### **DASY5 Validation Report for Head TSL**

Date: 02.09.2020

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:924

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz;  $\sigma = 1.84 \text{ S/m}$ ;  $\varepsilon_r = 38.9$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(7.74, 7.74, 7.74) @ 2450 MHz; Calibrated: 29.06.2020

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 27.12.2019

Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

## Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 115.2 V/m; Power Drift = -0.05 dB

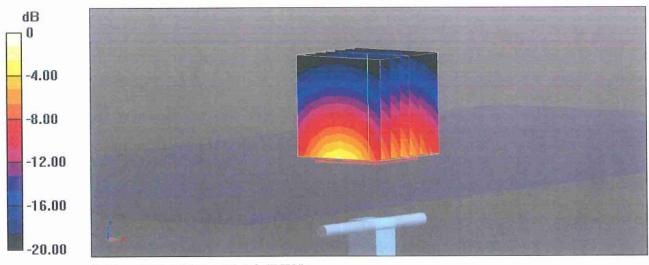
Peak SAR (extrapolated) = 25.4 W/kg

SAR(1 g) = 13.0 W/kg; SAR(10 g) = 6.04 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 51%

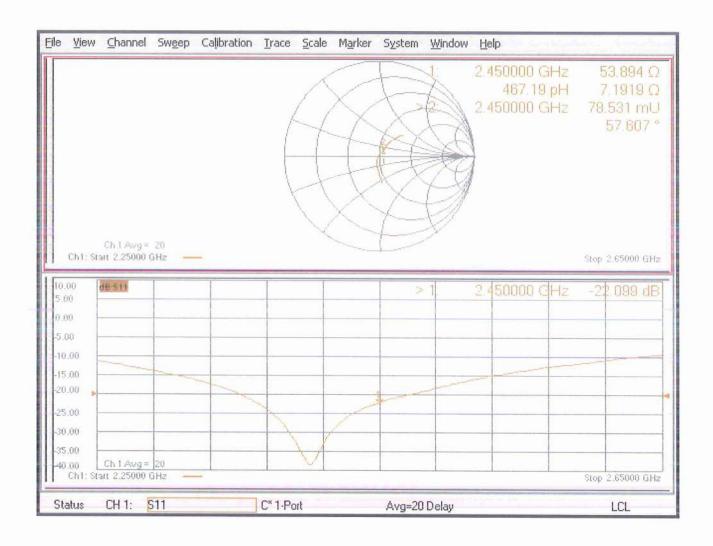
Maximum value of SAR (measured) = 21.2 W/kg



0 dB = 21.2 W/kg = 13.26 dBW/kg

Certificate No: D2450V2-924\_Sep20 Page 5 of 6

# Impedance Measurement Plot for Head TSL





# D2450V2, Serial No. 924 Extended Dipole Calibrations

Referring to KDB 865664 D01 v01r04, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

					D2450V2 -	serial no	. 924			
2450 Head										
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)				
2020.9.2	-22.1		53.9		7.2					
2021.9.1	-22.1	0.0	51.2	-2.7	7.4	-0.2		·		
2022.9.1	-25.5	-15.4	52.0	-1.9	3.6	3.6		·		

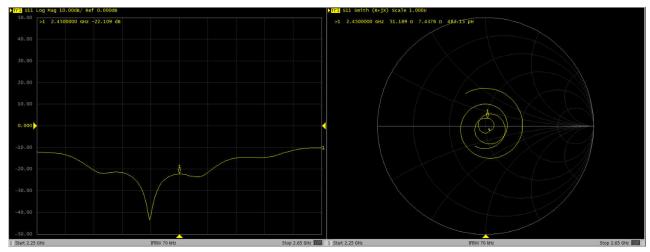
#### <Justification of the extended calibration>

The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.



## Dipole Verification Data> D2450V2, serial no. 924

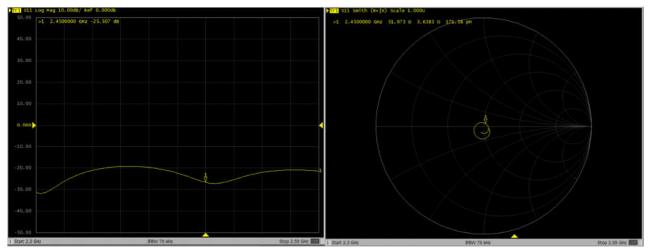
### 2450MHz - Head----2021.9.1





## Dipole Verification Data> D2450V2, serial no. 924

### 2450MHz - Head--2022.9.1



s



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Client: Sporton

Certificate No: Z22-60243

## **CALIBRATION CERTIFICATE**

Object DAE4 - SN: 1386

Calibration Procedure(s) FF-Z11-002-01

Calibration Procedure for the Data Acquisition Electronics

(DAEx)

Calibration date: June 30, 2022

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature( $22\pm3$ ) $^{\circ}$ C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Process Calibrator 753	1971018	14-Jun-22 (CTTL, No.J22X04180)	Jun-23

	Name	Function	Signature
Calibrated by:	Yu Zongying	SAR Test Engineer	2 mg
Reviewed by:	Lin Hao	SAR Test Engineer	林光
Approved by:	Qi Dianyuan	SAR Project Leader	Sea

Issued: June 30, 2022

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Certificate No: Z22-60243 Page 1 of 3





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Glossary:

DAE data acquisition electronics

Connector angle information used in DASY system to align probe sensor X

to the robot coordinate system.

## **Methods Applied and Interpretation of Parameters:**

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The report provide only calibration results for DAE, it does not contain other performance test results.

Certificate No: Z22-60243 Page 2 of 3





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## **DC Voltage Measurement**

A/D - Converter Resolution nominal

High Range: 1LSB =

 $1LSB = 6.1 \mu V,$ 

full range =

-100...+300 mV

Low Range:

1LSB =

61nV, full range =

-1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	Х	Υ	Z
High Range	404.561 ± 0.15% (k=2)	404.650 ± 0.15% (k=2)	404.167 ± 0.15% (k=2)
Low Range	4.01939 ± 0.7% (k=2)	4.01263 ± 0.7% (k=2)	4.01150 ± 0.7% (k=2)

## **Connector Angle**

Connector Angle to be used in DASY system	152° ± 1 °
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Certificate No: Z22-60243

Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 44 245 9700, Fax +41 44 245 9779 www.speag.swiss, info@speag.swiss

## IMPORTANT NOTICE



#### **USAGE OF THE DAE4**

The DAE unit is a delicate, high precision instrument and requires careful treatment by the user. There are no serviceable parts inside the DAE. Special attention shall be given to the following points:

**Battery Exchange**: The battery cover of the DAE4 unit is fixed using a screw, over tightening the screw may cause the threads inside the DAE to wear out.

**Shipping of the DAE**: Before shipping the DAE to SPEAG for calibration, remove the batteries and pack the DAE in an antistatic bag. This antistatic bag shall then be packed into a larger box or container which protects the DAE from impacts during transportation. The package shall be marked to indicate that a fragile instrument is inside.

**E-Stop Failures**: Touch detection may be malfunctioning due to broken magnets in the E-stop. Rough handling of the E-stop may lead to damage of these magnets. Touch and collision errors are often caused by dust and dirt accumulated in the E-stop. To prevent E-stop failure, the customer shall always mount the probe to the DAE carefully and keep the DAE unit in a non-dusty environment if not used for measurements.

**Repair**: Minor repairs are performed at no extra cost during the annual calibration. However, SPEAG reserves the right to charge for any repair especially if rough unprofessional handling caused the defect.

**DASY Configuration Files:** Since the exact values of the DAE input resistances, as measured during the calibration procedure of a DAE unit, are not used by the DASY software, a nominal value of 200 MOhm is given in the corresponding configuration file.

#### Important Note:

Warranty and calibration is void if the DAE unit is disassembled partly or fully by the Customer.

#### Important Note:

Never attempt to grease or oil the E-stop assembly. Cleaning and readjusting of the E-stop assembly is allowed by certified SPEAG personnel only and is part of the annual calibration procedure.

#### Important Note:

To prevent damage of the DAE probe connector pins, use great care when installing the probe to the DAE. Carefully connect the probe with the connector notch oriented in the mating position. Avoid any rotational movement of the probe body versus the DAE while turning the locking nut of the connector. The same care shall be used when disconnecting the probe from the DAE.

## Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Shenzhen City, China

Certificate No: DAE4-1210 Mar23

# **CALIBRATION CERTIFICATE**

Object

DAE4 - SD 000 D04 BM - SN: 1210

Calibration procedure(s)

QA CAL-06.v30

Calibration procedure for the data acquisition electronics (DAE)

Calibration date:

March 23, 2023

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22  $\pm$  3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	29-Aug-22 (No:34389)	Aug-23
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	27-Jan-23 (in house check)	In house check: Jan-24
Calibrator Box V2.1	SE UMS 006 AA 1002		In house check: Jan-24

Calibrated by:

Name

Dominique Steffen

Function

Laboratory Technician

Approved by:

Sven Kühn

Technical Manager

Issued: March 23, 2023

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Certificate No: DAE4-1210\_Mar23

Page 1 of 5

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#### Glossary

DAE

data acquisition electronics

Connector angle

information used in DASY system to align probe sensor X to the robot

coordinate system.

# **Methods Applied and Interpretation of Parameters**

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
  - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
  - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
  - Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.
  - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
  - Power consumption: Typical value for information. Supply currents in various operating modes.

# DC Voltage Measurement

A/D - Converter Resolution nominal

High Range:

1LSB =

6.1μV ,

full range = -100...+300 mV

Low Range:

1LSB =

61nV ,

full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Υ	Z
High Range	404.318 ± 0.02% (k=2)	405.024 ± 0.02% (k=2)	404.457 ± 0.02% (k=2)
Low Range	3.98873 ± 1.50% (k=2)	3.97372 ± 1.50% (k=2)	3.98747 ± 1.50% (k=2)

# **Connector Angle**

Connector Angle to be used in DASY system	345.0°±1°
	0.40.0 ± 1

Certificate No: DAE4-1210\_Mar23

# Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	200029.00	-8.90	-0.00
Channel X	+ Input	20006.77	0.61	0.00
Channel X	- Input	-20004.44	1.59	-0.01
Channel Y	+ Input	200028.85	-6.14	-0.00
Channel Y	+ Input	20002.45	-3.54	-0.02
Channel Y	- Input	-20006.91	-0.89	0.00
Channel Z	+ Input	200035.27	0.22	0.00
Channel Z	+ Input	20004.88	-1.06	-0.01
Channel Z	- Input	-20004.92	1.26	-0.01

Low Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	2001.47	-0.01	-0.00
Channel X	+ Input	201.37	0.04	0.02
Channel X	- Input	-198.49	0.04	-0.02
Channel Y	+ Input	2001.41	-0.03	-0.00
Channel Y	+ Input	200.21	-1.16	-0.58
Channel Y	- Input	-199.39	-0.69	0.35
Channel Z	+ Input	2003.25	1.97	0.10
Channel Z	+ Input	200.87	-0.24	-0.12
Channel Z	- Input	-199.27	-0.47	0.24

# 2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	24.26	22.45
	- 200	-22.16	-23.88
Channel Y	200	-10.55	-10.76
	- 200	8.95	8.65
Channel Z	200	-15.52	-15.60
	- 200	14.46	14.27

## 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (µV)
Channel X	200	-	2.60	-3.82
Channel Y	200	8.16	-	4.63
Channel Z	200	9.44	6.12	-

Certificate No: DAE4-1210\_Mar23

4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)	
Channel X	15722	16202	
Channel Y	16223	16421	
Channel Z	15937	16845	

# 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input  $10M\Omega$ 

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	0.96	-0.52	2.66	0.58
Channel Y	-0.17	-1.18	0.69	0.41
Channel Z	-0.27	-1.39	0.74	0.41

## 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

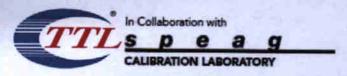
	Zeroing (kOhm)	Measuring (MOhm)		
Channel X	200	200		
Channel Y	200	200		
Channel Z	200	200		

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9



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Certificate No: Z22-60206

## CALIBRATION CERTIFICATE

Object DAE4 - SN: 679

Calibration Procedure(s) FF-Z11-002-01

Calibration Procedure for the Data Acquisition Electronics

(DAEx)

Calibration date: June 06, 2022

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)℃ and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
18 15-Jun-21 (CTTL, No.J21X04465)	Jun-22
,	118 15-Jun-21 (CTTL, No.J21X04465)

Name Function Signature

Calibrated by: Yu Zongying SAR Test Engineer

Reviewed by: Lin Hao SAR Test Engineer

Approved by: Qi Dianyuan SAR Project Leader

Issued: June 09, 2022

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Certificate No: Z22-60206

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Glossary:

DAE data acquisition electronics

Connector angle information used in DASY system to align probe sensor X

to the robot coordinate system.

### Methods Applied and Interpretation of Parameters:

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The report provide only calibration results for DAE, it does not contain other performance test results.

Certificate No: Z22-60206 Page 2 of 3





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#### DC Voltage Measurement

A/D - Converter Resolution nominal

High Range:  $1LSB = 6.1 \mu V$ , full range = -100...+300 mVLow Range: 1LSB = 61 nV, full range = -1......+3 mVDASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	404.256 ± 0.15% (k=2)	404.744 ± 0.15% (k=2)	404.779 ± 0.15% (k=2)
Low Range	3.96563 ± 0.7% (k=2)	3.95288 ± 0.7% (k=2)	3.95705 ± 0.7% (k=2)

## **Connector Angle**

Connector Angle to be used in DASY system	56° ± 1 °

Certificate No: Z22-60206 Page 3 of 3

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Client

Sporton

Certificate No

ES-3191 Feb23

## **CALIBRATION CERTIFICATE**

Object

ES3DV3 - SN:3191

Calibration procedure(s)

QA CAL-01.v10, QA CAL-12.v10, QA CAL-23.v6, QA CAL-25.v8

Calibration procedure for dosimetric E-field probes

Calibration date

February 17, 2023

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3) ℃ and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-22 (No. 217-03525/03524)	Apr-23
Power sensor NRP-Z91	SN: 103244	04-Apr-22 (No. 217-03524)	Apr-23
OCP DAK-3.5 (weighted)	SN: 1249	20-Oct-22 (OCP-DAK3.5-1249_Oct22)	Oct-23
OCP DAK-12	SN: 1016	20-Oct-22 (OCP-DAK12-1016_Oct22)	Oct-23
Reference 20 dB Attenuator	SN: CC2552 (20x)	04-Apr-22 (No. 217-03527)	Apr-23
DAE4	SN: 660	10-Oct-22 (No. DAE4-660_Oct22)	Oct-23
Reference Probe ES3DV2	SN: 3013	06-Jan-23 (No. ES3-3013_Jan23)	Jan-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

Approved by Sven Kühn Technical Manager 5. 2

Issued: February 27, 2023

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S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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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  $\varphi$   $\varphi$  rotation around probe axis

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

Certificate No: ES-3191\_Feb23 Page 2 of 9

ES3DV3 - SN:3191

### Parameters of Probe: ES3DV3 - SN:3191

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)	
Norm $(\mu V/(V/m)^2)$ A	0.90	1.20	1.27	±10.1%	
DCP (mV) B	98.0	106.0	101.0	±4.7%	

#### Calibration Results for Modulation Response

UID	Communication System Name		A dB	$^{ m B}_{ m dB}\sqrt{\mu V}$	С	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> k = 2
0	CW	X	0.00	0.00	1.00	0.00	111.1	±3.5%	±4.7%
		Y	0.00	0.00	1.00		134.4		
		Z	0.00	0.00	1.00		112.0	1	

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%.

A The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Page 5).

B Linearization parameter uncertainty for maximum specified field strength.

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

ES3DV3 - SN:3191 February 17, 2023

# Parameters of Probe: ES3DV3 - SN:3191

### Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-60.0°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

Certificate No: ES-3191\_Feb23

ES3DV3 - SN:3191 February 17, 2023

#### Parameters of Probe: ES3DV3 - SN:3191

### Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
750	41.9	0.89	6.52	5.92	6.43	0.33	2.18	±12.0%
835	41.5	0.90	6.58	5.99	6.22	0.32	2.18	±12.0%
1750	40.1	1.37	5.68	5.08	5.50	0.25	1.97	±12.0%
1900	40.0	1.40	5.36	4.85	5.23	0.32	1.98	±12.0%
2000	40.0	1.40	5.24	4.76	5.11	0.25	2.18	±12.0%
2300	39.5	1.67	5.01	4.58	4.90	0.33	1.95	±12.0%
2450	39.2	1.80	4.89	4.46	4.77	0.27	1.98	±12.0%
2600	39.0	1.96	4.83	4.44	4.75	0.22	2.18	±12.0%

<sup>&</sup>lt;sup>C</sup> Frequency validity above 300 MHz of  $\pm$ 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to  $\pm$ 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  $\pm$ 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed 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  $\pm$ 110 MHz.

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for  $\epsilon$  and  $\sigma$  by less than  $\pm$ 5% from the target values (typically better than  $\pm$ 3%)

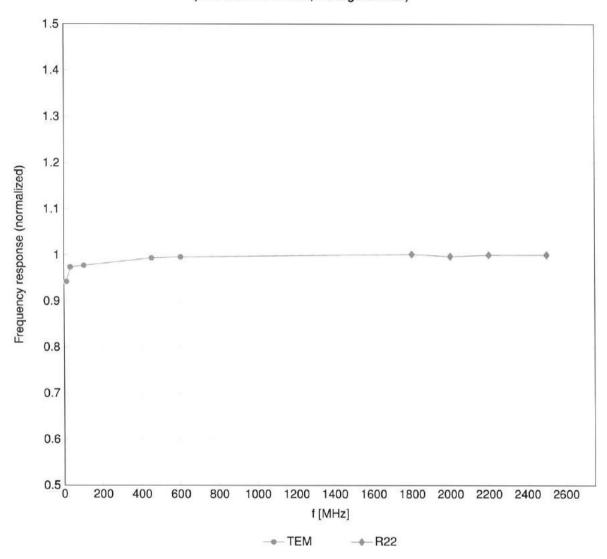
Certificate No: ES-3191\_Feb23

The probes are calibrated using tissue simulating liquids (TSL) that deviate for  $\varepsilon$  and  $\sigma$  by less than  $\pm 5\%$  from the target values (typically better than  $\pm 3\%$ ) and are valid for TSL with deviations of up to  $\pm 10\%$ . If TSL with deviations from the target of less than  $\pm 5\%$  are used, the calibration uncertainties are 11.1% for 0.7 - 3 GHz and 13.1% for 3 - 6 GHz.

<sup>&</sup>lt;sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than  $\pm 1\%$  for frequencies below 3 GHz and below  $\pm 2\%$  for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

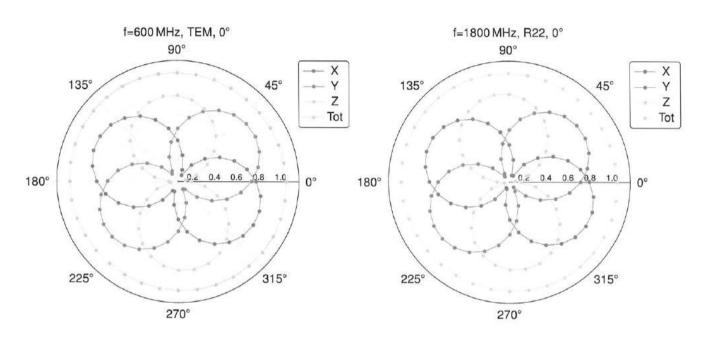
## Frequency Response of E-Field

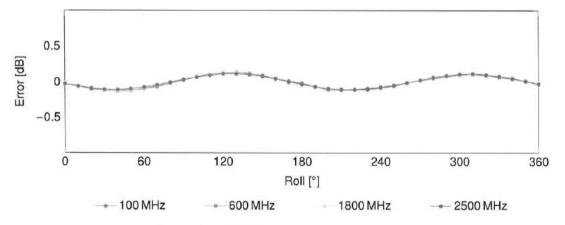
(TEM-Cell:ifi110 EXX, Waveguide:R22)



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

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

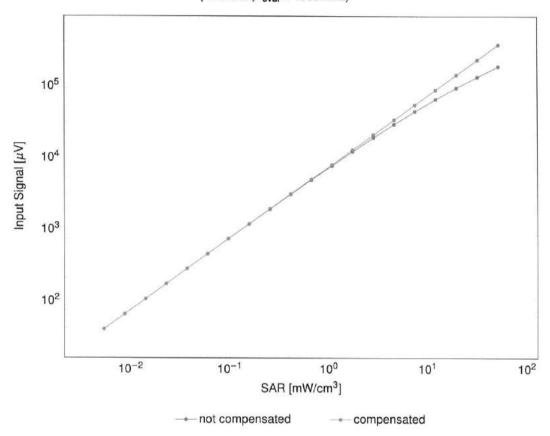


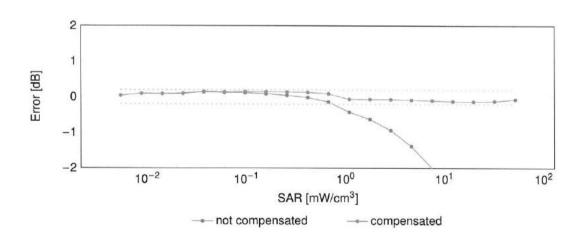


Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  (k=2)

# Dynamic Range f(SAR<sub>head</sub>)

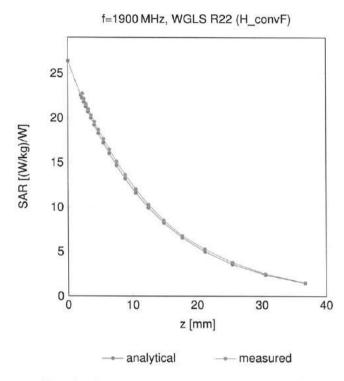
(TEM cell, f<sub>eval</sub> = 1900 MHz)



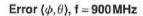


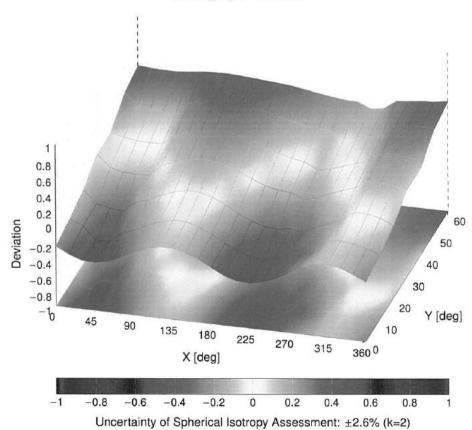
Uncertainty of Linearity Assessment: ±0.6% (k=2)

### **Conversion Factor Assessment**



## Deviation from Isotropy in Liquid





### Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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Client

Sporton

Certificate No

EX-7577\_Nov22

## **CALIBRATION CERTIFICATE**

Object

EX3DV4 - SN:7577

Calibration procedure(s)

QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v6, QA CAL-23.v5,

QA CAL-25.v7

Calibration procedure for dosimetric E-field probes

Calibration date

November 23, 2022

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3) ℃ and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-22 (No. 217-03525/03524)	Apr-23
Power sensor NRP-Z91	SN: 103244	04-Apr-22 (No. 217-03524)	Apr-23
OCP DAK-3.5 (weighted)	SN: 1249	20-Oct-22 (OCP-DAK3.5-1249_Oct22)	Oct-23
OCP DAK-12	SN: 1016	20-Oct-22 (OCP-DAK12-1016_Oct22)	Oct-23
Reference 20 dB Attenuator	SN: CC2552 (20x)	04-Apr-22 (No. 217-03527)	Apr-23
DAE4	SN: 660	10-Oct-22 (No. DAE4-660_Oct22)	Oct-23
Reference Probe ES3DV2	SN: 3013	27-Dec-21 (No. ES3-3013_Dec21)	Dec-22

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	Jeton Kastrati	Laboratory Technician <	- le
Approved by	Sven Kühn	Technical Manager	C /_

Issued: November 23, 2022

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

#### Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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#### Glossary

TSL NORMx,y,z tissue simulating liquid sensitivity in free space

ConvF

sensitivity in TSL / NORMx,y,z

DCP

diode compression point

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

Polarization  $\varphi$ 

 $\varphi$  rotation around probe axis

Polarization 8

 $\vartheta$  rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e.,  $\vartheta = 0$  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; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of
  power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum
  calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis).
   No tolerance required.
- · Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

#### Parameters of Probe: EX3DV4 - SN:7577

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm (μV/(V/m) <sup>2</sup> ) <sup>A</sup>	0.56	0.64	0.60	±10.1%
DCP (mV) B	98.5	100.6	101.7	±4.7%

#### **Calibration Results for Modulation Response**

			A	В	С	D	VR	Max	Max
			₫B	$dB\sqrt{\mu V}$		dB	m۷	dev.	Unc <sup>E</sup>
				• •					k = 2
0	CW	X	0.00	0.00	1.00	0.00	131.5	±3.8%	±4.7%
		Y	0.00	0.00	1.00		138.9		
		Z	0.00	0.00	1.00		133.1		
10352	Pulse Waveform (200Hz, 10%)	X	20.00	88.77	18.95	10.00	60.0	±3.2%	±9.6%
		Y	20.00	89.93	19.87		60.0		
		Z	20.00	89.36	19.36		60.0		
10353	Pulse Waveform (200Hz, 20%)	Х	20.00	91.45	19.21	6.99	80.0	±2.0%	±9.6%
		Y	20.00	92.38	20.12		80.0		i I
		Z	20.00	91.81	19.47		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	20.00	93.84	18.98	3.98	95.0	±2.1%	±9.6%
	,	Y	20.00	101.56	23.31	1	95.0		
		Z	20.00	93.09	18.68		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	20.00	102.14	21.32	2.22	120.0	±2.0%	±9.6%
	·	Y	20.00	123.62	32.00	1	120.0		
		Z	20.00	93.33	17.44	1	120.0		
10387	QPSK Waveform, 1 MHz	Х	2.20	72.57	18.47	1.00	150.0	±3.2%	±9.6%
		Y	2.12	71.36	18.06	i I	150.0		
		Z	1.67	66.98	15.23	1	150.0		
10388	QPSK Waveform, 10 MHz	X	2.95	73.98	19.01	0.00	150.0	±2.1%	±9.6%
		Y	2.82	72.78	18.57	]	150.0		
		Z	2.26	68.75	16.06		150.0	1	
10396	64-QAM Waveform, 100 kHz	X	3.33	74.91	21.96	3.01	150.0	±1.6%	±9.6%
	·	Y	4.22	79.98	24.33	1	150.0	ĺ	
		Z	2.96	71.19	19.33	1	150.0	1	
10399	64-QAM Waveform, 40 MHz	Х	3.78	69.00	17.13	0.00	150.0	±2.1%	±9.6%
		Y	3.74	68.54	16.94	1	150.0	1	
		Z	3.53	67.43	15.96	1	150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	5.01	66.52	16.35	0.00	150.0	±3.9%	±9.6%
		Y	4.97	66.18	16.19	1	150.0	1	
		Z					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%.

A The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6). B Linearization parameter uncertainty for maximum specified field strength.

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

## Parameters of Probe: EX3DV4 - SN:7577

#### **Sensor Model Parameters**

	C1	C2	α	T1	T2	Т3	T4	<b>T</b> 5	T6
	fF	fF	V <sup>-1</sup>	ms V <sup>-2</sup>	msV <sup>-1</sup>	ms	V <sup>-2</sup>	V <sup>-1</sup>	
X	44.0	338.77	37.93	13.32	0.04	5.10	0.47	0.33	1.01
У	44.1	339.45	37.92	16.50	0.00	5.09	2.00	0.07	1.02
Z	43.3	327.99	36.47	12.59	0.02	5.10	0.67	0.34	1.01

#### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle	127.6°
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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## Parameters of Probe: EX3DV4 - SN:7577

#### Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
750	41.9	0.89	9.79	9.79	9.79	0.47	0.88	±12.0%
835	41.5	0.90	9.53	9.53	9.53	0.54	0.85	±12.0%
900	41.5	0.97	9.29	9.29	9.29	0.32	1.06	±12.0%
1750	40.1	1.37	8.46	8.46	8.46	0.41	0.86	±12.0%
1900	40.0	1.40	8.19	8.19	8.19	0.40	0.86	±12.0%
2000	40.0	1.40	8.13	8.13	8.13	0.40	0.86	±12.0%
2450	39.2	1.80	7.94	7.94	7.94	0.39	0.90	±12.0%
2600	39.0	1.96	7.55	7.55	7.55	0.48	0.90	±12.0%
3300	38.2	2.71	6.89	6.89	6.89	0.30	1.35	±14.0%
3500	37.9	2.91	6.63	6.63	6.63	0.30	1.35	±14.0%
3700	37.7	3.12	6.44	6.44	6.44	0.30	1.35	±14.0%
3900	37.5	3.32	6.18	6.18	6.18	0.35	1.60	±14.0%
4100	37.2	3.53	5.95	5.95	5.95	0.35	1.60	±14.0%
5250	35.9	4.71	5.43	5.43	5.43	0.40	1.80	±14.0%
5600	35.5	5.07	4.81	4.81	4.81	0.40	1.80	±14.0%
5750	35.4	5.22	5.05	5.05	5.05	0.40	1.80	±14.0%

C 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, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed 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  $\pm 110$  MHz.

F At frequencies up to 6 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm 10\%$  if liquid compensation formula is applied to measured SAR

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values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

G 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.

#### Parameters of Probe: EX3DV4 - SN:7577

#### Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
6500	34.5	6.07	5.40	5.40	5.40	0.20	2.50	±18.6%

<sup>&</sup>lt;sup>G</sup> Frequency validity at 6.5 GHz is -600/+700 MHz, and  $\pm700$  MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration

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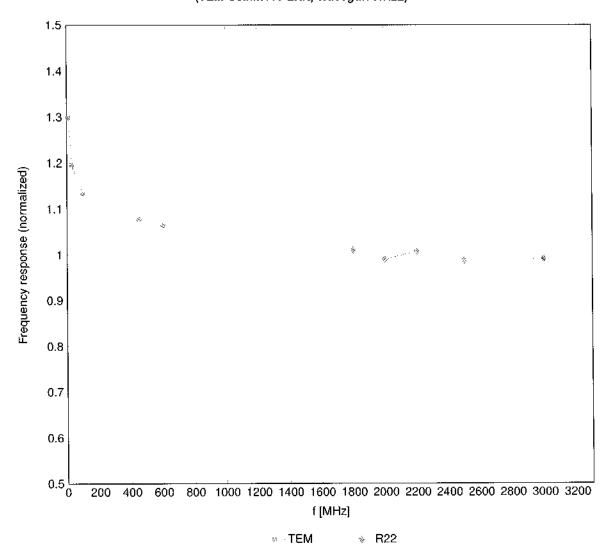
frequency and the uncertainty for the indicated frequency band.

At Irequencies 6–10 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm 10\%$  if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

G 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; below ±2% for frequencies between 3-6 GHz; and below ±4% for frequencies between 6-10 GHz at any distance larger than half the probe tip diameter from the boundary.

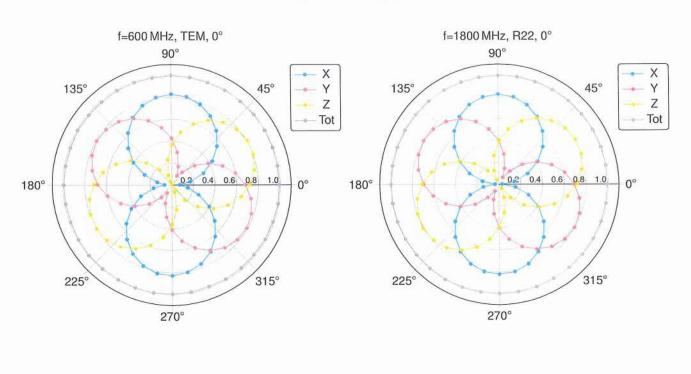
## Frequency Response of E-Field

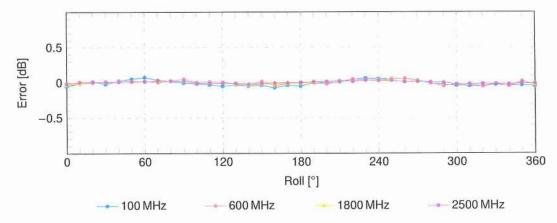
(TEM-Cell:ifi110 EXX, Waveguide:R22)



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

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

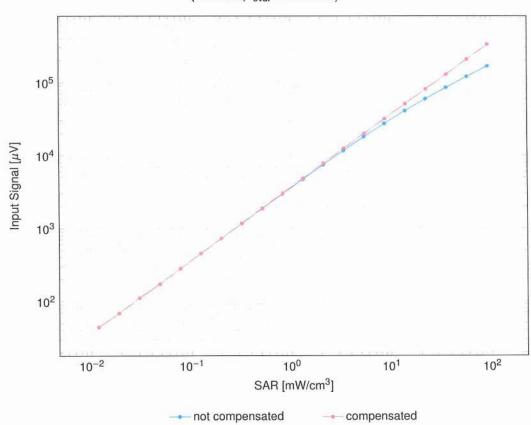


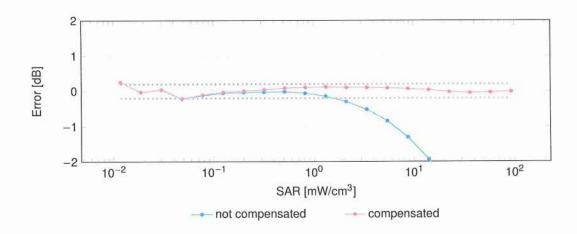


Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

# Dynamic Range f(SAR<sub>head</sub>)

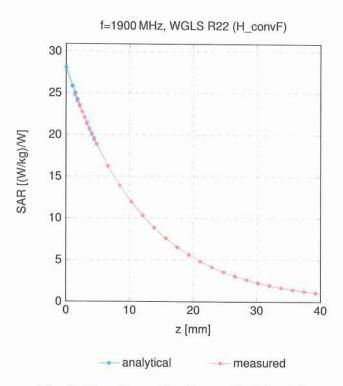
(TEM cell, f<sub>eval</sub> = 1900 MHz)



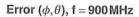


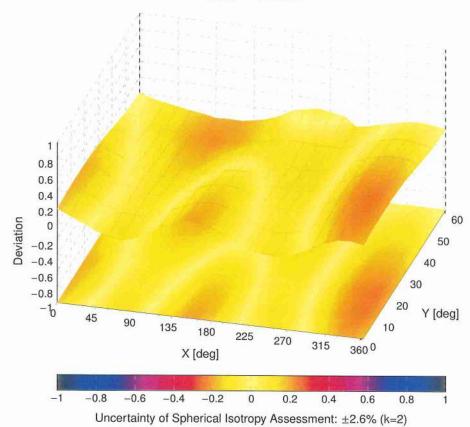
Uncertainty of Linearity Assessment: ±0.6% (k=2)

## **Conversion Factor Assessment**



## **Deviation from Isotropy in Liquid**





# **Appendix: Modulation Calibration Parameters**

0         CW         CW           10010         CAB         SAR Validation (Square, 100 ms, 10 ms)         Test           10011         CAC         UMTS-FDD (WCDMA)         WCDMA           10012         CAB         IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)         WLAN           10013         CAB         IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)         WLAN           10021         DAC         GSM-FDD (TDMA, GMSK)         GSM           10023         DAC         GPRS-FDD (TDMA, GMSK, TN 0)         GSM           10024         DAC         GPRS-FDD (TDMA, GMSK, TN 0-1)         GSM           10025         DAC         EDGE-FDD (TDMA, 8PSK, TN 0)         GSM           10026         DAC         EDGE-FDD (TDMA, 8PSK, TN 0-1)         GSM           10027         DAC         GPRS-FDD (TDMA, GMSK, TN 0-1-2)         GSM	0.00 10.00 2.91 1.87 9.46 9.39 9.57 6.56 12.62 9.55 4.80 3.55 7.78 5.30	#4.7 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10011         CAC         UMTS-FDD (WCDMA)         WCDMA           10012         CAB         IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)         WLAN           10013         CAB         IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)         WLAN           10021         DAC         GSM-FDD (TDMA, GMSK)         GSM           10023         DAC         GPRS-FDD (TDMA, GMSK, TN 0)         GSM           10024         DAC         GPRS-FDD (TDMA, GMSK, TN 0-1)         GSM           10025         DAC         EDGE-FDD (TDMA, 8PSK, TN 0)         GSM           10026         DAC         EDGE-FDD (TDMA, 8PSK, TN 0-1)         GSM           10027         DAC         GPRS-FDD (TDMA, GMSK, TN 0-1-2)         GSM	2.91 1.87 9.46 9.39 9.57 6.56 12.62 9.55 4.80 3.55 7.78	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10012   CAB   IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)   WLAN     10013   CAB   IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)   WLAN     10021   DAC   GSM-FDD (TDMA, GMSK)   GSM     10023   DAC   GPRS-FDD (TDMA, GMSK, TN 0)   GSM     10024   DAC   GPRS-FDD (TDMA, GMSK, TN 0-1)   GSM     10025   DAC   EDGE-FDD (TDMA, 8PSK, TN 0)   GSM     10026   DAC   EDGE-FDD (TDMA, 8PSK, TN 0-1)   GSM     10027   DAC   GPRS-FDD (TDMA, GMSK, TN 0-1-2)   GSM	1.87 9.46 9.39 9.57 6.56 12.62 9.55 4.80 3.55 7.78	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10013         CAB         IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)         WLAN           10021         DAC         GSM-FDD (TDMA, GMSK)         GSM           10023         DAC         GPRS-FDD (TDMA, GMSK, TN 0)         GSM           10024         DAC         GPRS-FDD (TDMA, GMSK, TN 0-1)         GSM           10025         DAC         EDGE-FDD (TDMA, 8PSK, TN 0)         GSM           10026         DAC         EDGE-FDD (TDMA, 8PSK, TN 0-1)         GSM           10027         DAC         GPRS-FDD (TDMA, GMSK, TN 0-1-2)         GSM	9.46 9.39 9.57 6.56 12.62 9.55 4.80 3.55 7.78	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10021         DAC         GSM-FDD (TDMA, GMSK)         GSM           10023         DAC         GPRS-FDD (TDMA, GMSK, TN 0)         GSM           10024         DAC         GPRS-FDD (TDMA, GMSK, TN 0-1)         GSM           10025         DAC         EDGE-FDD (TDMA, 8PSK, TN 0)         GSM           10026         DAC         EDGE-FDD (TDMA, 8PSK, TN 0-1)         GSM           10027         DAC         GPRS-FDD (TDMA, GMSK, TN 0-1-2)         GSM	9.39 9.57 6.56 12.62 9.55 4.80 3.55 7.78	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10023         DAC         GPRS-FDD (TDMA, GMSK, TN 0)         GSM           10024         DAC         GPRS-FDD (TDMA, GMSK, TN 0-1)         GSM           10025         DAC         EDGE-FDD (TDMA, 8PSK, TN 0)         GSM           10026         DAC         EDGE-FDD (TDMA, 8PSK, TN 0-1)         GSM           10027         DAC         GPRS-FDD (TDMA, GMSK, TN 0-1-2)         GSM	9.57 6.56 12.62 9.55 4.80 3.55 7.78	±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10024         DAC         GPRS-FDD (TDMA, GMSK, TN 0-1)         GSM           10025         DAC         EDGE-FDD (TDMA, 8PSK, TN 0)         GSM           10026         DAC         EDGE-FDD (TDMA, 8PSK, TN 0-1)         GSM           10027         DAC         GPRS-FDD (TDMA, GMSK, TN 0-1-2)         GSM	6.56 12.62 9.55 4.80 3.55 7.78	±9.6 ±9.6 ±9.6 ±9.6
10025         DAC         EDGE-FDD (TDMA, 8PSK, TN 0)         GSM           10026         DAC         EDGE-FDD (TDMA, 8PSK, TN 0-1)         GSM           10027         DAC         GPRS-FDD (TDMA, GMSK, TN 0-1-2)         GSM	12.62 9.55 4.80 3.55 7.78	±9.6 ±9.6 ±9.6
10026         DAC         EDGE-FDD (TDMA, 8PSK, TN 0-1)         GSM           10027         DAC         GPRS-FDD (TDMA, GMSK, TN 0-1-2)         GSM	9.55 4.80 3.55 7.78	±9.6
10027 DAC GPRS-FDD (TDMA, GMSK, TN 0-1-2) GSM	4.80 3.55 7.78	±9.6
	3.55 7.78	
	7.78	40.6
10028 DAC   GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)   GSM	1	T3.0
10029 DAC EDGE-FDD (TDMA, 8PSK, TN 0-1-2) GSM	5.30	±9.6
10030 CAA IEEE 802.15.1 Bluetooth (GFSK, DH1) Bluetooth		±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 (PI/4-DQPSK, DH1) Bluetooth	7.74	±9.6
10034 CAA IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3) Bluetooth	4.53	±9.6
10035 CAA IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5) Bluetooth	3.83	±9.6
10036 CAA IEEE 802.15.1 Bluetooth (8-DPSK, DH1) Bluetooth	8.01	±9.6
10037 CAA IEEE 802,15.1 Bluetooth (8-DPSK, DH3) Bluetooth	4.77	±9.6
10038 CAA IEEE 802.15.1 Bluetooth (8-DPSK, DH5) Bluetooth	4.10	±9.6
10039 CAB CDMA2000 (1xRTT, RC1) CDMA2000	4.57	±9.6
10042 CAB IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Haltrate)  AMPS	7.78	±9.6
10044 CAA IS-91/EIA/TIA-553 FDD (FDMA, FM)  AMPS	0.00	±9.6
10048 CAA DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24) DECT	13.80	±9.6
10049 CAA DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)  DECT  TD CODMA	10.79	±9.6
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	±9.6
10059   CAB   IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)   WLAN   10060   CAB   IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)   WLAN	2,12	±9.6 ±9.6
	3,60	±9.6
10061   CAB   IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)   WLAN     10062   CAD   IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)   WLAN	8.68	±9.6
10062 CAD TEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps) WLAN	8.63	±9.6
10063   CAD   TEEE 802.11a/h WiFi 5 GHz (OFDM, 5 Mbps)   WLAN	9.09	±9.6
10064 CAD IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)  WEAN  WEAN	9.00	±9.6
10066 CAD IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) WLAN	9.38	±9.6
10067 CAD IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps) WLAN	10.12	±9.6
10068 CAD IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps) WLAN	10.24	±9.6
10069 CAD IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps) WLAN	10.56	±9.6
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	±9.6
10073 CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) WLAN	9.94	±9.6
10074 CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) WLAN	10.30	±9.6
10075 CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) WLAN	10.77	±9.6
10076 CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) WLAN	10.94	±9.6
10077 CAB 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, PI/4-DQPSK, Fullrate) AMPS	4.77	±9.6
10090 DAC GPRS-FDD (TDMA, GMSK, TN 0-4) GSM	6.56	±9.6
10097 CAC UMTS-FDD (HSDPA) WCDMA	3.98	±9.6
10098 CAC UMTS-FDD (HSUPA, Subtest 2) WCDMA	3.98	±9.6
10099 DAC EDGE-FDD (TDMA, 8PSK, TN 0-4) GSM	9.55	±9.6
10100 CAF LTE-FDD (SC-FDMA, 100% RB, 20MHz, QPSK) LTE-FDD	5.67	±9.6
10101 CAF LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) LTE-FDD	6.42	±9.6
10102 CAF LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) LTE-FDD	6.60	±9.6
10103 CAH LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK) LTE-TDD	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-TDD	10.01	±9.6
10108 CAH LTE-FDD (SC-FDMA, 100% RB, 10MHz, QPSK) LTE-FDD	5.80	±9.6
10109 CAH LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) LTE-FDD	6.43	±9.6
10110 CAH LTE-FDD (SC-FDMA, 100% RB, 5MHz, QPSK) LTE-FDD	5.75	±9.6
10111 CAH LTE-FDD (SC-FDMA, 100% RB, 5MHz, 16-QAM) LTE-FDD	6.44	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> <i>k</i> = 2
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6
10113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10114	CAD	IEEE 802,11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAD	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
10116	CAD	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
10117	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3MHz, QPSK)	LTE-FDD	5.73	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3MHz, 16-QAM)	LTE-FDD	6.35	±9.6
10144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
10149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TOD	10.05	±9.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FOD	5.75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FOD	6.79	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20MHz, QPSK)	LTE-FDD	5.73	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TOD	9.48	±9.6
10174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TOD	10.25	±9.6
10175	CAH		LTE-FDD	5.72	±9.6
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	6.52	±9.6
10178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FOD	5.73	±9.6
10178	CAH	LTE-FDD (SC-FDMA, 1 RB, 10MHz, 16-QAM)	LTE-FDD	6.52 6.50	±9.6
10180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15MHz, QPSK)	LTE-FDD	5.72	±9.6
10182	CAF	LTE-FDD (SC-FDMA, 1 RB, 15MHz, G-GAM)	LTE-FDD	6.52	±9.6
10 183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10 184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK)	LTE-FDD	5.73	±9.6
10 185	ÇAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FOD	6.52	±9.6
10189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10193	CAD	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
10194	CAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6
10195	CAD	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
10196	ÇAD	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
10197	ÇAD	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6
10198	CAD	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6
1 , 2 , 2 2 ,	CAD	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6
10219		IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6
	CAD	TEEE 002:THI (TT MIXED, 40:3 MOPS, 10-QAM)	14 FULA	1 0	
10219	CAD	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6
10219 10220					
10219 10220 10221	CAD	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TOD	9.49	±9.6
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, 64-QAM)	LTE-TDD	10.26	±9.6
10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, QPSK)	LTE-TDD	9.22	±9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10231	ÇAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-TDD	9.21	±9.6
10235	CAH	LTE-TDD (SC-FDMA, 1 R8, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TOD	9.21	±9.6
10238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	9.48	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.21	±9.6
10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, 64-QAM)	LTE-TOD	9.86	±9.6 ±9.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
10248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TOD	10.09	±9.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6
10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6
10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15MHz, 16-QAM)	LTE-TDD	9.90	±9.6
10254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10255 10256	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)  LTE-TDD (SC-FDMA, 100% RB, 1,4 MHz, 16-QAM)	LTE-TDD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6 ±9.6
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, QPSK)	LTE-TDD	9.34	±9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TOD	9.98	±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM)	LTE-TDD	9.97	±9,6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK)	LTE-TDD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-TDD	9.83	±9.6
10263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9.6
10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	±9.6
10267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TOD	9.30	±9.6
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)	LTE-TDD	10.13	±9.6
10270 10274	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK) UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	9.58	±9.6 ±9.6
10274	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
10273	CAA	PHS (QPSK)	PHS	11.81	±9.6
10278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
10279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.6
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6
10298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3MHz, QPSK)	LTE-FDD	5.72	±9.6
10299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300	AAA	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)  IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	LTE-FDD WIMAX	6.60 12.03	±9.6
10301	AAA	IEEE 802.166 WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)  IEEE 802.166 WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WiMAX	12.03	±9.6
10302	AAA	IEEE 802.166 WIMAX (29:16, 516s, 10 MHz, GFSK, PUSC, 3 CTRE symbols)	WiMAX	12.52	±9.6
10303	AAA	IEEE 802.16e WIMAX (31.13, 5115, 10 MHz, 64QAM, 1 0307)	WIMAX	11.86	±9.6
10305	AAA	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	T DAD (4D)	Unc <sup>E</sup> k = 2
10307	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	Group WiMAX	PAR (dB) 14.49	±9.6
10308	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WiMAX	14.46	±9.6
10309	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WiMAX	14.58	±9.6
10310	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WiMAX	14.57	±9.6
10311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15MHz, QPSK)	LTE-FDD	6.06	±9.6
10313	AAA	iDEN 1:3	iDEN	10.51	±9.6
10314	AAA	iDEN 1:6	iDEN	13.48	±9.6
10315	AAB	1EEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10317	AAD	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	±9.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
10400	AAE	IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
10401	AAE	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10402	AAE	IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6
10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1,54	±9.6
10416	AAA	IEEE 802,11g WiFi 2,4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10417	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	±9.6
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.19	±9.6
10422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	±9.6
10423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	±9.6
10424	AAC	1EEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	±9.6
10425	AAC	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6
10426	AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	±9.6
10427	AAC	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6
10430	AAE	LTE-FDD (OFDMA, 5MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6
10432	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10433	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
10435	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	±9.6
10450	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
10451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10453	AAE	Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
10456	AAC	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.6
10457	AAB	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
10460	AAB	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6
10461	AAC	LTE-TOD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.30	±9.6
10463	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10465	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
1.0.00	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10 466		LTE-TDD (SC-FDMA, 1 R8, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
	AAG				
10466	AAG AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10 466 10 467				8.32 8.56	±9.6 ±9.6
10466 10467 10468	AAG AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD		

10472	Rev   AAG AAF AAF AAF	Communication System Name LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Group  LTE-TDD  LTE-TDD	PAR (dB) 8.57 7.82	Unc <sup>E</sup> k = 2 ±9.6
10473	AAF AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)			
10474	AAF AAF		LIE-1DD		
10475  # 10478  # 10479  # 10480  # 10482  # 10483  # 10484  # 104	AAF		LTC TOD		±9.6
10477 A 10478 A 10479 A 10480 A 10481 A 10482 A 10483 A		LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10478 A 10479 A 10480 A 10481 A 10482 A 10483 A 10484 A		LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subirame=2,3,4,7,8,9)	LTE-TDD	8.57 8.32	±9.6
10479 / 10480 / 10481 / 10482 / 10483 / 10484 /	AAG	LTE-TDD (SC-FDMA, 1 RB, 20MHz, 16-QAW, 0L Subirame=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10480	AAC	LTE-TDD (SC-FDMA, 1 RB, 20MHz, 64-QAM, 0L Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10481 / 10482 / 10483 / 10484 /	AAC	LTE-TDD (SG-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)			±9.6
10482 / 10483 / 10484 /	AAC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LTE-TDD	8.18 8.45	±9.6
10483 A	AAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UE Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.71	±9.6
10484 A	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	±9.6 ±9.6
	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10400   7	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	±9.6
	AAG	LTE-TDD (SC-FDMA, 50% RB, 5MHz, GFSR, 0L Subtraine=2,3,4,7,8,9)	LTE-TDD	8.38	±9.6
	AAG	LTE-TDD (SC-FDMA, 50% RB, 5MHz, 64-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TOD	8.60	±9.6
	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,6,9)	LTE-TOD	7.70	±9.6
	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8,31	±9.6
	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
	AAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
	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
	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, 0.C Subtraine=2,3,4,7,8,9)	LTE-TOD	8.55	±9.6 ±9.6
	AAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAWI, 0L Subframe=2,3,4,7,8,9)	LTE-TOD	7.74	±9.6
	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6
	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
1	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6
	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,6,9)	LTE-TOD	8.68	±9.6
	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.67	±9.6
	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6
	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	±9.6
	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6
	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
-	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.74	±9.6
	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
	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDO	7.99	±9.6
	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subirame=2,3,4,7,8,9)	LTE-TDD	8.49	±9.6
	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	±9.6
	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	±9.6
	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
	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duly cycle)	WLAN	1.57	±9.6
	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6
	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6
	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9.6
	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.36	±9.6
	AAC	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.6
	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6
	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	±9.6
·——	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.36	±9.6
	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.43	±9.6
	AAC	IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.6
	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	±9.6
	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.6
	AAC	IEEE 802,11ac WiFi (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6
	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
	AAC	IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.54	±9.6
	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.39	±9.6

UID	Rev	Communication System Name	C	DAD (4D)	Unc <sup>E</sup> k = 2
10541	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	Group WLAN	PAR (dB) 8,46	±9.6
10542	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duly cycle)	WLAN	8.65	±9.6
10543	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
10544	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duly cycle)	WLAN	8.47	±9.6
10545	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10546	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
10547	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9,6
10548	AAC	IEEE 802,11ac WiFi (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
10550	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
10551	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6
10552	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.6
10553	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duly cycle)	WLAN	8.45	±9.6
10554	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
10555	AAD	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
10556	AAD	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
10557	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.6
10558	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.61	±9.6
10560	AAD	IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9.6
10561	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duly cycle)	WLAN	8.56	±9.6
10562	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duly cycle)	WLAN	8.69	±9.6
10563	AAD	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10566	AAA	IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568	AAA	IEEE 802,11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1,99	±9.6
10572	AAA	IEEE 802.11b WiFi 2,4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10573	AAA	IEEE 802.116 WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10575	AAA	IEEE 802,11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mops, 90pc duty cycle)	WLAN	8.60	±9.6
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
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
10583	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10584	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10585	AAC	IEEE 802.11a/h WiFl 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10586	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10587	AAC	IEEE 802,11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10588	AAC	IEEE 802.11a/h WIFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10589	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN	8.35 8.67	±9.6
10590	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duly cycle)	WLAN		±9.6
10591	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63 8.79	±9.6 ±9.6
10592	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle) IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6
10593	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.74	±9.6
10594	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, supe duty cycle)  IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
10595	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.71	±9.6
10596	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6
10597	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.50	±9.6
10599	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
10600		IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10601	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6
10602	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6
10602	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
10604		IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	8.76	±9.6
		IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6
10605		IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
		IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN WLAN	8.82 8.64	±9.6 ±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10609	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
10610	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
10611	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAC	IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10613	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6
10614	AAC	IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duly cycle)	WLAN	8.59	±9.6
10615	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duly cycle)	WLAN	8.82	±9.6
10616	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10618	AAC	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
10620	AAC	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAC	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duly cycle)	WLAN	8.77	±9.6
10622	AAC	IEEE 802.11ac WIFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
10623	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10624	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6
10625	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6
10626	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10627	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10628	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9.6
10629	AAC	IEEE 802,11ac WiFi (80 MHz, MCS3, 90pc duly cycle)	WLAN	8.85	±9.6
10630	AAC	IEEE 802.11ac WIFi (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
10631	AAC	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6
10632	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10633	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6
10634	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6
10635	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6
10636	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10637	AAD	IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10638	AAD	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6
10639	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10640	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6
10641	AAD	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6
10642	AAD	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAD	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-TDD	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20MHz, QPSK, UL Subtrame=2,7)	LTE-TOD	11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	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	±9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
10670	AAA	Bluetooth Low Energy	Bluelooth	2.19	±9.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
10676	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10678		IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10679		IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680		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 duly cycle)	WLAN	8.83	±9.6
	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duly cycle)	WLAN	8.42	±9.6
10683		LIEFE 900 44 ov (20 MUz. MCC4, 20pp duly godo)	WLAN	1 0.56	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duly cycle)		8.26	<del></del> -
	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)  IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.33 8.28	±9.6 ±9.6

OIU	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
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
10690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10691	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
10692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
10694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6
10695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6
10696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
10697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6
10698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
10699	AAC	IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.82	±9.6
10700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
10701	AAC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6
10702	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6
10703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
10705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6
10706	AAC	IEEE 802,11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±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	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duly 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	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
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 duly cycle)	WLAN	8.74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duly cycle)	WLAN	8.72	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc duly cycle)	WLAN	8.65	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6
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	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN WLAN	8.40	±9.6
10734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.25	±9.6
10736	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33 8.27	±9.6 ±9.6
10736	AAC	IEEE 802.11ax (80 MHz, MCSS, 99pc duty cycle)	WLAN	8.27	±9.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duly cycle)	WLAN	8.48	±9.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
10741	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
10742	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6
10744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6
10745	AAC	IEEE 802.11ax (160 MHz, MCS1, 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	±9.6
10748	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc duly cycle)	WLAN	8.93	±9.6
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6
10751	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10752	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duly cycle)	WLAN	8.81	±9.6
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UID 10759	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10753 10754	AAC AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6
10755	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN WLAN	8.94	±9.6
10756	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.64 8.77	±9.6
10757	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duly cycle)	WLAN	8.77	±9.6 ±9.6
10757	AAC		WLAN	8.69	±9.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)			
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN WLAN	8.58 8.49	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCSS, 99pc duty cycle)	WLAN	8.58	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8,49	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
10765	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
10767	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10771	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10771	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
10772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 KHz)	5G NR FR1 TDD	8.03	±9.6
10773	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10775	AAD	5G NR (CP-OFDM, 50% RB, 5MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10776	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10778	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	±9.6
107780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10781	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TOD	8.38	±9.6
10782	AAD	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
10783	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10784	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	±9.6
10785	AAD	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.6
10786	AAD	5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10788	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10789	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	±9.6
10790	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10791	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
10794	AAD	5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7,82	±9.6
10795	AAD	5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10797	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10798	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10799	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	7.93	±9.6
10801	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10802	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
10803	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10805	AAD	5G NR (CP-OFDM, 50% RB, 10MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TOD		±9.6
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10817	AAE	5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, CPSK, 30 kHz)	5G NR FR1 TDD		±9.6
	AAD	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10819		5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	±9.6
	AAD				
10819		5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TOD		±9.6
10819 10820	AAD			8.41	±9.6 ±9.6
10819 10820 10821 10822	AAD AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41 8.41	
10819 10820 10821	AAD AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.41 8.41 8.36	±9.6
10819 10820 10821 10822 10823	AAD AAD AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD	8.41 8.41 8.36 8.39	±9.6 ±9.6
10819 10820 10821 10822 10823 10824	AAD AAD AAD AAD AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD	8.41 8.41 8.36 8.39 8.41	±9.6 ±9.6 ±9.6

1982  AAD   SAN RCP-OFEM, 1994, R. 10MHL, OPSK, 80 HH2    50 MR FRI TOD   7-63   19.5   19.	UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> $k=2$
1889   AAD   SO NR (CP-OFDM, 1 RB, 10MHz, CPSK, 80 MHz)						
16822   ADD   SO NR (CP-OFDM, 1 RB, 20MHL, OPSK, 80 MHz)	10830	AAD				±9.6
10828  AAD   SAIR (PCPOTM I RP. 25MH, OPEK, 60 Hb)   SAIR (RF TTO)   7.70   \$.9.5	10831	AAD	5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.6
1835  AAD   SG NR (CP-CPEM, 18, 30MHz, CPSK, 60 MHz)	10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	±9.6
1838   AAD   SG NR (CP-OPEM, IR 8, 00MHz, OPEK, 60 MHz)   SG NR FRI TIDD   7.70   ±9.6	10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
1938   AAD   SS NR (CP-OFDM, 185, 00Hbc, 095K, 60 Hbc)	10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	±9.6
1982   ADD   SG NR (CP-CPEM, 18, 00 MHz, 0PSK, 00 MHz)	10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
1888   ADD   SG NR (CP-OFEM, 1 RB, SOMH-C, OFSK, 60 H/Hz)	10836	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	±9.6
1984   ADJ   SG NR (CP-OFEM, 1 RB, 50 MHz, OPSK, 60 MHz)	10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	±9.6
1984   ADD   SG NR (CP-OFDM, 198, 1904Hz, OPSK, 69 Mz)   59 GM FR 17DD   771   45.9		AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD		±9.6
1984   ADD   SO NR (CP-OFONS 50% RS 15MHz, OPSK, 60 MHz)						
1984   ADS   SO NR (CP-OFEM, 50% R. 8), 20MHz, OPSK, 60 MHz			· · · · · · · · · · · · · · · · · · ·			
1986   ADD   SO NR (ICP-OFDM, 509% RB, 30 MHz, OFSK, 60 MHz)						
1885   AAD   SO NR (CP-CPEM, 100% RB, 10MHz, CPSK, 60 MHz)						
10855   AAD   SO NR (CP-DEPM, 100% RB, 15MHz, OPSK, 60 kHz)   SG NR FRI TDO   6.37   4.96   10857   AAD   SG NR (CP-DEPM, 100% RB, 20MHz, OPSK, 60 kHz)   SG NR FRI TDO   6.35   4.96   10855   AAD   SG NR (CP-DEPM, 100% RB, 20MHz, OPSK, 60 kHz)   SG NR FRI TDO   6.36   4.96   10859   AAD   SG NR (CP-DEPM, 100% RB, 30 kHz, OPSK, 60 kHz)   SG NR FRI TDO   6.36   4.96   10859   AAD   SG NR (CP-DEPM, 100% RB, 30 kHz, OPSK, 60 kHz)   SG NR FRI TDO   8.34   4.98   10863   AAD   SG NR (CP-DEPM, 100% RB, 30 kHz, OPSK, 60 kHz)   SG NR FRI TDO   8.40   4.98   10863   AAD   SG NR (CP-DEPM, 100% RB, 30 kHz, OPSK, 60 kHz)   SG NR FRI TDO   8.40   4.98   10863   AAD   SG NR (CP-DEPM, 100% RB, 30 kHz, OPSK, 60 kHz)   SG NR FRI TDO   8.40   4.98   10863   AAD   SG NR (CP-DEPM, 100% RB, 30 kHz, OPSK, 60 kHz)   SG NR FRI TDO   8.41   4.86   10863   AAD   SG NR (CP-DEPM, 100% RB, 30 kHz, OPSK, 60 kHz)   SG NR FRI TDO   8.41   4.96   10864   AAD   SG NR (CP-DEPM, 100% RB, 30 kHz, OPSK, 60 kHz)   SG NR FRI TDO   8.41   4.96   10866   AAD   SG NR (CP-DEPM, 100% RB, 100 kHz, OPSK, 50 kHz)   SG NR FRI TDO   8.41   4.96   10866   AAD   SG NR (CP-DEPM, 100% RB, 100 kHz, OPSK, 50 kHz)   SG NR FRI TDO   8.41   4.96   10866   AAD   SG NR (CP-DEPM, 100% RB, 100 kHz, OPSK, 50 kHz)   SG NR FRI TDO   8.46   4.96   8.96						
10885   AAD   SO NR (CP-OFDM, 100% RB, 20MHz, OPSK, 60 kHz)   SO NR FRI TDD   8.37   4.8						
19856   AAD   5G NR (CP-CPDM, 100% RB, 25MHz, CPSK, 60 MHz)   5G NR FRT TOD   8.36   49.6   19858   AAD   5G NR (CP-CPDM, 100% RB, 40MHz, CPSK, 60 MHz)   5G NR FRT TOD   8.34   49.6   19851   AAD   5G NR (CP-CPDM, 100% RB, 50 MHz, CPSK, 60 MHz)   5G NR FRT TOD   8.41   49.6   19851   AAD   5G NR (CP-CPDM, 100% RB, 50 MHz, CPSK, 60 MHz)   5G NR FRT TOD   8.40   49.6   19853   AAD   5G NR (CP-CPDM, 100% RB, 50 MHz, CPSK, 60 MHz)   5G NR FRT TOD   8.41   49.6   19853   AAD   5G NR (CP-CPDM, 100% RB, 50 MHz, CPSK, 60 MHz)   5G NR FRT TOD   8.40   49.6   19853   AAD   5G NR (CP-CPDM, 100% RB, 50 MHz, CPSK, 60 MHz)   5G NR FRT TOD   8.41   49.6   19853   AAD   5G NR (CP-CPDM, 100% RB, 50 MHz, CPSK, 60 MHz)   5G NR FRT TOD   8.47   49.6   19853   AAD   5G NR (CPC-CPDM, 100% RB, 100 MHz, CPSK, 60 MHz)   5G NR FRT TOD   8.47   49.6   19856   AAD   5G NR (CPC-CPDM, 100% RB, 100 MHz, CPSK, 60 MHz)   5G NR FRT TOD   5.80   49.6   19856   AAD   5G NR (CPT-CPDM, 100% RB, 100 MHz, CPSK, 50 MHz)   5G NR FRT TOD   5.80   49.6   19856   AAD   5G NR (CPT-CPDM, 100% RB, 100 MHz, CPSK, 50 MHz)   5G NR FRT TOD   5.80   49.6   19856   AAD   5G NR (CPT-CPDM, 100% RB, 100 MHz, CPSK, 50 MHz)   5G NR FRT TOD   5.75   49.6   19856   AAD   5G NR (CPT-CPDM, 100% RB, 100 MHz, CPSK, 50 MHz)   5G NR FRT TOD   5.75   49.6   19856   AAD   5G NR (CPT-CPDM, 100% RB, 100 MHz, CPSK, 100 MHz)   5G NR FRT TOD   5.75   49.6   19857   AAE   5G NR (CPT-CPDM, 100% RB, 100 MHz, 10						
1985   AAD   SG NR (CP-OFDM, 100% RB, 20MHz, OPSK, 60 MHz)						
19859   AAD   SG NR (CP-CFOM, 100% RB, 40MHz, CPSK, 60 MHz)   SG NR FR1 TDD   8.41   ±9.6						
1986   AAD   SG NR (CP-CPM, 109% RB, 50MHz, CPSK, 60 Hz)   SG NR FRI TDD   8.41   ±9.6   ±9.6   10861   AAD   SG NR (CP-CPDM, 109% RB, 50MHz, CPSK, 60 Hz)   SG NR FRI TDD   8.41   ±9.8   10864   AAD   SG NR (CP-CPDM, 109% RB, 50MHz, CPSK, 60 Hz)   SG NR FRI TDD   8.41   ±9.8   10864   AAD   SG NR (CP-CPDM, 109% RB, 50MHz, CPSK, 60 Hz)   SG NR FRI TDD   8.41   ±9.8   10866   AAD   SG NR (CP-CPDM, 109% RB, 50MHz, CPSK, 60 Hz)   SG NR FRI TDD   8.41   ±9.8   10866   AAD   SG NR (CP-CPDM, 109% RB, 50MHz, CPSK, 50 Hz)   SG NR FRI TDD   5.88   ±9.6   10868   AAD   SG NR (CPT-CPDM, 109% RB, 100MHz, CPSK, 50 Hz)   SG NR FRI TDD   5.88   ±9.6   10868   AAD   SG NR (CPT-CPDM, 109% RB, 100MHz, CPSK, 30 Hz)   SG NR FRI TDD   5.89   ±9.6   10868   AAD   SG NR (CPT-CPDM, 109% RB, 100MHz, CPSK, 109 Hz)   SG NR FRI TDD   5.75   ±9.8   10872   AAE   SG NR (CPT-CPDM, 109% RB, 100MHz, CPSK, 109 Hz)   SG NR FRI TDD   5.75   ±9.8   10872   AAE   SG NR (CPT-CPDM, 109% RB, 100MHz, 160AM, 120 Hz)   SG NR FRI TDD   5.75   ±9.8   10872   AAE   SG NR (CPT-CPDM, 109% RB, 100MHz, 160AM, 120 Hz)   SG NR FRZ TDD   5.75   ±9.8   10872   AAE   SG NR (CPT-CPDM, 109% RB, 100MHz, 160AM, 120 Hz)   SG NR FRZ TDD   5.75   ±9.8   10872   AAE   SG NR (CPT-CPDM, 109% RB, 100MHz, 160AM, 120 Hz)   SG NR FRZ TDD   5.75   ±9.8   10872   AAE   SG NR (CPT-CPDM, 109% RB, 100MHz, 160AM, 120 Hz)   SG NR FRZ TDD   6.52   ±9.6   10873   AAE   SG NR (CPT-CPDM, 109% RB, 100MHz, 160AM, 120 Hz)   SG NR FRZ TDD   6.52   ±9.6   10873   AAE   SG NR (CPT-CPDM, 109% RB, 100MHz, 60AM, 120 Hz)   SG NR FRZ TDD   6.52   ±9.6   10873   AAE   SG NR (CPT-CPDM, 109% RB, 100MHz, 60AM, 120 Hz)   SG NR FRZ TDD   6.52   ±9.6   10873   AAE   SG NR (CPT-CPDM, 109% RB, 100MHz, 60AM, 120 Hz)   SG NR FRZ TDD   6.53   ±9.6   10873   AAE   SG NR (CPT-CPDM, 109% RB, 100MHz, 60AM, 120 Hz)   SG NR FRZ TDD   6.75   ±9.6   10873   AAE   SG NR (CPT-CPDM, 109% RB, 100MHz, 100AM, 120 Hz)   SG NR FRZ TDD   6.75   ±9.6   10887   AAE   SG NR (CPT-CPDM, 109% RB, 50MHz, CPSK, 120 Hz)   SG NR FRZ TDD						
1986   AAD   SG NR (CP-OFDM, 100% RB, 80MHz, CPSK, 80 Hz)   SG NR FR1 TDD   8.40   \$9.6						
10864   AAD   SG NR (CP-OFDM, 100% RB, 90MHz, CPSK, 60 Hz)   SG NR FR1 TDD   8.41   9.6   10865   AAD   SG NR (CP-OFDM, 100% RB, 90MHz, CPSK, 50 Hz)   SG NR FR1 TDD   8.37   9.8   10866   AAD   SG NR (CP-OFDM, 100% RB, 90MHz, CPSK, 50 Hz)   SG NR FR1 TDD   5.68   9.6   10866   AAD   SG NR (CPT-S-OFDM, 100% RB, 100MHz, CPSK, 30 Hz)   SG NR FR1 TDD   5.68   9.6   10868   AAD   SG NR (CPT-S-OFDM, 198 RB, 100MHz, CPSK, 30 Hz)   SG NR FR1 TDD   5.69   9.9   9.9   10868   AAD   SG NR (CPT-S-OFDM, 198 RB, 100MHz, CPSK, 120 Hz)   SG NR FR1 TDD   5.75   9.9   9.9   10870   AAE   SG NR (CPT-S-OFDM, 178 RB, 100MHz, CPSK, 120 Hz)   SG NR FR2 TDD   5.75   9.9   9.9   10870   AAE   SG NR (CPT-S-OFDM, 178 RB, 100MHz, CPSK, 120 Hz)   SG NR FR2 TDD   5.75   9.9   9.9   10871   AAE   SG NR (CPT-S-OFDM, 178 RB, 100MHz, 100 Hz)   SG NR FR2 TDD   5.75   9.9   10872   AAE   SG NR (CPT-S-OFDM, 178 RB, 100 MHz, 100 Hz)   SG NR FR2 TDD   5.75   9.9   10872   AAE   SG NR (CPT-S-OFDM, 178 RB, 100 MHz, 100 Hz)   SG NR FR2 TDD   5.75   9.9   10873   AAE   SG NR (CPT-S-OFDM, 178 RB, 100 MHz, 100 Hz)   SG NR FR2 TDD   6.52   9.9   10876   AAE   SG NR (CPT-S-OFDM, 178 RB, 100 MHz, 100 Hz)   SG NR FR2 TDD   6.52   9.9   10876   AAE   SG NR (CPT-S-OFDM, 178 RB, 100 MHz, 100 Hz)   SG NR FR2 TDD   6.65   9.9   10876   AAE   SG NR (CPT-S-OFDM, 178 RB, 100 MHz, 100 Hz)   SG NR FR2 TDD   6.65   9.9   10876   AAE   SG NR (CPT-OFDM, 178 RB, 100 MHz, 100 Hz)   SG NR FR2 TDD   7.95   9.9   10876   AAE   SG NR (CPT-OFDM, 178 RB, 100 MHz, 100 Mz)   SG NR FR2 TDD   7.95   9.9   10876   AAE   SG NR (CPT-OFDM, 178 RB, 100 MHz, 100 Mz)   SG NR FR2 TDD   7.95   9.9   10876   AAE   SG NR (CPT-OFDM, 178 RB, 100 MHz, 100 Mz)   SG NR FR2 TDD   7.95   9.9   10876   AAE   SG NR (CPT-OFDM, 178 RB, 100 MHz, 100 Mz)   SG NR FR2 TDD   7.95   9.9   10876   AAE   SG NR (CPT-OFDM, 100 NR RB, 100 MHz, 100 Mz)   SG NR FR2 TDD   8.19   9.9   10876   AAE   SG NR (CPT-OFDM, 100 NR RB, 100 MHz, 100 Mz)   SG NR FR2 TDD   8.19   9.9   10876   AAE   SG NR (CPT-OFDM, 100 NR RB, 50						
10865   AAD   SG NR (CP-OFDM, 100% RB, 90MHz, CPSK, 60 kHz)   SG NR FRI TDD   8.47   ±9.6     10865   AAD   SG NR (CP-OFDM, 100% RB, 100MHz, CPSK, 80 kHz)   SG NR FRI TDD   S.68   ±9.6     10868   AAD   SG NR (DFTs-OFDM, 18, 100MHz, CPSK, 80 kHz)   SG NR FRI TDD   S.69   ±9.6     10868   AAD   SG NR (DFTs-OFDM, 18, 100MHz, CPSK, 100 kHz)   SG NR FRI TDD   S.69   ±9.6     10870   AAE   SG NR (DFTs-OFDM, 100% RB, 100MHz, CPSK, 120 kHz)   SG NR FRI TDD   S.69   ±9.6     10870   AAE   SG NR (DFTs-OFDM, 18, 100 MHz, CPSK, 120 kHz)   SG NR FRI TDD   S.68   ±9.6     10871   AAE   SG NR (DFTs-OFDM, 17, 18, 100 MHz, CPSK, 120 kHz)   SG NR FRI TDD   S.68   ±9.6     10872   AAE   SG NR (DFTs-OFDM, 17, 18, 100 MHz, CPSK, 120 kHz)   SG NR FRI TDD   S.68   ±9.6     10873   AAE   SG NR (DFTs-OFDM, 17, 18, 100 MHz, SG AUAN, 120 kHz)   SG NR FRI TDD   S.62   ±9.8     10873   AAE   SG NR (DFTs-OFDM, 17, 18, 100 MHz, SG AUAN, 120 kHz)   SG NR FRI TDD   S.62   ±9.8     10873   AAE   SG NR (DFTs-OFDM, 17, 18, 100 MHz, SG AUAN, 120 kHz)   SG NR FRI TDD   S.65   ±9.6     10873   AAE   SG NR (DFTs-OFDM, 100% RB, 100 MHz, SG AUAN, 120 kHz)   SG NR FRI TDD   S.65   ±9.6     10873   AAE   SG NR (DFTS-OFDM, 100% RB, 100 MHz, SG AUAN, 120 kHz)   SG NR FRI TDD   S.65   ±9.6     10873   AAE   SG NR (CP-OFDM, 17, 18, 100 MHz, SG AUAN, 120 kHz)   SG NR FRI TDD   S.65   ±9.6     10874   AAE   SG NR (CP-OFDM, 100% RB, 100 MHz, SG AUAN, 120 kHz)   SG NR FRI TDD   S.93   ±9.6     10875   AAE   SG NR (CP-OFDM, 100% RB, 100 MHz, SG AUAN, 120 kHz)   SG NR FRI TDD   S.93   ±9.6     10876   AAE   SG NR (CP-OFDM, 100% RB, 100 MHz, SG AUAN, 120 kHz)   SG NR FRI TDD   S.93   ±9.6     10876   AAE   SG NR (CP-OFDM, 100% RB, 100 MHz, SG AUAN, 120 kHz)   SG NR FRI TDD   S.93   ±9.6     10880   AAE   SG NR (CP-OFDM, 100% RB, 100 MHz, SG AUAN, 120 kHz)   SG NR FRI TDD   S.93   ±9.6     10880   AAE   SG NR (CP-OFDM, 100% RB, 100 MHz, SG AUAN, 120 kHz)   SG NR FRI TDD   S.93   ±9.6     10880   AAE   SG NR (CP-OFDM, 100% RB, 50 MHz, SG AUAN, 120 kHz)   SG NR FRI						
10865   AAD   SG NR (OP-CFDM, 100% RB, 100MHz, QPSK, 30 kHz)   SG NR FRI TDD   S. 8.4   \$6.6   10866   AAD   SG NR (OFTS-OFDM, 1 RB, 100MHz, QPSK, 30 kHz)   SG NR FRI TDD   S. 8.9   \$9.6   10886   AAD   SG NR (OFTS-OFDM, 100% RB, 100MHz, QPSK, 30 kHz)   SG NR FRI TDD   S. 8.9   \$9.6   10886   AAE   SG NR (OFTS-OFDM, 100% RB, 100MHz, QPSK, 120 kHz)   SG NR FRI TDD   S. 7.5   \$9.6   10870   AAE   SG NR (OFTS-OFDM, 100% RB, 100MHz, QPSK, 120 kHz)   SG NR FRI TDD   S. 8.8   \$9.6   10871   AAE   SG NR (OFTS-OFDM, 100% RB, 100MHz, 160AM, 120 kHz)   SG NR FRI TDD   S. 7.5   \$9.6   10872   AAE   SG NR (OFTS-OFDM, 100% RB, 100MHz, 160AM, 120 kHz)   SG NR FRI TDD   S. 7.5   \$9.6   10872   AAE   SG NR (OFTS-OFDM, 178 R, 100MHz, 160AM, 120 kHz)   SG NR FRI TDD   S. 7.5   \$9.6   10873   AAE   SG NR (OFTS-OFDM, 178 R, 100MHz, 160AM, 120 kHz)   SG NR FRI TDD   S. 8.5   \$9.6   10874   AAE   SG NR (OFTS-OFDM, 178 R, 100MHz, 0FSK, 120 kHz)   SG NR FRI TDD   S. 8.5   \$9.6   10875   AAE   SG NR (OFTS-OFDM, 178 R, 100MHz, 0FSK, 120 kHz)   SG NR FRI TDD   S. 8.5   \$9.6   10876   AAE   SG NR (OFTS-OFDM, 178 R, 100MHz, 0FSK, 120 kHz)   SG NR FRI TDD   S. 8.5   \$9.6   10875   AAE   SG NR (OFTS-OFDM, 178 R, 100MHz, 0FSK, 120 kHz)   SG NR FRI TDD   S. 8.5   \$9.6   10875   AAE   SG NR (OF-OFDM, 178 R, 100MHz, 0FSK, 120 kHz)   SG NR FRI TDD   S. 8.3   \$9.6   10877   AAE   SG NR (OF-OFDM, 178 R, 100MHz, 0FSK, 120 kHz)   SG NR FRI TDD   S. 8.3   \$9.6   10878   AAE   SG NR (OF-OFDM, 178 R, 100MHz, 0FSK, 120 kHz)   SG NR FRI TDD   S. 12 9.6   10882   AAE   SG NR (OF-OFDM, 178 R, 100MHz, 0FSK, 120 kHz)   SG NR FRI TDD   S. 12 9.6   10882   AAE   SG NR (OF-OFDM, 178 R, 100MHz, 0FSK, 120 kHz)   SG NR FRI TDD   S. 12 9.6   10882   AAE   SG NR (OF-OFDM, 178 R, 100MHz, 0FSK, 120 kHz)   SG NR FRI TDD   S. 18 9.8   9.8			(			
10868   AAD   SG NR (DFTs-OFDM, 198, 100MHz, OPSK, 30 Hz)   SG NR FRI TDD   5.88   ±9.6   10868   AAD   SG NR (DFTs-OFDM, 100% RB, 100MHz, OPSK, 30 Hz)   SG NR FRI TDD   5.89   ±9.6   10860   AAE   SG NR (DFTs-OFDM, 188, 100MHz, OPSK, 120 Hz)   SG NR FRI TDD   5.75   ±9.6   10870   AAE   SG NR (DFTs-OFDM, 188, 100MHz, OPSK, 120 Hz)   SG NR FRI TDD   5.86   ±9.6   10870   AAE   SG NR (DFTs-OFDM, 188, 100MHz, OPSK, 120 Hz)   SG NR FRI TDD   5.86   ±9.6   10872   AAE   SG NR (DFTs-OFDM, 188, 100MHz, 160AM, 120 Hz)   SG NR FRI TDD   6.52   ±9.8   10873   AAE   SG NR (DFTs-OFDM, 178, 100MHz, 160AM, 120 Hz)   SG NR FRI TDD   6.52   ±9.8   10873   AAE   SG NR (DFTs-OFDM, 178, 100MHz, 160AM, 120 Hz)   SG NR FRI TDD   6.52   ±9.8   10873   AAE   SG NR (DFTs-OFDM, 178, 100MHz, 160AM, 120 Hz)   SG NR FRI TDD   6.51   ±9.6   10875   AAE   SG NR (DFT-OFDM, 100% RB, 100MHz, 160AM, 120 Hz)   SG NR FRI TDD   7.76   ±9.6   10877   AAE   SG NR (CP-OFDM, 100% RB, 100MHz, 100AM, 120 Hz)   SG NR FRI TDD   7.76   ±9.6   10877   AAE   SG NR (CP-OFDM, 100% RB, 100MHz, 160AM, 120 Hz)   SG NR FRI TDD   7.76   ±9.6   10877   AAE   SG NR (CP-OFDM, 100% RB, 100MHz, 160AM, 120 Hz)   SG NR FRI TDD   7.95   19.8   10878   AAE   SG NR (CP-OFDM, 100% RB, 100MHz, 160AM, 120 Hz)   SG NR FRI TDD   7.95   19.8   10878   AAE   SG NR (CP-OFDM, 178, 100MHz, 100AM, 120 Hz)   SG NR FRI TDD   8.41   ±9.6   10879   AAE   SG NR (CP-OFDM, 178, 100MHz, 100AM, 120 Hz)   SG NR FRI TDD   8.41   ±9.6   10879   AAE   SG NR (CP-OFDM, 178, 100MHz, 100AM, 120 Hz)   SG NR FRI TDD   8.12   ±9.6   10883   AAE   SG NR (DFTs-OFDM, 178, 50MHz, 100KHz, 100AM, 120 Hz)   SG NR FRI TDD   8.12   ±9.6   10883   AAE   SG NR (DFTs-OFDM, 178, 50MHz, 100KHz, 100KHz)   SG NR FRI TDD   5.96   ±9.8   10883   AAE   SG NR (DFTs-OFDM, 178, 50MHz, 100KHz, 100KHz)   SG NR FRI TDD   5.96   ±9.8   10884   AAE   SG NR (DFTs-OFDM, 178, 50MHz, 100KHz, 100KHz)   SG NR FRI TDD   5.96   ±9.8   10883   AAE   SG NR (DFTs-OFDM, 178, 50MHz, 100KHz, 100KHz)   SG NR FRI TDD   5.96   ±9.8   10883   AAE		1				
10868   AAD   SG NR (DFTs-OFDM, 109% RB, 100MHz, OPSK, 20 Hzt)   SG NR FRI TDD   5.89   ±9.6   10870   AAE   SG NR (DFTs-OFDM, 1 RB, 100 MHz, OPSK, 120 Hzt)   SG NR FRZ TDD   5.75   ±9.6   10871   AAE   SG NR (DFTs-OFDM, 1 RB, 100 MHz, OPSK, 120 Hzt)   SG NR FRZ TDD   5.75   ±9.6   10871   AAE   SG NR (DFTs-OFDM, 109% RB, 100MHz, OPSK, 120 Hzt)   SG NR FRZ TDD   5.75   ±9.6   10872   AAE   SG NR (DFTs-OFDM, 1 RB, 100 MHz, 160 AM, 120 Hzt)   SG NR FRZ TDD   5.75   ±9.6   10873   AAE   SG NR (DFTs-OFDM, 1 RB, 100 MHz, 160 AM, 120 Hzt)   SG NR FRZ TDD   6.52   ±9.6   10873   AAE   SG NR (DFTs-OFDM, 100% RB, 100 MHz, 040 AM, 120 Hzt)   SG NR FRZ TDD   6.61   ±9.6   10874   AAE   SG NR (DFTs-OFDM, 100% RB, 100 MHz, 040 AM, 120 Hzt)   SG NR FRZ TDD   6.65   ±9.6   10876   AAE   SG NR (DFTs-OFDM, 100% RB, 100 MHz, 040 AM, 120 Hzt)   SG NR FRZ TDD   7.76   ±9.6   10876   AAE   SG NR (DFD-OFDM, 1 RB, 100 MHz, 040 AM, 120 Hzt)   SG NR FRZ TDD   7.78   ±9.6   10876   AAE   SG NR (DFD-OFDM, 1 RB, 100 MHz, 040 AM, 120 Hzt)   SG NR FRZ TDD   7.78   ±9.6   10877   AAE   SG NR (DFD-OFDM, 100 MHz, 040 AM, 120 Hzt)   SG NR FRZ TDD   7.78   ±9.6   10878   AAE   SG NR (DFD-OFDM, 100 MHz, 100 AM, 120 Hzt)   SG NR FRZ TDD   7.79   ±9.6   10878   AAE   SG NR (DFD-OFDM, 100 MHz, 100 AM, 120 Hzt)   SG NR FRZ TDD   8.41   ±9.8   10878   AAE   SG NR (DFD-OFDM, 100 MHz, 100 AM, 120 Hzt)   SG NR FRZ TDD   8.41   ±9.8   10880   AAE   SG NR (DFD-OFDM, 100 KR, 100 MHz, 100 AM, 120 Hzt)   SG NR FRZ TDD   8.41   ±9.8   10880   AAE   SG NR (DFT-S-OFDM, 100 KR, 100 MHz, 100 AM, 120 Hzt)   SG NR FRZ TDD   8.38   ±9.6   10881   AAE   SG NR (DFT-S-OFDM, 100 KR, 100 MHz, 260 AM, 120 Hzt)   SG NR FRZ TDD   5.75   ±9.6   10882   AAE   SG NR (DFT-S-OFDM, 100 KR, 500 MHz, 260 AM, 120 Hzt)   SG NR FRZ TDD   5.6   5.8						
19889   AAE   5G NR (DFTs-OFDM, 1 RB, 100 MHz, OPSK, 120 NHz)   5G NR FR2 TDD   5.75   5.9.6			· · · · · · · · · · · · · · · · · · ·			
10870   AAE   5G NR (DFTs-OFDM, 100% RB, 100MHz, QPSK, 120 kHz)   5G NR FRZ TDD   5.86   ±9.6   10871   AAE   5G NR (DFTs-OFDM, 100% RB, 100 MHz, 160AM, 120 kHz)   5G NR FRZ TDD   5.75   ±9.6   10873   AAE   5G NR (DFTs-OFDM, 100% RB, 100 MHz, 160AM, 120 kHz)   5G NR FRZ TDD   6.52   ±9.6   10873   AAE   5G NR (DFTs-OFDM, 100% RB, 100 MHz, 640AM, 120 kHz)   5G NR FRZ TDD   6.61   ±9.6   10874   AAE   5G NR (DFTs-OFDM, 100% RB, 100 MHz, 640AM, 120 kHz)   5G NR FRZ TDD   6.61   ±9.6   10876   AAE   5G NR (DFTs-OFDM, 100% RB, 100 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   7.78   ±9.6   10876   AAE   5G NR (DFTs-OFDM, 100% RB, 100 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   7.78   ±9.6   10876   AAE   5G NR (DF-OFDM, 100% RB, 100 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   7.795   ±9.6   10877   AAE   5G NR (DF-OFDM, 100% RB, 100 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   7.795   ±9.6   10878   AAE   5G NR (DF-OFDM, 100% RB, 100 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   7.95   ±9.6   10879   AAE   5G NR (DF-OFDM, 100% RB, 100 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   8.11   ±9.6   10880   AAE   5G NR (DF-OFDM, 100% RB, 100 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   8.12   ±9.6   10880   AAE   5G NR (DF-S-OFDM, 100% RB, 50 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   8.18   ±9.6   10880   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   5.75   ±9.6   10880   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   5.96   ±9.6   10880   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   5.96   ±9.6   10880   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   5.96   ±9.6   10880   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   5.96   ±9.6   10880   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   5.83   ±9.6   10880   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   5.83   ±9.6   10880   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 040AM, 120 kHz)   5G NR FRZ TDD   5.80   ±9.6   10880						4
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10872   AAE   SG NR (DFT-s-OFDM, 100% RB, 100 MHz, 160AM, 120 kHz)   SG NR FR2 TDD   6.52   49.6   10873   AAE   SG NR (DFT-s-OFDM, 100% RB, 100 MHz, 640AM, 120 kHz)   SG NR FR2 TDD   6.65   49.6   10875   AAE   SG NR (DFT-s-OFDM, 100% RB, 100 MHz, 640AM, 120 kHz)   SG NR FR2 TDD   5.65   49.6   10875   AAE   SG NR (CP-OFDM, 178, 100 MHz, QFSK, 120 kHz)   SG NR FR2 TDD   7.76   49.8   10876   AAE   SG NR (CP-OFDM, 178, 100 MHz, QFSK, 120 kHz)   SG NR FR2 TDD   7.76   49.8   10876   AAE   SG NR (CP-OFDM, 178, 100 MHz, QFSK, 120 kHz)   SG NR FR2 TDD   8.39   49.6   10877   AAE   SG NR (CP-OFDM, 178, 100 MHz, QFSK, 120 kHz)   SG NR FR2 TDD   7.95   49.6   10878   AAE   SG NR (CP-OFDM, 178, 100 MHz, 460AM, 120 kHz)   SG NR FR2 TDD   8.41   49.6   10880   AAE   SG NR (CP-OFDM, 178, 100 MHz, 460AM, 120 kHz)   SG NR FR2 TDD   8.41   49.6   10880   AAE   SG NR (CP-OFDM, 178, 560AM, 120 kHz)   SG NR FR2 TDD   8.38   49.8   10881   AAE   SG NR (CP-OFDM, 178, 560AM, 120 kHz)   SG NR FR2 TDD   8.38   49.8   10881   AAE   SG NR (CP-SOFDM, 178, 50 MHz, 0PSK, 120 kHz)   SG NR FR2 TDD   8.38   49.8   10883   AAE   SG NR (CP-SOFDM, 178, 50 MHz, 0PSK, 120 kHz)   SG NR FR2 TDD   5.75   49.6   10883   AAE   SG NR (CPT-s-OFDM, 100% RB, 50 MHz, 0PSK, 120 kHz)   SG NR FR2 TDD   5.96   49.8   10884   AAE   SG NR (CPT-s-OFDM, 100% RB, 50 MHz, 160 AM, 120 kHz)   SG NR FR2 TDD   5.96   49.8   10885   AAE   SG NR (CPT-s-OFDM, 100% RB, 50 MHz, 160 AM, 120 kHz)   SG NR FR2 TDD   6.57   49.6   10886   AAE   SG NR (CPT-s-OFDM, 100% RB, 50 MHz, 160 AM, 120 kHz)   SG NR FR2 TDD   6.57   49.6   10886   AAE   SG NR (CPT-s-OFDM, 100% RB, 50 MHz, 160 AM, 120 kHz)   SG NR FR2 TDD   6.65   49.6   10886   AAE   SG NR (CPT-s-OFDM, 100% RB, 50 MHz, 160 AM, 120 kHz)   SG NR FR2 TDD   6.65   49.6   10889   AAE   SG NR (CPT-s-OFDM, 100% RB, 50 MHz, 160 AM, 120 kHz)   SG NR FR2 TDD   6.65   49.6   10889   AAE   SG NR (CPT-s-OFDM, 178, 50 MHz, 160 AM, 120 kHz)   SG NR FR2 TDD   8.02   49.6   49.8   49.6   49.6   49.6   49.6   49.6   49.6   49.6   49.6   49				1	5.75	
10873   AAE   SG NR (CFTs-OFDM, 1 RB. 100 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   6.61   ±9.6     10874   AAE   SG NR (CFT-S-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   6.65   ±9.6     10876   AAE   SG NR (CP-OFDM, 1 RB, 100 MHz, 04QAM, 120 kHz)   SG NR FR2 TDD   7.78   ±9.6     10877   AAE   SG NR (CP-OFDM, 1 RB, 100 MHz, 04QAM, 120 kHz)   SG NR FR2 TDD   8.39   ±9.6     10877   AAE   SG NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)   SG NR FR2 TDD   7.79   ±9.6     10878   AAE   SG NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)   SG NR FR2 TDD   8.41   ±9.6     10879   AAE   SG NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   8.41   ±9.6     10880   AAE   SG NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   8.12   ±9.6     10881   AAE   SG NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   8.32   ±9.6     10882   AAE   SG NR (DFTs-OFDM, 1 RB, 50 MHz, 04QK, 120 kHz)   SG NR FR2 TDD   5.75   ±9.6     10883   AAE   SG NR (DFTs-OFDM, 1 RB, 50 MHz, 120 kHz)   SG NR FR2 TDD   5.75   ±9.6     10884   AAE   SG NR (DFTs-OFDM, 1 RB, 50 MHz, 120 kHz)   SG NR FR2 TDD   5.76   ±9.8     10885   AAE   SG NR (DFTs-OFDM, 1 RB, 50 MHz, 160 AM, 120 kHz)   SG NR FR2 TDD   5.96   ±9.8     10886   AAE   SG NR (DFTs-OFDM, 1 RB, 50 MHz, 160 AM, 120 kHz)   SG NR FR2 TDD   6.53   ±9.6     10887   AAE   SG NR (DFTs-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   6.51   ±9.6     10888   AAE   SG NR (DFTs-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   6.61   ±9.6     10889   AAE   SG NR (DFTs-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   6.65   ±9.6     10889   AAE   SG NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   6.61   ±9.6     10889   AAE   SG NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   6.65   ±9.6     10889   AAE   SG NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   6.65   ±9.6     10899   AAE   SG NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   6.65   ±9.6     10899   AAE   SG NR (CP-OFDM, 1 RB,				5G NR FR2 TDD	6.52	±9.6
10875   AAE   5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   7.78   ±9.6     10876   AAE   5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   8.39   ±9.6     10878   AAE   5G NR (CP-OFDM, 1 BB, 100 MHz, 160AM, 120 kHz)   5G NR FR2 TDD   8.41   ±9.6     10879   AAE   5G NR (CP-OFDM, 1 RB, 100 MHz, 160AM, 120 kHz)   5G NR FR2 TDD   8.41   ±9.6     10879   AAE   5G NR (CP-OFDM, 1 RB, 100 MHz, 160AM, 120 kHz)   5G NR FR2 TDD   8.42   ±9.6     10880   AAE   5G NR (CP-OFDM, 1 RB, 100 MHz, 640AM, 120 kHz)   5G NR FR2 TDD   8.38   ±9.6     10881   AAE   5G NR (CP-OFDM, 100% RB, 100MHz, 640AM, 120 kHz)   5G NR FR2 TDD   5.75   ±9.6     10881   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   5.75   ±9.6     10882   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   5.66   ±9.6     10883   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   6.67   ±9.6     10884   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, GAM, 120 kHz)   5G NR FR2 TDD   6.67   ±9.6     10885   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 640AM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10886   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 640AM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10887   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 640AM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10888   AAE   5G NR (DFTS-OFDM, 100% RB, 50 MHz, 640AM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10889   AAE   5G NR (DFDFDM, 100% RB, 50 MHz, 40 KHz)   5G NR FR2 TDD   6.65   ±9.6     10889   AAE   5G NR (DFDFDM, 100% RB, 50 MHz, 40 KHz)   5G NR FR2 TDD   6.65   ±9.6     10889   AAE   5G NR (DFDFDM, 18, 50 MHz, 40 KHz)   5G NR FR2 TDD   6.65   ±9.6     10889   AAE   5G NR (DFDFDM, 18, 50 MHz, 40 KHz)   5G NR FR2 TDD   6.65   ±9.6     10890   AAE   5G NR (DFDFDM, 18, 50 MHz, 40 KHz)   5G NR FR2 TDD   6.65   ±9.6     10891   AAE   5G NR (DFDFDM, 18, 50 MHz, 40 KHz)   5G NR FR2 TDD   5.68   ±9.6     10891   AAE   5G NR (DFDFDM, 18, 50 MHz, 40 KHz)   5G NR FR2 TDD   5.68   ±9.6	10873	AAE		5G NR FR2 TDD	6.61	±9.6
10876   AAE   5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   8.39   ±9.6     10877   AAE   5G NR (CP-OFDM, 1 RB, 100 MHz, 160 AM, 120 kHz)   5G NR FR2 TDD   7.95   ±9.6     10878   AAE   5G NR (CP-OFDM, 1 RB, 100 MHz, 160 AM, 120 kHz)   5G NR FR2 TDD   8.41   ±9.6     10879   AAE   5G NR (CP-OFDM, 1 RB, 100 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   8.41   ±9.6     10880   AAE   5G NR (CP-OFDM, 100% RB, 100 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   8.38   ±9.6     10881   AAE   5G NR (CP-OFDM, 100% RB, 100 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   5.75   ±9.6     10882   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   5.96   ±9.6     10883   AAE   5G NR (DFTs-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   5.96   ±9.6     10884   AAE   5G NR (DFTs-OFDM, 1 RB, 50 MHz, 160 AM, 120 kHz)   5G NR FR2 TDD   6.57   ±9.6     10885   AAE   5G NR (DFTs-OFDM, 1 RB, 50 MHz, 160 AM, 120 kHz)   5G NR FR2 TDD   6.57   ±9.6     10886   AAE   5G NR (DFTs-OFDM, 1 RB, 50 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10886   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10886   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10887   AAE   5G NR (DFTS-OFDM, 100% RB, 50 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10888   AAE   5G NR (DFTS-OFDM, 100% RB, 50 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10889   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10889   AAE   5G NR (DFTS-OFDM, 1 RB, 50 MHz, 20 kHz)   5G NR FR2 TDD   8.35   ±9.8     10889   AAE   5G NR (DFTS-OFDM, 1 RB, 50 MHz, 20 kHz)   5G NR FR2 TDD   8.02   ±9.6     10890   AAE   5G NR (DFTS-OFDM, 1 RB, 50 MHz, 20 kHz)   5G NR FR2 TDD   8.40   ±9.6     10891   AAE   5G NR (DFTS-OFDM, 1 RB, 50 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   8.40   ±9.6     10893   AAE   5G NR (DFTS-OFDM, 1 RB, 50 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   5.66   ±9.6     10893   AAE   5G NR (	10874	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10877   AAE   5G NR (CP-OFDM, 1 RB, 100MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   7.95   19.6     10878   AAE   5G NR (CP-OFDM, 100% RB, 100MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.12   19.6     10880   AAE   5G NR (CP-OFDM, 100% RB, 100MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   8.12   19.6     10881   AAE   5G NR (CP-OFDM, 100% RB, 100MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   8.13   19.6     10881   AAE   5G NR (CP-OFDM, 100% RB, 50MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   5.75   19.6     10881   AAE   5G NR (DFT-S-OFDM, 1 RB, 50MHz, OPSK, 120 kHz)   5G NR FR2 TDD   5.75   19.6     10882   AAE   5G NR (DFT-S-OFDM, 1 RB, 50MHz, OPSK, 120 kHz)   5G NR FR2 TDD   5.75   19.6     10884   AAE   5G NR (DFT-S-OFDM, 1 RB, 50MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   6.57   19.6     10884   AAE   5G NR (DFT-S-OFDM, 1 RB, 50MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   6.53   19.6     10885   AAE   5G NR (DFT-S-OFDM, 1 RB, 50MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   6.51   19.6     10886   AAE   5G NR (DFT-S-OFDM, 1 RB, 50MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   6.61   19.6     10886   AAE   5G NR (CP-OFDM, 1 RB, 50MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   6.65   19.6     10887   AAE   5G NR (CP-OFDM, 1 RB, 50MHz, OPSK, 120 kHz)   5G NR FR2 TDD   6.65   19.6     10888   AAE   5G NR (CP-OFDM, 1 RB, 50MHz, OPSK, 120 kHz)   5G NR FR2 TDD   6.65   19.6     10889   AAE   5G NR (CP-OFDM, 1 RB, 50MHz, OPSK, 120 kHz)   5G NR FR2 TDD   6.65   19.6     10890   AAE   5G NR (CP-OFDM, 1 RB, 50MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.35   19.8     10891   AAE   5G NR (CP-OFDM, 1 RB, 50MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.00   19.6     10893   AAE   5G NR (CP-OFDM, 1 RB, 50MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.00   19.6     10893   AAE   5G NR (CP-OFDM, 1 RB, 50MHz, 0 CPSK, 30 kHz)   5G NR FR2 TDD   8.41   19.6     10893   AAE   5G NR (CP-OFDM, 1 RB, 50MHz, 0 CPSK, 30 kHz)   5G NR FR2 TDD   8.41   19.6     10894   AAE   5G NR (CP-OFDM, 1 RB, 50MHz, 0 CPSK, 30 kHz)   5G NR FR1 TDD   5.66   19.6     10899   AAB   5G NR (DFT-S-OFDM, 1 RB, 50MHz, 0 CPSK, 30 kHz)	10875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10878   AAE   5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.41   ±9.6   10879   AAE   5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   8.12   ±9.6   10880   AAE   5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   8.38   ±9.6   10881   AAE   5G NR (DFT-s-OFDM, 1 RB, 50 MHz, CPSK, 120 kHz)   5G NR FR2 TDD   5.75   ±9.6   10882   AAE   5G NR (DFT-s-OFDM, 1 RB, 50 MHz, CPSK, 120 kHz)   5G NR FR2 TDD   5.96   ±9.6   10883   AAE   5G NR (DFT-s-OFDM, 1 RB, 50 MHz, CPSK, 120 kHz)   5G NR FR2 TDD   5.96   ±9.6   10883   AAE   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   6.57   ±9.6   10885   AAE   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   6.57   ±9.6   10885   AAE   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   6.61   ±9.6   10886   AAE   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6   10887   AAE   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6   10887   AAE   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6   10888   AAE   5G NR (DF-OFDM, 100% RB, 50 MHz, 120 kHz)   5G NR FR2 TDD   6.81   ±9.6   10888   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 160 MA, 120 kHz)   5G NR FR2 TDD   6.85   ±9.6   10889   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 160 AM, 120 kHz)   5G NR FR2 TDD   8.02   ±9.6   10890   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 160 AM, 120 kHz)   5G NR FR2 TDD   8.40   ±9.6   10891   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   8.40   ±9.6   10893   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   8.41   ±9.6   10893   AAE   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   8.41   ±9.6   10893   AAE   5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 640 AM, 120 kHz)   5G NR FR2 TDD   5G NR	10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10879   AAE   5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   8.12   ±9.6     10880   AAE   5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   5.75   ±9.6     10881   AAE   5G NR (DFTs-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   5.75   ±9.6     10882   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   5.96   ±9.6     10883   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   6.57   ±9.6     10884   AAE   5G NR (DFTs-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   6.57   ±9.6     10885   AAE   5G NR (DFTs-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   6.61   ±9.6     10886   AAE   5G NR (DFTs-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10887   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10888   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10889   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   6.83   ±9.6     10889   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.35   ±9.6     10889   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.02   ±9.6     10880   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.02   ±9.6     10881   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.13   ±9.6     10882   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   8.13   ±9.6     10881   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   8.14   ±9.6     10892   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   8.14   ±9.6     10893   AAB   5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   5.68   ±9.6     10894   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   5.68   ±9.6     10895   AAB   5G NR (CP-OFDM, 10R, 50 MHz, 64QAM, 120 kHz)   5G NR FR1 TDD   5.68   ±9.6     10896   AAB	10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
10880   AAE   SG NR (CP-OFDM, 100% RB, 100MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   8.38   ±9.6     10881   AAE   SG NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)   SG NR FR2 TDD   5.75   ±9.6     10882   AAE   SG NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)   SG NR FR2 TDD   5.96   ±9.6     10883   AAE   SG NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)   SG NR FR2 TDD   6.57   ±9.6     10884   AAE   SG NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   SG NR FR2 TDD   6.57   ±9.6     10885   AAE   SG NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   6.61   ±9.6     10886   AAE   SG NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   6.65   ±9.6     10887   AAE   SG NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   6.65   ±9.6     10886   AAE   SG NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   6.65   ±9.6     10887   AAE   SG NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   SG NR FR2 TDD   8.35   ±9.6     10888   AAE   SG NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   SG NR FR2 TDD   8.35   ±9.6     10889   AAE   SG NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)   SG NR FR2 TDD   8.40   ±9.6     10889   AAE   SG NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)   SG NR FR2 TDD   8.40   ±9.6     10889   AAE   SG NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   8.41   ±9.6     10890   AAE   SG NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   8.41   ±9.6     10891   AAE   SG NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   8.41   ±9.6     10892   AAE   SG NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   SG NR FR2 TDD   8.41   ±9.6     10893   AAB   SG NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)   SG NR FR1 TDD   5.66   ±9.6     10899   AAB   SG NR (CP-SOFDM, 1 RB, 50 MHz, QPSK, 30 kHz)   SG NR FR1 TDD   5.67   ±9.6     10900   AAB   SG NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)   SG NR FR1 TDD   5.68   ±9.6     10901   AAB   SG NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)   SG NR FR1 TDD   5.68   ±9.6     10902   AAB   SG NR (DFT-	10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD		±9.6
10881   AAE   5G NR (DFT-S-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   5.75   ±9.6     10882   AAE   5G NR (DFT-S-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   5.96   ±9.6     10883   AAE   5G NR (DFT-S-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   6.57   ±9.6     10884   AAE   5G NR (DFT-S-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   6.53   ±9.6     10885   AAE   5G NR (DFT-S-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   6.61   ±9.6     10885   AAE   5G NR (DFT-S-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10886   AAE   5G NR (DFT-S-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10887   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6     10889   AAE   5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)   5G NR FR2 TDD   8.35   ±9.6     10889   AAE   5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.02   ±9.6     10890   AAE   5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.02   ±9.6     10891   AAE   5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   8.13   ±9.6     10892   AAE   5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   8.14   ±9.6     10893   AAE   5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   8.14   ±9.6     10893   AAE   5G NR (DFT-S-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   5.66   ±9.6     10894   AAE   5G NR (DFT-S-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   5.67   ±9.6     10905   AAB   5G NR (DFT-S-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   5.67   ±9.6     10900   AAB   5G NR (DFT-S-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   5.68   ±9.6     10901   AAB   5G NR (DFT-S-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   5.68   ±9.6     10902   AAB   5G NR (DFT-S-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   5.68   ±9.6     10903   AAB   5G NR (DFT-S-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   5.68   ±9.6     10904   AAB   5G NR (DFT-S-OFDM, 1	10879	AAE	·		ļ	
10892   AAE   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   5.96   ±9.6   10883   AAE   5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   6.57   ±9.6   10884   AAE   5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   6.53   ±9.6   10885   AAE   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   6.61   ±9.6   10886   AAE   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6   10887   AAE   5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   6.65   ±9.6   10887   AAE   5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   7.78   ±9.6   10889   AAE   5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.35   ±9.6   10889   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.40   ±9.6   10890   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.40   ±9.6   10891   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)   5G NR FR2 TDD   8.41   ±9.6   10892   AAE   5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   8.41   ±9.6   10893   AAE   5G NR (CP-OFDM, 18B, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   8.41   ±9.6   10893   AAE   5G NR (CP-OFDM, 18B, 50 MHz, 64QAM, 120 kHz)   5G NR FR2 TDD   8.41   ±9.6   10893   AAE   5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   5G NR FR1 TDD   5.66   ±9.6   10893   AAB   5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   5.67   ±9.6   10893   AAB   5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   5.68   ±9.6   10904   AAB   5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   5.68   ±9.6   10904   AAB   5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   5.68   ±9.6   10904   AAB   5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   5.68   ±9.6   10904   AAB   5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   5.68   ±9.6   10905   AAB   5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)   5G NR	10880	AAE				
10883 AAE 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.57 ±9.6 10884 AAE 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.53 ±9.6 10885 AAE 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 6.61 ±9.6 10886 AAE 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 6.65 ±9.6 10887 AAE 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 6.65 ±9.6 10888 AAE 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 7.78 ±9.6 10889 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 8.35 ±9.6 10890 AAE 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 8.02 ±9.6 10891 AAE 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 8.40 ±9.6 10892 AAE 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.40 ±9.6 10892 AAE 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.41 ±9.6 10893 AAE 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.41 ±9.6 10894 AAE 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.41 ±9.6 10895 AAE 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.66 ±9.6 10896 AAE 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.66 ±9.6 10897 AAC 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.67 ±9.6 10899 AAB 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10900 AAB 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10901 AAB 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10903 AAB 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10904 AAB 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10905 AAB 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10906 AAB 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10907 ACC 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10908 AAB 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10909 AAB 5G		1				
10884         AAE         5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)         5G NR FR2 TDD         6.53         ±9.6           10885         AAE         5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)         5G NR FR2 TDD         6.61         ±9.6           10886         AAE         5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)         5G NR FR2 TDD         6.65         ±9.6           10887         AAE         5G NR (CP-OFDM, 18B, 50 MHz, QPSK, 120 kHz)         5G NR FR2 TDD         7.78         ±9.6           10889         AAE         5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)         5G NR FR2 TDD         8.02         ±9.6           10889         AAE         5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)         5G NR FR2 TDD         8.02         ±9.6           10890         AAE         5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)         5G NR FR2 TDD         8.40         ±9.6           10891         AAE         5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 100 kHz)         5G NR FR2 TDD         8.41         ±9.6           10892         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)         5G NR FR2 TDD         8.41         ±9.6           10897         AAC         5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.66         ±9.6	10882	AAE				
10885         AAE         5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64CAM, 120 kHz)         5G NR (FR2 TDD         6.61         ±9.6           10886         AAE         5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64CAM, 120 kHz)         5G NR FR2 TDD         6.65         ±9.6           10887         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)         5G NR FR2 TDD         7.78         ±9.6           10888         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)         5G NR FR2 TDD         8.35         ±9.6           10889         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, 16CAM, 120 kHz)         5G NR FR2 TDD         8.02         ±9.6           10890         AAE         5G NR (CP-OFDM, 100% RB, 50 MHz, 16CAM, 120 kHz)         5G NR FR2 TDD         8.40         ±9.6           10891         AAE         5G NR (CP-OFDM, 100% RB, 50 MHz, 16CAM, 120 kHz)         5G NR FR2 TDD         8.41         ±9.6           10892         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, 64CAM, 120 kHz)         5G NR FR2 TDD         8.41         ±9.6           10897         AAC         5G NR (DFT-s-OFDM, 1 RB, 50 MHz, GPSK, 30 kHz)         5G NR FR1 TDD         5.66         ±9.6           10898         AAB         5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.67         ±9.6           <		<del></del>			1	
10886       AAE       5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)       5G NR FR2 TDD       6.65       ±9.6         10887       AAE       5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)       5G NR FR2 TDD       7.78       ±9.6         10888       AAE       5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)       5G NR FR2 TDD       8.35       ±9.6         10889       AAE       5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)       5G NR FR2 TDD       8.02       ±9.6         10890       AAE       5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)       5G NR FR2 TDD       8.13       ±9.6         10891       AAE       5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)       5G NR FR2 TDD       8.13       ±9.6         10892       AAE       5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)       5G NR FR2 TDD       8.41       ±9.6         10897       AAC       5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)       5G NR FR1 TDD       5.66       ±9.6         10898       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)       5G NR FR1 TDD       5.66       ±9.6         10899       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.67       ±9.6         10900       AAB       5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) <td< td=""><td></td><td></td><td>44.44</td><td></td><td></td><td></td></td<>			44.44			
10887         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)         5G NR FR2 TDD         7.78         ±9.6           10888         AAE         5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)         5G NR FR2 TDD         8.35         ±9.6           10889         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)         5G NR FR2 TDD         8.02         ±9.6           10890         AAE         5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)         5G NR FR2 TDD         8.40         ±9.6           10891         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)         5G NR FR2 TDD         8.13         ±9.6           10892         AAE         5G NR (DFT-S-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)         5G NR FR2 TDD         8.41         ±9.6           10897         AAC         5G NR (DFT-S-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)         5G NR FR2 TDD         8.41         ±9.6           10897         AAC         5G NR (DFT-S-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)         5G NR FR2 TDD         8.41         ±9.6           10898         AAB         5G NR (DFT-S-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)         5G NR FR2 TDD         8.41         ±9.6           10899         AAB         5G NR (DFT-S-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)         5G NR FR1 TDD         5.67         ±9.6						
10888         AAE         5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)         5G NR FR2 TDD         8.35         ±9.6           10889         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)         5G NR FR2 TDD         8.02         ±9.6           10890         AAE         5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)         5G NR FR2 TDD         8.40         ±9.6           10891         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)         5G NR FR2 TDD         8.13         ±9.6           10892         AAE         5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)         5G NR FR2 TDD         8.41         ±9.6           10897         AAC         5G NR (DFT-S-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.66         ±9.6           10898         AAB         5G NR (DFT-S-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.67         ±9.6           10899         AAB         5G NR (DFT-S-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.67         ±9.6           10900         AAB         5G NR (DFT-S-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.68         ±9.6           10901         AAB         5G NR (DFT-S-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.68         ±9.6						
10889       AAE       5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)       5G NR FR2 TDD       8.02       ±9.6         10890       AAE       5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)       5G NR FR2 TDD       8.40       ±9.6         10891       AAE       5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)       5G NR FR2 TDD       8.13       ±9.6         10892       AAE       5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)       5G NR FR2 TDD       8.41       ±9.6         10897       AAC       5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.66       ±9.6         10898       AAB       5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.67       ±9.6         10899       AAB       5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.67       ±9.6         10900       AAB       5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10901       AAB       5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10902       AAB       5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10903       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       5G NR FR1 TD			100			
10890       AAE       5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)       5G NR FR2 TDD       8.40       ±9.6         10891       AAE       5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)       5G NR FR2 TDD       8.13       ±9.6         10892       AAE       5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)       5G NR FR2 TDD       8.41       ±9.6         10897       AAC       5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.66       ±9.6         10898       AAB       5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.67       ±9.6         10899       AAB       5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.67       ±9.6         10900       AAB       5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10901       AAB       5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10902       AAB       5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10903       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10904       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       5G NR FR1 T						
10891       AAE       5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)       5G NR FR2 TDD       8.13       ±9.6         10892       AAE       5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)       5G NR FR2 TDD       8.41       ±9.6         10897       AAC       5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.66       ±9.6         10898       AAB       5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.67       ±9.6         10899       AAB       5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.67       ±9.6         10900       AAB       5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10901       AAB       5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10902       AAB       5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10903       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10904       AAB       5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10905       AAB       5G NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 30 kHz)       5G NR FR1 TDD						
10892       AAE       5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)       5G NR FR2 TDD       8.41       ±9.6         10897       AAC       5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.66       ±9.6         10898       AAB       5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.67       ±9.6         10899       AAB       5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.67       ±9.6         10900       AAB       5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10901       AAB       5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10902       AAB       5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10903       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10904       AAB       5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10905       AAB       5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10907       AAC       5G NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 30 kHz)       5G NR FR1 TD						
10897       AAC       5G NR (DFT-s-OFDM, 1 RB, 5MHz, OPSK, 30 kHz)       5G NR FR1 TDD       5.66       ±9.6         10898       AAB       5G NR (DFT-s-OFDM, 1 RB, 10 MHz, OPSK, 30 kHz)       5G NR FR1 TDD       5.67       ±9.6         10899       AAB       5G NR (DFT-s-OFDM, 1 RB, 15 MHz, OPSK, 30 kHz)       5G NR FR1 TDD       5.67       ±9.6         10900       AAB       5G NR (DFT-s-OFDM, 1 RB, 20 MHz, OPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10901       AAB       5G NR (DFT-s-OFDM, 1 RB, 30 MHz, OPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10902       AAB       5G NR (DFT-s-OFDM, 1 RB, 40 MHz, OPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10903       AAB       5G NR (DFT-s-OFDM, 1 RB, 40 MHz, OPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10904       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, OPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10905       AAB       5G NR (DFT-s-OFDM, 1 RB, 80 MHz, OPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10906       AAB       5G NR (DFT-s-OFDM, 1 RB, 80 MHz, OPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10907       AAC       5G NR (DFT-s-OFDM, 50% RB, 5MHz, OPSK, 30 kHz)       5G NR FR1 TDD </td <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td>			1			
10898       AAB       5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.67       ±9.6         10899       AAB       5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.67       ±9.6         10900       AAB       5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10901       AAB       5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10902       AAB       5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10903       AAB       5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10904       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10905       AAB       5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10906       AAB       5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10907       AAC       5G NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.78       ±9.6         10909       AAB       5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)       5G NR FR1 T			1			
10899       AAB       5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.67       ±9.6         10900       AAB       5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10901       AAB       5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10902       AAB       5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10903       AAB       5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10904       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10905       AAB       5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10906       AAB       5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10907       AAC       5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.78       ±9.6         10908       AAB       5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.93       ±9.6         10909       AAB       5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)       5G NR FR						
10900       AAB       5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10901       AAB       5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10902       AAB       5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10903       AAB       5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10904       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10905       AAB       5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10906       AAB       5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10907       AAC       5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.78       ±9.6         10908       AAB       5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.93       ±9.6         10909       AAB       5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.96       ±9.6					-	
10901       AAB       5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10902       AAB       5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10903       AAB       5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10904       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10905       AAB       5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10906       AAB       5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10907       AAC       5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.78       ±9.6         10908       AAB       5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.93       ±9.6         10909       AAB       5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.96       ±9.6		ļ				
10902       AAB       5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10903       AAB       5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10904       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10905       AAB       5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10906       AAB       5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10907       AAC       5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.78       ±9.6         10908       AAB       5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.93       ±9.6         10909       AAB       5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.96       ±9.6						
10903       AAB       5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10904       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10905       AAB       5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10906       AAB       5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10907       AAC       5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.78       ±9.6         10908       AAB       5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.93       ±9.6         10909       AAB       5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.96       ±9.6	ļ		1		1	<u> </u>
10904       AAB       5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10905       AAB       5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10906       AAB       5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.68       ±9.6         10907       AAC       5G NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.78       ±9.6         10908       AAB       5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.93       ±9.6         10909       AAB       5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       5.96       ±9.6	1					
10905         AAB         5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.68         ±9.6           10906         AAB         5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.68         ±9.6           10907         AAC         5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.78         ±9.6           10908         AAB         5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.93         ±9.6           10909         AAB         5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.96         ±9.6					5.68	±9.6
10906         AAB         5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.68         ±9.6           10907         AAC         5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.78         ±9.6           10908         AAB         5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.93         ±9.6           10909         AAB         5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.96         ±9.6			, , , , , , , , , , , , , , , , , , , ,	5G NR FR1 TDD	5.68	±9.6
10907         AAC         5G NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.78         ±9.6           10908         AAB         5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.93         ±9.6           10909         AAB         5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.96         ±9.6				5G NR FR1 TDD	5.68	±9.6
10908         AAB         5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.93         ±9.6           10909         AAB         5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         5.96         ±9.6				5G NR FR1 TDD		±9.6
1 14 1		AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10910 AAB 5G NR (DFT-s-OFDM, 50% R8, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.83 ±9.6	10909	AAB		5G NR FR1 TDD	5,96	±9.6
	10910	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> $k=2$
10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10912	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAB	5G NR (DFT-s-OFDM, 50% BB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10916	AAB	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10918	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.86	±9.6
10919	AAB	5G NR (DFT-s-OFDM, 100% RB, 10MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10921	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6
10923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.6
10926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10945	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87 5.94	±9.6
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 30MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6 ±9.6
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	±9.6
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	±9.6
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-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, 5MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TOD	9.40	±9.6
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
10964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	±9.6
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	±9.6
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	±9.6
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	±9.6
10972	AAB	5G NR (CP-OFDM, 1 R8, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	±9.6
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
10974	A A A	ULLA BDR	ULLA	1.16	±9.6
10974	AAA	*· · ·	1	0.60	±9.6
	AAA	ULLA HDR4	ULLA	8.58	13.0
10978		ULLA HDR4 ULLA HDR8	ULLA	10.32	±9.6
10978 10979	AAA				

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9,42	±9.6
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9,54	±9.6
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	±9.6
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	±9.6
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	±9.6
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	±9.6
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6

<sup>&</sup>lt;sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

# Calibration Laboratory of Schmid & Partner

Schmid & Partner Engineering AG

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Client

Sporton

Certificate No

EX-7576 Jul22

# **CALIBRATION CERTIFICATE**

Object

EX3DV4 - SN:7576

Calibration procedure(s)

QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v6, QA CAL-23.v5,

QA CAL-25.v7

Calibration procedure for dosimetric E-field probes

Calibration date

July 28, 2022

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22  $\pm$  3)  $^{\circ}$ C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards ID		Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-22 (No. 217-03525/03524)	Apr-23
Power sensor NRP-Z91	SN: 103244	04-Apr-22 (No. 217-03524)	Apr-23
OCP DAK-3.5 (weighted)	SN: 1249	20-Oct-21 (OCP-DAK3.5-1249_Oct21)	Oct-22
OCP DAK-12	SN: 1016	20-Oct-21 (OCP-DAK12-1016_Oct21)	Oct-22
Reference 20 dB Attenuator	SN: CC2552 (20x)	04-Apr-22 (No. 217-03527)	Apr-23
DAE4	SN: 660	13-Oct-21 (No. DAE4-660_Oct21)	Oct-22
Reference Probe ES3DV2	SN: 3013	27-Dec-21 (No. ES3-3013 Dec21)	Dec-22

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-20)	In house check: Oct-22

	Name	Function	Signature
Calibrated by	Joanna Lleshaj	Laboratory Technician	diffelled
Approved by	Sven Kühn	Technical Manager	5, 4

Issued: August 2, 2022

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

#### Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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#### Glossary

TSL NORMx,y,z

tissue simulating liquid sensitivity in free space

NORMX,y ConvF

sensitivity in TSL / NORMx,y,z

DCP

diode compression point

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

Polarization  $\varphi$ 

 $\varphi$  rotation around probe axis

Polarization 8

 $\vartheta$  rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e.,  $\vartheta=0$  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  $\vartheta = 0$  ( $f \le 900\,\text{MHz}$  in TEM-cell;  $f > 1800\,\text{MHz}$ : R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below *ConvF*).
- NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \le 800\,\text{MHz}$ ) and inside waveguide using analytical field distributions based on power measurements for  $f > 800\,\text{MHz}$ . 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  $\pm 50\,\text{MHz}$  to  $\pm 100\,\text{MHz}$ .
- 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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# Parameters of Probe: EX3DV4 - SN:7576

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm $(\mu V/(V/m)^2)^A$	0.48	0.64	0.62	±10.1%
DCP (mV) <sup>B</sup>	100.3	98.0	100.0	±4.7%

# Calibration Results for Modulation Response

UID	Communication System Name		Α	В	С	D	VR	Max	Max
			dB	dB√μV		dB	m۷	dev.	Unc <sup>E</sup>
									k = 2
0	CW	X	0.00	0.00	1.00	0.00	158.6	±3.5%	±4.7%
		Υ	0.00	0.00	1.00		166.1		
		Z	0.00	0.00	1.00	1	159.4		
10352	Pulse Waveform (200Hz, 10%)	X	58.00	102.00	23.00	10.00	60.0	±4.1%	±9.6%
		Υ	2.55	65.21	9.60		60.0		
		Z	20.00	89.09	19.27		60.0		
10353	Pulse Waveform (200Hz, 20%)	Х	20.00	93.69	20.49	6.99	80.0	±2.6%	±9.6%
		Υ	1.67	63.67	8.20		80.0		
		Z	20.00	91.49	19.40		80.0		
10354	Pulse Waveform (200Hz, 40%)	Х	20.00	116.97	29.92	3.98	95.0	±1.7%	±9.6%
		Υ	1.05	63.14	7.33		95.0		
		Z	20.00	100.53	22.36		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	0.97	160.00	68.88	2.22	120.0	±2.0%	±9.6%
		Υ	0.74	63.62	7.08		120.0		
		Z	20.00	127.14	32.64		120.0		
10387	QPSK Waveform, 1 MHz	X	2.43	74.32	19.53	1.00	150.0	±3.1%	±9.6%
		Υ	1.63	66.38	14.91		150.0		
		Z	1.90	69.61	16.94		150.0		
10388	QPSK Waveform, 10 MHz	Х	3.38	76.44	20.15	0.00	150.0	±2.4%	±9.6%
		Υ	2.18	67.78	15.67		150.0		
		Z	2.65	71.71	17.80		150.0		
10396	64-QAM Waveform, 100 kHz	X	3.30	74.66	21.96	3.01	150.0	±2.1%	±9.6%
		Υ	2.92	71.15	19.47		150.0		
		Z	2.68	70.51	19.81		150.0		
10399	64-QAM Waveform, 40 MHz	X	3.91	69.70	17.54	0.00	150.0	±2.4%	±9.6%
		Υ	3.48	66.96	15.76		150.0		
		Z	3.71	68.49	16.73	Ì	150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	5.10	66.84	16.56	0.00	150.0	±4.1%	±9.6%
		Υ	4.82	65.62	15.60		150.0		
		Z	4.83	65.78	15.86		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%.

 $<sup>^{\</sup>rm A}$  The uncertainties of Norm X,Y,Z do not affect the  ${\rm E}^2$ -field uncertainty inside TSL (see Page 5).

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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# Parameters of Probe: EX3DV4 - SN:7576

# **Sensor Model Parameters**

	C1 fF	C2 fF	α V <sup>−1</sup>	T1 msV <sup>-2</sup>	T2 ms V <sup>-1</sup>	T3 ms	T4 V <sup>-2</sup>	T5 V <sup>-1</sup>	Т6
Х	47.1	360.29	37.61	11.22	0.20	5.10	0.00	0.42	1.01
У	40.4	308.37	36.84	16.10	0.00	4.98	1.30	0.18	1.01
Z	44.0	335.52	37.19	13.88	0.00	5.10	0.00	0.35	1.01

#### Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-71.4°
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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# Parameters of Probe: EX3DV4 - SN:7576

# Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
750	41.9	0.89	10.72	10.72	10.72	0.48	0.80	±12.0%
835	41.5	0.90	10.47	10.47	10.47	0.42	0.80	±12.0%
900	41.5	0.97	10.18	10.18	10.18	0.38	0.91	±12.0%
1640	40.2	1.31	9.05	9.05	9.05	0.34	0.86	±12.0%
1750	40.1	1.37	8.98	8.98	8.98	0.31	0.86	±12.0%
1900	40.0	1.40	8.55	8.55	8.55	0.29	0.86	±12.0%
2000	40.0	1.40	8.39	8.39	8.39	0.32	0.86	±12.0%
2450	39.2	1.80	7.88	7.88	7.88	0.38	0.90	±12.0%
2600	39.0	1.96	7.59	7.59	7.59	0.42	0.90	±12.0%
3300	38.2	2.71	7.03	7.03	7.03	0.30	1.35	±13.1%
3500	37.9	2.91	6.76	6.76	6.76	0.30	1.35	±13.1%
3700	37.7	3.12	6.73	6.73	6.73	0.30	1.35	±13.1%
3900	37.5	3.32	6.53	6.53	6.53	0.40	1.40	±13.1%
4100	37.2	3.53	6.40	6.40	6.40	0.40	1.40	±13.1%
4400	36.9	3.84	6.15	6.15	6.15	0.40	1.60	±13.1%
4600	36.7	4.04	6.05	6.05	6.05	0.40	1.60	±13.1%
4800	36.4	4.25	5.90	5.90	5.90	0.40	1.80	±13.1%
4950	36.3	4.40	5.61	5.61	5.61	0.40	1.80	±13.1%
5250	35.9	4.71	5.29	5.29	5.29	0.40	1.80	±13.1%
5600	35.5	5.07	4.68	4.68	4.68	0.40	1.80	±13.1%
5750	35.4	5.22	4.88	4.88	4.88	0.40	1.80	±13.1%

<sup>&</sup>lt;sup>C</sup> 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, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed 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  $\pm 110$  MHz.

At frequencies below 3 GHz, the validity of tissue parameters ( $\varepsilon$  and  $\sigma$ ) can be relaxed to  $\pm 10\%$  if liquid compensation formula is applied to measured SAR

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values. At frequencies above 3 GHz, the validity of tissue parameters ( $\varepsilon$  and  $\sigma$ ) is restricted to  $\pm 5\%$ . The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

G 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.