

TEST REPORT

FCC SAR Test for NX-5200-K3

Class II Permissive Change

APPLICANTJVCKENWOOD Corporation

REPORT NO. HCT-SR-2502-FC005-R1

DATE OF ISSUE March 10, 2025

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TEST REPORT

FCC SAR Test for C2PC certification

REPORT NO.

HCT-SR-2502-FC005-R1

DATE OF ISSUE

Mar. 10, 2025

FCC ID:

K44431400

Applicant	JVCKENWOOD Corporation 3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan
Equipment Type Model Name	VHF DIGITAL TRANSCEIVER NX-5200-K2, NX-5200-K3, NX-5200-F2, NX-5200-F3, TK-5230-F2, TK-5230-F3, VP5230-F2, VP5230-F3, VP6230-F2, VP6230-F3, NX-5200S-K2, NX-5200S-K3
Application Type	Class II Permissive Change
Date of Test	Jan. 17, 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
1	Mar. 10, 2025	Revised section 13

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 附z 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

NX-5200-K2, NX-5200-K3, NX-5200-F2, NX-5200-F3, TK-5230-F2, TK-5230-F3, VP5230-F2, VP5230-F3, VP6230-F2, VP6230-F3, NX-5200S-K2, NX-5200S-K3	
VHF DIGITAL TRANSCEIVER	
K44431400	
Class II Permissive Change	
JVCKENWOOD Corporation	

3.2 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	1.44	4.20
Simultaneous transmission analysis			1.46	4.31
Date(s) of Tests:	Jan. 17, 2025			

Note

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

The report contains the C2PC test results for the addition of battery models KNB-L13 and KNB-L12

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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	6 W(±0.2W)
Bluetooth / LE	2 402 MHz ~ 2480 MHz	2.5 mW

4.2 Output Average Conducted Power

4.2.1 VHF Conducted Power

Model	Frequency (MHz)	Channel	Power (dBm)
	150.05	1	37.56
NV 5200 K2	158.00	2	37.53
NX-5200-K3	166.00	3	37.45
	173.95	4	37.50
NX-5200-K2	150.05	1	37.56
	158.00	2	37.51
	166.00	3	37.40
	173.95	4	37.42

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.

Fhigh= 174 MHz

 $F_c = 162 \text{ MHz}$

 F_{Low} = 150 MHz

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

Therefore, for the frequency band from 150 MHz to 174 MHz, 4 channels 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	Maximum Allowed Power	Separation Distance	≤ 3.0 for 1g SAR
	[MHz]	[mW]	[mm]	
Bluetooth	2 480	2.5	5	0.8

Based on the maximum conducted power of Bluetooth and antenna to use separation distance, Bluetooth SAR was not required $[(2.5/5)^*\sqrt{2.480}] = 0.8 < 3.0$.

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 ≤ 1.6 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	Maximum	Separation Distance	Estimated 1g SAR
		Allowed Power	(Head)	(Head)
	[MHz]	[mW]	[mm]	[W/kg]
Bluetooth	2 480	2.5	25	0.021

Mode	Frequency	Maximum Allowed Power	Separation Distance (Body)	Estimated 1g SAR (Body)
	[MHz]	[mW]	[mm]	[W/kg]
Bluetooth	2 480	2.5	5	0.105

Note

Held-to ear configurations are not applicable to Bluetooth operations and therefore were not considered for simultaneous transmission. The Estimated SAR results were determined according to FCC KDB447498 D01v06.

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5. Manufacturer's Accessory List

Part Nol.	Description	Accessory Type	Accessory
KRA-26(M)	VHF Herilal Antenna(146-162MHz)	- 7,6 -	1
KRA-26(M2)	VHF Herilal Antenna (162-174MHz)		2
KRA-26(M3)	VHF Herilal Antenna(136-150MHz)		3
KRA-22(M)	VHF low-profile helicalantenna(146-162MHz)		4
KRA-22(M2)	VHF low-profile helicalantenna(162-174MHz)		5
KRA-22(M3)	VHF low-profile helicalantenna(136-150MHz)	Antenna	6
KRA-41(M)	VHF stubbyantenna(146-162MHz)		7
KRA-41(M2)	VHF stubbyantenna (162-174MHz)		8
KRA-41(M3)	VHF stubbyantenna (136-150MHz)		9
KRA-25	High gain VHF helically loaded whip antenna 148-162MHz		10
KRA-28	Broad-band VHF helically loaded whip antenna 140-170MHz		11
KNB-L1	2000 mAh Li-ion Intelligent Battery(S)		1
KNB-L2	2600 mAh Li-ion Intelligent Battery(M)		2
KNB-L3	3400 mAh Li-ion Intelligent Battery(L)		3
KNB-LS7	3800 mAh Li-ion Intelligent Battery	Battery	4
KNB-L11	3900 mAh Li-ion Intelligent Battery	Dattery	5
KNB-L11	3000mAh Li-ion Battery		6
KNB-L12	4000mAh Li-ion Battery		7
			-
KBH-11	Spring action belt clip (2.5")		1
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment		2
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back		3
KLH-137ST	Firemen's heavy-Duty Leather Shoulder Strap for a heavy-Duty		4
	Leather Case	Carrying	_
KLH-201(K3)	Nylon Case_Cordura Nylon	Accessories	5
KLH-37BT	Universal "48" Leather Belt		6
KLH-38ST	Shoulder Strap		7
KLH-3SW	Swivel Belt Loop		8
KLH-202(P/P2)	Leather Case (Standard/Full key)		9
KLH-200(K2/K3)	Leather Case (Standard/Full key)		10
KMC-25	MIL-SPEC, Noise canceling Speaker Mic		1
KMC-41	MIL-SPEC, IP54/55 Noise- canceling Speaker Mic		2
KMC-41D	MIL-SPEC, IP54/55 Noise- canceling Speaker Mic		3
KMC-42W	MIL-SPEC, IP67 (immersion) Noise-canceling Speaker Mic		4
KMC-42WD	MIL-SPEC, IP67 (immersion) Noise-canceling Speaker Mic		5
KMC-47GPS	GPS Speaker Microphone		6
KMC-47GPSD	GPS Speaker Microphone		7
KMC-54WD	Speaker Microphone		8
KMC-49	MIL-SPEC, Speaker Mic. With Antenna Connector		9
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics		10
KEP-2	2.5mm earphone kit for KMC-17/45 Speaker Mic		11
KEP-3	30"Earphone kit w / 2.5mm plug for KCT-30	Microphones	
KEP-4	48"Earphone kit w / 2.5mm pluf for KCT-30	& Audio	13
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4	Accessories	14
KCT-51	Hirose 6-pin Adapter(adapts KVL/aftermarket audio acc.to portable		15
KHS-12BE	connector) 3-wire mini lapel Mic w/earphone, universal connector(Beige)		16
KHS-12BL	3-wire mini lapel Mic w/earphone, universal connector(Black)		17
KHS-11BE KHS-11BL	2-wire palm Mic w/earphone, universal connector(Beige)		18 19
	2-wire palm Mic w/earphone, universal connector(Black) Lt. Wt. Single muff headset w/boom Mic & in-line PTT		20
KHS-14			∠∪
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom Mic & in-line PTT		21
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom Mic & in-line PTT		22

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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-LS7	3800mAh Li-ion Battery	WHD 58 x 116.4 x 26.9
KNB-L11	3900mAh Li-ion Battery	WHD 58 x 116.4 x 27.9
KNB-L12	3000mAh Li-ion Battery	WHD 58 x 116.4 x 19.4
KNB-L13	4000mAh Li-ion Battery	WHD 58 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.

The additional battery KNB-L13 was tested in Hand -held to Face because it is the Highest capacity. The body worn tests for additional batteries KNB-L12 and KNB-L13 were performed in the worst case of the original report[Report No: HCT-A-1410-F003-1].

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* Radio Face Test (Hand-held to Face)

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

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* Radio Body Test (Body-Worn)

Mircophones & Audio				Battery			
Accessory	1	2	3	4	5	6	7
1	No	No	No	No	No	No	No
2	No	No	No	No	No	No	No
3	No	No	No	No	No	No	No
4	No	No	No	No	No	No	No
5	No	No	No	No	No	No	No
6	No	No	No	No	No	No	No
7	No	No	No	No	No	No	No
8	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	No	No	No	No	No	No	No
10	No	No	No	No	No	No	No
11	No	No	No	No	No	No	No
12	No	No	No	No	No	No	No
13	No	No	No	No	No	No	No
14	No	No	No	No	No	No	No
15	No	No	No	No	No	No	No
16	No	No	No	No	No	No	No
17	No	No	No	No	No	No	No
18	No	No	No	No	No	No	No
19	No	No	No	No	No	No	No
20	No	No	No	No	No	No	No
21	No	No	No	No	No	No	No
22	No	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.

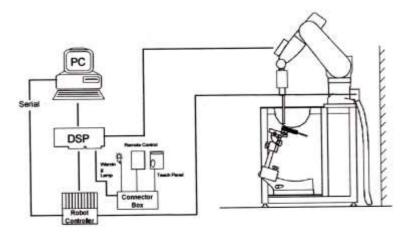


Figure 2. HCT SAR Lab. Test Measurement Set-up

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 2.0 ± 0.2 mm approx. 30 liters Major axis: 600 mm, Minor axis: 400 mm

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 Mz 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	4	150	835	90	10	
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} (%)	8,0	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	4	13,5	41,5	41,5		
σ (S/m)	0,75	0,	75	0,	76	(),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}	the measurement pl than the above, the r	
Maximum zoom scan S Δy zoom	Spatial re	esolution: Δx _{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	≤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.

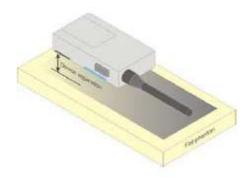
In all cases SAR measurements are performed to investigate the worst-case positioning. Worst case positioning is then documented and used to perform Body SAR testing.

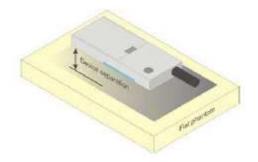
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9.2 Hand-held to Face device

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)	Temp. Type (Mb)		Measured Conductivity σ (S/m)	Conductivity Dielectric		Target Dielectric Constant, ε	% dev σ	% dev ε					
			100	0.725	55.500	0.756	54.630	-4.10	1.59					
01/17/2025	19.9	150H	150	0.771	52.300	0.760	52.300	1.45	0.00					
			200	0.820	49.800	0.797	49.970	2.89	-0.34					

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	01/17/2025	7655	4014	Head	20.0	19.9	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 (with NX-5200-K3)

	VHF Hand-held to Face SAR												
Frequency (MHz)	Ch.	Tune-Up Limit (dBm)	Measured Power (dBm)	Power Drift (dB)	Battery	Antenna	Separation Distance (mm)	Measured SAR (W/Kg)	50% Duty	Reported SAR (W/Kg)	Plot No.		
150.05	1	37.92	37.56	-0.01	KNB-L13	KRA-22M	25	1.12	0.560	0.610	-		
173.95	4	37.92	37.50	-0.1	KNB-L13	KRA-22M2	25	1.36	0.680	0.766	-		
150.05	1	37.92	37.56	0.38	KNB-L13	KRA-26M	25	1.88	0.940	0.936	-		
173.95	4	37.92	37.50	-0.76	KNB-L13	KRA-26M2	25	2.19	1.095	1.437	1		
150.05	1	37.92	37.56	-0.07	KNB-L13	KRA-41M	25	0.618	0.309	0.341	-		
173.95	4	37.92	37.5	-0.73	KNB-L13	KRA-41M2	25	0.358	0.179	0.233	-		
150.05	1	37.92	37.56	-0.03	KNB-L13	KRA-25	25	1.49	0.745	0.815	-		
150.05	1	37.92	37.56	0.01	KNB-L13	KRA-28	25	0.718	0.359	0.389	-		
173.95	4	37.92	37.5	-0.69	KNB-L12	KRA-26M2	25	1.44	0.72	0.930	-		
173.95	4	37.92	37.5	0.01	KNB-L13	KRA-26M2	25	1.84	0.92	1.011	#		
		ANSI/ IEEE	Head										
			8 W/kg										
		Controlle	d Exposure	e/ Occupat	ional			Averaged	over 1 gı	ram			

Note: NX-5200-K2

12.2 Body-worn Belt clip SAR Results (with NX-5200-K3)

					elt 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	1	37.92	37.56	0.35	KNB-L12	KRA-26M	KBH-11	0	6.56	3.280	3.29	-
150.05	1	37.92	37.56	0.35	KNB-L13	KRA-26M	KBH-11	0	6.65	3.325	3.33	-
150.05	1	37.92	37.56	0.02	KNB-L12	KRA-25	KBH-11	0	7.77	3.885	4.20	2
150.05	1	37.92	37.56	0.31	KNB-L13	KRA-25	KBH-11	0	6.66	3.330	3.37	-
150.05	1	37.92	37.56	-0.01	KNB-L12	KRA-25	KBH-11	0	7.01	3.505	3.82	#
		ANSI/	IEEE C95.		E	Body						
			Spa		8	W/kg						
		Conti	olled Exp	osure/ (Occupationa	l			Averaged	l over 1 gr	am	

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Note: Speaker Microphone (KMC-54WD)

Note: NX-5200-K2 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 \leq 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-A-1410-F003-1].

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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 $\leq 8W/kg$ for 1g SAR and $\leq 20~W/kg$ 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 Body-Worn Belt clip SAR Simultaneous Transmission Analysis

Simultaneous Transmission Summation Scenario						
Band		Main SAR	Estimated Bluetooth/LE	Σ 1-g SAR		
		(W/kg)	(W/kg)	(W/kg)		
		1	2	1+2		
VHF	Hand-held to Face	1.437	0.021	1.458		
VHF	Body-Worn Belt clip	4.20	0.105	4.305		

Note: Bluetooth SAR was not required to be measured per FCC KDB 447498 D01v06. Estimated SAR results were used for SAR summation for body-worn back side at 5 mm to determine simultaneous transmission SAR test exclusion.

The simultaneous transmission summation is applied only for body-worn case according to user condition. Bluetooth transmission is using for Bluetooth headset when DUT is on the body-worn case.

13.2 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

a	b	C	d Doob ab Who	e	f	g	h = cxf/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	00
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	00
Detection limits	7.2.2.5	1.00	R	1.73	1	1	0.58	0.58	∞
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	00
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 phantom 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	8
Uncertainty in SAR correction for deviations in permittivity and conductivity	7.2.4.3	1.90	Ν	1	1	0.84	1.90	1.60	8
Liquid conductivity (temperature uncertainty)	7.2.4.4	0.25	R	1.73	0.78	0.71	0.11	0.10	80
iquid conductivity (measured)	7.2.4.3	1.51	N	1	0.78	0.71	1.18	1.07	∞
Liquid permittivity (temperature uncertainty)	7.2.4.4	0.52	R	1.73	0.23	0.26	0.07	0.08	80
Liquid permittivity (measured)	7.2.4.3	1.17	N	1	0.23	0.26	0.27	0.30	00
Combined standard uncertainty			RSS				13.41	13.36	∞
Expanded uncertainty			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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- [25] SAR Measurement Guidance for IEEE 802.11 transmitters, KDB 248227 D01v02r02
- [26] SAR Evaluation of Handsets with Multiple Transmitters and Antennas KDB 648474 D03, D04.
- [27] SAR Evaluation for Laptop, Notebook, Netbook and Tablet computers KDB 616217 D04.
- [28] SAR Measurement and Reporting Requirements for 100 MHz 6 GHz, KDB 865664 D01, D02.
- [29] FCC General RF Exposure Guidance and SAR procedures for Dongles, KDB 447498 D01,D02.

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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-FC005-P

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Appendix B. – SAR Test Plots

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Test Laboratory: HCT CO., LTD Liquid Temperature: 19.9 °C Ambient Temperature: 20.0 °C Test Date: 01/17/2025

Plot No.:

Measurement Report for Device, FRONT, Custom Band, CW, Channel 174000 (174.000 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	174.000, 174000	12.35	0.795	51.1

Hardware Setup

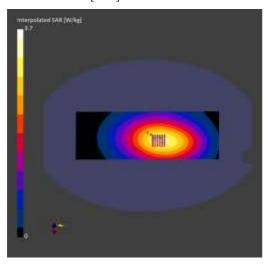
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V6.0 (20deg probe tilt) - xxxx	EX3DV4 - SN7655, 2024-05-28	DAE4 Sn1686, 2024-06-19

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	$6.0 \times 6.0 \times 1.5$
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.10	2.19
psSAR10g [W/Kg]	1.62	1.53
Power Drift [dB]	0.30	-0.76
M2/M1 [%]		80.8
Dist 3dB Peak [mm]		19.4



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Test Laboratory: HCT CO., LTD Liquid Temperature: $19.9\,^{\circ}\text{C}$ Ambient Temperature: $20.0\,^{\circ}\text{C}$ Test Date: 01/17/2025

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	0.771	52.3

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

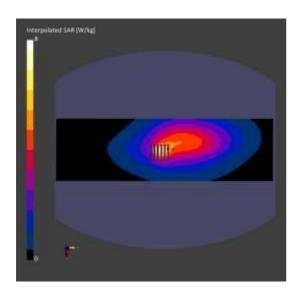
Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 420.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Concor Curfaco [mm]	2.0	1 /

Sensor Surface [mm] 3.0 1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	6.44	7.77
psSAR10g [W/Kg]	4.46	4.14
Power Drift [dB]	0.36	0.02
M2/M1 [%]		51.9
Dist 3dB Peak [mm]		6.6



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Appendix C. – Dipole Verification Plots

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■ Verification Data (150 MHz Head)

Test Laboratory: HCT CO., LTD Input Power 50 mW Liquid Temp: 19.9 °C Test Date: 01/17/2025

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

Exposure Conditions

Exposure con	110113						
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	,		CW, 0	150.000, 0	12.35	0.771	52.3
Hardware Setu	ıp						
Phantom			Probe	, Calibration Dat	te I	DAE, Calibration	Date
ELI V6.0 (20de	g probe tilt) - :	XXXX	EX3D\	/4 - SN7655, 202	4-05-28	DAE4 Sn1686, 20	24-06-19
Scans Setup							

Scans Setup

 Area Scan
 Zoom Scan

 40.0 x 90.0
 30.0 x 30.0 x 30.0

 10.0 x 15.0
 6.0 x 6.0 x 1.5

1.4

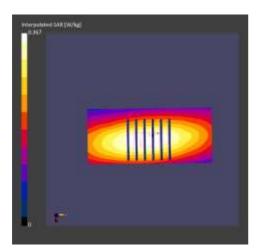
Sensor Surface [mm] 3.0

Measurement Results

Grid Extents [mm]

Grid Steps [mm]

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.189	0.189
psSAR10g [W/Kg]	0.136	0.122
Power Drift [dB]	-0.01	-0.01
Dist 3dB Peak [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 (Mtz)
(% by weight)	150 (MHz)
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.

SAR							Dielectric	Parameters	CW	/Validation		Modula	tion Valid	lation
System No.	Probe	Probe Type		ration oint	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

IRAC-MRA



Schweizerischer Kalibrierdienst Service suisse d'étalonnage

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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

Client

HCT

Gyeonggi-do, Republic of Korea

Certificate No.

EX-7655_May24

CALIBRATION C	ERTIFICATE	· 전	and.	4
Object	EX3DV4 - SN:7655	74 74/75 11 7	SW 4494 2-24/0605	2024 106.05
Calibration procedure(s)	QA CAL-01.v10, QA CAL- QA CAL-25.v8 Calibration procedure for o			L-23.v6,
Calibration date	May 28, 2024			
	cuments the traceability to national stand uncertainties with confidence probability			
All calibrations have been co	nducted in the closed laboratory facility:	environment tempera	sture (22 ± 3) °C and h	umidity < 70%.
Calibration Equipment used	Market address for an University			

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 Service suisse o etaionnage 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 NORMx,y,z sensitivity in free space ConvF sensitivity in TSL / NORMx,y,z DCP diode compression point

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

Polarization w w rotation around probe axis

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

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 θ = 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; VRx,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	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	9	149.0	8	
		Z	0.00	0.00	1.00		150.0		
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%
		Y	46.00	80.00	11.00		80.0		
		Z	0.81	60.00	5.46	4	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%
19999	() (ACRE - 17 AS MONTH OF THE CONTRACTOR (Y	10.49	157.44	14.13	0.500000	120.0	CONTRACTOR OF THE PARTY OF THE	E SPECIAL
		Z	11.11	154.69	15.41		120.0		155 5100
10387	OPSK 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 DE 1987	150.0	S-010	===000000
		Z	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		
		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%
11.1-10-11	contraction fraction and contraction (CC)	Y	3.81	85.73	15.12	1.000000000	150.0		
		7	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.

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EX3DV4 - SN:7655 May 28, 2024

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

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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.

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EX3DV4 - SN:7655 May 28, 2024

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	±13.1%
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	±13.1%
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.

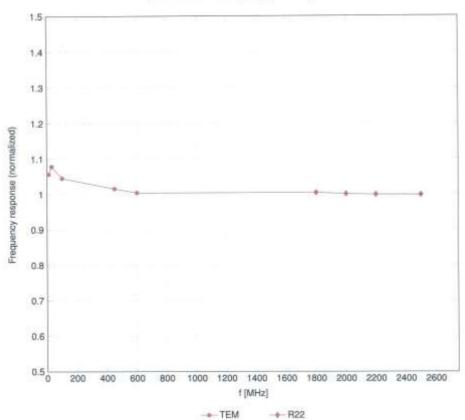
H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-CornF. Therefore, The uncertainty stated is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.



EX3DV4 - SN:7655 May 28, 2024

Frequency Response of E-Field

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



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

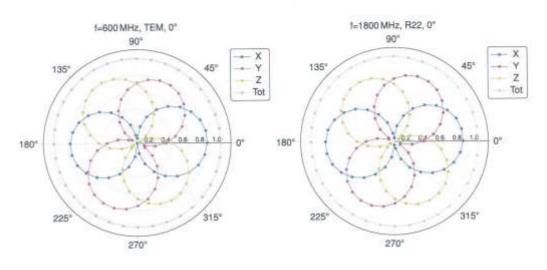
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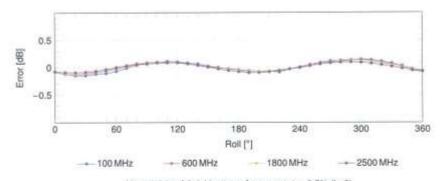
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May 28, 2024

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





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

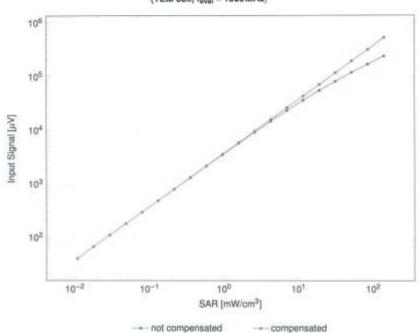
Certificate No: EX-7655_May24

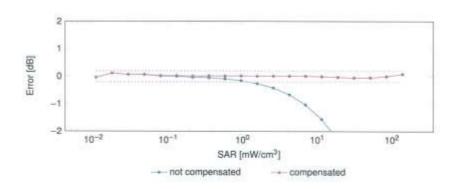
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EX3DV4 - SN:7655 May 28, 2024

Dynamic Range f(SAR_{head}) (TEM cell, f_{aval} = 1900 MHz)





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

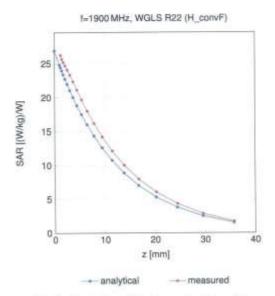
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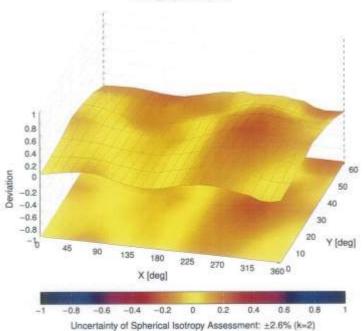
EX3DV4 - SN:7655 May 28, 2024

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ) , f = 900 MHz



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Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc [®] $k=2$
0	222	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 WIFI 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	19.6
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 Bluetoath (GFSK, DH1)	Bluetpoth	5.30	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
10032	CAA	IEEE 802 15.1 Bluetooth (GFSK, DH5)	Bluetooth	1,16	±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PV4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10034	GAA	IEEE 802.15.1 Bluetooth (Pl/4-DQPSK, DH3)	Blueloath	4.53	±9.6
	CAA	IEEE 802.15.1 Bluetooth (PV4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
	4	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	19.6
10037	CAA		Bluetooth	4.10	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	CDMA2000	4.10	19.6
10039	CAB	CDMA2000 (1xRTT, RC1)	AMPS	7.78	±9.6
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	177777	-	
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	29.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Stot, 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, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	19.6
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
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 WiFi 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 Mbgs)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	19.5
10075	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
10076	CAB	IEEE 802.11g WFI 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	19.6
10077	CAS	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PV4-DQPSK, Fullrate)	AMPS	4.77	±9.5
10090	DAG	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	19.6
10090	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
10098	CAC	and and the possessed discovering the control of th	TO SECURITY.		
10098	DAC	UMTS-FDD (HSUPA, Subtest 2) EDGE-FDD (TDMA, 8PSK, TN 0-4)	WCDMA	3.98	±9.6
10100	CAF	The state of the s	GSM	9.55	19.6
		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-FDD	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-FOD	6.44	±9.6

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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, 5MHz, 64-QAM)	LTE-FDD	6.62	±9.6
0114	CAE	IEEE 802.11n (HT Greenfield, 13.5Mbps, BPSK)	WLAN	8.10	±9.6
1115	CAE	IEEE 802.11n (HT Greenfield, 81 Mbps. 16-QAM)	WLAN	8.46	±9.0
1116	CAE	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8,15	±9.6
1117	CAE	(EEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
0118	CAE	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6
0119	CAE	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6
0140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
0141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
1142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3MHz, QPSK)	LTE-FOO	5.73	±9.6
1143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDO	6.35	±9.6
1144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3MHz, 64-QAM)	LTE-FD0	6.65	£9.6
1145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FOD	5.76	±9.6
1146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
1147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	£9.6
149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FOD	6.42	±9.6
150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
1151	CAH	LTE-TOD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TOD	9.28	±9.6
152	CAH	LTE-TOD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TOD	9.92	±9.6
1153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
1154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 15-QAM)	LTE-FDD	6.43	±9.6
156	CAH	LTE-FDD (SC-FDMA, 50% RB, TWINZ, 16-GRM)	LTE-FDD	5.79	±9.6
	CAH	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)	LTE-FDD	6.49	±9.6
1157		LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
158	CAH	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 64-QAM)	LTE-FDD	6.56	±9.6
Acres Colonia	CAF	LTE-FDD (SC-FDMA, 50% RB, 15MHz, QPSK)	LTE-FD0	5.82	±9.6
160		LTE-FDD (SC-FDMA, 50% RB, 15MHz, 16-QAM)	LTE-FDD	6.43	±9.6
161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)	LTE-FDD	6.58	±9.6
162	CAF		LTE-FDO	5.46	±9.6
1166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FOD	6.21	19.6
1187	CAG		LTE-FOD	6.79	19.6
168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FOD	5.73	±9.6
169	CAF	LTE-FOD (SC FDMA, 1 RB, 20 MHz, QPSK)	LTE-FOD	8.52	19.6
3170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FOD	6.49	±9.6
0171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20MHz, 64-QAM)	LTE-TOD	9.21	±9.6
0172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20MHz, QPSK)	LTE-TOD	9.48	±9.6
0173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)		10.25	±9.6
0174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TOO	5.72	±9.6
0175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FOD	19,51,65	
1176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FOO	6.52	#9.6
1177	CAJ	LTE-FDD (SC-FDMA, 1 R8, 5MHz, QPSK)	LTE-FDD	5.73	±9.6
0178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-FDD	6.52	±9.6
179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-F00	8.50	±9.6
180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-FOO	6.50	±9.6
0181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-F00	5.72	±9.6
182	CAF	LTE-FD0 (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-FDD	6.52	49.6
0183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FD0	6.50	±9.6
184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
0185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	8.51	±9.6
0186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 84-GAM)	LTE-FDD	6.50	±9.6
0187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-F00	5.73	±9.6
0188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.€
0189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FD0	6.50	±9.6
193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
1194	CAE	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	49.6
195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	19.6
1196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
197	CAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6
0198	CAE	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6
0219	CAE	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.0
0220	ÇAE	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8,13	±9.6
0221	CAE	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6
0222	CAE	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
0223	CAE	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6
0224	CAE	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6

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0225	CAC	UMTS-F00 (HSPA+)	WCDMA.	5.97	±9.6
0226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, 16-QAM)	LTE-TDD	9,49	±9.6
0227	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, 3MHz, 16-QAM)	LTE-TOO	9.48	±9.6
0230	CAE	LTE-TDO (SC-FDMA, 1 RB, 3MHz, 64-QAM)	LTE-TDD	10.25	±9.6
0231	CAE	LTE-TDO (SC-FDMA, 1 RB, 3MHz, 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-TOD	10.25	±9.6
0234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TOD	9.21	±9.6
0235	CAH	LTE-TOD (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 R8, 15MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0239	CAG	LTE-TDD (SC-FDMA, 1 R8, 15MHz, 64-QAM)	LTE-TOD	10.25	±9.6
0240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	19.5
0241	CAC	LTE-TDD (SC-FDMA, 50% R8, 1.4 MHz, 16-QAM)	LTE-TD0	9.82	±9.6
0242	GAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TOO	9.86	±9.6
0243	CAC	LTE-TOD (SC-FDMA, 50% RB, 1.4MHz, 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-TDD (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, 5MHz, 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
0252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
0253	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, 64-QAM)	LTE-TOD	10/14	19.6
0255	CAG	LTE-TOD (SC-FDMA, 50% RB, 15MHz, QPSK)	LTE-TDD	9.20	±9.6
0256	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-TD0	10.08	±9.6
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1,4MHz, QPSK)	LTE-TOD	9.34	±9.5
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, 3MHz, QPSK)	LTE-TOO	9.24	±9.6
10262	CAH	LTE-TDD (SC-F0MA, 100% RB, 5MHz, 16-QAM)	LTE-TOO	9.83	±9.6
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, 10 MHz, 16-QAM)	LTE-TOO	9.92	19.6
10266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDO	10.07	±9.6
10267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDO	9.30	19.8
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TD0	10.06	±9.6
10.569	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TOO	10.13	±9.6
10270	hall described over the	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	±9.5
10274	-	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6
10275	and all the control for the	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
0277		PHS (QPSK)	PHS	11.81	±9.6
10278	and the second	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
0279		PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.6
10290		CDMA2000, RC1, SOS5, Full Rate	CDMA2000	3.91	±9.6
10291		CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
0292	to the best of the first	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
0293		CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
0295	CONTRACTOR AND ADDRESS OF THE PARTY NAMED IN CONTRACTOR AND ADDRES	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
0297	-	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5,81	±9.6
0298	-	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6
0299	2 1.2-Y.C.	LTE-FDD (SC-FDMA, 50% RB, 3MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300	term and the second	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10301	_	IEEE 802.16e WMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WIMAX	12.03	±9.6
10302	_	IEEE 802 16e WIMAX (29:18, 5ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.57	±9.6
10303	-	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WIMAX	12.52	±9.6
10304	salaharan kerju	IEEE 802.16e WIMAX (29:18, 5ms, 10 MHz, 64QAM, PUSC)	WMAX	11.86	±9.6
10:305	_	IEEE 802.16e WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WIMAX	15.24	±9.6
10306	AAA	IEEE 802.16e WIMAX (29:18, 10 ms. 10 MHz, 64QAM, PUSC, 18 symbols)	WiMAX	14.67	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unch 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	19.6
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
0318	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	19.6
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	AAA,	64-QAM Waveform, 100 kHz	Generic	6.27	±9.0
0399	AAA,	64-QAM Waveform, 40 MHz	Generic	6.27	19.0
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	±9.6
0404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.
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	±9.
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.
0425	AAD		WLAN	8.45	±9.
	Acceptable to the second	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-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDO	8.28	±9.
0430	AAE	The state of the s	and the later property of the	-	_
0431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDO	6.38	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	19.
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-TDD (SC-FDMA, 1 RB, 3MHz, QPSK, UL Subframe:2.3.4.7.8.9)	LTE-TOD	7.82	±9.
	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD		±9.
0466	Access to the last		direction development and the contract of the	8.32	-
	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:
0469	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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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-TDD	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-TDD	7.70	±9.6
0.489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
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
0490	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=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
T-1-11	AAF	LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TOD	8.55	±9.6
0493	1000	LTE-TDD (SC-FOMA, 50% RB, 20 MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TOD	7.74	±9.6
0494	AAG	LTE-TDD (SC-FOMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.37	±9.6
0495	AAG		LTE-TDD	8.54	±9.6
0496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	A STATE OF THE PARTY OF THE PAR	7.67	±9.6
10497	AAC	LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2.3,4,7,8,9)	LTE-TDD		_
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 15-QAM, UL Subframe=2,3,4,7,8,9)	LYE-YOO	8.40	19.6
0.499	AAC	LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TOD	8.68	±9.6
0500	CAA	LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK, UL Subframe+2,3,4,7,8,9)	LTE-TD0	7,67	19.6
10501	AAD	LTE-TOD (SC-FDMA, 100% RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	B:44	±9.6
0502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TD0	8.52	19.6
10503	AAG.	LTE-TOD (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-F0MA, 100% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.31	±9.6
10505	AAG.	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.54	±9.6
10508	AAG	LTE-TDD (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 Subframe=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, 15MHz, 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
-	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
10511			LTE-TOO	7.74	±9.6
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOO	8.42	±9.6
10513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2.3.4.7.8,9)	Control of the Contro		
10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10516	AAA	IEEE 802.11b WiFt 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
10517	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 98pc duty cycle)	WLAN	1,58	±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 WiFl 5 GHz (OFOM, 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 WIFI 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
10524	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9.6
10525	no billion from the Peri	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
and the second distribution of			WLAN	8.36	±9.6
10528	CONTRACTOR AND ADMINISTRATION OF THE PARTY AND ADMINISTRATION		WLAN	8.36	±9.6
10529	_	The state of the s	1,52,000,001	150000	
10531	AAD	The state of the s	WLAN	8.43	±9.6
10532		The state of the s	WLAN	8.29	±9.6
10533	independent to the Au-	The state of the s	WLAN	8.38	±9.6
10534	The second second		WLAN	8.45	±9.6
10535	AAD	IEEE 802.11ec WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.€
10536	AAD	IEEE 802.11ac WIFI (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.€
10537	AAD	IEEE 802.11ac WIFI (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
10538	manufacture of the latest section of the lat	A second	WLAN	8.54	±9.6
	- F	IEEE 802.11ac WIFI (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.39	±9.6

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10541	AAD	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6
0542	AAD	IEEE 802.11ac WFi (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
0544	CAA	IEEE 802.11ac WFI (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
0546	AAD	IEEE 802 11ac WIFI (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
0547	AAD	IEEE 802.11ac WIFI (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6
0548	AAD	IEEE 802.11ac WiFi (80 MHz, MCS4, 95pc duty cycle)	WLAN	8.37	±9.6
0550	AAD	IEEE 802.11ac WIFI (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	19.6
10551	AAD	IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6
0552	AAD	IEEE 802.11ac WIFI (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	19.6
0553	AAD	IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
0554	AAE	IEEE 802.11ac WiFI (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	19.6
0888	AAE	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
0556	AAE	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
0557	AAE	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.6
0558	AAE	IEEE 802,11ac WiFI (160 MHz, MC54, 99pc duty cycle)	WLAN	8.61	19.6
-	And the second lines		WLAN	8.73	19.6
0560	AAE	IEEE 802.11ac WIFI (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.56	±9.6
0561	AAE	IEEE 802-11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.69	±9.6
0.582	AAE	IEEE 802.11ac WIFI (150 MHz, MCS8, 99pc duty cycle)	WLAN	8.77	±9.6
0563	AAE	IEEE 802.11ac WIFI (180 MHz, MCS9, 99pc duty cycle)	WLAN	8.25	±9.6
0564	AAA	IEEE 802 11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	-	8.45	
0565	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	A 100 A	±9.fi
0566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
0567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 89pc duty cycle)	WLAN	8.00	±9.6
0568	дда	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
0569	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
0570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
0571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	3,9.6
0572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.0
0573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1,98	±9,€
0574	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
0575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
0576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	19.6
0577	AAA	IEEE 802.11g WFI 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-OFDM, 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
0583	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 882.11a/h WiFl 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	49.6
10586	AAD	IEEE 802.11a/h WIFI 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
0588	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps; 90pc duty cycle)	WLAN	8.76	±9.€
0.589	AAD	IEEE 802,11a/h WIFI 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
0590	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
0591	AAD:	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	19.6
0592	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	19.6
0593	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.4
10594	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
0595	AAD	IEEE 802.11n (HT Mixed; 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
0596	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
0597	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6
0598	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
0599	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
0600	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	19.6
0601	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	19.6
0602	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	19.5
10603	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
0604	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCSS, 90pc duty cycle)	WLAN	8.76	19.6
10605	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.97	19.6
10606	AAD	IEEE 802,11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	194
10607	AAD	IEEE 802.11ac WIFI (20 MHz, MCSO, 90pc duty cycle)	WLAN	8.64	19.5
	AAD	IEEE 802.11ac WIFI (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.77	19.6

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UID	Rev	Communication System Name	Group	PAR (dB)	UncE & = 2
0609	AAD	IEEE 802,11ac WIFI (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
0610	AAD	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
0611	AAD	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
0612	AAD	IEEE 802.11ac WIFI (20MHz, MCSS, 90pc duty cycle)	WLAN	8.77	±9.6
0613	AAD	IEEE 802.11ac WIFI (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.94	±9.5
0614	AAD	IEEE 802 11ac WIFI (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6
0615	AAD	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
0616	AAD	IEEE 802 11ac WIFI (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
0617	AAD	IEEE 802 11ac WIFI (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
0618	AAD	IEEE 802 11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
0619	AAD	IEEE 802.11ac WIFI (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
0620	AAD	IEEE 802.11ac WiFI (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
0621	AAD	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
0623	AAD	IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
0624	AAD	IEEE 802.11ac WIFI (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6
0625	CAA	IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6
0626	AAD	IEEE 802.11ac WIFI (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
0627	AAD	IEEE 802.11ac WIFI (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
0628	AAD	IEEE 802.11ac WIFI (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9.6
0629	AAD	IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle)	WI,AN	8.85	±9.6
0630	AAD	IEEE 802:11ac WIFI (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
0631	AAD	IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6
0832	AAD	IEEE 802.11ac WIFI (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
0633	AAD	IEEE 802.11ac WIFI (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6
0834	CAA	IEEE 802.11ac WFI (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6
0635	AAD	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6
0636	AAE	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
0838	AAE	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.5
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	9.08	±9.6
10643	AAE	IEEE 802.11ac WIFI (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAE	IEEE 802.11ac WIFI (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAE	IEEE 802-11ac WIFI (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDO	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TD0	11.96	±9.6
10648	AAA,	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TOD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	6.91	±9.6
10653	AAF	LTE-TDD (OFDMA, 10MHz, E-TM 3.1, Clipping 44%)	LTE-TDO	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15MHz, E-TM 3.1, Clipping 44%)	LTE-TDO	6.96	±9.6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TOO	7.21	±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	29.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	19.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	#9.6
0671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	19.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	19.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	19.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
0.675	AAC	IEEE 802.11ax (20 MHz, MCS4, 80pc duty cycle)	WLAN	8.90	±9.6
0676	districtions	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
0677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	19.6
0678	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
0680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	9.83	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	19.6
10684	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	±9.6
10686	AAC	IEEE 802:11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6

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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	19.6
0691	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
0.692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
0693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
0694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6
CARDON COLORS	Exercise Company		WLAN	8.78	±9.6
0695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.91	±9.6
0696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)		8.61	±9.6
10697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	14.000	
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)	WŁAN	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.€
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
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	π9.6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.56	±9.6
10709	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 802.11ax (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		WLAN	8.26	±9.6
named to be before	The second second	IEEE 802,11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.45	
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	(550H 6-0)		±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8,30	±9.6
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 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	791
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	19.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 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	19.6
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
10728	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	19.6
10730	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	the state of the s	1,150,000,000		
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN WLAN	8.46	19.6
10734	AAC	- Control of the Cont		8.40	19.6
arise in the first section is	440000000000000000000000000000000000000	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.25	3.9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	19.6
10736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	±9.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	19.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN:	8.42	±9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 98pc duty cycle)	WLAN	8.29	19.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.8
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	19.6
10744	AAC	IEEE 802,11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6
10745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	±9.6
10746	AAC	IEEE 802.11ax (160 MHz. MCS3, 90pc duty cycle)	WLAN	9.11	±9.6
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	19.6
10748	AAC	IEEE 802,11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	8.93	19.6
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	19.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6
- 45 T W/W	_	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN -	8.82	±9.6
10751	AAC				

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10753	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WEAN 9.0	10	±9.6
0.754	AAC	IEEE 802.11ax (160 MHz. MCS11, 90pc duty cycle)	WLAN 8.5	14	±9.6
0.785	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN 8.6	54	±9.6
0756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN 8.7	7:	±9.6
0757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN 8.7	77	±9.6
0758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN 8.6	39	19.6
0759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WEAN 8.5	38:	±9.6
0760	AAC	IEEE 802 11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN 83	19	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN 8.5	56	±9.6
10762	AAC	IEEE 802 11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN 8.	49	±9.6
0.763	AAC	IEEE 802 11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN 8.5	53	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN 8.	54	±9.6
10766	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN 8.	54	±9.6
10766	AAC	IEEE 802 11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN 8:	51	±9.6
0767	AAG	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 T00 7.5	99	±9.6
10768	AAE	SG.NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD 8	31	19.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TOD 8.0		±9.6
10770	AAE	5G NR (CP OFDM, 1 RB, 20MHz, QPSK, 15kHz)	5G NR FR1 TDD 8.		19.6
10771	AAD	5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 15kHz)		02	19.6
10772	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD 8.	_	±9.6
10773	AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD 8:		19.6
10774	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)		02	±9.6
10775	AAF	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)		31	±9.6
10.776	AAE	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)		30	±9.6
10777	AAC	5G NR (CP-OFOM, 50% RB, 15 MHz, QPSK, 15 kHz)		30	±9.6
10778	AAE	5G NR (CP-OFOM, 50% RB, 20 MHz, QPSK, 15 kHz)		34	±9.6
10779	AAC	5G NR (CP-OFOM, 50% RB, 25 MHz, QPSK, 15 kHz)		42	±9.6
10780	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	A CARDON AND THE RESIDENCE OF THE PARTY OF T	38	±9.6
10781	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	100000000000000000000000000000000000000	38	±9.6
10782	AAE	5G NR (CP-OFOM, 50% RB, 50 MHz, QPSK, 15 kHz)		43	19.6
10783	AAG	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)		31	±9.6
10784	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15kHz)	The second secon	29	±9.6
10785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	100000000000000000000000000000000000000	40	±9.6
10786	AAE	56 NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	35	19.6
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)		44	±9.6
10788	AAE	50 NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15kHz)		39	19.6
10789	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)		37	±9.6
10790	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)		39	±9.6
10791	AAG	5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 30 kHz)		83	±9.6
10792	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)		92	±9.6
10793	AAD	5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 30kHz)	A Description of the Control of the	95	±9.6
10794	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)		82	±9.8
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	The state of the s	84	±9.6
10796	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	The state of the s	82	±9.6
10797	AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)		01	±9.6
10798	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)		89	±9.6
10799	AAF	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	A CONTRACTOR OF THE PROPERTY O	93	±9.6
10801	AAF	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)		89	±9.6
10802	AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)		87	±9.5
10803	AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)		93	±9.6
10805	AAE	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	A STATE OF THE PARTY OF THE PAR	34	±9.6
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)		37	±9.6
10809	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	The second secon	34	±9.6
10810	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)		34	±9.6
10812	AAF	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)		35	±9.6
10817	and the production is	The state of the contract of the state of th		35	19.6
10818	-	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 KHz)	The state of the s	34	19.6
10819	to the party of the party.	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 30kHz)		33	±9.6
10820		5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)		30	29.6
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)		41	19.6
10822	and the same	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	THE PROPERTY AND ADDRESS OF THE PARTY AND ADDR	41	19.6
10823	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)		36	19.6
10824	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)		39	±9.6
10825	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	TOTAL MANAGEMENT AND ADDRESS OF THE PARTY OF	41	±9.6
	-	Box and a fine to the second s	4-2000012-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	-	
10827		5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	1 Decide Talescon Microsoft - CO	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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10829 AAF 10830 AAE 10831 AAD 10832 AAE 10833 AAD 10834 AAE 10835 AAF 10838 AAE 10837 AAF 10838 AAE 10837 AAF 10838 AAE 10837 AAF 10838 AAE 10837 AAF 10844 AAE 10845 AAE 10855 AAD 10856 AAE 10857 AAD 10856 AAE 10858 AAE 10859 AAF 10860 AAE 10860 AAE 10861 AAF 10861 AAF 10863 AAF 10863 AAF 10864 AAE 10865 AAF 10866 AAF 10867 AAD 10868 AAF 10868 AAF 10868 AAF 10869 AAE 10870 AAE 10871 AAE 10873 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10879 AAE 10879 AAE 10879 AAE 10879 AAE 10878 AAE 10879 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10889 AAE 10889 AAE 10889 AAE		SG NR FRI TDD	8.40 7.63 7.73 7.74 7.70 7.75 7.70 7.66 7.68	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10831 AAD 10832 AAE 10833 AAD 10835 AAF 10836 AAE 10837 AAF 10838 AAF 10840 AAE 10854 AAE 10855 AAD 10856 AAE 10858 AAF 10858 AAF 10858 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10870 AAE 10871 AAE 10872 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10877 AAF 10876 AAE 10878 AAE 10888 AAE 10889 AAE	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	7.73 7.74 7.70 7.75 7.70 7.66 7.68	±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10831 AAD 10832 AAE 10833 AAD 10835 AAF 10836 AAE 10837 AAF 10838 AAF 10838 AAF 10837 AAF 10838 AAF 10838 AAF 10838 AAF 10838 AAF 10838 AAF 10840 AAE 10854 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAF 10860 AAF 10861 AAF 10863 AAF 10863 AAF 10863 AAF 10863 AAF 10864 AAE 10870 AAE 10871 AAE 10872 AAE 10872 AAE 10873 AAE 10874 AAE 10875 AAF 10878 AAE 10877 AAF 10878 AAE 10878 AAE 10877 AAF 10878 AAE 10880 AAE 10880 AAE 10881 AAE 10880 AAE 10881 AAE 10883 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	SG NR FRI TDD 5G NR FRI TDD	7.74 7.70 7.75 7.70 7.66 7.68	±9.6 ±9.6 ±9.6 ±9.6
10832 AAE 10833 AAD 10834 AAE 10833 AAP 10836 AAE 10837 AAF 10838 AAE 10837 AAF 10838 AAE 10837 AAF 10838 AAE 10844 AAE 10845 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAE 10859 AAE 10860 AAE 10861 AAF 10860 AAE 10861 AAF 10861 AAF 10861 AAF 10862 AAE 10863 AAF 10863 AAF 10863 AAF 10863 AAF 10864 AAE 10865 AAE 10867 AAE 10877 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10883 AAE 10883 AAE 10883 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10899 AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 35 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50%, RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	7.70 7.75 7.70 7.66 7.68	±9.6 ±9.6 ±9.6
10833 AAD 10834 AAE 10835 AAF 10838 AAE 10837 AAF 10838 AAE 10837 AAF 10838 AAE 10838 AAE 10838 AAE 10838 AAE 10841 AAE 10844 AAE 10845 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAE 10860 AAE 10861 AAF 10860 AAE 10861 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAE 10867 AAE 10871 AAE 10871 AAE 10877 AAE 10877 AAE 10878 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 50%, RB, 15 MHz, QPSK, 80 kHz)	50 NR FR1 TDD 56 NR FR1 TDD 56 NR FR1 TDD 50 NR FR1 TDD 56 NR FR1 TDD 50 NR FR1 TDD	7.75 7.70 7.66 7.68	±9.6 ±9.6
10834 AAE 10835 AAF 10838 AAE 10838 AAF 10838 AAF 10838 AAF 10840 AAE 10841 AAF 10846 AAE 10846 AAE 10846 AAE 10857 AAD 10858 AAE 10858 AAF 10860 AAF 10861 AAF 10863 AAF 10863 AAF 10863 AAF 10864 AAE 10871 AAE 10871 AAE 10871 AAE 10877 AAE 10877 AAE 10878 AAE 10880 AAE 10881 AAE 10883 AAE 10883 AAE 10883 AAE 10884 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10887 AAE 10887 AAE 10887 AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50%, RB, 15 MHz, QPSK, 60 kHz)	SG NR FR1 TDD SG NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD	7.70 7.66 7.68	±9.6
10835 AAF 10838 AAE 10837 AAF 10838 AAE 10837 AAF 10839 AAF 10840 AAE 10841 AAE 10841 AAE 10844 AAE 10845 AAD 10856 AAD 10857 AAD 10858 AAF 10857 AAD 10868 AAF 10863 AAF 10863 AAF 10863 AAF 10864 AAE 10865 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10870 AAE 10871 AAE 10872 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10876 AAE 10877 AAE 10878 AAE 10888 AAE 10889 AAE	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	SG NR FRI TDD SG NR FRI TDD SG NR FRI TDD SG NR FRI TDD	7.66 7.68	
10838 AAE 10837 AAF 10838 AAF 10838 AAF 10838 AAF 10841 AAE 10844 AAE 10844 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAF 10859 AAF 10860 AAE 10861 AAF 10861 AAF 10861 AAF 10861 AAF 10862 AAF 10863 AAF 10863 AAF 10863 AAF 10864 AAE 10867 AAD 10871 AAE 10871 AAE 10871 AAE 10871 AAE 10871 AAE 10871 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10875 AAE 10878 AAE 10888 AAE 10887 AAE 10887 AAE 10888 AAE 10888 AAE 10887 AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	50 NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD	7.68	100.0
10837 AAF 10839 AAF 10839 AAF 10839 AAF 10834 AAF 10841 AAF 10844 AAE 10846 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAE 10857 AAD 10858 AAF 10859 AAF 10860 AAF 10861 AAF 10861 AAF 10861 AAF 10862 AAF 10863 AAF 10863 AAF 10863 AAF 10863 AAF 10864 AAE 10867 AAE 10870 AAE 10871 AAE 10871 AAE 10871 AAE 10872 AAE 10873 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10888 AAF 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10888 AAE 10889 AAE 10889 AAE	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	50 NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD	7.68	±9.6
10839 AAF 10840 AAE 10841 AAF 10844 AAE 10844 AAE 10844 AAE 10854 AAE 10855 AAE 10857 AAD 10858 AAE 10858 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10870 AAE 10870 AAE 10871 AAE 10871 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10870 AAE 10880 AAE	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TD0 5G NR FR1 TD0	10.400	±9.6
10840 AAE 10841 AAF 10843 AAO 10844 AAE 10846 AAE 10854 AAE 10855 AAD 10858 AAE 10859 AAE 10859 AAE 10860 AAE 10860 AAE 10861 AAF 10861 AAF 10861 AAF 10863 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10870 AAE 10871 AAE 10871 AAE 10872 AAE 10873 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10877 AAE 10878 AAE 10880 AAE 10880 AAE 10880 AAE 10881 AAE 10883 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 80 kHz)	50 NR FR1 TDD	7.70	±9.6
10841 AAF 10843 AAO 10844 AAE 10846 AAE 10854 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAF 10859 AAF 10860 AAF 10861 AAF 10861 AAF 10868 AAF 10868 AAF 10868 AAF 10867 AAE 10871 AAE 10872 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10878 AAE 10879 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, OPSK, 60 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, OPSK, 60 kHz)		7.67	±9.6
10848 AAD 10844 AAE 10846 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAE 10857 AAD 10858 AAE 10859 AAF 10860 AAE 10861 AAF 10861 AAF 10861 AAF 10861 AAF 10862 AAF 10863 AAF 10863 AAF 10863 AAF 10863 AAF 10864 AAE 10867 AAE 10870 AAE 10871 AAE 10871 AAE 10871 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10875 AAE 10876 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10888 AAF 10888 AAE 10889 AAE	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	±9.6
10844 AAE 10846 AAE 10854 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAE 10857 AAD 10858 AAE 10858 AAE 10860 AAE 10861 AAF 10861 AAF 10868 AAF 10868 AAF 10867 AAE 10870 AAE 10871 AAE 10877 AAE 10877 AAE 10877 AAE 10878 AAE 10888 AAE 10888 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE		5G NR FR1 TDD	8.49	±9.6
10846 AAE 10854 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAE 10859 AAE 10860 AAE 10861 AAF 10861 AAF 10863 AAF 10863 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10870 AAE 10871 AAE 10872 AAE 10873 AAE 10875 AAE 10876 AAE 10876 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10879 AAE 10879 AAE 10880 AAE 10880 AAE 10880 AAE 10880 AAE 10880 AAE 10881 AAE 10883 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10897 AAE	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 KHz)	and the second s	8.34	±9.6
10854 AAE 10855 AAD 10856 AAE 10856 AAE 10857 AAD 10858 AAE 10859 AAF 10861 AAF 10861 AAF 10861 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10869 AAE 10870 AAE 10870 AAE 10871 AAE 10871 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10884 AAE 10887 AAE 10887 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10888 AAE 10887 AAE 10888 AAE 10889 AAE		5G NR FR1 TOD	8.41	19.6
10855 AAD 10856 AAE 10857 AAD 10858 AAF 10859 AAF 10860 AAE 10861 AAF 10863 AAF 10866 AAF 10866 AAF 10866 AAF 10867 AAE 10871 AAE 10872 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10878 AAE 10888 AAE 10889 AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	1000000	
10856 AAE 10857 AAD 10858 AAE 10857 AAD 10858 AAE 10861 AAF 10861 AAF 10863 AAF 10866 AAF 10866 AAF 10868 AAE 10870 AAE 10871 AAE 10877 AAE 10876 AAE 10877 AAE 10877 AAE 10878 AAE 10888 AAE 10888 AAE 10888 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10890 AAE		5G NR FR1 TDD	8.34	±9.6
10857 AAD 10858 AAF 10859 AAF 10860 AAF 10861 AAF 10863 AAF 10863 AAF 10866 AAF 10866 AAF 10868 AAF 10870 AAE 10871 AAE 10877 AAE 10876 AAE 10877 AAE 10878 AAE 10879 AAE 10880 AAE 10880 AAE 10880 AAE 10880 AAE 10881 AAE 10883 AAE 10883 AAE 10884 AAE 10887 AAE 10887 AAE 10887 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10890 AAE		5G NR FR1 TDD	8.36	±9.6
10858 AAE 10859 AAF 10860 AAE 10861 AAF 10861 AAF 10863 AAF 10865 AAF 10868 AAF 10869 AAE 10870 AAE 10871 AAE 10873 AAE 10873 AAE 10874 AAE 10877 AAE 10878 AAE 10879 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE	50 NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10859 AAF 10861 AAF 10861 AAF 10863 AAF 10865 AAF 10866 AAF 10866 AAF 10867 AAE 10870 AAE 10871 AAE 10873 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10876 AAE 10878 AAE 10879 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10890 AAE 10891 AAE 10892 AAE 10892 AAE	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	50 NR FR1 TDD	8.35	±9.6
10960 AAE 10961 AAF 10963 AAF 10963 AAF 10966 AAF 10966 AAF 10968 AAF 10969 AAE 10870 AAE 10871 AAE 10871 AAE 10877 AAE 10876 AAE 10878 AAE 10888 AAE 10889 AAE 10889 AAE 10890 AAE	5G NR (CP-QFOM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10861 AAF 10863 AAF 10864 AAE 10866 AAF 10868 AAF 10868 AAF 10868 AAF 10871 AAE 10872 AAE 10873 AAE 10876 AAE 10876 AAE 10876 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10879 AAE 10879 AAE 10880 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10884 AAE 10887 AAE 10887 AAE 10887 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10890 AAE 10891 AAE	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 80 kHz)	5G NR FR1 TDD	8.34	±9.6
10861 AAF 10863 AAF 10864 AAE 10866 AAF 10868 AAF 10868 AAF 10868 AAF 10871 AAE 10872 AAE 10873 AAE 10876 AAE 10876 AAE 10876 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10879 AAE 10879 AAE 10880 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10884 AAE 10887 AAE 10887 AAE 10887 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10890 AAE 10891 AAE	The state of the s	5G NR FR1 TDD	8.41	±9.6
10863 AAF 10864 AAE 10865 AAF 10866 AAF 10869 AAE 10870 AAE 10871 AAE 10873 AAE 10873 AAE 10874 AAE 10875 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10879 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10885 AAE 10887 AAE 10887 AAE 10887 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10887 AAE 10889 AAE 10889 AAE 10889 AAE 10890 AAE	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NA FR1 TDD	8.40	±9.6
10864 AAE 10865 AAF 10866 AAF 10869 AAE 10870 AAE 10871 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10880 AAE 10881 AAE 10881 AAE 10882 AAE 10883 AAE 10884 AAE 10887 AAE 10887 AAE 10887 AAE 10888 AAE 10888 AAE 10888 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10889 AAE 10890 AAE	Control of the Contro	5G NR FR1 TDD	8.41	±9.6
10865 AAF 10866 AAF 10868 AAF 10869 AAE 10870 AAE 10871 AAE 10873 AAE 10873 AAE 10875 AAE 10876 AAE 10876 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10888 AAE 10889 AAE 10890 AAE		5G NR FR1 TDD	8.37	±9.6
10866 AAF 10868 AAF 10868 AAF 10869 AAE 10871 AAE 10872 AAE 10873 AAE 10875 AAE 10876 AAE 10876 AAE 10876 AAE 10877 AAE 10878 AAE 10879 AAE 10879 AAE 10880 AAE 10880 AAE 10881 AAE 10883 AAE 10883 AAE 10884 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10890 AAE		5G NR FR1 TDD	8.41	±9.6
10868 AAF 10869 AAE 10870 AAE 10871 AAE 10873 AAE 10873 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10883 AAE 10887 AAE 10887 AAE 10887 AAE 10887 AAE 10887 AAE 10887 AAE 10888 AAE 10887 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10887 AAE 10887 AAE 10888 AAE 10887 AAE		5G NR FR1 TDD	5.68	±9.6
10869 AAE 10870 AAE 10871 AAE 10873 AAE 10873 AAE 10874 AAE 10875 AAE 10876 AAE 10876 AAE 10877 AAF 10878 AAE 10879 AAF 10883 AAE 10883 AAE 10883 AAE 10884 AAE 10887 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10888 AAE 10887 AAE 10889 AAE 10899 AAE 10899 AAE 10899 AAE 10899 AAE		5G NR FR1 TDD	5.89	±9.6
10870 AAE 10871 AAE 10871 AAE 10872 AAE 10873 AAE 10874 AAE 10875 AAE 10876 AAE 10877 AAE 10879 AAE 10870 AAE 10880 AAE 10883 AAE 10883 AAE 10885 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10899 AAE 10890 AAE		5G NR FR2 TDD	5.75	±9.6
10871 AAE 10872 AAE 10873 AAE 10873 AAE 10875 AAE 10876 AAE 10876 AAE 10877 AAE 10879 AAE 10880 AAE 10880 AAE 10883 AAE 10883 AAE 10884 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10890 AAE		5G NR FR2 TD0	5.86	±9.6
10872 AAE 10873 AAE 10874 AAE 10875 AAF 10876 AAE 10877 AAF 10877 AAF 10878 AAE 10879 AAE 10881 AAE 10882 AAE 10883 AAE 10885 AAE 10888 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10888 AAE 10887 AAE 10888 AAE		and the second s		
10873 AAE 10874 AAE 10875 AAE 10877 AAE 10878 AAE 10877 AAE 10878 AAE 10879 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10885 AAE 10888 AAE 10887 AAE 10887 AAE 10888 AAE 10887 AAE 10899 AAE 10891 AAE 10892 AAE 10893 AAE		5G NR FR2 TD0	5.75	±9.6
10874 AAE 10875 AAF 10876 AAE 10876 AAE 10877 AAF 10877 AAF 10879 AAE 10880 AAE 10883 AAF 10883 AAF 10885 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10890 AAE 10890 AAE		5G NR FR2 TDD	6.52	±9.6
10875 AAE 10876 AAE 10877 AAE 10877 AAE 10879 AAE 10880 AAE 10880 AAE 10883 AAE 10883 AAE 10884 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10899 AAE 10890 AAE		5G NR FR2 TDD	6.61	±9.6
10876 AAE 10877 AAE 10878 AAE 10878 AAE 10879 AAE 10880 AAE 10882 AAE 10883 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10891 AAE 10891 AAE 10897 AAE		5G NR FR2 TDD	6.65	±9.6
10877 AAE 10878 AAE 10879 AAE 108879 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10886 AAE 10886 AAE 10887 AAE 10888 AAE 10887 AAE 10890 AAE 10891 AAE 10891 AAE 10892 AAE 10893 AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10878 AAE 10879 AAF 10880 AAE 10881 AAE 10883 AAE 10883 AAE 10885 AAE 10887 AAE 10888 AAE 10888 AAE 10890 AAE 10891 AAE 10892 AAE 10892 AAE 10893 AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8:39	±9.6
10870 AAE 10880 AAE 10881 AAE 10881 AAE 10883 AAE 10884 AAE 10885 AAE 10886 AAE 10888 AAE 10889 AAE 10890 AAE 10891 AAE 10892 AAE 10892 AAE 10892 AAE 10893 AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7,95	±9.6
10880 AAE 10881 AAE 10882 AAE 10883 AAE 10885 AAE 10886 AAE 10888 AAE 10889 AAE 10889 AAE 10890 AAE 10891 AAE 10893 AAE 10893 AAE 10893 AAE 10893 AAE 10893 AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10881 AAE 10882 AAE 10883 AAE 10885 AAE 10886 AAE 10887 AAE 10887 AAE 10889 AAE 10899 AAE 10891 AAE 10891 AAE 10891 AAE 10892 AAE 10893 AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	B.12	±9.6
10882 AAE 10883 AAE 10884 AAE 10885 AAE 10887 AAE 10888 AAE 10889 AAE 10891 AAE 10891 AAE 10892 AAE 10893 AAE 10893 AAE	5G NR (CP-OFDM, 100% RB, 100MHz, 64QAM, 120kHz)	5G NR FR2 TOD	8.38	±9.6
10883 AAE 10884 AAE 10885 AAE 10887 AAE 10887 AAE 10888 AAE 10889 AAE 10890 AAE 10891 AAE 10892 AAE 10898 AAE 10898 AAE	5G NR (DFT-a-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TOD	5.75	±9.6
10883 AAE 10885 AAE 10885 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10891 AAE 10892 AAE 10892 AAE 10898 AAC 10898 AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
10884 AAE 10885 AAE 10886 AAE 10887 AAE 10889 AAE 10889 AAE 10891 AAE 10891 AAE 10897 AAE 10897 AAE 10898 AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
10885 AAE 10886 AAE 10887 AAE 10888 AAE 10889 AAE 10890 AAE 10891 AAE 10892 AAE 10893 AAE 10898 AAC 10899 AAC	A STATE OF A PART OF THE STATE	5G NR FR2 TDD	6.53	±9.6
10886 AAE 10887 AAE 10888 AAE 10889 AAE 10891 AAE 10891 AAE 10891 AAE 10897 AAE 10898 AAC 10899 AAB		5G NR FR2 TDD	6.61	±9.6
10887 AAE 10888 AAE 10889 AAE 10890 AAE 10891 AAE 10892 AAE 10892 AAE 10897 AAE 10898 AAC 10899 AAB		5G NR FR2 TDD	6.65	±9.6
10888 AAE 10889 AAE 10890 AAE 10891 AAE 10892 AAE 10897 AAE 10898 AAC 10899 AAB		5G NR FR2 TDD	7.78	±9.6
10889 AAE 10890 AAE 10891 AAE 10892 AAE 10897 AAE 10898 AAC 10899 AAB 10900 AAC		5G NR FR2 TDD	8.35	±9.6
10890 AAE 10891 AAE 10892 AAE 10897 AAE 10898 AAC 10899 AAB 10900 AAC		SG NR FR2 TDD	8.02	19.6
10891 AAE 10892 AAE 10897 AAE 10898 AAC 10899 AAB 10900 AAC		See a Section 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	
10892 AAE 10897 AAE 10898 AAC 10899 AAB 10900 AAC		5G NR FR2 TDD	8.40	±9.6
10897 AAE 10898 AAC 10899 AAB 10900 AAC	AND	5G NR FR2 TOD	8.13	19.6
10898 AAC 10899 AAB 10900 AAC		5G NR FR2 TDD	8.41	±9.6
10899 AAB 10900 AAC		5G NR FR1 TDD	5.66	19.6
10900 AAC		5G NR FR1 TDD	5.67	19.8
CONTRACTOR OF CONTRACTOR	and the first the first term and	5G NR FR1 TDD	5.67	±9.6
10901 AAB		5G NR FR1 TDD	5.68	±9.6
	5G NR (DFT-s-OFOM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10902 AAC		5G NR FR1 TDD	5.88	19.6
10903 AAD	5G NR (DFTs-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10904 AAC	entranspropriate participation of the Control of th	5G NR FR1 TDD	5.68	±9.5
10905 AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10906 AAD	5G NR (DFTs-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR (DFTs-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.88	19.6
10907 AAE	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)		5.78	±9.6
10907 AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G MB EBt TBD		-
10909 AAB	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10910 AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 1 GG NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD	5.93	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	and the second second
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
10913	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	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	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	39.6
0919	AAC	5G NR (DFTs-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.86	±9.6
0920	AAB	5G NR (DFTs-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
0921	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
0922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6
- Calabara	AAC	5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	50 NR FR1 TDD	5.84	±9.6
0923	1000000	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
0924	AAD	A STATE OF THE PARTY OF THE PAR	5G NR FR1 TDD	5.95	±9.6
0925	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDO	5.84	±9.6
0926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
0927	AAD	5G NR (DFT-6-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	The state of the s		-
0928	CIAA	5G NR (DFT-s-OFDM, 1 R8, 5MHz, QPSK, 15kHz)	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	±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	AAG	50 NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
0934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	29.6
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, 5MHz, QPSK, 15kHz)	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
0938	AAG	8G NR (DFT-e-OFDM, 50% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.90	±9.6
0939	AAC	5G NR (DFTs-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
0940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	19.6
0941	AAG	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-e-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
0943	AAD	SG NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
0944	AAD	5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.81	±9.6
10945	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.85	19.6
0946	AAC	5G NR (DFTs-OFDM, 100% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.83	±9.6
sendantertore	AAC		5G NR FR1 FD0	5.87	±9.6
0947	The second	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	19.6
0948	AAC	5G NR (DFT-e-OFDM, 100% RB, 25MHz, QPSK, 15kHz)	a timber depoleration and the second		-
0949	AAC	5G NR (DFT-e-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	19.6
0951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
0952	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 Dt. (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-DFDM, TM 3.1, 15 MHz, 84-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9,6
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6
0957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
0958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6
0959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	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	±9.8
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	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6
0963	AAG	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	19.0
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		5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz)	50 NR FR1 TOD	9.55	19.6
0967	-	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	SG NR FR1 TDD	9.42	19.0
	A CONTRACTOR		Branch Advisor Control of Control	-	-
0968	AAD	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	9.49	±9.6
0972	in the street was being	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15kHz)		11.59	19.8
0973		5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	19.6
10974	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
0978		ULLA BOR	ULLA	1.16	19.6
10979	AAA	ULLA HDR4	ULLA	8.58	19.6
0980	AAA	ULLA HDR8	ULLA	10.32	±9.4
10981	AAA	ULLA HDRp4	ULLA	3.19	±9.6
10982	AAA	ULLA HDRp8	ULLA	3.43	19.6

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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 NA FA1 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 NR FR1 TDO	9.52	±9.5
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, 15kHz)	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 FD0	8.76	±9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	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	BAA	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
11014	BAA	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.6
11015	BAA	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 dyde)	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	- 세 위 명	자 11 일 자
Object	CLA150 - SN: 40	वसायत ५०० /	रे रिकर
Calibration procedure(s)	QA CAL-15.v11 Calibration Proce	ال مُحَدِّدُ اللهِ ا dure for SAR Validation Sources	Andrew Control of the
Salibration date:	August 19, 2024		
All calibrations have been conducte Calibration Equipment used (M&TE	ed in the closed laborator critical for calibration)	obability are given on the following pages and y facility: environment temperature (22 \pm 3)°C	and humidity < 70%.
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
ower sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
ower sensor NRP-Z91	SN: 103245	26-Mar-24 (No. 217-04037)	Mar-25
Reference 20 dB Attenuator	SN: CC2552 (20x)	26-Mar-24 (No. 217-04046)	Mar-25
ype-N mismatch combination Reference Probe EX3DV4	SN: 310962 / 06327 SN: 3877	26-Mar-24 (No. 217-04047)	Mar-25 Jan-25
AE4	SN: 654	10-Jan-24 (No. EX3-3877 Jan-24) 15-Jan-24 (No. DAE4-654 Jan-24)	Jan-25
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter NRP2	SN: 107193	08-Nov-21 (in house check Dec-22)	In house check: Dec-24
Power sensor NRP-Z91	SN: 100922	15-Dec-09 (in house check Dec-22)	In house check: Dec-24
Power sensor NRP-Z91 Power sensor NRP-Z91	SN: 100418	01-Jan-04 (in house check Dec-22)	In house check: Dec-24
Power sensor NRP-Z91 Power sensor NRP-Z91 RF generator HP 8648C	SN: 100418 SN: US3642U01700	01-Jan-04 (in house check Dec-22) 04-Aug-99 (in house check Jun-24)	In house check: Dec-24 In house check: Jun-26
Power sensor NRP-Z91 Power sensor NRP-Z91 RF generator HP 8648C	SN: 100418	01-Jan-04 (in house check Dec-22)	In house check: Dec-24
Power sensor NRP-Z91 Power sensor NRP-Z91 RF generator HP 8648C Network Analyzer Agilent E8358A	SN: 100418 SN: US3642U01700 SN: US41080477 Name	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	In house check: Dec-24 In house check: Jun-26
Power sensor NRP-Z91 Power sensor NRP-Z91 RF generator HP 8648C	SN: 100418 SN: US3642U01700 SN: US41080477	01-Jan-04 (in house check Dec-22) 04-Aug-99 (in house check Jun-24) 31-Mar-14 (in house check Oct-22)	In house check: Dec-24 In house check: Juri-26 In house check: Oct-24
Power sensor NRP-Z91 Power sensor NRP-Z91 RF generator HP 8648C Network Analyzer Agilent E8358A	SN: 100418 SN: US3642U01700 SN: US41080477 Name	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	In house check: Dec-24 In house check: Juri-26 In house check: Oct-24
Power sensor NRP-Z91 Power sensor NRP-Z91 RF generator HP 8648C Network Analyzer Agilent E8358A Calibrated by:	SN: 100418 SN: US3642U01700 SN: US41080477 Name Krešimir Franjić	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	In house check: Dec-24 In house check: Juri-26 In house check: Oct-24

Certificate No: CLA150-4014_Aug24

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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

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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	

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)

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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
Manufactured by	or End



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

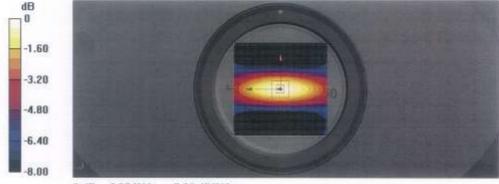
Peak SAR (extrapolated) = 7.29 W/kg

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



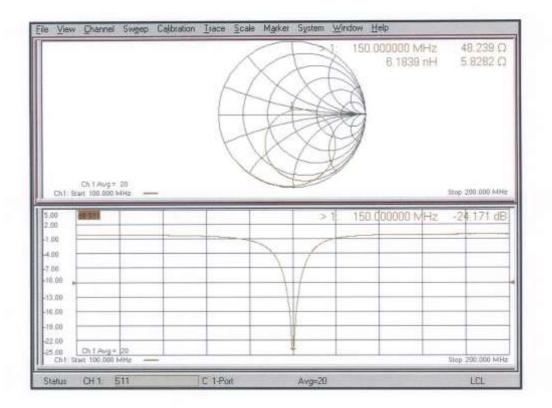
0 dB = 5.37 W/kg = 7.30 dBW/kg

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Impedance Measurement Plot for Head TSL



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