.4.5 | 3.00 | R | 1.73 | 1 | 1 | 1.73 | 1.73 | 00 |
| RF ambient conditions - reflections | 7.2.4.5 | 3.00 | R | 1.73 | 1 | 1 | 1.73 | 1.73 | 00 |
| Probe positioner mechanical tolerance | 7.2.3.1 | 0.80 | R | 1.73 | 1 | 1 | 0.46 | 0.46 | 00 |
| Probe positioning with respect to chantom shell | 7.2.3.3 | 6.70 | R | 1.73 | 1 | 1 | 3.87 | 3.87 | 00 |
| Post-processing | 7.2.5 | 4.00 | R | 1.73 | 1 | 1 | 2.31 | 2.31 | 00 |
| Test sample related | | • | | | | • | | | |
| Test sample positioning | 7.2.3.4.3 | 6.15 | N | 1 | 1 | 1 | 6.15 | 6.15 | 00 |
| Device holder uncertainity | 7.2.3.4.2 | 2.71 | N | 1 | 1 | 1 | 2.71 | 2.71 | 00 |
| SAR drift measurement | 7.2.2.10 | 5.00 | R | 1.73 | 1 | 1 | 2.89 | 2.89 | 00 |
| SAR scaling | L.3 | 0.00 | R | 1.73 | 1 | 1 | 0.00 | 0.00 | 00 |
| Phantom and set-up | | | | | | | • | | |
| Phantom uncertainty (shape and thickness uncertainty) | 7.2.3.2 | 7.60 | R | 1.73 | 1 | 1 | 4.39 | 4.39 | ∞ |
| Uncertainty in SAR correction for deviations in permittivity and conductivity | 7.2.4.3 | 1.90 | N | 1 | 1 | 0.84 | 1.90 | 1.60 | 00 |
| Liquid conductivity (temperature uncertainty) | 7.2.4.4 | 0.25 | R | 1.73 | 0.78 | 0.71 | 0.11 | 0.10 | 00 |
| ciquid conductivity (measured) | 7.2.4.3 | 1.51 | N | 1 | 0.78 | 0.71 | 1.18 | 1.07 | 00 |
| Liquid permittivity (temperature uncertainty) | 7.2.4.4 | 0.52 | R | 1.73 | 0.23 | 0.26 | 0.07 | 0.08 | 00 |
| Liquid permittivity (measured) | 7.2.4.3 | 1.17 | N | 1 | 0.23 | 0.26 | 0.27 | 0.30 | ∞ |
| Combined standard uncertainty | | | RSS | | | | 13.41 | 13.36 | 00 |
| Expanded uncertainty (95% confidence interval) | | | k = 2 | | | | 26.82 | 26.72 | |

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15. SAR Test Equipment

All measurements were performed within the valid calibration period of the specific equipment.

| Manufacturer | Type / Model | S/N | Calib. Date | Calib.Interval | Calib.Due |
|--------------------|----------------------------------|--------------------|-------------|----------------|------------|
| SPEAG | ELI Phantom | - | N/A | N/A | N/A |
| Staubli | CS8Cspeag-TX60 | F/20/0018446/C/001 | N/A | N/A | N/A |
| Staubli | TX-60 Lspeag | F/20/0018446/A/001 | N/A | N/A | N/A |
| Staubli | Teach Pendant (Joystick) | 020885 | N/A | N/A | N/A |
| Staubli | Light Alignment Sensor | 1159 | N/A | N/A | N/A |
| TESTO | 175-H1/Thermometer | 44606611906 | 03/20/2024 | Annual | 03/20/2025 |
| SPEAG | DAE4 | 1686 | 06/19/2024 | Annual | 06/19/2025 |
| SPEAG | E-Field Probe EX3DV4 | 7655 | 05/27/2024 | Annual | 05/27/2025 |
| SPEAG | Dipole CLA150 | 4014 | 08/19/2024 | Annual | 08/19/2025 |
| Agilent | Power Meter E4419B | MY41291386 | 09/11/2024 | Annual | 09/11/2025 |
| Agilent | Power Meter N1911A | MY45101406 | 05/21/2024 | Annual | 05/21/2025 |
| EMPOWER | RF Power Amplifier | 1084 | 05/21/2024 | Annual | 05/21/2025 |
| Agilent | Wideband Power Sensor N1921A | MY55220026 | 07/30/2024 | Annual | 07/30/2025 |
| Agilent | Power Sensor 8481A | SG1091286 | 09/12/2024 | Annual | 09/12/2025 |
| SPEAG | DAKS 12 | 1048 | 03/20/2024 | Annual | 03/20/2025 |
| SPEAG | Vector Reflectometer | 21393001 | 03/21/2024 | Annual | 03/21/2025 |
| Agilent | Directional Bridge 86205A | 3140A04581 | 04/22/2024 | Annual | 04/22/2025 |
| Agilent | SIGNAL GENERATOR N5182A | MY47070230 | 03/19/2024 | Annual | 03/19/2025 |
| Agilent | MXA Signal Analyzer N9020A | MY50510407 | 06/04/2024 | Annual | 06/04/2025 |
| Agilent | Attenuator (3dB) 8693B | MY39260298 | 08/20/2024 | Annual | 08/20/2025 |
| HP | Attenuator (20dB) 8493C | 09271 | 08/20/2024 | Annual | 08/20/2025 |
| Aeroflex/Weinschel | Fixed Coaxial Attenuator (30 dB) | CE6106 | 11/13/2024 | Annual | 11/13/2025 |
| MICRO LAB | LP Filter / LA-15N | 10453 | 09/11/2024 | Annual | 09/11/2025 |

^{1.} The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Verification measurement is performed by HCT Lab. before each test. The brain/body simulating material is calibrated by HCT using the DAK-12 to determine the conductivity and permittivity (dielectric constant) of the brain/body-equivalent material.

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16. Conclusion

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the ANSI/IEEE C95.1-2005.

These measurements are taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests.

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the FCC and Industry Canada. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

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Appendix A. – Test Setup Photo

Please refer to test DUT Ant. Information & setup photo file no. as follows:

| Report No. |
|---------------------|
| HCT-SR-2502-FC006-P |

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Appendix B. – SAR Test Plots

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Test Laboratory: HCT CO., LTD Liquid Temperature: $20.1\,^{\circ}\text{C}$ Ambient Temperature: $20.3\,^{\circ}\text{C}$ Test Date: 01/14/2025

Plot No.:

Measurement Report for Device, FRONT, Custom Band, CW, Channel 150100 (150.100 MHz)

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|------------------------------------|------------------------------------|----------------|---------------|---------------------------------------|----------------------|------------------------------|---------------------|
| Flat, Head Simulating Liquid | FRONT, 25.00 | Custom Band | CW, 0 | 150.100, 150100 | 12.35 | 0.773 | 52.7 |

Hardware Setup

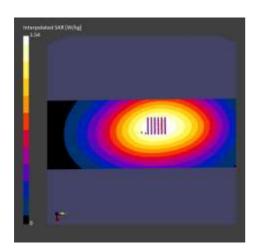
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|------------------------------------|-----------------------------|-------------------------|
| ELI V6.0 (20deg probe tilt) - xxxx | EX3DV4 - SN7655, 2024-05-28 | DAE4 Sn1686, 2024-06-19 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 120.0 x 360.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 15.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.914 | 0.949 |
| psSAR10g [W/Kg] | 0.709 | 0.736 |
| Power Drift [dB] | -0.00 | 0.06 |
| M2/M1 [%] | | 81.1 |
| Dist 3dB Peak [mm] | | > 15.0 |



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Test Laboratory: HCT CO., LTD Liquid Temperature: $20.1\,^{\circ}\text{C}$ Ambient Temperature: $20.3\,^{\circ}\text{C}$ Test Date: 01/14/2025

Plot No.: 2

Measurement Report for Device, BACK, Custom Band, CW, Channel 150100 (150.100 MHz)

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|------------------------------------|---------------------------------------|----------------|---------------|--|----------------------|------------------------------|---------------------|
| Flat, Head Simulating Liquid | BACK, 0.00 | Custom Band | CW, 0 | 150.100, 150100 | 12.35 | 0.773 | 52.7 |

Hardware Setup

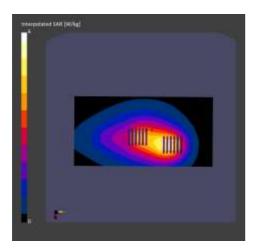
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|------------------------------------|-----------------------------|-------------------------|
| ELI V6.0 (20deg probe tilt) - xxxx | EX3DV4 - SN7655, 2024-05-28 | DAE4 Sn1686, 2024-06-19 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 120.0 x 240.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 15.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

Measurement Results

| | Area Scan | Zoom Scan1 | Zoom Scan2 |
|--------------------|-----------|------------|------------|
| psSAR1g [W/Kg] | 4.84 | 5.04 | 4.26 |
| psSAR10g [W/Kg] | 3.61 | 3.18 | 2.72 |
| Power Drift [dB] | -0.05 | -0.05 | -0.05 |
| M2/M1 [%] | | 66.6 | 70.5 |
| Dist 3dB Peak [mm] | | 21.7 | 14.9 |



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Appendix C. – Dipole Verification Plots

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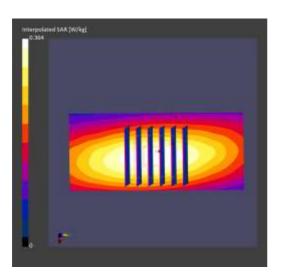
■ Verification Data (150 Mb Head)

Test Laboratory: HCT CO., LTD Input Power 50 mW Liquid Temp: 20.1 $^{\circ}$ C Test Date: 01/14/2025

Measurement Report for Device, , , CW, Channel 0 (150.000 MHz)

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conve Factor | | TSL Conductivity [S/m] | TSL Permittivity |
|------------------------------------|------------------------------------|------|---------------|---------------------------------------|-----------------|----------|------------------------------|---------------------|
| Flat, Head Simulating Liquid | , | | CW, 0 | 150.000,0 | 12.35 | | 0.773 | 52.7 |
| Hardware Setup |) | | | | | | | |
| Phantom | | | Probe, C | alibration Date | | DAE, C | Calibration Date | |
| ELI V6.0 (20deg | probe tilt) - xxx | X | EX3DV4 | - SN7655, 2024-05 | -28 | DAE4 | Sn1686, 2024-06 | -19 |
| Scans Setup | | | | | | | | |
| | | Α | rea Scan | | Zoor | n Scan | | |
| Grid Extents [m | m] | 4 | 0.0 x 90.0 |) | 30.0 | x 30.0 x | 30.0 | |
| Grid Steps [mm |] | 1 | 0.0 x 15.0 |) | 6.0 x | 6.0 x 1 | .5 | |
| Sensor Surface | [mm] | 3 | .0 | | 1.4 | | | |
| Measurement Ro | esults | | | | | | | |
| | | Aı | rea Scan | | Zoom | Scan | | |
| psSAR1g [W/Kg |] | 0. | 188 | | 0.189 | | | |
| psSAR10g [W/K | g] | 0. | 136 | | 0.122 | | | |
| Power Drift [dB] |] | 0. | 01 | | 0.01 | | | |
| M2/M1 [%] | | | | | 77.0 | | | |
| Dist 3dB Peak [ı | mm] | | | | 17.4 | | | |
| | | | | | | | | |



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Appendix D. - SAR Tissue Characterization

The brain and muscle mixtures consist of a viscous gel using hydrox-ethyl cellulose (HEC) gelling agent and

saline solution (see Table 3.1). Preservation with a bacteriacide is added and visual inspection is made to make sure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the desired tissue. The mixture characterizations used for

the brain and muscle tissue simulating liquids are according to the data by C. Gabriel and G. Harts grove.

| Ingredients | Frequency (배z) |
|----------------------------------|----------------|
| (% by weight) | 150 |
| Tissue Type | Head |
| Water | 38.35 % |
| Salt (NaCl) | 5.15 % |
| Sugar | 55.5 % |
| HEC | 0.9 % |
| Bactericide | 0.1 % |
| Triton X-100 | - |
| DGBE | - |
| Diethylene glycol hexyl ether | - |

| Salt: | 99 % Pure Sodium Chloride | Sugar: | 98 % Pure Sucrose |
|---------------------------|------------------------------|-----------------|--------------------------|
| Water: | De-ionized, 16M resistivity | HEC: | Hydroxyethyl Cellulose |
| DGBE: | 99 % Di(ethylene glycol) but | yl ether,[2-(2- | butoxyethoxy) ethanol] |
| Triton X-100(ultra-pure): | Polyethylene glycol mono[4-(| 1,1,3,3-tetram | ethylbutyl)phenyl] ether |

Composition of the Tissue Equivalent Matter

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Appendix E. - SAR System Validation

Per IEC/IEEE 62209-1528:2020, SAR system validation status should be document to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in IEC/IEEE 62209-1528:2020. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

| Ī | SAR | | | _ | | | | Dielectric | Parameters | CW Validation | | | Modulation Validation | | |
|---|---------------|-------|---------------|------|----------------|--------|------------|--------------------------|--------------------------|---------------|--------------------|-------------------|-----------------------|----------------|-----|
| | System No. | Probe | Probe Type | | ration pint | Dipole | Date | Measured Permittivity | Measured Conductivity | Sensitivity | Probe Linearity | Probe Isotropy | MOD. Type | Duty Factor | PAR |
| | 11 | 7655 | EX3DV4 | Head | 150 | 4014 | 2024-09-02 | 52.4 | 0.77 | PASS | PASS | PASS | N/A | N/A | N/A |

SAR System Validation Summary 1g

Note:

All measurement were performed using probes calibrated for CW signal only. Modulations in the table above represent test configurations for which the measurement system has been validated per IEC/IEEE 62209-1528:2020. SAR system were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to IEC/IEEE 62209-1528:2020.

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Appendix F. - Probe Calibration Data

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Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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S Swiss Calibration Service

Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

HCT

Gyeonggi-do, Republic of Korea

Certificate No.

EX-7655_May24

CALIBRATION CERTIFICATE 村老村 EX3DV4 - SN:7655 Object 2024/0605 2024 06.05 QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6, Calibration procedure(s) QA CAL-25.v8 Calibration procedure for dosimetric E-field probes May 28, 2024 Calibration date This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3) °C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|----------------------------|------------------|-----------------------------------|-----------------------|
| Power meter NRP2 | SN: 104778 | 26-Mar-24 (No. 217-04036/04037) | Mar-25 |
| Pawer sensor NRP-Z91 | SN: 103244 | 26-Mar-24 (No. 217-04036) | Mar-25 |
| OCP DAK-3.5 (weighted) | SN: 1249 | 05-Oct-23 (OCP-DAK3.5-1249_Oct23) | Oct-24 |
| OCP DAK-12 | SN: 1016 | 05-Oct-23 (OCP-DAK12-1016_Oct23) | Oct-24 |
| Reference 20 dB Attenuator | SN: CC2552 (20x) | 26-Mar-24 (No. 217-04046) | Mar-25 |
| DAE4 | SN: 660 | 23-Feb-24 (No. DAE4-660_Feb24) | Feb-25 |
| Reference Probe EX3DV4 | SN: 7349 | 03-Nov-23 (No. EX3-7349, Nov23) | Nov-24 |

| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
|-------------------------|------------------|-----------------------------------|------------------------|
| Power meter E4419B | SN: GB41293874 | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| Power sensor E4412A | SN: MY41498087 | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| Power sensor E4412A | SN: 000110210 | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| RF generator HP 8648C | SN: US3642U01700 | 04-Aug-99 (in house check Jun-22) | In house check: Jun-24 |
| Network Analyzer E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-22) | In house check: Oct-24 |

| | Name | Function | Signature |
|---------------|----------------|--|----------------------|
| Calibrated by | Joanna Lleshaj | Laboratory Technician | Spling |
| Approved by | Sven Kühn | Technical Manager | en |
| | | full without written approval of the lab | Issued: May 28, 2024 |

Certificate No: EX-7655_May24

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Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





S

Schweizerischer Kalibrierdienst Service suisse d'étalonnage C

Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary

tissue simulating liquid TSL NORMx,y,z sensitivity in free space ConvF sensitivity in TSL / NORMx,y,z diode compression point DCP

crest factor (1/duty_cycle) of the RF signal CF A, B, C, D modulation dependent linearization parameters

w rotation around probe axis Polarization @

 θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta = 0$ is Polarization &

normal to probe axis

Connector Angle Information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)*, October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization ∂ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E2-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- · ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- · Spherical isotropy (3D deviation from isotropy): In a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- · Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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May 28, 2024 EX3DV4 - SN:7655

Parameters of Probe: EX3DV4 - SN:7655

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k = 2) |
|--|----------|----------|----------|-------------|
| Norm (μV/(V/m) ²) ^A | 0.50 | 0.62 | 0.51 | ±10.1% |
| DCP (mV) B | 105.9 | 105.4 | 107.8 | ±4.7% |

Calibration Results for Modulation Response

| UID | Communication System Name | | A dB | B dB√μV | С | D dB | WR mV | Max dev. | Max Unc ^E k = 2 |
|----------|--|--------------------|---------|------------|-------|-----------|----------|---|----------------------------------|
| 0. | CW | X | 0.00 | 0.00 | 1.00 | 0.00 | 123.6 | ±2.8% | ±4.7% |
| | | Y | 0.00 | 0.00 | 1.00 | | 149.0 | 8 | |
| | | Z | 0.00 | 0.00 | 1.00 | | 150.0 | G | |
| 10352 | Pulse Waveform (200Hz, 10%) | X | 1.77 | 61.96 | 7.33 | 10.00 | 60.0 | ±2.6% | ±9.6% |
| | | Y | 1.53 | 60.72 | 6.50 | 12000000 | 60.0 | | |
| | | Z | 1.67 | 61.53 | 7.27 | | 60.0 | | |
| 10353 | Pulse Waveform (200Hz, 20%) | X | 0.84 | 60.02 | 5.27 | 6.99 | 80.0 | ±2.0% | ±9.6% |
| | Comment of the control of the contro | Y | 46.00 | 80.00 | 11.00 | 10000000 | 80.0 | acceptance. | |
| | | Z | 0.81 | 60.00 | 5.46 | L | 80.0 | - | |
| 10354 | Pulse Waveform (200Hz, 40%) | X | 0.03 | 118.22 | 0.35 | 3.98 | 95.0 | ±2.7% | ±9.6% |
| 1000 | | Y | 0.51 | 159.02 | 10.78 | | 95.0 | | |
| | | Z | 68.00 | 78.00 | 9.00 | | 95.0 | | |
| 10355 | Pulse Waveform (200Hz, 60%) | X | 11.59 | 154.19 | 7.09 | 2.22 | 120.0 | ±1.6% | ±9.6% |
| THE ST | () (ACRE - 17 AS MONTH OF THE CONTRACTOR (| Y | 10.49 | 157.44 | 14.13 | 0.5000000 | 120.0 | CONTRACTOR OF THE PARTY OF THE | - APERUIT |
| | | Z | 11.11 | 154.69 | 15.41 | | 120.0 | 10000 | 176,73722 |
| 10387 | QPSK Waveform, 1 MHz | X | 0.60 | 63.80 | 11.98 | 1.00 | 150.0 | ±4.3% | ±9.6% |
| | | Y | 0.57 | 63.21 | 12.13 | | 150.0 | | |
| | | Z | 0.54 | 62.15 | 11.23 | | 150.0 | | |
| 10388 | QPSK Waveform, 10 MHz | X | 1.35 | 65.40 | 13.61 | 0.00 | 150.0 | ±1.3% | ±9.6% |
| 1,000 | 1 20 C 20 | Y | 1.33 | 65.35 | 13.68 | 10 Tage 1 | 150.0 | S-010 | ==00000 |
| | | 2 | 1.28 | 64.34 | 13.18 | | 150.0 | | |
| 10396 | 64-QAM Waveform, 100 kHz | X | 1.74 | 64.88 | 15.91 | 3.01 | 150.0 | ±1.2% | ±9.6% |
| | | Y | 1.55 | 63.16 | 15.32 | | 150.0 | | |
| | | Z | 1.63 | 63.71 | 15.32 | | 150.0 | | |
| 10399 | 64-QAM Waveform, 40 MHz | X | 2.85 | 66.13 | 14.92 | 0.00 | 150.0 | ±1.7% | ±9.6% |
| YOU THE | | Y 2.82 66.06 14.95 | | 150.0 | | -0.00 | | | |
| | | Z | 2.75 | 65.46 | 14.60 | | 150.0 | 1 | |
| 10414 | WLAN CCDF, 64-QAM, 40 MHz | X | 3.88 | 65.85 | 15.16 | 0.00 | 150.0 | ±3.3% | ±9.6% |
| 1.5-10.5 | | Y | 3.81 | 65.73 | 15.12 | | 150.0 | 0.002000.020 | |
| | | Z | 3.96 | 66.00 | 15.25 | | 150.0 | | |

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 5).

Linearization parameter uncertainty for maximum specified field strength.

Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



Parameters of Probe: EX3DV4 - SN:7655

Sensor Model Parameters

| | C1 fF | C2 fF | α V-1 | T1 msV ⁻² | T2 ms V ⁻¹ | T3 ms | T4 V-2 | T5 V ⁻¹ | Т6 |
|---|----------|----------|----------|-------------------------|--------------------------|----------|-----------|-----------------------|------|
| × | 10.8 | 77.70 | 33.08 | 4.16 | 0.00 | 4.94 | 0.56 | 0.00 | 1.00 |
| v | 10.1 | 72.75 | 33.10 | 3.11 | 0.00 | 4.90 | 0.05 | 0.01 | 1.00 |
| Z | 11.4 | 81.54 | 33.00 | 3.57 | 0.00 | 4.95 | 0.51 | 0.00 | 1.00 |

Other Probe Parameters

| Sensor Arrangement | Triangular |
|---|------------|
| Connector Angle | 86.5° |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 9 mm |
| Tip Diameter | 2.5 mm |
| Probe Tip to Sensor X Calibration Point | 1 mm |
| Probe Tip to Sensor Y Calibration Point | 1 mm |
| Probe Tip to Sensor Z Calibration Point | 1 mm |
| Recommended Measurement Distance from Surface | 1.4 mm |

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.



Parameters of Probe: EX3DV4 - SN:7655

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity ^F | Conductivity ^F (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc ^H (k = 2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|--------------------|----------------------------|-----------------------------|
| 150 | 52.3 | 0.76 | 12.35 | 12.35 | 12.35 | 0.00 | 1.25 | ±13.3% |
| 450 | 43.5 | 0.87 | 11.07 | 11.07 | 11.07 | 0.16 | 1.30 | ±13,3% |
| 750 | 41.9 | 0.89 | 9.12 | 9.70 | 9.50 | 0.41 | 1.27 | ±11.0% |
| 835 | 41.5 | 0.90 | 9.18 | 9.32 | 9.14 | 0.40 | 1.27 | ±11.0% |
| 900 | 41,5 | 0.97 | 8.64 | 9.28 | 8.95 | 0.40 | 1.27 | ±11.0% |
| 1450 | 40.5 | 1.20 | 7.90 | 8.31 | 7.99 | 0.38 | 1.27 | ±11.0% |
| 1750 | 40.1 | 1.37 | 7.69 | 8.16 | 7.84 | 0.27 | 1.27 | ±11.0% |
| 1900 | 40.0 | 1.40 | 7.55 | 8.06 | 7.74 | 0.30 | 1.27 | ±11.0% |
| 2300 | 39.5 | 1.67 | 7.33 | 7.85 | 7.52 | 0.31 | 1.27 | ±11.0% |
| 2450 | 39.2 | 1.80 | 7.25 | 7.78 | 7.45 | 0.31 | 1.27 | ±11.0% |
| 2600 | 39.0 | 1.96 | 7.11 | 7,65 | 7.32 | 0.30 | 1,27 | ±11.0% |
| 4400 | 36.9 | 3.84 | 6.01 | 6,51 | 6.27 | 0.40 | 1.27 | ±13.19 |
| 4600 | 36.7 | 4.04 | 5.96 | 6.44 | 6.17 | 0.38 | 1.27 | ±13.19 |
| 4800 | 36.4 | 4.25 | 5.89 | 6.37 | 6.08 | 0.39 | 1.27 | ±13.19 |
| 4950 | 36.3 | 4.40 | 5.53 | 6.02 | 5.83 | 0.43 | 1.36 | ±13.19 |

Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 84, 128, 150 and 220 MHz respectively. Validity of ConvF assessment at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

The probes are calibrated using itself substantial figures (TSL) that deviate for c and or by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10% if SAR correction is applied.

Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less.

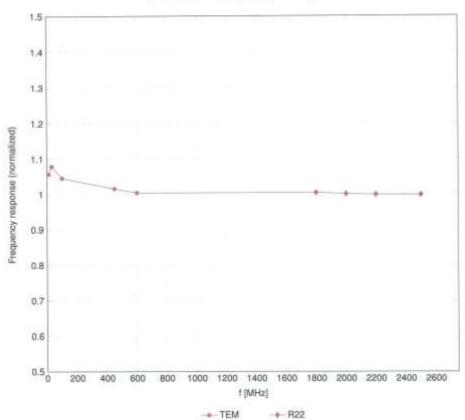
than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-CornF. Therefore, The uncertainty stated is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.



Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide:R22)



Uncertainty of Frequency Response of E-field: ±6.3% (k=2)

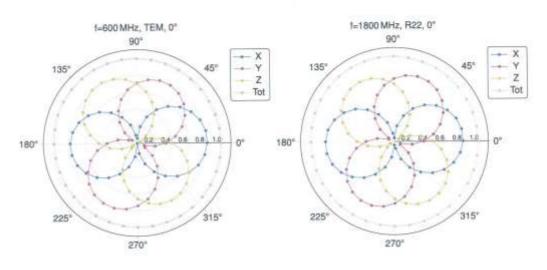
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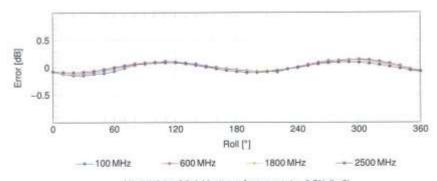
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May 28, 2024

Receiving Pattern (ϕ), $\theta = 0^{\circ}$



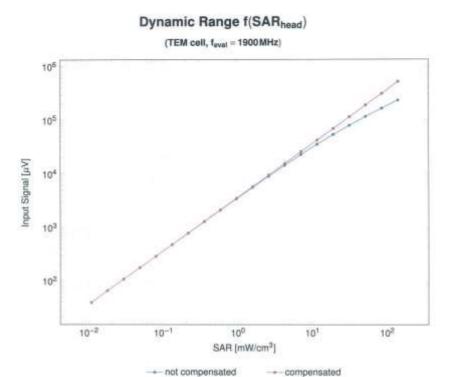


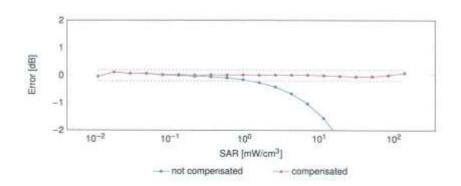
Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

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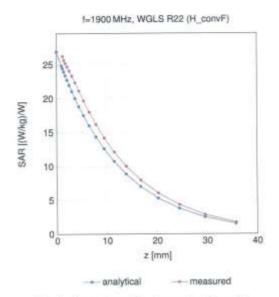
Uncertainty of Linearity Assessment: ±0.6% (k=2)

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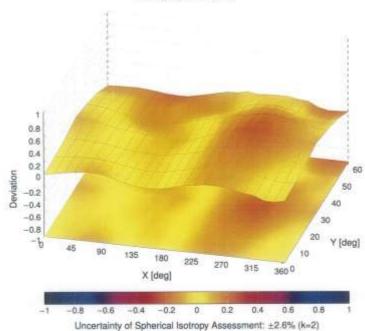


Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ) , f = 900 MHz



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EX3DV4 - SN:7655

Appendix: Modulation Calibration Parameters

| UID | Rev | Communication System Name | Group | PAR (dB) | Unc [®] k = 3 |
|-------------------------|------------------|---|--|----------|---------------------------------------|
| 0 | 220 | CW | CW | 0.00 | ±4.7 |
| 10010 | CAB | SAR Validation (Square, 100 ms, 10 ms) | Test | 10.00 | ±9.6 |
| 10011 | CAC | UMTS-FDD (WCDMA) | WCDMA | 2.91 | ±9.6 |
| 10012 | CAB | IEEE 802 11b WFI 2.4 GHz (DSSS, 1 Mbps) | WLAN | 1.87 | ±9.6 |
| 10013 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | WLAN | 9.46 | ±9.6 |
| 10021 | DAC | GSM-FDD (TDMA, GMSK) | GSM | 9.39 | ±9.6 |
| 10023 | DAC | GPRS-FDD (TDMA, GMSK, TN 0) | GSM | 9.57 | ±9.6 |
| 10024 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1) | GSM | 6.55 | ±9.6 |
| 10025 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0) | GSM | 12.62 | ±9.6 |
| 10026 | DAC | EDGE-FDO (TDMA, 8PSK, TN 0-1) | GSM | 9.55 | ±9.6 |
| 10027 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2) | GSM | 4.80 | ±9.6 |
| 10028 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) | GSM | 3.55 | ±9.6 |
| 10029 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2) | GSM | 7.78 | ±9.6 |
| 10030 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1) | Bluetooth | 5.30 | ±9.6 |
| 10030 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3) | Bluetooth | 1.87 | ±9.6 |
| Lancacion de la company | Standard Service | IEEE 802.15.1 Bluetooth (GFSK, DHS) | Bluetooth | 1,16 | ±9.6 |
| 10032 | CAA | IEEE 802.15.1 Bluetooth (PV4-DQPSK, DH1) | Bluetouth | 7.74 | ±9.6 |
| 10033 | and the second | | Bluelpath | 4.53 | ±9.6 |
| 10034 | GAA. | IEEE 802.15.1 Bluetooth (PN4-DQPSK, DH3) | The state of the s | | |
| 10035 | CAA | IEEE 802.15.1 Bluelooth (PV4-DQPSK, DH5) | Bluetooth | 3.83 | ±9.6 |
| 10036 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1) | Bluetooth | 8.01 | ±9.6 |
| 10037 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DR3) | Bluetooth | 4.77 | ±9.6 |
| 10038 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5) | Bluetooth | 4.10 | ±9.6 |
| 10039 | CAB | CDMA2000 (1xRTT, RC1) | CDMA2000 | 4.57 | ±9.6 |
| 10042 | CAB | IS-84 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | AMPS | 7,78 | ±9.6 |
| 10044 | CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM) | AMPS | 0.00 | 29.6 |
| 10048 | CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24) | DECT | 13.80 | ±9.6 |
| 10049 | CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12) | DECT | 10.79 | 19.6 |
| 10056 | CAA | UMTS-TDD (TD-SCDMA, 1.26 Mcps) | TD-SCDMA | 11.01 | ±9.6 |
| 10058 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-9) | GSM | 6.52 | 19.6 |
| 10059 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps) | WLAN | 2.12 | 19.6 |
| 10060 | CAB | IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps) | WLAN | 2.83 | ±9.6 |
| 10061 | CAB | IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps) | WLAN | 3.60 | ±9.6 |
| 10062 | CAE | IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps) | WLAN | 8.68 | ±9.6 |
| 10063 | CAE | IEEE 802.11a/h WiFl 5 GHz (OFDM, 9 Mbps) | WLAN | 8,63 | ±9.6 |
| 10064 | CAE | IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps) | WLAN | 9.09 | ±9.6 |
| 10065 | CAE | IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps) | WLAN | 9.00 | ±9.6 |
| 10066 | CAE | IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps) | WLAN | 9.38 | ±9.6 |
| 10067 | CAE | IEEE 802.11a/h WiFl 5 GHz (OFDM, 36 Mbps) | WLAN | 10.12 | ±9.6 |
| 10068 | CAE | IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps) | WLAN | 10.24 | ±9.6 |
| 10069 | CAE | IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps) | WLAN | 10.56 | 19.6 |
| 10071 | CAB | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 9 Mbps) | WLAN | 9.83 | ±9.6 |
| 10072 | CAB | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 12 Mbps) | WLAN | 9.62 | ±9.5 |
| 10073 | CAB | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 18 Mbps) | WLAN | 9.94 | ±9.6 |
| 10074 | CAB | IEEE 802.11g WIF) 2.4 GHz (DSSS/OFDM, 24 Mbps) | WLAN | 10.30 | 19.5 |
| 10075 | CAB | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 24 Nobel) | WLAN | 10.77 | 19.6 |
| 10076 | CAB | IEEE 802,11g WFI 2.4 GHz (DSSS/OFDM, 36 Mbps) | WLAN | 10.77 | · · · · · · · · · · · · · · · · · · · |
| 10076 | CAB | | WLAN | 11.00 | ±9.6 |
| | | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 54 Mbps) | - Control of the cont | | ±9.6 |
| 10081 | CAB | CDMA2000 (1xRTT, RC3) | CDMA2000 | 3.97 | ±9.6 |
| 10082 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | AMPS | 4.77 | ±9,6 |
| 10090 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-4) | GSM | 6.56 | ±9.6 |
| 10097 | CAC | UMTS-FDD (HSDPA) | WCDMA | 3.98 | ±9.6 |
| 10098 | CAC | UMTS-FDD (HSUPA, Subtest 2) | WCDMA | 3.98 | ±9.6 |
| 10099 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4) | GSM | 9.55 | 19.6 |
| 10100 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-FDD | 5.67 | ±9.6 |
| 10101 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-FOD | 6.42 | ±9.6 |
| 10102 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-F00 | 6.60 | ±9.6 |
| 10103 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-TOD | 9.29 | ±9.6 |
| 10104 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.97 | ±9.6 |
| 10105 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-TOD | 10.01 | ±9.6 |
| 10108 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-FDO | 5.80 | ±9.6 |
| 10109 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 15-QAM) | LTE-FDD | 8.43 | ±9.6 |
| 10110 | CAH | LTE-FDO (SC-FDMA, 100% RB, 5MHz, QPSK) | LTE-FDD | 5.75 | ±9.6 |
| 10111 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5MHz, 16-QAM) | LTE-F00 | 6.44 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc* k = |
|-------|-----|--|---------|----------|----------|
| 0112 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | LTE-FD0 | 6.59 | ±9.6 |
| 0113 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | LTE-FDD | 6.62 | ±9.6 |
| D114 | CAE | IEEE 802.11n (HT Greenfield, 13.5Mbps, BPSK) | WLAN | 8.10 | ±9.fi |
| 1115 | CAE | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) | WLAN | 8.45 | ±9.0 |
| 1116 | CAE | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | WLAN | 8,15 | ±9.6 |
| 1117 | CAE | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) | WLAN | 8.07 | ±9.6 |
| 1118 | CAE | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM) | WLAN | 8.59 | ±9.6 |
| 1119 | CAE | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) | WLAN | 8.13 | ±9.6 |
| 0140 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15MHz, 16-QAM) | LTE-FDD | 6.49 | ±9.6 |
| 0141 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15MHz, 64-QAM) | LTE-FDD | 6.53 | ±9.6 |
| 0142 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3MHz, QPSK) | LTE-FDD | 5.73 | ±9.6 |
| 0143 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-FDD | 6.35 | ±9.6 |
| 0144 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3MHz, 64-QAM) | LTE-FDO | 6.65 | ±9.6 |
| 0145 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.76 | ±9.6 |
| 0146 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.41 | ±9.6 |
| 0147 | CAG | LTE-FOD (SC-FDMA, 100% RB, 1.4MHz, 64-QAM) | LTE-FDD | 6.72 | £9.6 |
| 0149 | CAF | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-FOD | 6.42 | ±9.6 |
| 0150 | CAF | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-FDD | 6.60 | ±9.6 |
| 0151 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-TDD | 9.28 | ±9.6 |
| 0152 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-TOD | 9.92 | ±9.6 |
| 0153 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-TDD | 10.05 | ±9.6 |
| 0154 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-FDD | 5.75 | ±9.6 |
| 0155 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-FDD | 6.43 | ±9.6 |
| 0156 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-FDD | 5,79 | ±9.6 |
| 0.157 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16 QAM) | LTE-FDD | 6.49 | ±9.6 |
| 10158 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | LTE-FDD | 6.62 | ±9.6 |
| 10159 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | LTE-FDD | 6.56 | ±9.6 |
| 0.160 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15MHz, QPSK) | LTE-FDO | 5.82 | ±9.6 |
| 10161 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15MHz, 16-QAM). | LTE-FDD | 6.43 | ±9.6 |
| 10162 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | LTE-FDD | 6.58 | ±9.6 |
| 10166 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-FDO | 5.46 | ±9.6 |
| 10167 | CAG | LTE-FOD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.21 | ±9.6 |
| 10168 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.79 | ±9.6 |
| 10169 | CAF | LTE-FOD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-FDD | 5.73 | ±9.6 |
| 10170 | CAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-FOD | 8.52 | ±9.6 |
| 10171 | AAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 84-QAM) | LTE-FDD | 6.49 | ±9.6 |
| 10172 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-TDD | 9.21 | ±9.6 |
| 10173 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-TDD | 9.48 | ±9.6 |
| 10174 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-TOO | 10.25 | ±9.6 |
| 10175 | CAH | LTE-FDD (SC-FDMA, 1 R8, 10 MHz, QPSK) | LTE-FDD | 5.72 | ±9.6 |
| 10176 | CAH | LTE-FD0 (SC-FDMA, 1 R8, 10 MHz, 16-QAM) | LTE-FDD | 6.52 | ±9.6 |
| 10177 | CAJ | LTE-FDD (SC-FDMA, 1 RB, 5MHz, QPSK) | LTE-FDD | 5.73 | #9.6 |
| 10178 | CAH | LTE-FDD (SC-FDMA, 1 RB, 5MHz, 16-QAM) | LTE-FDD | 6.52 | ±9.6 |
| 10179 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-FOD | 8.50 | ±9.6 |
| 10180 | CAH | LTE-FDD (SC-FDMA, 1 RB, 5MHz, 64-QAM) | LTE-FDD | 6.50 | ±9.6 |
| 10181 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-F00 | 5.72 | ±9.6 |
| 10182 | CAF | LTE-FD0 (SC-FDMA, 1 RB, 15MHz, 16-QAM) | LTE-FDD | 6.52 | 69.6 |
| 10183 | AAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-F00 | 6.50 | ±9.6 |
| 10184 | CAF | LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK) | LTE-FDD | 5.73 | ±9.6 |
| 10185 | CAF | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-FDD | 8.51 | ±9.6 |
| 10188 | AAF | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 84-GAM) | LTE-FOD | 6.50 | ±9.6 |
| 10187 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-FOO | 5.73 | ±9.6 |
| 10188 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.52 | 29.6 |
| 0189 | AAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-FD0 | 6.50 | ±9.6 |
| 10193 | CAE | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) | WLAN | 8.09 | ±9.6 |
| 0194 | CAE | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | WLAN | 8.12 | 49.6 |
| 10195 | CAE | IEEE 802.11n (HT Greenfield, 65Mbps, 64-QAM) | WLAN | 8.21 | 194 |
| 10196 | CAE | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) | WLAN | 8.10 | ±9.6 |
| 10197 | CAE | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) | WLAN | 8.13 | ±9.6 |
| 10198 | CAE | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) | WLAN | 8.27 | ±9.6 |
| 10219 | CAE | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) | WLAN | 8.03 | ±9.8 |
| 10220 | CAE | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) | WLAN | 8.13 | ±9.6 |
| 10221 | CAE | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) | WLAN | 8.27 | ±9.6 |
| | | IEEE 802:11n (HT Mixed, 15 Mbps, BPSK) | WLAN | 8.06 | ±9.6 |
| 10222 | CAE | | WLAN | 8.48 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E R = |
|--------|--|--|----------|----------|----------------------|
| 10225 | CAC | UMTS-FDD (HSPA+) | WCDMA. | 5.97 | ±9.6 |
| 10226 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-TOD | 9,49 | ±9.6 |
| 10227 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.26 | ±9.6 |
| 0228 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-TDD | 9.22 | ±9.6 |
| 0229 | CAE | LTE-TDO (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-TOO | 9.48 | ±9.6 |
| 0230 | CAE | LTE-TDD (SC-FDMA, 1 RB, 3MHz, 64-QAM) | LTE-TDD | 10.25 | ±9.6 |
| 0231 | CAE | LTE-TDO (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-TDO | 9.19 | ±9.6 |
| 0.232 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5MHz, 16-QAM) | LTE-TD0 | 9.48 | ±9.6 |
| 0233 | CAH | LTE-YDD (SC-FDMA, 1 RB, 5MHz, 64-QAM) | LTE-TOO | 10.25 | ±9.6 |
| 0234 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-TOD | 9.21 | ±9.6 |
| 0235 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-TOD | 9.48 | ±9.6 |
| 0236 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-TOD | 10.25 | ±9.6 |
| 0237 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-TDD | 9.21 | ±9.6 |
| 0238 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM) | LTE-TDD | 9.48 | ±9.6 |
| 0239 | CAG | LTE-TDD (SC-FDMA, 1 R8, 15 MHz, 64-QAM) | LTE-TOD | 10.25 | ±9.6 |
| 0240 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-TDD | 9.21 | 19.6 |
| 0241 | CAC | LTE-TDD (SC-FDMA, 50% R8, 1.4 MHz, 16-QAM) | LTE-TDD | 9.82 | ±9.6 |
| 0.242 | GAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-TOD | 9.86 | ±9.6 |
| 0243 | CAC | LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-TOD | 9.46 | ±9.6 |
| 0244 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-TOD | 10.06 | ±9.6 |
| 0245 | CAE | LTE-TOD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-TOD | 10.06 | ±9.6 |
| 0246 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-TOD | 9.30 | ±9.6 |
| 0247 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-TDD | 9.91 | ±9.6 |
| 0248 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | LTE-TDD | 10.09 | ±9.6 |
| 0249 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-TDD | 9.29 | ±9.6 |
| 0250 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.81 | ±9.6 |
| 10251 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | LTE-TDD | 10.17 | ±9.6 |
| 10252 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-TDD | 9.24 | ±9.6 |
| 10253 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15MHz, 16-QAM) | LTE-TOD | 9.90 | ±9.6 |
| 0.254 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15MHz, 84-QAM) | LTE-TOD | 10.14 | ±9.6 |
| 0255 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-TDD | 9.20 | ±9.5 |
| 10256 | CAC | LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.96 | ±9.6 |
| 10257 | CAC | LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.08 | ±9.8 |
| 10258 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1,4MHz, QPSK) | LTE-TOD | 9.34 | ±9.8 |
| 10259 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-TOD | 9.98 | ±9.6 |
| 10260 | CAE | LTE-TOD (SC-FDMA, 100% RB, 3MHz, 64-QAM) | LTE-TDD | 9.97 | ±9.6 |
| 10261 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-TD0 | 9.24 | ±9.6 |
| 10262 | CAH | LTE-TDD (SC-FOMA, 100% RB, 5MHz, 16-QAM) | LTE-TOD | 9.83 | ±9.0 |
| 10263 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM) | LTE-TDD | 10.16 | ±9.6 |
| 10264 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK) | LTE-TOD | 9.23 | ±9.6 |
| 10285 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10MHz, 16-QAM) | LTE-TDD | 9.92 | ±9.0 |
| 10266 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM) | LTE-TDO | 10.07 | 49.0 |
| 10267 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-TDO | 9.30 | ±93 |
| 10268 | . CAG | LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM) | LTE-TD0 | 10.06 | ±9) |
| 10269 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-TOO | 10.13 | (±9.) |
| 10270 | CAG | LTE-TOD (SC-FDMA, 100% RB, 15MHz, QPSK) | LTE-TDD | 9.58 | ±9.6 |
| 10274 | CAC | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) | WCDMA | 4.87 | ±9/ |
| 10275 | CAC | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) | WCDMA | 3.96 | ±9.0 |
| 10277 | CAA | PHS (QPSK) | PHS | 11.81 | ±9. |
| 10278 | CAA | PHS (QPSK, 8W 884 MHz, Rolloff 0.5) | PHS | 11.81 | ±9/ |
| 10279 | CAA | PHS (QPSK, BW 884 MHz, Rolloff 0.38) | PHS | 12.18 | ±9. |
| 10290 | AAB | CDMA2000, RC1, SOS5, Full Rate | CDMA2000 | 3.91 | ±9. |
| 10291 | AAB | CDMA2000, RC3, SO55, Full Rate | CDMA2000 | 3.46 | ±9. |
| 10292 | AAB | CDMA2000, RC3, SC32, Full Rafe | CDMA2000 | 3.39 | ±9. |
| 10293 | | CDMA2000, RC3, SO3, Full Rate | CDMA2000 | 3.50 | ±9. |
| 10295 | CONTROL MARKET BY | CDMA2000, RC1, SO3, 1/8th Rate 25 fr. | CDMA2000 | 12.49 | ±9. |
| 10297 | AAE | LTE FDD (SC FDMA, 50% RB, 20 MHz, QPSK) | LTE-FDD | | |
| 10298 | Contract of the last | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-FDD | 5.72 | £9. |
| 10299 | | LTE-FDD (SC-FDMA, 50% RB, 3MHz, 16-QAM) | LTE-FDD | 6.39 | ±9. |
| 10300 | the state of the later of the l | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-FDD | 6.60 | ±9. |
| 10301 | AAA | IEEE 802 16e WMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC) | WMAX | 12.03 | ±9. |
| 10302 | - | IEEE 802 16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols) | WIMAX | 12.57 | ±9. |
| 10303 | - | IEEE 802 16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC) | WIMAX | 12.52 | ±9. |
| 10304 | Charleston | IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) | WMAX | 11.86 | ±9. |
| 10:305 | - | IEEE 802.16e WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols) | WIMAX | 15.24 | ±9. |
| 10306 | AAA | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols) | WiMAX | 14.67 | ±9. |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = |
|----------------|--------------------|--|--|----------|----------------------|
| 0307 | AAA | EEEE 802.16s WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols) | WIMAX | 14.49 | ±9.6 |
| 0308 | AAA | IEEE 802:16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC) | WIMAX | 14.46 | ±9.6 |
| 0309 | AAA | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols) | WiMAX | 14.58 | ±9.6 |
| 0310 | AAA | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols) | WIMAX | 14.57 | ±9.6 |
| 0311 | AAE | LTE-FDD (SC-FDMA, 100% RB, 15MHz, QPSK) | LTE-FDD | 6.06 | ±9.6 |
| 0313 | AAA | DEN 1:3 | IDEN | 10.51 | ±9.6 |
| 0314 | AAA | DEN 1:6 | IDEN | 13.48 | ±9.6 |
| 0315 | AAB | IEEE 802.11b WIFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle) | WLAN | 1.71 | ±9.6 |
| 0316 | AAB | IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 0317 | AAE | IEEE 802.11a WIFI 5 GHz (OFDM, 6 Mbps, 96pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 0352 | AAA | Pulse Waveform (200Hz, 10%) | Generic | 10.00 | ±9.6 |
| | AAA | Pulse Waveform (200Hz, 20%) | Generic | 6.99 | 19.6 |
| 0353 | | Pulse Waveform (200Hz, 40%) | Generic | 3.98 | £9.6 |
| 0354 | AAA | No. 1995 Control of the Control of t | Generic | 2.22 | ±9.6 |
| 0355 | AAA | Pulse Waveform (200Hz, 60%) | Generic | 0.97 | ±9.6 |
| 0356 | AAA | Pulse Waveform (200Hz, 80%) | Generic | 5.10 | ±9.6 |
| 0387 | AAA. | QPSK Waveform, 1 MHz | Control of the contro | | ±9.6 |
| 0388 | AAA | QPSK Waveform, 10 MHz | Generic | 5.22 | |
| 0396 | A,A,A | 64-QAM Waveform, 100 kHz | Generic | 6.27 | ±9.6 |
| 0399 | AAA, | 64-QAM Waveform, 40 MHz | Generic | 6.27 | ±9.6 |
| 0400 | AAF | IEEE 802.11ac WIFI (20 MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.37 | 193 |
| 0401 | AAF | IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.60 | ±9.6 |
| 0402 | AAF | IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.53 | 191 |
| 0403 | AAB | CDMA2000 (1xEV-DO, Rev. 0) | CDMA2000 | 3.76 | ±9. |
| 0404 | AAB | CDMA2000 (1xEV-DO, Rev. A) | CDMA2000 | 3.77 | ±93 |
| 0406 | AAB | CDMA2000, RC3, SO32, SCH0, Full Rate | CDMA2000 | 5.22 | ±9. |
| 0410 | AAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3.4,7.6.9, Subframe Confu4) | LTE-TOD | 7.82 | ±93 |
| 0414 | AAA | WLAN CCOF, 64-GAM, 40 MHz | Generic | 8.54 | 3,97 |
| 0.415 | AAA | IEEE 802 11b WIFI 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) | WLAN | 1.54 | ±9. |
| 0416 | AAA | IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) | WLAN | 8.23 | ±9. |
| 0417 | AAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) | WLAN | 8.23 | ±9. |
| 0418 | AAA | IEEE 802.11g WiFl 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) | WLAN | 8.14 | ±9. |
| 0419 | AAA | IEEE 802 11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) | WLAN | 8.19 | ±9. |
| 0422 | AAD | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) | WLAN | 8.32 | ±9. |
| 0423 | AAD | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) | WLAN | 8.47 | ±9. |
| 0424 | AAD | IEEE 802 11n (HT Greenfield, 72.2 Mbps. 64-QAM) | WLAN | 8.40 | 4.9 |
| 0425 | AAD | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) | WLAN | 8.41 | ±9. |
| | | | WLAN | 8.45 | ±9. |
| 0426 | AAD | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) | WLAN | 8.41 | 19 |
| 0427 | AAD | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) | LTE-FDO | 8.28 | 19 |
| 0430 | AAE | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) | and the later property of the | - | |
| 0431 | AAE | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) | LTE-FDO | 8.38 | 19. |
| 0432 | AAD | LTE-FDD (OFDMA, 15MHz, E-TM 3.1) | LTE-FDO | 8.34 | ±9. |
| 0433 | AAD | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) | LTE-FDO | 8.34 | ±9. |
| 0434 | AAB | W-CDMA (BS Test Model 1, 64 DPCH) | WCDMA | 8.60 | ±9. |
| 0435 | AAG | I,TE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOO | 7,82 | ±9. |
| 0447 | AAE | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-FOD | 7.56 | ±9. |
| 0448 | AAE | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%) | LTE-FDD | 7.53 | ±9. |
| 0.449 | AAD | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%) | LTE-FDD | 7.51 | ±9. |
| 0450 | AAD | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.48 | ±9. |
| 0451 | AAB | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%) | WCDMA | 7.59 | ±9. |
| 0453 | AAE | Validation (Square, 10 ms, 1 ms) | Test | 10.00 | ±9. |
| 0456 | AAD | IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) | WLAN | 8,63 | ±9. |
| 0457 | BAA | UMTS-FDD (DC-HSDPA) | WCDMA | 6.62 | ±9. |
| 0458 | AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers) | CDMA2008 | 6.55 | ±9 |
| 0459 | AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers) | CDMA2000 | 8.25 | ±9. |
| 0.460 | | UMTS-FDD (WCDMA, AMFI) | WCDMA | 2.39 | ±0. |
| 0451 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.82 | ±9. |
| 0482 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2.3.4,7.8.9) | LTE-TOD | 8.30 | ±9. |
| 0.463 | AAG | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.56 | ±9. |
| 0464 | AAD | LTE-TOD (SC-FDMA, 1 RB, 3MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7,82 | ±9. |
| 0465 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.32 | ±9. |
| 0466 | Access to the last | | direction development and the contract of the | | |
| | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2.3,4,7,8,9) | LTE-TOD | 8.57 | ±9. |
| 0.467 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.82 | ±9. |
| | AAG | LTE-TDD (SC-FDMA, 1 R8, 5MHz, 16-QAM, UL Subframe=2.3.4,7,8,9) | LTE-TOD | 8.32 | ±9. |
| 0.468 | | | | 8.56 | ±8: |
| 0.469 0.470 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.82 | ±9. |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc [©] k = |
|--------------------|---------------------------|--|--|--------------------------|----------------------|
| 0472 | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7.8,9) | LTE-TOD | 8.57 | ±9.6 |
| 0473 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.82 | ±9.6 |
| 0474 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe+2,3,4,7,8,9) | LTE-TDD | 8.32 | ±9.6 |
| 0475 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM, Ut. Subtrame=2,3,4,7,8,9) | LTE-TDD | 8.57 | ±9.6 |
| 0477 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20MHz, 16-QAM, UL Subframe-2,3.4,7,8,9) | LTE-TOD | 8.32 | ±9.6 |
| | AAG | LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, U. Subhame-2,3,4,7.8,9) | LTE-TOD | 8.57 | ±9.6 |
| 1478 | | LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.74 | ±9.6 |
| 0479 | AAC | | LTE-TOD | 8.18 | ±9.6 |
| 0480 | AAC | LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.45 | ±9.6 |
| 0481 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64 QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.71 | ±9.6 |
| 0482 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UI. Subframe=2,3,4,7,8,9) | The state of the s | The second second second | ±9.6 |
| 0483 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.39 | |
| 0.484 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.47 | ±9.6 |
| 0485 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5MHz, QPSK, UL Subframe+2,3,4,7.8,9) | LTE-TDD | 7,59 | ±9.6 |
| 0486 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.38 | ±9.6 |
| 0487 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UI, Subtrame=2,3,4,7,8,9) | LTE-TDD | 8.60 | ±9.6 |
| 0488 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.70 | ±9.6 |
| 0.489 | AAG | LTE-TOD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.31 | ±9.8 |
| 0490 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.54 | ±9.6 |
| 0.491 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sublame+2,3,4,7,8,9) | LTE-TOD | 7.74 | ±9.6 |
| 0492 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8.9) | LTE-TOD | 8.41 | ±9.6 |
| 0493 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.55 | ±9.6 |
| with the same of | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.74 | ±9.6 |
| 0494 | and the second second | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3.4,7.8,9) | LTE-TOD | 8.37 | ±9.6 |
| 0495 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-GAM, OL Subtrame=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subtrame=2,3,4,7,8,9) | LTE-TDD | 8.54 | ±9.6 |
| 0496 | AAG | | LTE-TDD | 7.67 | ±9.6 |
| 10497 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2.3.4,7,8,9) | LYE-TOD | 8.40 | 19.6 |
| 10498 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 15-QAM, UL Subframe=2,3,4,7,8,9) | Control of Control of Asian Con- | 0.000 | 19.6 |
| 10.499 | AAC | LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2.3.4,7,8,9) | LTE-TOO | 8.68 | |
| 0500 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7,67 | 19.6 |
| 10501 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.44 | ±9.6 |
| 10502 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TD0 | 8.52 | ±9.6 |
| 10503 | AAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.72 | ±9.6 |
| 10504 | AAG | LTE-TDD (SC-FDMA, 100% FIB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.31 | ±9.6 |
| 10505 | AAG. | LTE-TOD (SC-FDMA, 100% RB, 5MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.54 | ±9.6 |
| 10506 | AAG | LTE-TOD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.74 | ±9.6 |
| 10507 | AAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subtrame=2,3,4,7,8,9) | LTE-TDD | 8.36 | ±9.6 |
| 10508 | AAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe+2,3,4,7,8,9) | LTE-TOD | 8.55 | ±9.6 |
| 10.509 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.99 | ±9.6 |
| 10510 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe+2,3,4,7,8,9) | LTE-TOD | 8.49 | ±9.6 |
| 10511 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.51 | ±9.6 |
| 10512 | AAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,5,9) | LTE-TOO | 7.74 | ±9.6 |
| 10513 | AAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2.3.4.7.8,9) | LTE-TDD | 8.42 | ±9.6 |
| | | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9) | LTE-TDD | 8.45 | ±9.6 |
| 10514 | AAG | | WLAN | 1.58 | 19.6 |
| 10515 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) | WLAN | 1.57 | ±9.6 |
| 10516 | AAA. | IEEE 802.116 WiFl 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) | | 1.58 | |
| 10517 | AAA | IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) | WLAN | | ±9.6 |
| 10518 | AAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) | WLAN | 8.23 | 19.6 |
| 10519 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) | WLAN | 8.39 | ±9.6 |
| 10520 | AAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) | WLAN | 8.12 | 19.6 |
| 10521 | AAD | IEEE 802.11a/h WIFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) | WLAN | 7,97 | ±9.6 |
| 10522 | AAD | IEEE 802.11a/h WIFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 10523 | AAD | IEEE 802.11a/h WiFl 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | WLAN | 8.08 | ±9.6 |
| 10524 | DAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | WLAN | 8.27 | ±9.6 |
| 10525 | AAD | IEEE 802.11ac WIFI (20 MHz, MCS0, 99pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 10526 | AAD | IEEE 802,11ac WiFi (20 MHz, MCS1, 99pc duty cycle) | WLAN | 8.42 | ±9.6 |
| 10527 | | A contract of the contract of | WLAN | 8.21 | ±9.6 |
| 10528 | | | WLAN | 8.36 | ±9.6 |
| 10529 | in the first followers. | A STATE OF THE PROPERTY OF THE | WLAN | 8.36 | ±9.6 |
| 10531 | CAA | The state of the s | WLAN | 8.43 | ±9.6 |
| mice little beginn | to be desired to the same | The state of the s | WLAN | 8.29 | ±9.6 |
| 10532 | | The state of the s | WLAN | | - |
| 10533 | tel econolizare/size As | The state of the s | N DANSON STORY | 8.38 | 19.6 |
| 10534 | - | | WLAN | 8.45 | ±9.6 |
| 10535 | and the barriers | | WLAN | 8.45 | ±9.6 |
| 10536 | - | The state of the s | WLAN | 8.32 | ±9.6 |
| 10537 | - | A second | WLAN | 8.44 | ±9.6 |
| 10538 | AAD | IEEE 802.11ac WIFI (40 MHz, MCS4, 99pc duty cycle) | WLAN | 8.54 | ±9.6 |
| | AAD | IEEE 802.11ac WIFI (40 MHz, MCS6, 99pc duty cycle) | WLAN | 8.39 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | UncE k = 2 |
|-------|--------------------------------|---|--------|----------|------------|
| 10541 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle) | WLAN | 8.46 | ±9.6 |
| 10542 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle) | WLAN | 8.65 | ±9.6 |
| 0543 | CAA | IEEE 802.11ac WIFI (40 MHz, MCS9, 99pc duty cycle) | WLAN | 8.65 | ±9.6 |
| 10544 | AAD | IEEE 802.11ac WiFI (80 MHz, MCS0, 99pc duty cycle) | WLAN | 8.47 | ±0.6 |
| 0545 | AAD | IEEE 802.11ac WIFI (80 MHz, MCS1, 99pc duty cycle) | WLAN | 8.55 | #9.6 |
| 10546 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle) | WLAN | 8.35 | ±9.6 |
| 10547 | AAD | IEEE 802.11ac WIFI (80 MHz, MCS3, 99pc duty cycle) | WLAN | 8.49 | ±9.6 |
| 10548 | AAD | IEEE 802.11ac WIFI (80 MHz, MCS4, 95pc duty cycle) | WLAN | 8.37 | ±9.6 |
| 10550 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle) | WLAN | 6.38 | ±9.6 |
| 10551 | AAD | IEEE 802.11ac WIFI (80 MHz, MGS7, 99pc duty cycle) | WLAN | 8.50 | ±9.6 |
| 10552 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle) | WLAN | 6.42 | ±9.6 |
| 10553 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 10554 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle) | WLAN | 8.48 | 19.6 |
| 10555 | AAE | IEEE 802.11ac WIFI (160 MHz, MCS1, 99pc duly cycle) | WLAN | 8.47 | ±9.6 |
| 10556 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle) | WLAN | 8.50 | ±9.6 |
| 10557 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle) | WLAN | 8.52 | ±9.6 |
| 10558 | AAE | IEEE 802.11ac WiFI (160 MHz, MC54, 99pc duty cycle) | WLAN | 8.61 | ±9.6 |
| 10560 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duty cycle) | WLAN | 8.73 | 19.6 |
| 10561 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle) | WLAN | 8.56 | £9.6 |
| 10562 | AAE | IEEE 802.11ac WiFi (150 MHz, MCS8, 99pc duty cycle) | WLAN | 8.69 | ±9.6 |
| 10563 | AAE | IEEE 802.11ac WIFI (160 MHz, MCS9, 99pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 10564 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle) | WLAN | 8.25 | ±9.6 |
| 10565 | AAA. | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 10566 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | WLAN | 8.13 | ±9.6 |
| 10567 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | WLAN | 8.00 | ±9.6 |
| 10568 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | WLAN | 8.37 | ±9.6 |
| 10569 | AAA | IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | WLAN | 8.10 | ±9.6 |
| 10570 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | WLAN . | 8.30 | ±9.6 |
| 10571 | AAA | IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) | WLAN | 1.99 | 19.6 |
| 10572 | AAA | IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) | WLAN | 1.99 | ±9.6 |
| 10573 | AAA | IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) | WLAN | 1,98 | ±9.6 |
| 10574 | AAA | IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) | WLAN | 1.98 | ±9.6 |
| 10575 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) | WLAN | 8.59 | ±9.6 |
| 10576 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) | WLAN | 8.60 | 19.6 |
| 10577 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | WLAN | 8.70 | ±9.6 |
| 10578 | AAA | IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | WLAN | 8.49 | ±9.6 |
| 10579 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | WLAN | 8.36 | 19.6 |
| 10580 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFOM, 36 Mbps, 90pc duty cycle) | WLAN | 8.76 | ±9.6 |
| 10581 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | WLAN | 8.35 | ±9.6 |
| 10582 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | WLAN | 8.67 | ±9.6 |
| 10583 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) | WLAN | 8.59 | ±9.6 |
| 10584 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle) | WLAN | 8.60 | ±9.6 |
| 10585 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle) | WLAN | 8.70 | ±9.6 |
| 10586 | AAD | IEEE 802.11a/h WFI 5 GHz (OFDM, 18 Mbps, 90pc duty cycle) | W.AN | 8.49 | ±9.6 |
| 10587 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 10588 | AAD | IEEE 802.11a/h WiFl 5 GHz (OFDM, 36 Mbps, 90pc duty cycle) | WLAN | 8.76 | ±9.8 |
| 10589 | AAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps, 90pc duty cycle) | WLAN | 8.35 | 19.6 |
| 10590 | AAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 90pc duty cycle) | WLAN | 8.67 | ±9.6 |
| 10591 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle) | WLAN | 8.63 | ±9.6 |
| 10592 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle) | WLAN | 8.79 | 19.6 |
| 10593 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle) | WLAN | 8.64 | ±9.6 |
| 10584 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle) | WLAN | 8.74 | ±9.6 |
| 10595 | AAD | IEEE 802.11n (HT Mixed; 20 MHz, MCS4, 90pc duty cycle) | WLAN | 8.74 | ±9.6 |
| 10596 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle) | WLAN | 8.71 | ±9.6 |
| 10597 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle) | WLAN | 8.72 | ±9.6 |
| 10598 | A STATE OF THE PERSON NAMED IN | IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle) | WLAN | 8.50 | ±9.6 |
| 10599 | - | IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle) | WLAN | 8.79 | ±9.6 |
| 10600 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle) | WLAN | 8.88 | 19.5 |
| 10601 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 10602 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle) | WLAN | 8.94 | ±9.5 |
| 10603 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle) | WLAN | 9.03 | ±9.6 |
| 10604 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCSS, 90pc duty cycle) | WLAN | 8.76 | ±9.6 |
| 10605 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle) | WLAN | 8.97 | ±9.6 |
| 10606 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 10607 | AAD | IEEE 802.11ac WiFI (20 MHz, MCSO, 90pc duty cycle) | WLAN | 8.64 | ±9.6 |
| 10608 | AAD | IEEE 802.11ac WIFI (20 MHz, MCS1, 90pc duty cycle) | WLAN | 8.77 | ±9.6 |

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| UID F | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = |
|--|------|--|-----------|----------|----------------------|
| | AAD | IEEE 802.11ac WIFI (20 MHz, MCS2, 90pc duty cycle) | WLAN | 8.57 | ±9.6 |
| 100000000000000000000000000000000000000 | AAD | IEEE 802.11ac WIFI (20 MHz, MCS3, 90pc duty cycle) | WLAN | 8.78 | ±9.6 |
| | AAD | IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle) | WLAN | 8.70 | ±9.6 |
| | AAD | IEEE 802.11ac WIFI (20 MHz, MCSS, 90pc duty cycle) | WLAN | 8.77 | ±9.6 |
| And Salamon and | AAD | IEEE 802.11ac WIFI (20 MHz, MCS6, 90pc duty cycle) | WLAN | 8.94 | ±9.5 |
| | AAD | IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle) | WLAN | 8.59 | ±9.6 |
| 1000 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| | AAD | IEEE 802,11ac WIFI (40 MHz, MCS0, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| The state of the s | AAD | IEEE 802 11ac WIFI (40 MHz, MCS1, 90pc duty cycle) | WLAN | 8.81 | ±9.6 |
| 20,700,000 | CAA | IEEE 802 11ac WiFI (40 MHz, MCS2, 90pc duty cycle) | WLAN | 8.58 | ±9.6 |
| | CIAA | IEEE 802.11ac WIFI (40 MHz, MCS3, 90pc duty cycle) | WLAN | 8.86 | ±9.6 |
| in him by below the | CAA | IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle) | WLAN | 8.87 | ±9.6 |
| | CIAA | IEEE 802.11ac WIFI (40 MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 0622 / | CAA | IEEE 802.11ac WIFI (40 MHz, MCS6, 90pc duty cycle) | WLAN | 8.68 | ±9.6 |
| | CAA | IEEE 802,11ac WIFI (40 MHz, MCS7, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| The second second | CIAA | IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle) | WLAN | 8.96 | ±9.6 |
| | CAA | IEEE 802.11ac WiFl (40 MHz, MCS9, 90pc duty cycle) | WLAN | 8.96 | ±9.6 |
| The Part of the Pa | CAA | IEEE 802.11ac WIFI (80 MHz, MCS0, 90pc duly cycle) | WLAN | 8.83 | ±9.6 |
| | CAA | IEEE 802.11ac WiFl (80 MHz, MCS1, 90pc duly cycle) | WLAN | 8.88 | ±9.6 |
| A STATE OF THE PARTY OF THE PAR | AAD | IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle) | WLAN | 8.71 | ±9.6 |
| | AAD | IEEE 802,11ac WIFI (80 MHz, MCS3, 90pc duty cycle) | WI,AN | 8.85 | ±9.6 |
| | AAD | IEEE 802.11ac WiFi (80 MHz, MGS4, 90pc duty cycle) | WLAN | 8.72 | ±9.6 |
| | DAA | IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) | WLAN | 8.81 | ±9.6 |
| 0832 | CAA | IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) | WLAN | 8.74 | ±9.6 |
| 0633 | CAA | IEEE 802.11ac WIFI (80 MHz, MCS7, 90pc duty cycle) | WLAN | 8.83 | ±9.6 |
| 0834 | CAA | IEEE 802.11ac WIFI (80 MHz, MCS8, 90pc duty cycle) | WLAN | 8.80 | ±9.6 |
| 0635 | AAD | IEEE 802.11ac WiFl (80 MHz, MCS9, 90pc duty cycle) | WLAN | 8.81 | ±9.6 |
| 0636 | ддЕ | IEEE 802.11ac WIFI (160 MHz, MCS0, 90pc duty cycle) | WLAN | 8.83 | ±9,6 |
| 0637 | AAE | IEEE 802.11ac WIFI (160 MHz, MCS1, 90pc duty cycle) | WLAN | 8.79 | 19.6 |
| 0638 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle) | WLAN | 8.86 | ±9.6 |
| 0639 | AAE | IEEE 802.11ac WIFI (160 MHz, MCS3, 90pc duty cycle) | WLAN | 8.85 | ±9.6 |
| 0640 | AAE | IEEE 802.11ac WIFI (160 MHz, MCS4, 90pc duty cycle) | WLAN | 8.98 | ±9.6 |
| 0641 | AAE | IEEE 802.11ac WIFI (160 MHz, MCS5, 90pc duty cycle) | WLAN | 9.05 | ±9.6 |
| 0642 | AAE | IEEE 802.11ac WIFI (180 MHz, MCS6, 90pc duty cycle) | WLAN | 9.06 | ±9.6 |
| 0643 | AAE | IEEE 802.11ac WIFI (160 MHz, MCS7, 90pc duty cycle) | WLAN | 8.89 | ±9.6 |
| 0644 | AAE | IEEE 802.11ac WFI (160 MHz, MCS8, 90pc duty cycle) | WLAN | 9.05 | ±9.6 |
| 0645 | AAE | IEEE 802.11ac WIFI (160 MHz, MCS9, 90pc duty cycle) | WLAN | 9.11 | ±9.6 |
| 0646 | AAH | LTE-TDD (SC-FDMA, 1 R8, 5 MHz, QPSK, UL Subframe=2,7) | LTE-TDO | 11.96 | ±9.6 |
| 0647 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | LTE-TDO | 11.96 | ±9.6 |
| 0648 | AAA, | CDMA2000 (1x Advanced) | CDMA2000 | 3.45 | ±9.6 |
| 75 75 75 15 15 | AAF | LTE-TOD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-TOD | 6.91 | ±9.6 |
| 0653 | AAF | LTE-TOD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) | LTE-TDO | 7.42 | ±9.6 |
| 0654 | AAE | LTE-TDD (OFDMA, 15MHz, E-TM 3.1, Clipping 44%) | LTE-TDO | 6.86 | ±9.6 |
| | AAF | LTE-TDD (OFDMA, 20MHz, E-TM 3.1, Clipping 44%) | LTE-TOD | 7.21 | ±9.6 |
| minuted as being | AAH | Pulse Waveform (200Hz, 10%) | Test | 10.00 | ±9.6 |
| | AAB | Pulse Waveform (200Hz, 20%) | Test | 6.99 | ±9.6 |
| Contract to the Contract of th | AAB | Pulse Waveform (200Hz, 40%) | Test | 3.98 | ±9.6 |
| - | AAB | Pulse Waveform (200Hz, 60%) | Test | 2.22 | #9.0 |
| Administration of the | AAB | Pulse Waveform (200Hz, 80%) | Test | 0.97 | 19.6 |
| | AAA. | Bluetooth Low Energy | Bluetooth | 2.19 | #9.6 |
| | AAC | IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle) | WLAN | 9.09 | 19.6 |
| A STATE OF THE PARTY NAMED IN | AAC | IEEE 802.11ax (20 MHz, MGS1, 90pc duty cycle) | WLAN | 8.57 | ±9.6 |
| | AAC | IEEE 802,11ax (20 MHz, MCS2, 90pc duty cycle) | WLAN | 8.78 | 19.6 |
| ed and Salah kandida | AAC | IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle) | WLAN | 8.74 | ±9.6 |
| - | AAC | IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle) | WLAN | 8.90 | ±9.6 |
| DOMESTIC STREET | AAC | IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | ±9.6 |
| | AAC | IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle) | WLAN | 8.73 | 19.6 |
| inited section | AAC | IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle) | WLAN | 8.78 | ±9.6 |
| 17.0 | AAC | IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle) | WLAN | 8.89 | ±9.6 |
| CONTRACTOR OF THE PARTY OF THE | AAC | IEEE 802.11ax (20 MHz, MGS9, 90pc duty cycle) | WLAN | 8.80 | ±9.6 |
| | AAC | IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle) | WLAN | 8.62 | ±9.6 |
| CONTRACTOR AND ADDRESS OF | AAC | IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle) | WLAN | 8.83 | ±9.6 |
| | AAC | IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle) | WLAN | 8.42 | ±9.6 |
| | AAC | IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle) | WLAN | 8.26 | ±9.6 |
| 10685 | AAC | IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle) | WLAN | 8.33 | 19.6 |
| 0686 | AAC | IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle) | WLAN | 8.28 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Uno ^E k = |
|-------------------|---------|---|-------|----------|----------------------|
| 10687 | AAC | IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 10688 | AAC | IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 10689 | AAC | IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle) | WLAN | 8.55 | ±9.6 |
| 0690 | AAC | IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 0691 | AAC | IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle) | WLAN | 8.25 | ±9.6 |
| 10692 | AAC | IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 10693 | AAC | IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle) | WLAN | 8.25 | ±9.6 |
| 10694 | AAC | IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle) | WLAN | 8.57 | ±9.6 |
| 10695 | AAC | IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle) | WLAN | 8.78 | ±9.6 |
| 10696 | AAC | IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle) | WLAN | 8.91 | ±9.6 |
| 10697 | AAC | IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle) | WLAN | 8.61 | ±9.6 |
| 10698 | AAC | IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle) | WLAN | 8.89 | ±9.6 |
| 10699 | AAC | IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 0.700 | AAC | IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle) | WLAN | 8.73 | ±9.6 |
| 10701 | AAC | IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle) | WLAN | 8.86 | ±9.6 |
| 10702 | AAC | IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle) | WLAN | 8.70 | ±9.6 |
| 10703 | AAC | IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 10704 | AAC | IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle) | WLAN | 8.56 | ±9.6 |
| 10705 | AAC | IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle) | WLAN | 8.69 | ±9.6 |
| 10706 | AAC | IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle) | WLAN | 8.66 | ±9.6 |
| 0707 | AAC | IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle) | WLAN | 8.32 | ±9.6 |
| 10708 | AAC | IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle) | WLAN | 8.56 | ±9.6 |
| 0709 | AAC | IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle) | WLAN | 8.33 | ±9,6 |
| 10710 | AAC | IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 10711 | AAC | IEEE 802.11 ax (40 MHz, MCS4, 99pc duty cycle) | WLAN | 8.39 | ±9.6 |
| 10712 | AAC | IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle) | WLAN | 8.67 | ±9.6 |
| 10713 | AAC | IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle) | WLAN | 8.33 | ±9.6 |
| 10714 | AAC | IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle) | WLAN | 8.26 | ±9.6 |
| 0715 | AAC | IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 0716 | AAC | IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle) | WLAN | 8.30 | 19.6 |
| 10717 | AAC | IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle) | WLAN | 8.48 | ±9.6 |
| 10718 | AAC | IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle) | WLAN | 8.24 | ±9.6 |
| 10719 | AAC | IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle) | WLAN | 8.81 | 19.6 |
| 10720 | AAC | IEEE 902.11ax (90 MHz, MCS1, 90pc duty cycle) | WLAN | 8.87 | 19.5 |
| 10721 | AAC | IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle) | WLAN | 8.76 | ±9.6 |
| 10722 | AAC | IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle) | WLAN | 8.55 | ±9.6 |
| 10723 | AAC | (EEE 802.11ax (80 MHz, MCS4, 90pc duty cycle) | WLAN | 8.70 | 19.6 |
| 10724 | AAC | IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle) | WLAN | 8.90 | ±9.6 |
| 10725 | AAC | IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle) | WLAN | 8.74 | ±9.6 |
| 10726 | AAC | IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle) | WLAN | 8.72 | ±9.6 |
| 10727 | AAC | IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle) | WLAN | 8.66 | 19.6 |
| 0728 | AAC | IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle) | WLAN | 8.65 | ±9.6 |
| 10729 | AAC | IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle) | WLAN | 8.64 | ±9.6 |
| 0730 | AAC | IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle) | WLAN | 8.67 | ±9.6 |
| 10731 | AAC | IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle) | WLAN | 8.42 | 19.6 |
| 10732 | AAC | IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle) | WLAN | 8.46 | 19.6 |
| 10733 | AAC | IEEE 802.11ax (80 MHz, MCS2, 98pc duty cycle) | WLAN | 8.40 | ±9.6 |
| 0734 | AAC | IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle) | WLAN | 8.25 | ±9.6 |
| 0735 | AAC | IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle) | WLAN | 8.33 | 19.6 |
| 0736 | AAC | IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle) | WLAN | 8.27 | 19.6 |
| 0737 | AAC | IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle) | WLAN | 8.36 | 19.6 |
| 0738 | AAC | IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle) | WLAN | 8.42 | ±9.6 |
| 0739 | AAC | IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) | WLAN | 8.29 | 19.6 |
| 0740 | AAC | IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) | WLAN | 8.48 | ±9.6 |
| 0741 | AAC | IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) | WLAN | 8.40 | 19.6 |
| 0742 | AAC | IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) | WLAN | 8.43 | 19.6 |
| 0743 | AAC | IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) | WLAN | 8.94 | 19.6 |
| 0744 | AAC | IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) | WLAN | 9.16 | 19.6 |
| 0745 | AAC | IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) | WLAN | 8.93 | 19.6 |
| 0746 | AAC | IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) | WLAN | 9.11 | ±9.6 |
| 0747 | AAC | IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle) | WLAN | 9.04 | 194 |
| 10748 | AAC | IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle) | WLAN | 8.93 | |
| 0749 | AAC | IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle) | WLAN | - | 19.6 |
| the incoming Live | AAC | IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle) | WLAN | 8.90 | ±9.6 |
| | PAPER . | make own rise (100 mins, most, auto only cycle) | WLAN | 8.79 | ±9.6 |
| 10750 | AAC | IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle) | WLAN: | 8.82 | 19.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = |
|-------------------|--|--|--|----------|--|
| 10753 | AAC | IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle) | WLAN | 9:00 | ±9.6 |
| 0.754 | AAC | IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle) | WLAN | 8.94 | ±9.6 |
| 0.765 | AAC | IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle) | WLAN | 8.64 | ±9.6 |
| 0756 | AAC | IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle) | WLAN | 8.77: | ±9.6 |
| 0757 | AAC | IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 0758 | AAC | IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle) | WLAN | 8.69 | 19.6 |
| 0759 | AAC | IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle) | WLAN | 8.58 | ±9.6 |
| 0760 | AAC | IEEE 802 11ax (160 MHz, MCS5, 99pc duty cycle) | WLAN | 8.49 | ±9.6 |
| 0761 | AAC | IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle) | WLAN | 8.58 | ±9.6 |
| 0762 | AAC | IEEE 802.11ax (160MHz, MCS7, 99pc duly cycle) | WLAN | 8.49 | ±9.6 |
| ALC: A CONTRACTOR | AAC | IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) | WLAN | 8.53 | ±9.6 |
| 0763 | AAC | IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) | WLAN | 8.54 | ±9.6 |
| 0.766 | AAC | IEEE 802.11ax (160 MHz, MCS10, 99pc duly cycle) | WLAN | 8.54 | ±9.6 |
| | AAC | IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) | WLAN | 8.51 | ±9.6 |
| 0766 | A Company of the | SG NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 7.99 | ±9.6 |
| 0767 | AAG. | Control of the contro | 5G NR FR1 TDD | 8.01 | 19.6 |
| 0768 | AAE | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TOD | 8.01 | 19.6 |
| 0769 | CAA | 5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 15kHz) | 5G NR FR1 TOD | 8.02 | 19.6 |
| 0770 | AAE | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | The state of the s | 8.02 | 19.6 |
| 0771 | AAD | 5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 15MHz) | 5G NR FR1 TDD | 8.23 | 19.6 |
| 0772 | AAE | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | | A CONTRACTOR OF THE PARTY OF TH |
| 0773 | AAF | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.03 | 19.6 |
| 0774 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ±9.6 |
| 0775 | AAF | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | SG NR FR1 TDD | 8.31 | ±9.6 |
| 0.776 | AAE | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.30 | ±9.6 |
| 10777 | AAG | SG NR (CP-OFOM, 50% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TOD | 8.30 | ±9.6 |
| 10778 | AAE | 5G NR (CP-OFOM, 50% RB, 20 MHz, QPSK, 15 kHz) | 50 NR FR1 TOD | 8.34 | ±9.6 |
| 10779 | AAC | 5G NR (CP-OFDM, 50% RB, 25MHz, QPSK, 15kHz) | 5G NR FR1 TDD | 8.42 | ±9.6 |
| 10780 | AAE | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.38 | ±9.6 |
| 10781 | AAF | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TD0 | 8.38 | 5,9.6 |
| 10782 | AAE | 5G NR (CP-QFDM, 50% RB, 56 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.43 | 主9.6 |
| 10783 | AAG | 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15kHz) | 5G NR FR1 TD0 | 8.31 | ±9.6 |
| 10784 | AAE | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.29 | ±9.6 |
| 10785 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.40 | ±9.6 |
| 10786 | AAE | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TOD | 8.35 | 19.6 |
| 10787 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.44 | ±9.6 |
| 10788 | AAE | 50 NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15kHz) | 5G NR FR1 TOD | 8.39 | ±9.6 |
| 10789 | AAF | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.37 | ±9.6 |
| 10790 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, CPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | ±9.6 |
| 10791 | AAG | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.83 | ±9.6 |
| 10792 | AAE | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.92 | ±9.5 |
| 10793 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.95 | 19.6 |
| 10794 | AAE | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TD0 | 7.82 | ±9.6 |
| 10795 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.84 | ±9.6 |
| 10796 | AAE | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.82 | ±9.6 |
| 10797 | AAF | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.01 | ±9.€ |
| 10798 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.89 | ±9.6 |
| 10799 | AAF | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.93 | 19.6 |
| 10801 | AAF | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TD0 | 7.89 | ±9.6 |
| 10802 | AAE | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.87 | ±9.6 |
| 10803 | AAF | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.93 | ±9.6 |
| 10805 | AAE | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |
| 10806 | to an a contract of the contra | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.37 | ±9.6 |
| 10809 | | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDO | 8.34 | ±9.6 |
| 10810 | AAF | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |
| 10812 | | 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.35 | 19.6 |
| 10817 | | | 5G NR FR1 TDD | 8.35 | 19.6 |
| 10818 | - | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 KHz) | 5G NR FR1 TDD | 8.34 | 19.6 |
| 10819 | de Brooks (index parti) | | 5G NR FR1 TDD | 8.33 | ±9.6 |
| 10820 | | 5G NR (CP-OFDM, 100% R8, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.30 | 29.6 |
| | - | 5G NR (CP-OFDM, 100% RB, 25MHz, QPSK, 30 kHz) | SG NA FR1 TOD | 8.41 | - |
| 10821 | and the same | | The second secon | 1000 | ±9.6 |
| 10822 | - | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | 29.6 |
| 10823 | | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.36 | ±9.6 |
| 10824 | | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.39 | ±9.6 |
| 10825 | - | 5G NR (CP-QFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | ±9.6 |
| 10827 | man and the later of | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.42 | ±9.6 |
| 10828 | AAE | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.43 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = 2 |
|-------|-------------------------|--|---|--------------|------------------------|
| 0829 | AAF | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.40 | ±9.6 |
| 0830 | AAE | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.63 | ±9.6 |
| 0831 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) | 50 NR FR1 TDD | 7.73 | ±9.6 |
| 0832 | AAE | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.74 | ±9.6 |
| 0833 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7,70 | ±9.6 |
| 0834 | AAE | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 80 kHz) | 50 NR FR1 TDD | 7.75 | ±9.6 |
| 0835 | AAF | 5G NR (CP-OFDM, 1 RB. 40 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ±9.6 |
| 0836 | AAE | 5G NR (CP-OFDM, 1 RB. 50 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.66 | ±9.5 |
| 0837 | AAF | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 80 kHz) | 50 NR FR1 TDD | 7:68 | ±9.6 |
| 0839 | AAF | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ±9.6 |
| 0840 | AAE | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.67 | ±9.6 |
| 0841 | AAF | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.71 | ±9.6 |
| 0843 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.49 | ±9.6 |
| 0844 | AAE | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |
| 0846 | AAE | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ±9.6 |
| 0854 | AAE | 50 NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |
| 0855 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.36 | ±9.6 |
| 0856 | AAE | 50 NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.37 | ±9.6 |
| 0857 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.35 | ±9.6 |
| 0858 | AAE | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.36 | ±9.6 |
| 0859 | AAF | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |
| | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ±9.6 |
| 10860 | AAF | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) | 5G NA FR1 TDD | 8.40 | ±9.6 |
| 0.861 | AAF | NOT HAVE A MADE A SECOND CONTROL OF A SECOND C | 5G NR FR1 TDD | 8.41 | ±9.6 |
| 10000 | | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 80 kHz) | 5G NR FR1 TDD | 8.37 | ±9.6 |
| 10864 | AAE | A CONTROL OF THE CONT | 5G NR FR1 TDD | 8.41 | ±9.6 |
| 0.865 | AAF | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 0866 | AAF | 5G NR (DFTs-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR (DFTs-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.89 | ±9.6 |
| 0868 | AAF | | 5G NR FR2 TDD | 5.75 | ±9.6 |
| 0869 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TD0 | 5.86 | ±9.6 |
| 0870 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.75 | ±9.6 |
| 10871 | AAE | 5G NR (DFT-a-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) | 1.5000000000000000000000000000000000000 | | |
| 10872 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100MHz, 16QAM, 120kHz) | 5G NA FR2 TDD | 6.52 | ±9.6 |
| 10873 | AAE | 5G NR (DFT-a-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | ±9.6 |
| 10874 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | £9.6 |
| 10875 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 7.78 8.39 | ±9.6 |
| 10876 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | | ±9.6 |
| 10877 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 7.95 | ±9.6 |
| 10878 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.41 | ±9.6 |
| 10879 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | B.12 | ±9.6 |
| 10880 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TOD | 8.38 | ±9.6 |
| 10881 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TOD | 5.75 | ±9.6 |
| 10882 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.96 | ±9.6 |
| 10883 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.57 | ±9.6 |
| 10884 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 18QAM, 120 kHz) | 5G NR FR2 TDD | 6.53 | ±9.6 |
| 10885 | AAE | 5G NR (DFT-9-OFDM, 1 RB, 50 MHz, 84QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | ±9.6 |
| 10886 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ±9/6 |
| 10887 | AAE | 5G NR (CP-OFOM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 7.78 | ±9.6 |
| 10888 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 8.35 | ±9.6 |
| 10889 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | SG NR FR2 TDD | 8.02 | ±9.6 |
| 10890 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120kHz) | 5G NA FR2 TDD | 8.40 | ±9.6 |
| 10891 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TOD | 8.13 | 19.6 |
| 10892 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.41 | ±9.6 |
| 10897 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.66 | 19.6 |
| 0898 | AAC | 5G NR (DFFs-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | ±9.8 |
| 0899 | _ | 5G NR (DFT-s-OFDM, 1 RB, 15MHz, QPSK, 30kHz) | 5G NR FR1 TDD | 5.67 | ±9.6 |
| 0900 | IN THE PERSONS NAMED IN | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 0901 | AAB | 5G NR (DFT-s-OFOM, 1 RB, 25MHz, QPSK, 30kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 0902 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.88 | 19.6 |
| 10903 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 10904 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 10905 | AAD | 5G NR (DFT-e-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 10906 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.88 | 19.6 |
| 10907 | AAE | 5G NR (DFT-e-OFDM, 50% RB, 5MHz, QPSK, 38kHz) | 50 NR FR1 TDD | 5.78 | ±9.6 |
| 10908 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.93 | ±9.6 |
| 10909 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.96 | ±9.6 |
| 10910 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TOD | 5.83 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | UngE k = |
|------------------------|--|--|--|-----------|----------|
| 10911 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25MHz, QPSK, 30kHz) | 5G NR FR1 TDD | 5.93 | ±9,6 |
| 10912 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TOD | 5.84 | 19.6 |
| 0913 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ±9.6 |
| 0914 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 50MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5,85 | ±9.6 |
| 0915 | (IAA) | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.83 | ±9.6 |
| 0916 | AAD | 53 NR (DFT-s-OFDM, 50% RB, 80MHz, QPSK, 30kHz) | 5G NR FR1 TDD | 5.87 | ±9.6 |
| 0917 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | ±9.6 |
| 0918 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | ±9.6 |
| 0919 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 56 NR FR1 TOD | 5.86 | ±9.6 |
| to well the product of | AAB | 5G NR (DFTs-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.87 | ±9.6 |
| 0920 | Andrew Street | 5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ±9.6 |
| 0921 | AAC | 1.45-11/11/11/11/11/11/11/11/11/11/11/11/11/ | 5G NR FR1 TDD | 5.82 | ±9.6 |
| 0922 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) | 50 NR FR1 TDD | 5.84 | ±9.6 |
| 0923 | AAG | 5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | - Proteinson to the second second | 5.84 | ±9.6 |
| 0924 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | |
| 0925 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | 5G NA FR1 TDD | 5.95 | ±9.6 |
| 0926 | AAD | 5G NR (DFTs-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDO | 5.84 | ±9.6 |
| 0927 | AAD | 5G NR (DFT-8-OFDM, 100% RB, 80MHz, QPSK, 30kHz) | 5G NR FR1 TDD | 5.94 | ±9.6 |
| 0928 | CIAA | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ±9.6 |
| 0929 | AAD | 5G NR (DFT-e-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ±9.6 |
| 0930 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | 士9.6 |
| 0931 | AAC | 5G NR (DFT-II-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5,51 | ±9.6 |
| 0932 | AAC | 5G NR (DFT-a-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ±9.6 |
| 0933 | AAC | 50 NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ±9.6 |
| 0934 | AAG | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | 19.6 |
| 0935 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ±9.6 |
| 0936 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.90 | ±9.6 |
| 0937 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.77 | ±9.6 |
| A Lamberton | | 5G NR (DFT-s-OFDM, 50% RB, 15MHz, QPSK, 15kHz) | 5G NR FR1 FDD | 5.90 | ±9.6 |
| 0938 | AAG | | 5G NR FR1 FDD | 5.82 | 19.6 |
| 0938 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 1,000,000 | |
| 0940 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | | 5.89 | 19.6 |
| 0941 | AAC | 5G NR (DFT-e-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | ±9.6 |
| 0942 | AAC | 5G NR (DFT-6-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FD0 | 5.85 | ±9.6 |
| 0943 | AAD | SG NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDO | 5.95 | ±9.6 |
| 0944 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 15kHz) | 5G NR FR1 FDD | 5.81 | ±9.6 |
| 0945 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | 19.6 |
| 0946 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 15kHz) | 5G NR FR1 FDD | 5.83 | ±9.6 |
| 0947 | AAC | 5G NR (DFT-s OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FD0 | 5.87 | ±9.6 |
| 0948 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 15kHz) | 5G NR FR1 FDD | 5.94 | ±9.6 |
| 0949 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15kHz) | 5G NR FR1 FDD | 5.87 | ±9.6 |
| 0950 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | ±9.6 |
| 0961 | CAA | 5G NR (DFT-e-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.92 | ±9.6 |
| 0962 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.25 | ±9.6 |
| 0953 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.15 | ±9.6 |
| 0954 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 84-QAM, 15 kHz) | 5G NR FR1 FDD | 8.23 | 29.6 |
| 0955 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.42 | ±9.6 |
| 0956 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.14 | ±9.6 |
| 0957 | | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.31 | ±9.6 |
| | 1000000 | | 5G NR FR1 FDD | 8.61 | - |
| 0958 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) | 5G NR FRI FDD | | ±9.6 |
| 0959 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) | | 8.33 | ±9.6 |
| 0960 | AAE | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.32 | ±9.6 |
| 0961 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.36 | ±9.6 |
| 0962 | and the first of t | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TD0 | 9.40 | ±9.6 |
| 0963 | | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.55 | ±9.6 |
| 0964 | AAE | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.29 | ±9.6 |
| 0985 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.37 | 19.6 |
| 0966 | AAB | 50 NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) | 50 NR FR1 TDD | 9.55 | 19.6 |
| 0967 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) | SG NR FR1 TDD | 9.42 | ±9.6 |
| 0968 | AAD | 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.49 | ±9.6 |
| 0972 | | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 11.59 | 19.8 |
| 0973 | in the contract of the | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 9.06 | 19.6 |
| 0974 | | 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) | 5G NR FR1 TDD | 10.28 | ±9.6 |
| 0978 | and the ball of the later of th | ULLA BOR | ULLA | 1.16 | 19.6 |
| | | ULLA HDR4 | ULLA | | |
| 0978 | the State St | A CONTRACTOR OF THE CONTRACTOR | A section of the sect | 8.58 | ±9.6 |
| 0980 | _ | ULLA HDR8 | ULLA | 10.32 | ±9.6 |
| 0981 | AAA | ULLA HDRp4 | ULLA | 3.19 | ±9.6 |
| 0982 | AAA | ULLA HDRp8 | ULLA | 3.43 | 19. |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E $k=2$ |
|-------|-----|--|---------------|----------|------------------------|
| 10983 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.31 | ±9.6 |
| 10984 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 54-QAM, 15 kHz) | 5G NR FR1 TDO | 9.42 | ±9.6 |
| 10985 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 54-QAM, 30 kHz) | 5G NR FR1 TDD | 9.54 | ±9.6 |
| 10986 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.50 | ±9.6 |
| 10987 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.53 | ±9.6 |
| 10988 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz) | 50 NR FR1 TDD | 9.38 | ±9.6 |
| 10989 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.33 | ±9.6 |
| 10990 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz) | 5G NA FR1 TDO | 9.52 | ±9.6 |
| 11003 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 10.24 | ±9.6 |
| 11004 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 10.73 | 19.6 |
| 11005 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDO | 8.70 | ±9.6 |
| 11006 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.55 | ±9.6 |
| 11007 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15kHz) | 5G NR FR1 FDD | 8.45 | ±9.6 |
| 11008 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.51 | ±9.6 |
| 11009 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.76 | ±9.6 |
| 11010 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDO | 8.95 | ±9.6 |
| 11011 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.96 | ±9.6 |
| 11012 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 84-QAM, 30 kHz) | 5G NR FR1 FDD | 8.68 | ±9.6 |
| 11013 | AAB | IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle) | WLAN | 8.47 | ±9.6 |
| 11014 | AAB | IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 11015 | AAB | IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle) | WLAN | 8.44 | ±9.6 |
| 11016 | AAB | IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle) | W.AN | 8.44 | ±9.6 |
| 11017 | AAB | IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle) | WLAN | 8.41 | ±9.6 |
| 11018 | AAB | IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle) | WLAN | 8.40 | ±9.6 |
| 11019 | AAB | IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 11020 | AAB | IEEE 802,11be (320 MHz, MCS8, 99pc duty cycle) | WLAN | 8.27 | ±9.6 |
| 11021 | AAB | IEEE 802.11be (320 MHz, MCS9, 99pc duty dycle) | WLAN | 8.46 | ±9.6 |
| 11022 | AAB | IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 11023 | AAB | IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle) | WLAN | 8.09 | 19.6 |
| 11024 | AAB | IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle) | WLAN | 8.42 | ±9.6 |
| 11025 | AAB | IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle) | WLAN | 8.37 | 19.6 |
| 11026 | AAB | IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle) | WLAN | 8.39 | ±9.6 |

E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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Appendix G. - Dipole Calibration Data

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Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client HCT

Gyeonggi-do, Republic of Kores

Certificate No. CLA150-4014_Aug24

| | ERTIFICATE | - 1 및 A | 자 위 및 자 |
|--|--|---|--|
| Object | CLA150 - SN: 40 | 48/99 Sw / | \$ 1 158 1 158 n. 2 22609.02 |
| Calibration procedure(s) | QA CAL-15.v11 Calibration Proce | <u>ול אַ אַכּילי (ל אַ </u> | Alleman and the State of the St |
| Salibration date: | August 19, 2024 | | |
| | ed in the closed laborator | obability are given on the following pages and y facility: environment temperature (22 \pm 3)°C | |
| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
| Oower meter NRP2 | SN: 104778 | 26-Mar-24 (No. 217-04036/04037) | Mar-25 |
| Power sensor NRP-Z91 | SN: 103244 | 26-Mar-24 (No. 217-04036) | Mar-25 |
| Power sensor NRP-Z91 | SN: 103245 | 26-Mar-24 (No. 217-04037) | Mar-25 |
| Reference 20 dB Attenuator | SN: GC2552 (20x) | 26-Mar-24 (No. 217-04046) | Mar-25 |
| Type-N mismatch combination | SN: 310962 / 06327 | 26-Mar-24 (No. 217-04047) | Mar-25 |
| | SN: 3877 | 10-Jan-24 (No. EX3-3877 Jan24) | Jan-25 |
| | Contract of the contract of th | | |
| | SN: 654 | 15-Jan-24 (No. DAE4-654_Jan24) | Jan-25 |
| Aeference Probe EX3DV4 DAE4 Secondary Standards | Contract of the contract of th | | |
| DAE4 Secondary Standards | SN: 654 | 15-Jan-24 (No. DAE4-654_Jan24) | Jan-25 |
| DAE4 | SN: 654 | 15-Jan-24 (No. DAE4-654_Jan24) Check Date (In house) | Jan-25 Scheduled Check |
| DAE4 Secondary Standards Power meter NRP2 | SN: 654 ID # SN: 107193 | 15-Jan-24 (No. DAE4-654_Jan24) Check Date (in house) 08-Nov-21 (in house check Dec-22) | Jan-25 Scheduled Check In house check: Dec-24 |
| DAE4 Secondary Standards Power meter NRP2 Power sensor NRP-Z91 Power sensor NRP-Z91 RF generator HP 8648C | SN: 654 ID # SN: 107193 SN: 100922 SN: 100418 SN: US3642U01700 | 15-Jan-24 (No. DAE4-654_Jan24) Check Date (in house) 08-Nov-21 (in house check Dec-22) 15-Dec-09 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-99 (in house check Jun-24) | Jan-25 Scheduled Check In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-26 |
| DAE4 Secondary Standards Power meter NRP2 Power sensor NRP-Z91 Power sensor NRP-Z91 | SN: 654 ID # SN: 107193 SN: 100922 SN: 100418 | 15-Jan-24 (No. DAE4-654_Jan24) Check Date (in house) 08-Nov-21 (in house check Dec-22) 15-Dec-09 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) | Jan-25 Scheduled Check In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 |
| DAE4 Secondary Standards Power meter NRP2 Power sensor NRP-Z91 Power sensor NRP-Z91 RF generator HP 8648C | SN: 654 ID # SN: 107193 SN: 100922 SN: 100418 SN: US3642U01700 | 15-Jan-24 (No. DAE4-654_Jan24) Check Date (in house) 08-Nov-21 (in house check Dec-22) 15-Dec-09 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-99 (in house check Jun-24) | Jan-25 Scheduled Check In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-26 |
| DAE4 Secondary Standards Power meter NRP2 Power sensor NRP-Z91 Power sensor NRP-Z91 RF generator HP 8648C | SN: 654 ID # SN: 107193 SN: 100922 SN: 100418 SN: US3642U01700 SN: US41080477 | 15-Jan-24 (No. DAE4-654_Jan24) Check Date (in house) 08-Nov-21 (in house check Dec-22) 15-Dec-09 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-99 (in house check Jun-24) 31-Mar-14 (in house check Oct-22) | Jan-25 Scheduled Check In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-26 In house check: Oct-24 |
| DAE4 Secondary Standards Power meter NRP2 Power sensor NRP-Z91 Power sensor NRP-Z91 RF generator HP 8648C Natwork Analyzer Agilent E8358A Calibrated by: | SN: 554 ID # SN: 107193 SN: 100922 SN: 100418 SN: US3642U01700 SN: US41080477 Name Krešimir Franjič | 15-Jan-24 (No. DAE4-654_Jan24) Check Date (in house) 08-Nov-21 (in house check Dec-22) 15-Dec-09 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-99 (in house check Jun-24) 31-Mar-14 (in house check Oct-22) Function Laboratory Technician | Jan-25 Scheduled Check In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-26 In house check: Oct-24 |
| DAE4 Secondary Standards Power meter NRP2 Power sensor NRP-ZB1 Power sensor NRP-ZB1 RF generator HP 8648C Network Analyzer Agilent E8358A | SN: 654 ID # SN: 107193 SN: 100922 SN: 100418 SN: US3642U01700 SN: US41080477 Name | 15-Jan-24 (No. DAE4-654_Jan24) Check Date (in house) 08-Nov-21 (in house check Dec-22) 15-Dec-09 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-99 (in house check Jun-24) 31-Mar-14 (in house check Oct-22) | Jan-25 Scheduled Check In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-26 In house check: Oct-24 |
| DAE4 Secondary Standards Power meter NRP2 Power sensor NRP-Z91 Power sensor NRP-Z91 RF generator HP 8648C Natwork Analyzer Agilent E8358A Calibrated by: | SN: 554 ID # SN: 107193 SN: 100922 SN: 100418 SN: US3642U01700 SN: US41080477 Name Krešimir Franjič | 15-Jan-24 (No. DAE4-654_Jan24) Check Date (in house) 08-Nov-21 (in house check Dec-22) 15-Dec-09 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-99 (in house check Jun-24) 31-Mar-14 (in house check Oct-22) Function Laboratory Technician | Jan-25 Scheduled Check In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-26 In house check: Oct-24 |
| DAE4 Secondary Standards Power meter NRP2 Power sensor NRP-Z91 Power sensor NRP-Z91 RF generator HP 8648C Natwork Analyzer Agilent E8358A Calibrated by: | SN: 554 ID # SN: 107193 SN: 100922 SN: 100418 SN: US3642U01700 SN: US41080477 Name Krešimir Franjič | 15-Jan-24 (No. DAE4-654_Jan24) Check Date (in house) 08-Nov-21 (in house check Dec-22) 15-Dec-09 (in house check Dec-22) 01-Jan-04 (in house check Dec-22) 04-Aug-99 (in house check Jun-24) 31-Mar-14 (in house check Oct-22) Function Laboratory Technician | Jan-25 Scheduled Check In house check: Dec-24 In house check: Dec-24 In house check: Dec-24 In house check: Jun-26 In house check: Oct-24 |

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Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL

tissue simulating liquid

ConvF N/A sensitivity in TSL / NORM x,y,z not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.



Measurement Conditions

DASY system configuration, as far as not given on page 1.

| DASY Version | DASY5 | V52.10,4 |
|----------------------|--------------------------------|----------------------------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | ELI4 Flat Phantom | Shell thickness: 2 ± 0.2 mm |
| EUT Positioning | Touch Position | |
| Zoom Scan Resolution | dx, dy = 4.0 mm, dz = 1.4 mm | Graded Ratio = 1.4 (Z direction) |
| Frequency | 150 MHz ± 1 MHz | |

Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 52.3 | 0.76 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 50.5 ± 6 % | 0.78 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | 5444 | (e) |

SAR result with Head TSL

| SAR averaged over 1 cm3 (1 g) of Head TSL | Condition | |
|---|------------------|--------------------------|
| SAR measured | 1 W input power | 3.82 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 3.72 W/kg ± 18.4 % (k=2) |

| SAR averaged over 10 cm3 (10 g) of Head TSL | condition | |
|---|------------------|--------------------------|
| SAR measured | 1 W input power | 2.53 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 2.47 W/kg ± 18.0 % (k=2) |



Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 48.2 Ω + 5.8 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 24.2 dB |

Additional EUT Data

| Manufactured by | SPEAG |
|---|-------|
| 1000 100 100 100 100 100 100 100 100 10 | |



DASY5 Validation Report for Head TSL

Date: 19.08.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: CLA150; Type: CLA150; Serial: CLA150 - SN: 4014

Communication System: UID 0 - CW; Frequency: 150 MHz

Medium parameters used: f = 150 MHz; $\sigma = 0.78 \text{ S/m}$; $\epsilon_r = 50.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3877; ConvF(12.11, 12.11, 12.11) @ 150 MHz; Calibrated: 10.01.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 15.01.2024
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: TP:2034
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7501)

CLA Calibration for HSL-LF Tissue/CLA150, touch configuration, Pin=1W/Zoom Scan,

dist=1.4mm (8x10x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 83.15 V/m; Power Drift = 0.00 dB

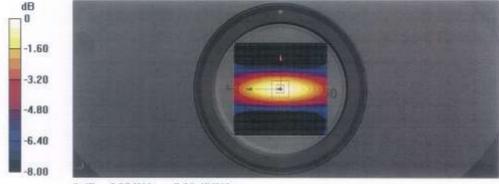
Peak SAR (extrapolated) = 7.29 W/kg

SAR(1 g) = 3.82 W/kg; SAR(10 g) = 2.53 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 14 mm)

Ratio of SAR at M2 to SAR at M1 = 80.1%

Maximum value of SAR (measured) = 5.37 W/kg



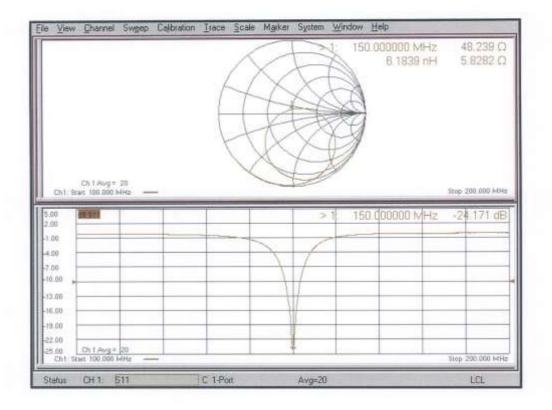
0 dB = 5.37 W/kg = 7.30 dBW/kg

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Impedance Measurement Plot for Head TSL



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