

Client : **SGS**

**Certificate No: Z22-60134**

## CALIBRATION CERTIFICATE

Object DAE4 - SN: 1428

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

Calibration Procedure for the Data Acquisition Electronics  
 (DAEx)

Calibration date: April 27, 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( $22\pm3$ )°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	15-Jun-21 (CTTL, No.J21X04465)	Jun-22

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

Issued: May 03, 2022

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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.



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### DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 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	X	Y	Z
High Range	$405.191 \pm 0.15\% (k=2)$	$404.997 \pm 0.15\% (k=2)$	$405.013 \pm 0.15\% (k=2)$
Low Range	$3.98768 \pm 0.7\% (k=2)$	$3.97009 \pm 0.7\% (k=2)$	$4.00924 \pm 0.7\% (k=2)$

### Connector Angle

Connector Angle to be used in DASY system	$162.5^\circ \pm 1^\circ$
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Client : **SGS**

**Certificate No: Z21-60465**

## CALIBRATION CERTIFICATE

Object DAE4 - SN: 1455

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

Calibration Procedure for the Data Acquisition Electronics  
 (DAEEx)

Calibration date: December 29, 2021

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( $22\pm3$ )°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	15-Jun-21 (CTTL, No.J21X04465)	Jun-22

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

Issued: December 31, 2021

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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.

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### DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 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	X	Y	Z
<b>High Range</b>	$403.524 \pm 0.15\% (k=2)$	$403.811 \pm 0.15\% (k=2)$	$403.827 \pm 0.15\% (k=2)$
<b>Low Range</b>	$3.98535 \pm 0.7\% (k=2)$	$4.01112 \pm 0.7\% (k=2)$	$3.97249 \pm 0.7\% (k=2)$

### Connector Angle

Connector Angle to be used in DASY system	$203^\circ \pm 1^\circ$
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The Swiss Accreditation Service is one of the signatories to the EA  
 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **SGS - CN (Auden)**

Certificate No: **DAE4-1740\_Aug22**

## CALIBRATION CERTIFICATE

Object **DAE4 - SD 000 D04 BO - SN: 1740**

Calibration procedure(s) **QA CAL-06.v30**  
**Calibration procedure for the data acquisition electronics (DAE)**

Calibration date: **August 03, 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  $(22 \pm 3)^\circ\text{C}$  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	31-Aug-21 (No:31368)	Aug-22
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit Calibrator Box V2.1	SE UWS 053 AA 1001 SE UMS 006 AA 1002	24-Jan-22 (in house check) 24-Jan-22 (in house check)	In house check: Jan-23 In house check: Jan-23

Calibrated by:	Name <b>Dominique Steffen</b>	Function <b>Laboratory Technician</b>	Signature 
Approved by:	<b>Sven Kühn</b>	<b>Technical Manager</b>	

Issued: August 3, 2022

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Accreditation No.: **SCS 0108**

## Glossary

<b>DAE</b>	data acquisition electronics
<b>Connector angle</b>	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 =  $6.1\mu V$ , 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	X	Y	Z
High Range	$403.830 \pm 0.02\% (k=2)$	$403.899 \pm 0.02\% (k=2)$	$403.896 \pm 0.02\% (k=2)$
Low Range	$3.96644 \pm 1.50\% (k=2)$	$3.96821 \pm 1.50\% (k=2)$	$3.99389 \pm 1.50\% (k=2)$

## Connector Angle

Connector Angle to be used in DASY system	$33.0^\circ \pm 1^\circ$
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## Appendix (Additional assessments outside the scope of SCS0108)

### 1. DC Voltage Linearity

High Range		Reading ( $\mu\text{V}$ )	Difference ( $\mu\text{V}$ )	Error (%)
Channel X	+ Input	199995.78	0.47	0.00
Channel X	+ Input	20004.94	2.82	0.01
Channel X	- Input	-20000.00	1.69	-0.01
Channel Y	+ Input	199994.22	-1.02	-0.00
Channel Y	+ Input	20002.90	0.74	0.00
Channel Y	- Input	-20002.19	-0.43	0.00
Channel Z	+ Input	199994.82	-0.08	-0.00
Channel Z	+ Input	20000.82	-1.28	-0.01
Channel Z	- Input	-20000.37	1.49	-0.01

Low Range		Reading ( $\mu\text{V}$ )	Difference ( $\mu\text{V}$ )	Error (%)
Channel X	+ Input	2000.78	-0.36	-0.02
Channel X	+ Input	201.11	-0.35	-0.17
Channel X	- Input	-198.39	-0.10	0.05
Channel Y	+ Input	2001.15	0.03	0.00
Channel Y	+ Input	200.91	-0.61	-0.30
Channel Y	- Input	-199.03	-0.69	0.35
Channel Z	+ Input	2000.95	0.00	0.00
Channel Z	+ Input	200.37	-0.98	-0.49
Channel Z	- Input	-199.77	-1.21	0.61

### 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 ( $\mu\text{V}$ )	Low Range Average Reading ( $\mu\text{V}$ )
Channel X	200	28.71	27.18
	-200	-27.65	-29.53
Channel Y	200	6.91	6.69
	-200	-8.11	-8.38
Channel Z	200	-4.96	-4.57
	-200	2.23	2.46

### 3. Channel separation

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

	Input Voltage (mV)	Channel X ( $\mu\text{V}$ )	Channel Y ( $\mu\text{V}$ )	Channel Z ( $\mu\text{V}$ )
Channel X	200	-	0.38	-1.82
Channel Y	200	4.46	-	1.11
Channel Z	200	8.30	1.91	-

#### 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	16018	15352
Channel Y	16068	15646
Channel Z	16458	14426

#### 5. Input Offset Measurement

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

Input 10MΩ

	Average (µV)	min. Offset (µV)	max. Offset (µV)	Std. Deviation (µV)
Channel X	-0.96	-1.60	-0.12	0.28
Channel Y	0.14	-0.67	0.81	0.30
Channel Z	-0.44	-1.66	0.46	0.35

#### 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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Client **SGS**

Certificate No: Z22-60133

## CALIBRATION CERTIFICATE

Object EX3DV4 - SN : 3962

Calibration Procedure(s) FF-Z11-004-02  
 Calibration Procedures for Dosimetric E-field Probes

Calibration date: May 26, 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.

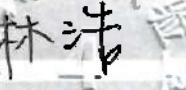
All calibrations have been conducted in the closed laboratory facility: environment temperature( $22\pm3$ )°C and humidity<70%.

### Calibration Equipment used (M&TE critical for calibration)

Primary Standards		ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter	NRP2	101919	15-Jun-21(CTTL, No.J21X04466)	Jun-22
Power sensor	NRP-Z91	101547	15-Jun-21(CTTL, No.J21X04466)	Jun-22
Power sensor	NRP-Z91	101548	15-Jun-21(CTTL, No.J21X04466)	Jun-22
Reference	10dBAttenuator	18N50W-10dB	20-Jan-21(CTTL, No.J21X00486)	Jan-23
Reference	20dBAttenuator	18N50W-20dB	20-Jan-21(CTTL, No.J21X00485)	Jan-23
Reference Probe	EX3DV4	SN 7464	26-Jan-22(SPEAG, No.EX3-7464_Jan22)	Jan-23
DAE4		SN 1555	20-Aug-21(SPEAG, No.DAE4-1555_Aug21/2)	Aug-22

Secondary Standards		ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
SignalGenerator	MG3700A	6201052605	16-Jun-21(CTTL, No.J21X04467)	Jun-22
Network Analyzer	E5071C	MY46110673	14-Jan-22(CTTL, No.J22X00406)	Jan-23

	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 2, 2022

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**Glossary:**

TSL	tissue simulating liquid
NORM <sub>x,y,z</sub>	sensitivity in free space
ConvF	sensitivity in TSL / NORM <sub>x,y,z</sub>
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A,B,C,D	modulation dependent linearization parameters
Polarization $\Phi$	$\Phi$ rotation around probe axis
Polarization $\theta$	$\theta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), $\theta=0$ 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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Methods Applied and Interpretation of Parameters:**

- NORM<sub>x,y,z</sub>: Assessed for E-field polarization  $\theta=0$  ( $f \leq 900$ MHz in TEM-cell;  $f > 1800$ MHz: waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not effect the  $E^2$ -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.
- DCP<sub>x,y,z</sub>: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- Ax,y,z; Bx,y,z; Cx,y,z; VRx,y,z; A,B,C 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  $f \leq 800$ 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 valued 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  $\pm 50$ MHz to  $\pm 100$ MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).



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## DASY/EASY – Parameters of Probe: EX3DV4 – SN:3962

### Basic Calibration Parameters

	<b>Sensor X</b>	<b>Sensor Y</b>	<b>Sensor Z</b>	<b>Unc (k=2)</b>
<b>Norm(μV/(V/m)<sup>A</sup>)</b>	0.44	0.48	0.44	±10.0%
<b>DCP(mV)<sup>B</sup></b>	102.5	101.4	95.5	

### Modulation Calibration Parameters

<b>UID</b>	<b>Communication System Name</b>		<b>A dB</b>	<b>B dB/μV</b>	<b>C</b>	<b>D dB</b>	<b>VR mV</b>	<b>Unc<sup>E</sup> (k=2)</b>
0	CW	X	0.0	0.0	1.0	0.00	154.6	±2.2%
		Y	0.0	0.0	1.0		162.8	
		Z	0.0	0.0	1.0		152.0	

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

<sup>B</sup> Numerical linearization parameter: uncertainty not required.

<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.



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## DASY/EASY – Parameters of Probe: EX3DV4 – SN:3962

### Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unct. (k=2)
750	41.9	0.89	10.10	10.10	10.10	0.20	1.12	±12.1%
835	41.5	0.90	9.80	9.80	9.80	0.18	1.25	±12.1%
1750	40.1	1.37	8.48	8.48	8.48	0.28	0.96	±12.1%
1900	40.0	1.40	8.16	8.16	8.16	0.30	0.98	±12.1%
2300	39.5	1.67	7.96	7.96	7.96	0.65	0.65	±12.1%
2450	39.2	1.80	7.67	7.67	7.67	0.49	0.82	±12.1%
2600	39.0	1.96	7.42	7.42	7.42	0.64	0.74	±12.1%
3300	38.2	2.71	7.27	7.27	7.27	0.44	0.96	±13.3%
3500	37.9	2.91	7.01	7.01	7.01	0.41	1.02	±13.3%
3700	37.7	3.12	6.64	6.64	6.64	0.39	1.04	±13.3%
3900	37.5	3.32	6.55	6.55	6.55	0.40	1.20	±13.3%
4100	37.2	3.53	6.53	6.53	6.53	0.40	1.15	±13.3%
4400	36.9	3.84	6.33	6.33	6.33	0.40	1.25	±13.3%
4600	36.7	4.04	6.15	6.15	6.15	0.45	1.27	±13.3%
4800	36.4	4.25	6.08	6.08	6.08	0.45	1.30	±13.3%
4950	36.3	4.40	5.84	5.84	5.84	0.45	1.30	±13.3%
5250	35.9	4.71	5.40	5.40	5.40	0.50	1.22	±13.3%
5600	35.5	5.07	4.85	4.85	4.85	0.55	1.22	±13.3%
5750	35.4	5.22	4.89	4.89	4.89	0.50	1.30	±13.3%

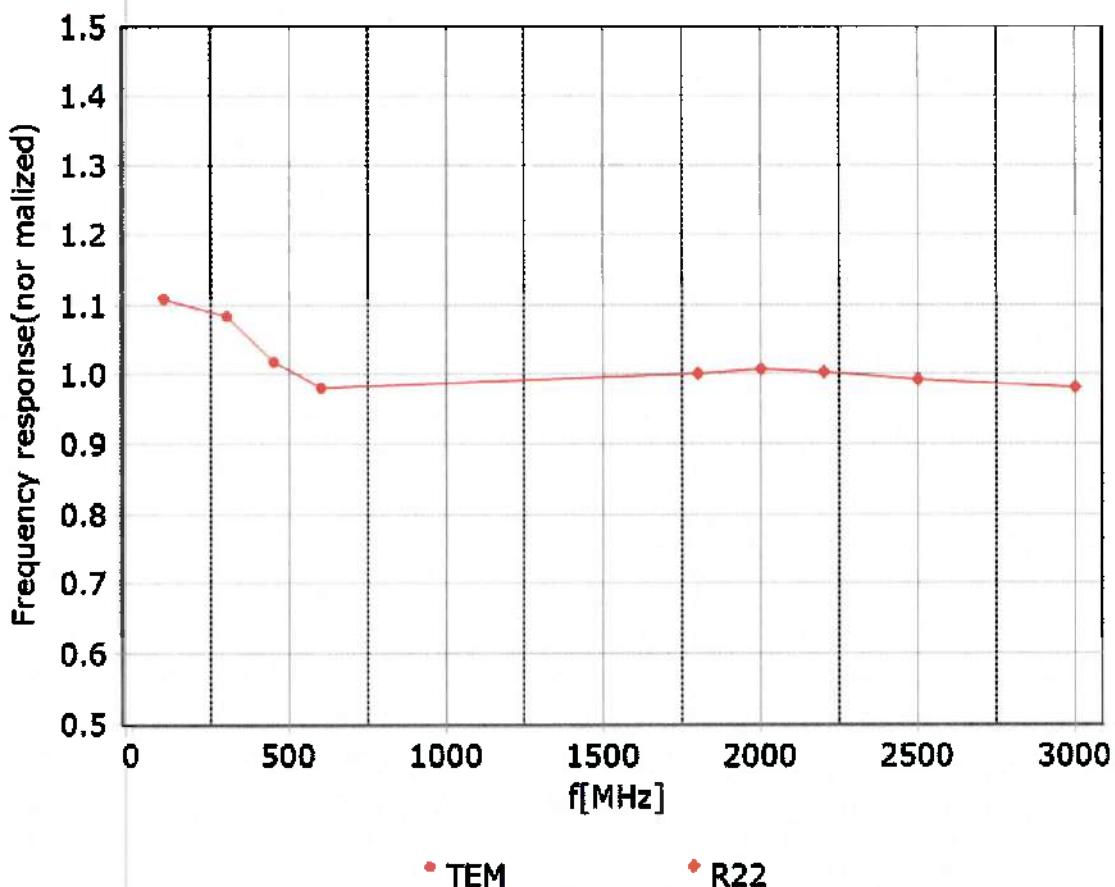
<sup>C</sup> Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequency below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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

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## Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)

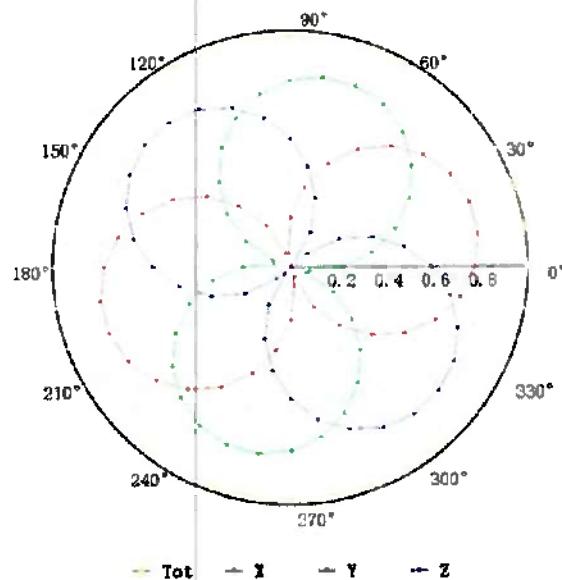


Uncertainty of Frequency Response of E-field:  $\pm 7.4\% (k=2)$

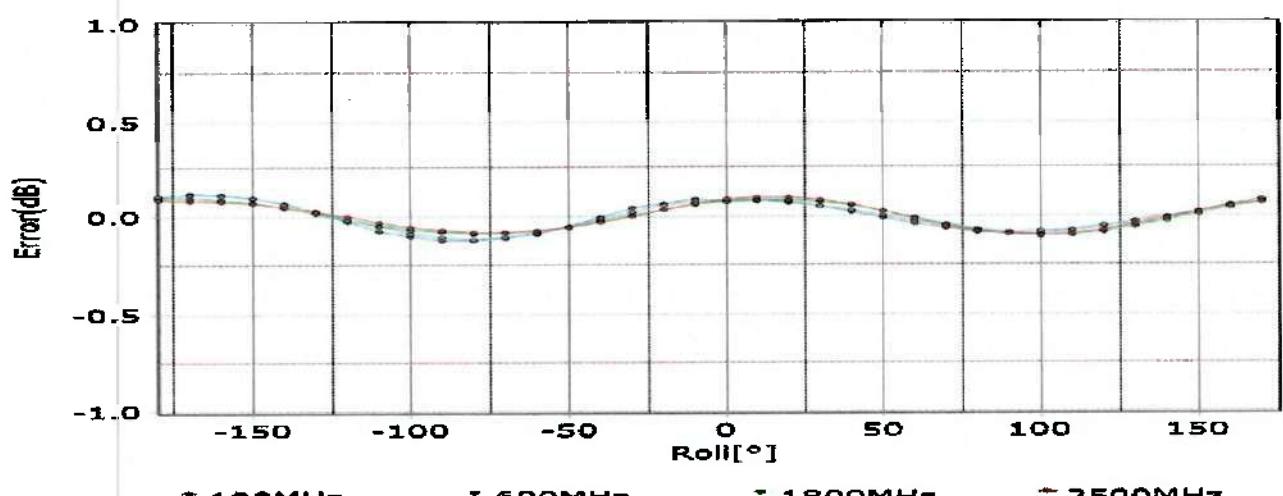
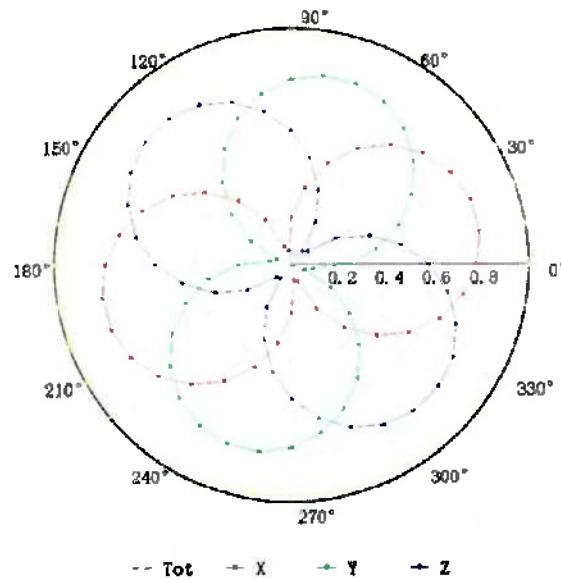
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E-mail: [cttl@chinattl.com](mailto:cttl@chinattl.com) <http://www.caict.ac.cn>

## Receiving Pattern ( $\Phi$ ), $\theta=0^\circ$

f=600 MHz, TEM



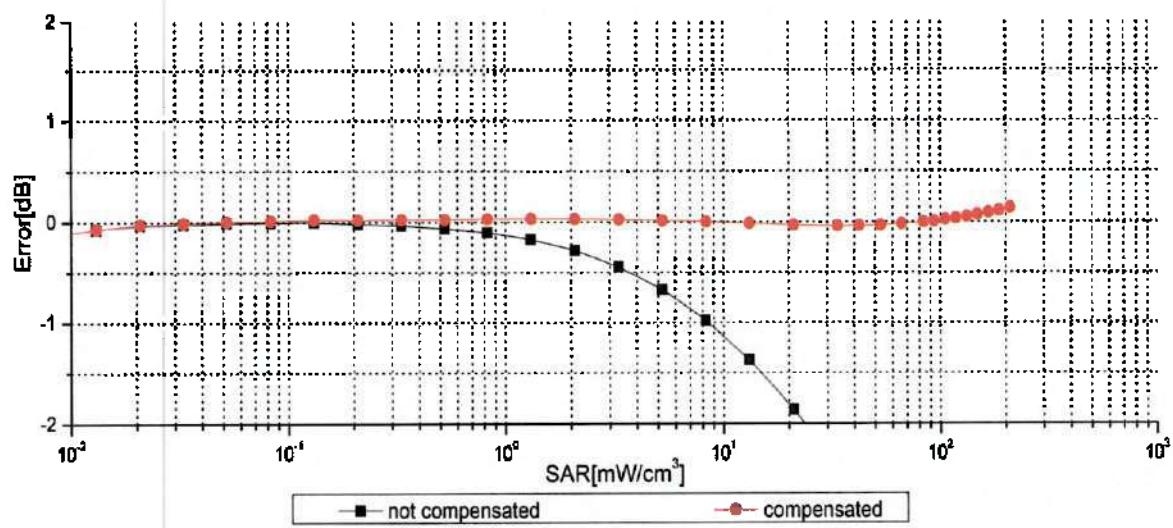
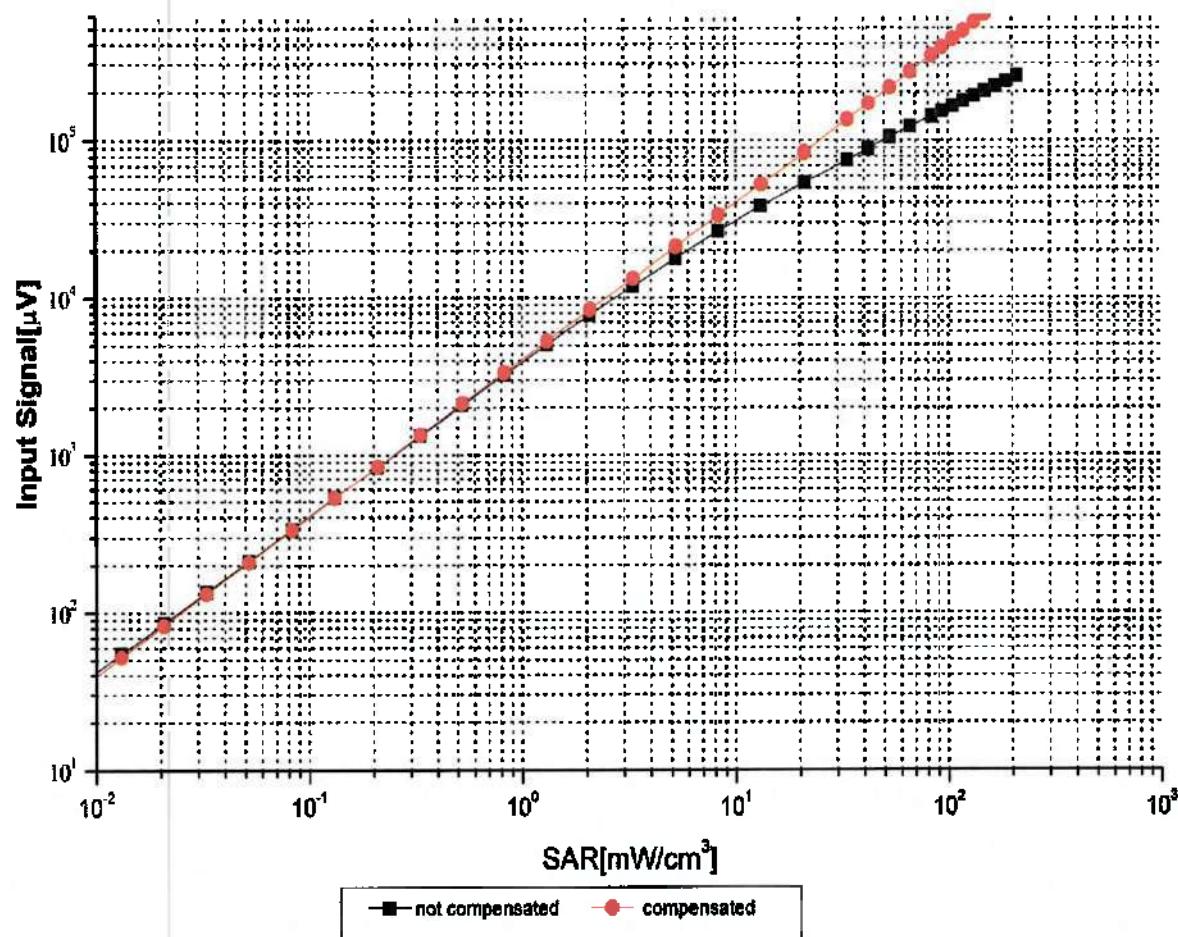
f=1800 MHz, R22



Uncertainty of Axial Isotropy Assessment:  $\pm 1.2\%$  ( $k=2$ )

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## Dynamic Range f(SAR<sub>head</sub>) (TEM cell, f = 900 MHz)

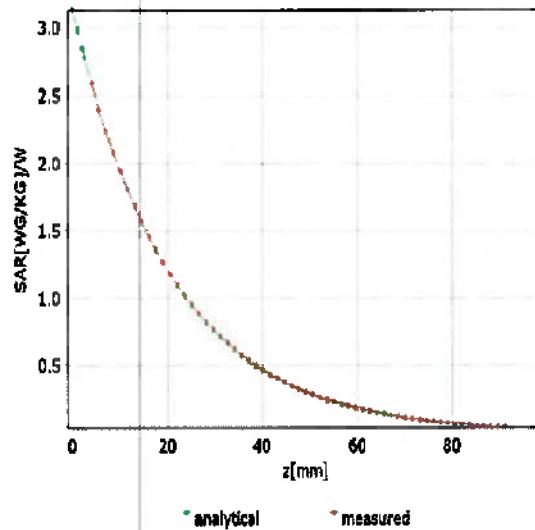


**Uncertainty of Linearity Assessment: ±0.9% (k=2)**

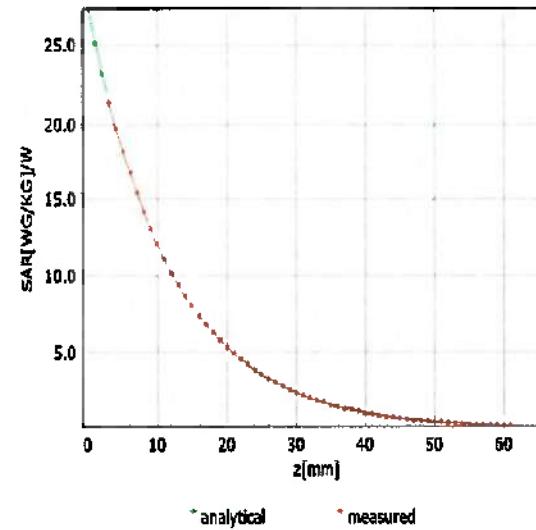
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Tel: +86-10-62304633-2117  
E-mail: cttl@chinattl.com <http://www.caict.ac.cn>

## Conversion Factor Assessment

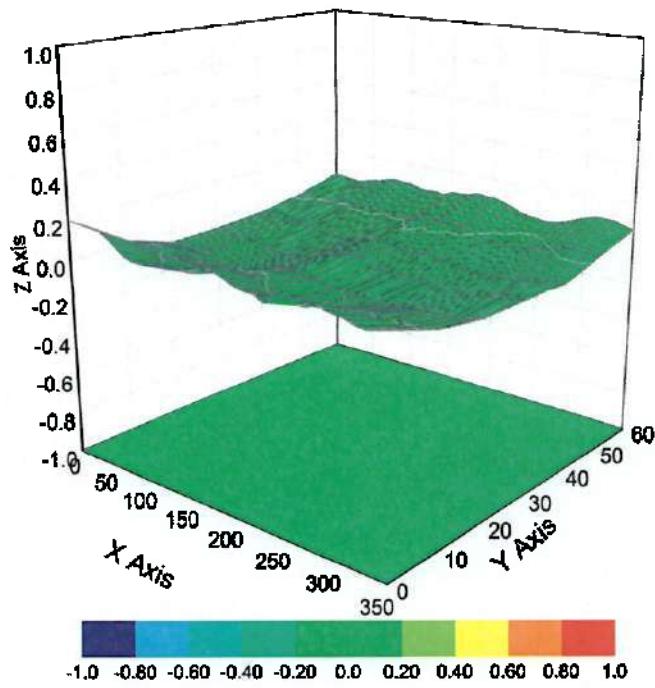
f=750 MHz,WGLS R9(H\_convF)



f=1750 MHz,WGLS R22(H\_convF)



## Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment:  $\pm 3.2\% (k=2)$



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## DASY/EASY – Parameters of Probe: EX3DV4 – SN:3962

### Other Probe Parameters

<b>Sensor Arrangement</b>	Triangular
<b>Connector Angle (°)</b>	150.7
<b>Mechanical Surface Detection Mode</b>	enabled
<b>Optical Surface Detection Mode</b>	disable
<b>Probe Overall Length</b>	337mm
<b>Probe Body Diameter</b>	10mm
<b>Tip Length</b>	9mm
<b>Tip Diameter</b>	2.5mm
<b>Probe Tip to Sensor X Calibration Point</b>	1mm
<b>Probe Tip to Sensor Y Calibration Point</b>	1mm
<b>Probe Tip to Sensor Z Calibration Point</b>	1mm
<b>Recommended Measurement Distance from Surface</b>	1.4mm

Client **SGS**

Certificate No: **Z22-60369**

## CALIBRATION CERTIFICATE

Object EX3DV4 - SN : 3789

Calibration Procedure(s) FF-Z11-004-02  
 Calibration Procedures for Dosimetric E-field Probes

Calibration date: September 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±3)°C and humidity<70%.

### Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	101919	14-Jun-22(CTTL, No.J22X04181)	Jun-23
Power sensor NRP-Z91	101547	14-Jun-22(CTTL, No.J22X04181)	Jun-23
Power sensor NRP-Z91	101548	14-Jun-22(CTTL, No.J22X04181)	Jun-23
Reference 10dBAttenuator	18N50W-10dB	20-Jan-21(CTTL, No.J21X00486)	Jan-23
Reference 20dBAttenuator	18N50W-20dB	20-Jan-21(CTTL, No.J21X00485)	Jan-23
Reference Probe EX3DV4	SN 3846	20-May-22(SPEAG, No.EX3-3846_May22)	May-23
DAE4	SN 771	20-Jan-22(SPEAG, No.DAE4-771_Jan22)	Jan-23

Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
SignalGenerator MG3700A	6201052605	14-Jun-22(CTTL, No.J22X04182)	Jun-23
Network Analyzer E5071C	MY46110673	14-Jan-22(CTTL, No.J22X00406)	Jan-23

	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: October 02, 2022

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## Glossary:

TSL	tissue simulating liquid
NORM <sub>x,y,z</sub>	sensitivity in free space
ConvF	sensitivity in TSL / NORM <sub>x,y,z</sub>
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A,B,C,D	modulation dependent linearization parameters
Polarization $\Phi$	$\Phi$ rotation around probe axis
Polarization $\theta$	$\theta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i $\theta=0$ 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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

## Methods Applied and Interpretation of Parameters:

- $NORM_{x,y,z}$ : Assessed for E-field polarization  $\theta=0$  ( $f \leq 900$ MHz in TEM-cell;  $f > 1800$ MHz: waveguide).  $NORM_{x,y,z}$  are only intermediate values, i.e., the uncertainties of  $NORM_{x,y,z}$  does not effect the  $E^2$ -field uncertainty inside TSL (see below ConvF).
- $NORM(f)x,y,z = NORM_{x,y,z} * frequency\_response$  (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 (no uncertainty required). 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.
- $A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; VR_{x,y,z}; A, B, C$  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  $f \leq 800$ 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 valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to  $NORM_{x,y,z} * ConvF$  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  $\pm 50$ MHz to  $\pm 100$ 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  $NORM_x$  (no uncertainty required).



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## DASY/EASY – Parameters of Probe: EX3DV4 – SN:3789

### Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup>	0.45	0.51	0.52	$\pm 10.0\%$
DCP(mV) <sup>B</sup>	102.7	100.9	99.0	

### Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB/ $\mu\text{V}$	C	D dB	VR mV	Unc <sup>E</sup> (k=2)
0	CW	X	0.0	0.0	1.0	0.00	160.6	$\pm 2.0\%$
		Y	0.0	0.0	1.0		164.0	
		Z	0.0	0.0	1.0		168.5	

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>A</sup> The uncertainties of Norm X, Y, Z do not affect the  $E^2$ -field uncertainty inside TSL (see Page 4).

<sup>B</sup> Numerical linearization parameter: uncertainty not required.

<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.



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## DASY/EASY – Parameters of Probe: EX3DV4 – SN:3789

### Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unct. (k=2)
750	41.9	0.89	9.09	9.09	9.09	0.11	1.56	±12.1%
835	41.5	0.90	8.76	8.76	8.76	0.16	1.31	±12.1%
1750	40.1	1.37	7.65	7.65	7.65	0.23	1.02	±12.1%
1900	40.0	1.40	7.30	7.30	7.30	0.24	1.07	±12.1%
2300	39.5	1.67	7.20	7.20	7.20	0.55	0.69	±12.1%
2450	39.2	1.80	6.98	6.98	6.98	0.50	0.72	±12.1%
2600	39.0	1.96	6.80	6.80	6.80	0.61	0.67	±12.1%
3300	38.2	2.71	6.59	6.59	6.59	0.41	0.91	±13.3%
3500	37.9	2.91	6.51	6.51	6.51	0.46	0.88	±13.3%
3700	37.7	3.12	6.35	6.35	6.35	0.38	1.02	±13.3%
3900	37.5	3.32	6.20	6.20	6.20	0.30	1.50	±13.3%
4100	37.2	3.53	6.11	6.11	6.11	0.35	1.25	±13.3%
4400	36.9	3.84	5.92	5.92	5.92	0.35	1.35	±13.3%
4600	36.7	4.04	5.87	5.87	5.87	0.50	1.13	±13.3%
4800	36.4	4.25	5.82	5.82	5.82	0.45	1.25	±13.3%
4950	36.3	4.40	5.62	5.62	5.62	0.45	1.25	±13.3%
5250	35.9	4.71	5.02	5.02	5.02	0.55	1.13	±13.3%
5600	35.5	5.07	4.43	4.43	4.43	0.55	1.15	±13.3%
5750	35.4	5.22	4.55	4.55	4.55	0.55	1.20	±13.3%

<sup>C</sup> Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of 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. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequency below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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



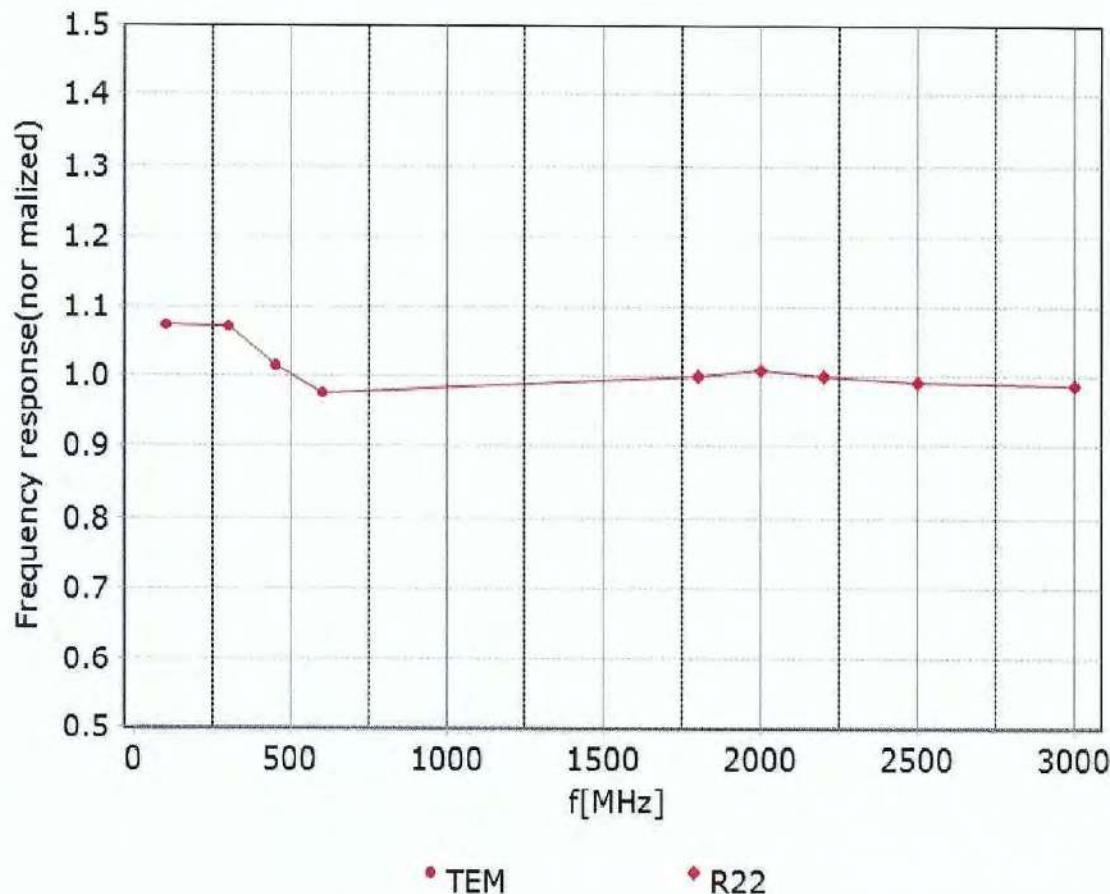
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## Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)

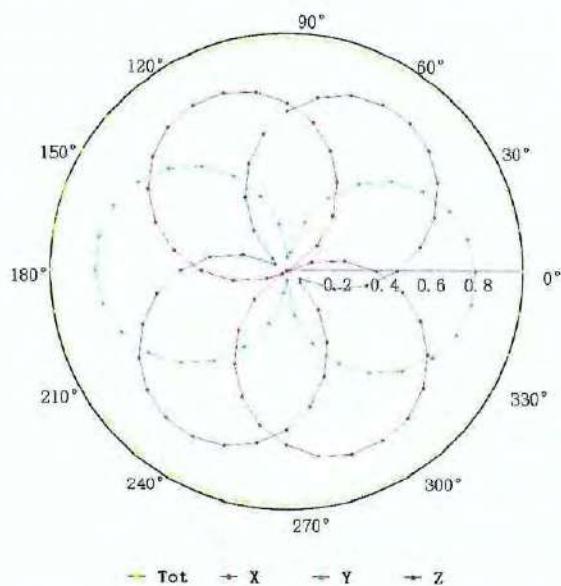


Uncertainty of Frequency Response of E-field:  $\pm 7.4\% (k=2)$

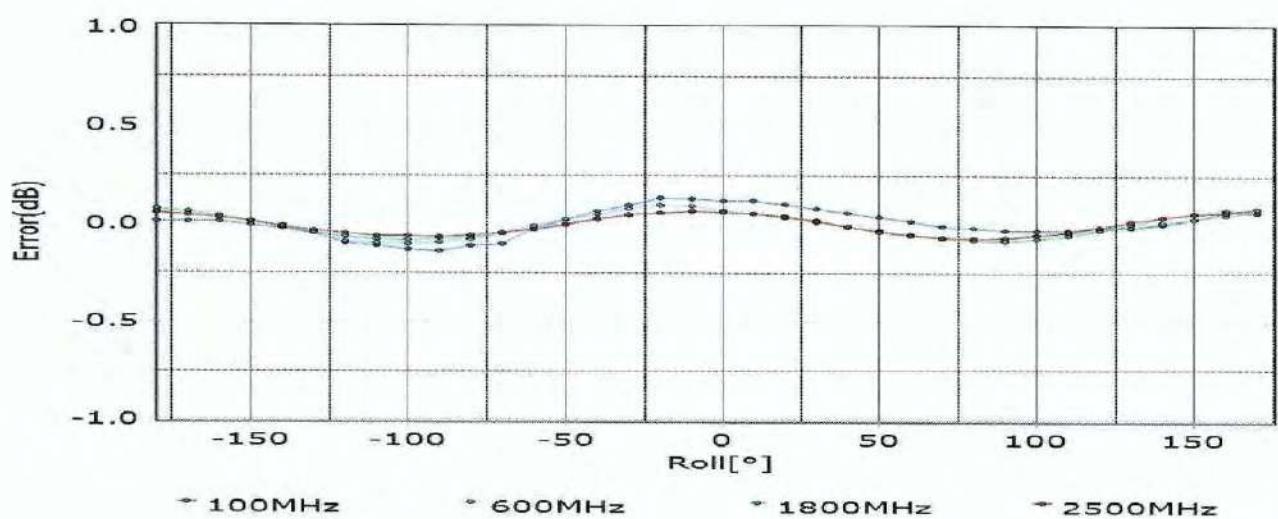
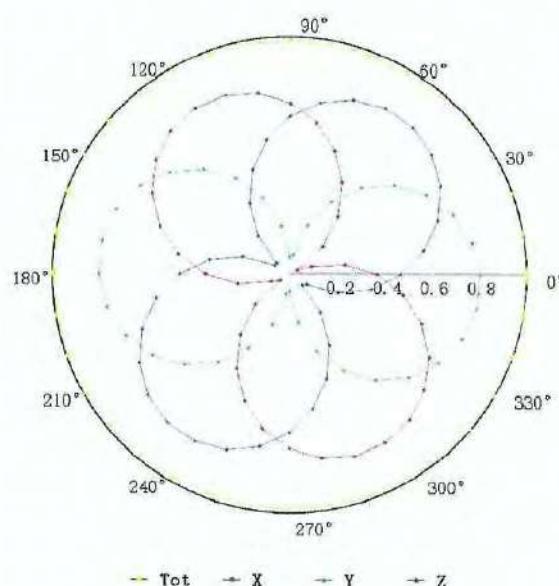
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## Receiving Pattern ( $\Phi$ ), $\theta=0^\circ$

f=600 MHz, TEM



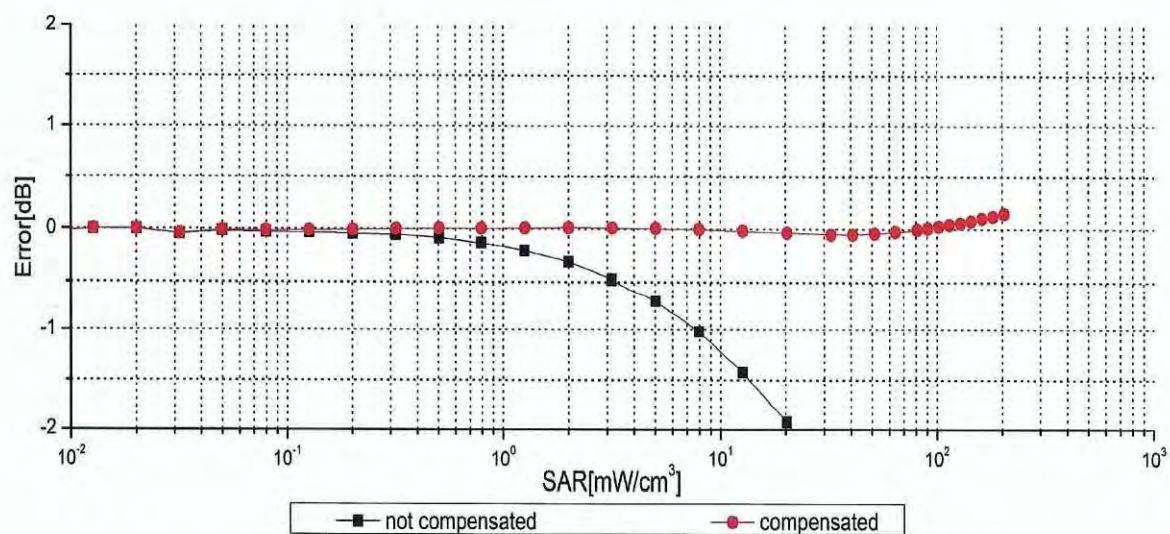
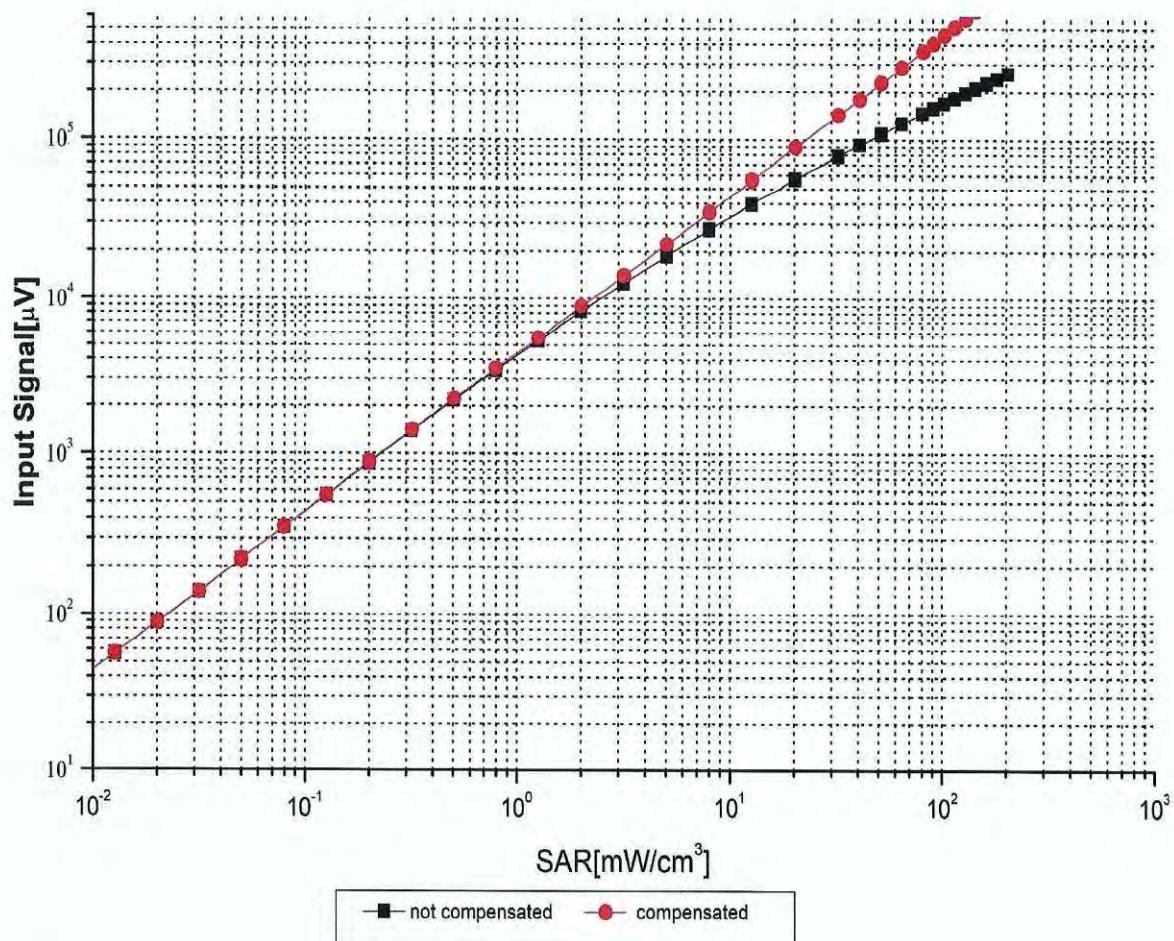
f=1800 MHz, R22



Uncertainty of Axial Isotropy Assessment:  $\pm 1.2\% (k=2)$

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## Dynamic Range f(SAR<sub>head</sub>) (TEM cell, f = 900 MHz)

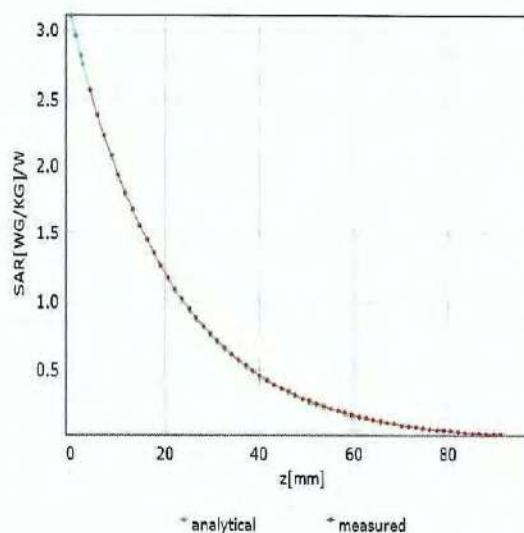


**Uncertainty of Linearity Assessment: ±0.9% (k=2)**

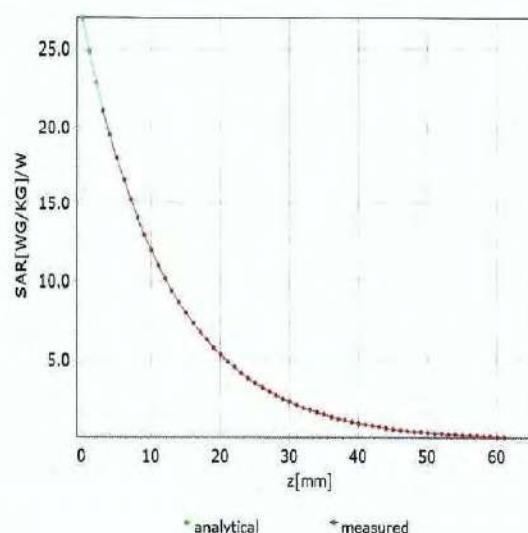
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## Conversion Factor Assessment

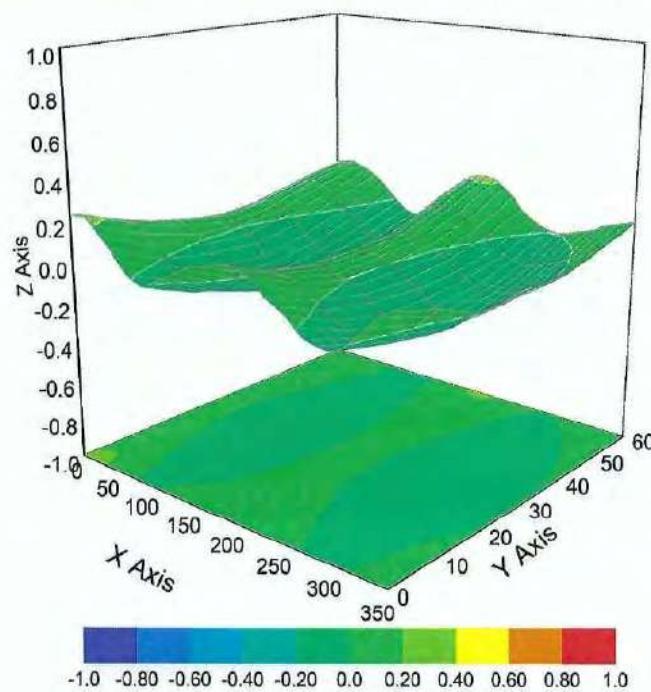
f=750 MHz,WGLS R9(H\_convF)



f=1750 MHz,WGLS R22(H\_convF)



## Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment:  $\pm 3.2\% (k=2)$



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## DASY/EASY – Parameters of Probe: EX3DV4 – SN:3789

### Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	44.8
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	9mm
Tip Diameter	2.5mm
Probe Tip to Sensor X Calibration Point	1mm
Probe Tip to Sensor Y Calibration Point	1mm
Probe Tip to Sensor Z Calibration Point	1mm
Recommended Measurement Distance from Surface	1.4mm



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Accreditation No.: SCS 0108

Client

SGS-CN (Auden)

Certificate No.

EX-7735\_Aug22

## CALIBRATION CERTIFICATE

Object EX3DV4 - SN:7735

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 August 09, 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 ( $22 \pm 3$ ) °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

Calibrated by	Name	Function	Signature
	Leif Klysnar	Laboratory Technician	
Approved by	Name	Function	Issued: August 10, 2022
	Niels Kuster	Quality Manager	

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## Glossary

TSL	tissue simulating liquid
NORM $x,y,z$	sensitivity in free space
ConvF	sensitivity in TSL / NORM $x,y,z$
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 $\theta$	$\theta$ 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:

- **NORM $x,y,z$ :** Assessed for E-field polarization  $\theta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM $x,y,z$  are only intermediate values, i.e., the uncertainties of NORM $x,y,z$  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
- **A $x,y,z$ ; B $x,y,z$ ; C $x,y,z$ ; D $x,y,z$ ; VR $x,y,z$ :** 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  $f \leq 800$  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 NORM $x,y,z * ConvF$  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  $\pm 50$  MHz to  $\pm 100$  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 NORM $x$  (no uncertainty required).

## Parameters of Probe: EX3DV4 - SN:7735

### Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc ( $k = 2$ )
Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup>	0.49	0.46	0.49	$\pm 10.1\%$
DCP (mV) <sup>B</sup>	104.4	105.6	106.9	$\pm 4.7\%$

### Calibration Results for Modulation Response

UID	Communication System Name	A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> $k = 2$
0	CW	X 0.00	0.00	1.00	0.00	154.9	$\pm 3.0\%$	$\pm 4.7\%$
		Y 0.00	0.00	1.00		172.5		
		Z 0.00	0.00	1.00		154.0		
10352	Pulse Waveform (200Hz, 10%)	X 1.40	60.18	6.01	10.00	60.0	$\pm 2.6\%$	$\pm 9.6\%$
		Y 1.56	60.80	6.24		60.0		
		Z 1.47	60.51	6.34		60.0		
10353	Pulse Waveform (200Hz, 20%)	X 0.82	60.00	4.71	6.99	80.0	$\pm 2.1\%$	$\pm 9.6\%$
		Y 0.82	60.00	4.75		80.0		
		Z 0.81	60.00	4.90		80.0		
10354	Pulse Waveform (200Hz, 40%)	X 68.00	74.00	7.00	3.98	95.0	$\pm 2.4\%$	$\pm 9.6\%$
		Y 0.38	158.90	10.57		95.0		
		Z 20.00	72.00	7.00		95.0		
10355	Pulse Waveform (200Hz, 60%)	X 4.38	159.54	20.42	2.22	120.0	$\pm 1.4\%$	$\pm 9.6\%$
		Y 7.62	157.72	13.95		120.0		
		Z 5.22	159.47	19.54		120.0		
10387	QPSK Waveform, 1 MHz	X 0.60	65.55	12.89	1.00	150.0	$\pm 3.9\%$	$\pm 9.6\%$
		Y 0.60	65.72	13.62		150.0		
		Z 0.49	64.61	12.73		150.0		
10388	QPSK Waveform, 10 MHz	X 1.39	66.68	14.35	0.00	150.0	$\pm 0.9\%$	$\pm 9.6\%$
		Y 1.42	67.16	14.67		150.0		
		Z 1.31	66.75	14.08		150.0		
10396	64-QAM Waveform, 100 kHz	X 1.71	65.30	16.41	3.01	150.0	$\pm 0.8\%$	$\pm 9.6\%$
		Y 1.71	64.94	16.00		150.0		
		Z 1.72	65.30	16.36		150.0		
10399	64-QAM Waveform, 40 MHz	X 2.85	66.47	15.26	0.00	150.0	$\pm 2.5\%$	$\pm 9.6\%$
		Y 2.85	66.58	15.35		150.0		
		Z 2.77	66.58	15.26		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X 4.02	66.76	15.75	0.00	150.0	$\pm 4.1\%$	$\pm 9.6\%$
		Y 3.97	66.79	15.75		150.0		
		Z 3.86	66.87	15.67		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>A</sup> The uncertainties of Norm X,Y,Z do not affect the  $E^2$ -field uncertainty inside TSL (see Pages 5 and 6).

<sup>B</sup> Linearization parameter uncertainty for maximum specified field strength.

<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.

## Parameters of Probe: EX3DV4 - SN:7735

### Sensor Model Parameters

	C1 fF	C2 fF	$\alpha$ V <sup>-1</sup>	T1 ms V <sup>-2</sup>	T2 ms V <sup>-1</sup>	T3 ms	T4 V <sup>-2</sup>	T5 V <sup>-1</sup>	T6
x	10.5	77.10	34.67	3.63	0.00	4.93	0.52	0.00	1.00
y	9.7	70.60	33.76	4.13	0.00	4.90	0.61	0.00	1.00
z	8.6	62.92	34.19	3.28	0.00	4.94	0.53	0.00	1.00

### Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	146.8°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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

## Parameters of Probe: EX3DV4 - SN:7735

### 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	10.21	10.21	10.21	0.58	0.81	±12.0%
835	41.5	0.90	9.95	9.95	9.95	0.52	0.80	±12.0%
1750	40.1	1.37	9.01	9.01	9.01	0.28	0.86	±12.0%
1900	40.0	1.40	8.61	8.61	8.61	0.30	0.86	±12.0%
2100	39.8	1.49	8.57	8.57	8.57	0.30	0.86	±12.0%
2300	39.5	1.67	8.47	8.47	8.47	0.31	0.90	±12.0%
2450	39.2	1.80	8.20	8.20	8.20	0.28	0.90	±12.0%
2600	39.0	1.96	7.82	7.82	7.82	0.37	0.90	±12.0%
3300	38.2	2.71	6.80	6.80	6.80	0.30	1.35	±13.1%
3500	37.9	2.91	6.77	6.77	6.77	0.30	1.35	±13.1%
3700	37.7	3.12	6.60	6.60	6.60	0.30	1.35	±13.1%
3900	37.5	3.32	6.20	6.20	6.20	0.40	1.60	±13.1%
4100	37.2	3.53	6.14	6.14	6.14	0.40	1.60	±13.1%
4200	37.1	3.63	6.03	6.03	6.03	0.40	1.70	±13.1%
4400	36.9	3.84	5.97	5.97	5.97	0.40	1.70	±13.1%
4600	36.7	4.04	5.95	5.95	5.95	0.40	1.80	±13.1%
4800	36.4	4.25	5.85	5.85	5.85	0.40	1.80	±13.1%
4950	36.3	4.40	5.70	5.70	5.70	0.40	1.80	±13.1%
5250	35.9	4.71	5.30	5.30	5.30	0.40	1.80	±13.1%
5600	35.5	5.07	4.75	4.75	4.75	0.40	1.80	±13.1%
5750	35.4	5.22	4.80	4.80	4.80	0.40	1.80	±13.1%

<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 ±110 MHz.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<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 ±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:7735

### 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	5.30	5.30	5.30	0.20	2.50	±18.6%

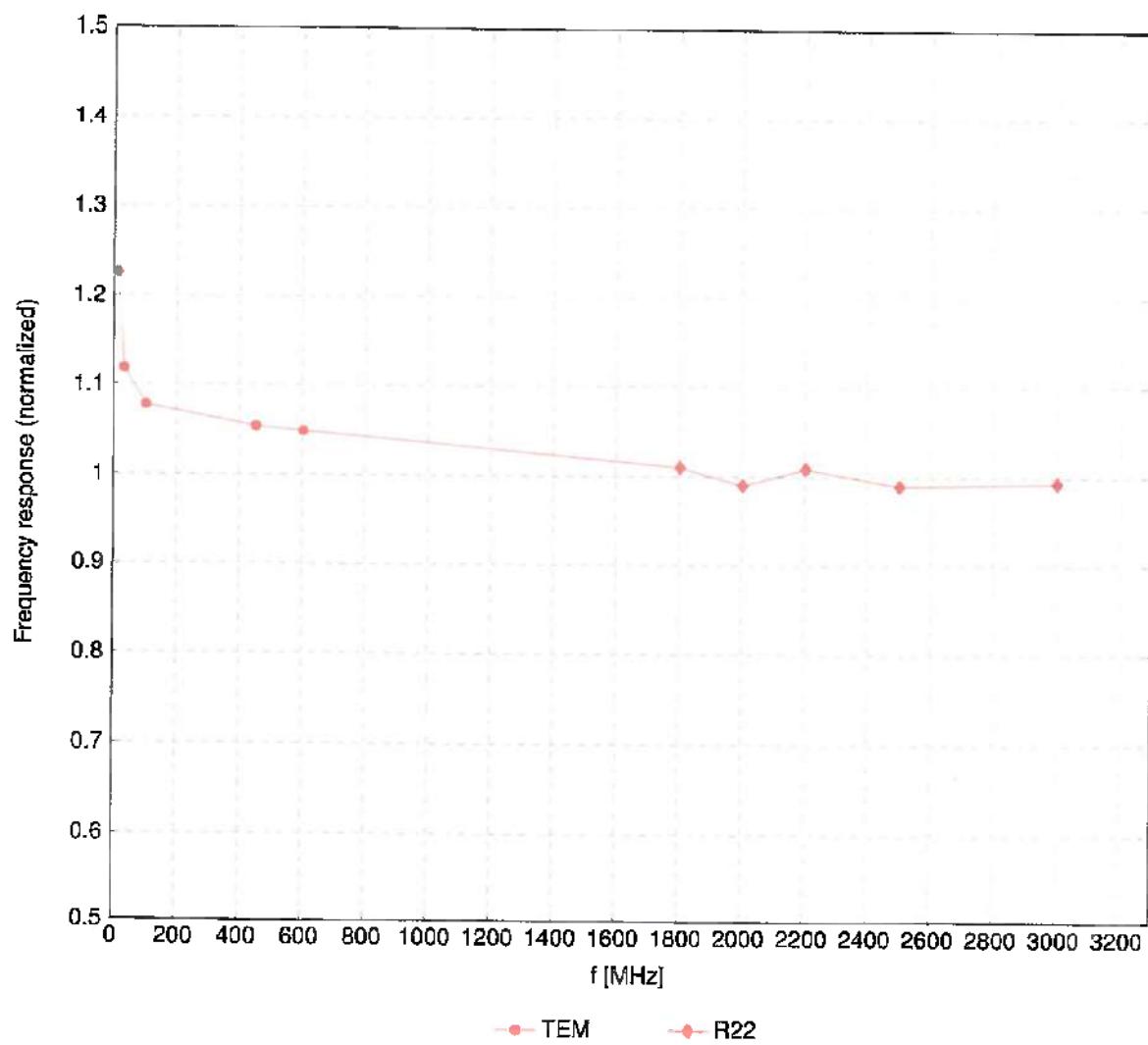
<sup>C</sup> Frequency validity at 3.5 GHz is –600/+700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

<sup>F</sup> At frequencies 6–10 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ±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.

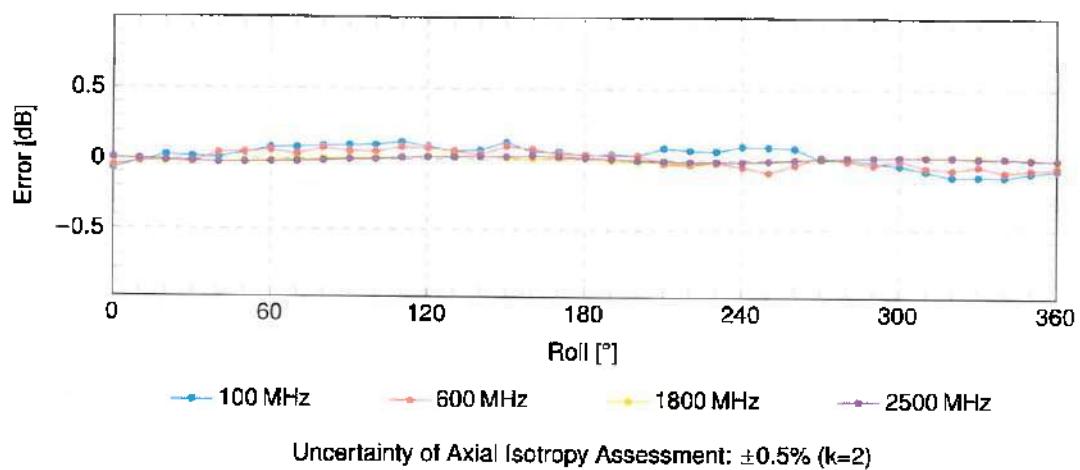
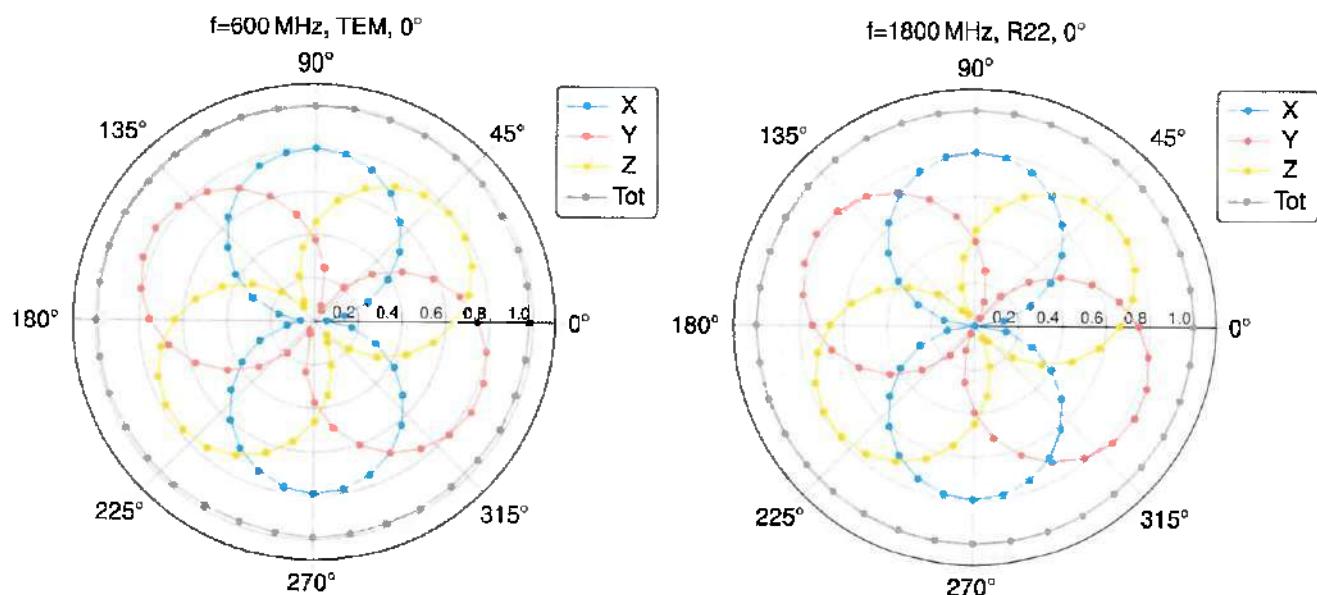
<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3–6 GHz; and below ±4% for frequencies between 6–10 GHz at any distance larger than half the probe tip diameter from the boundary.

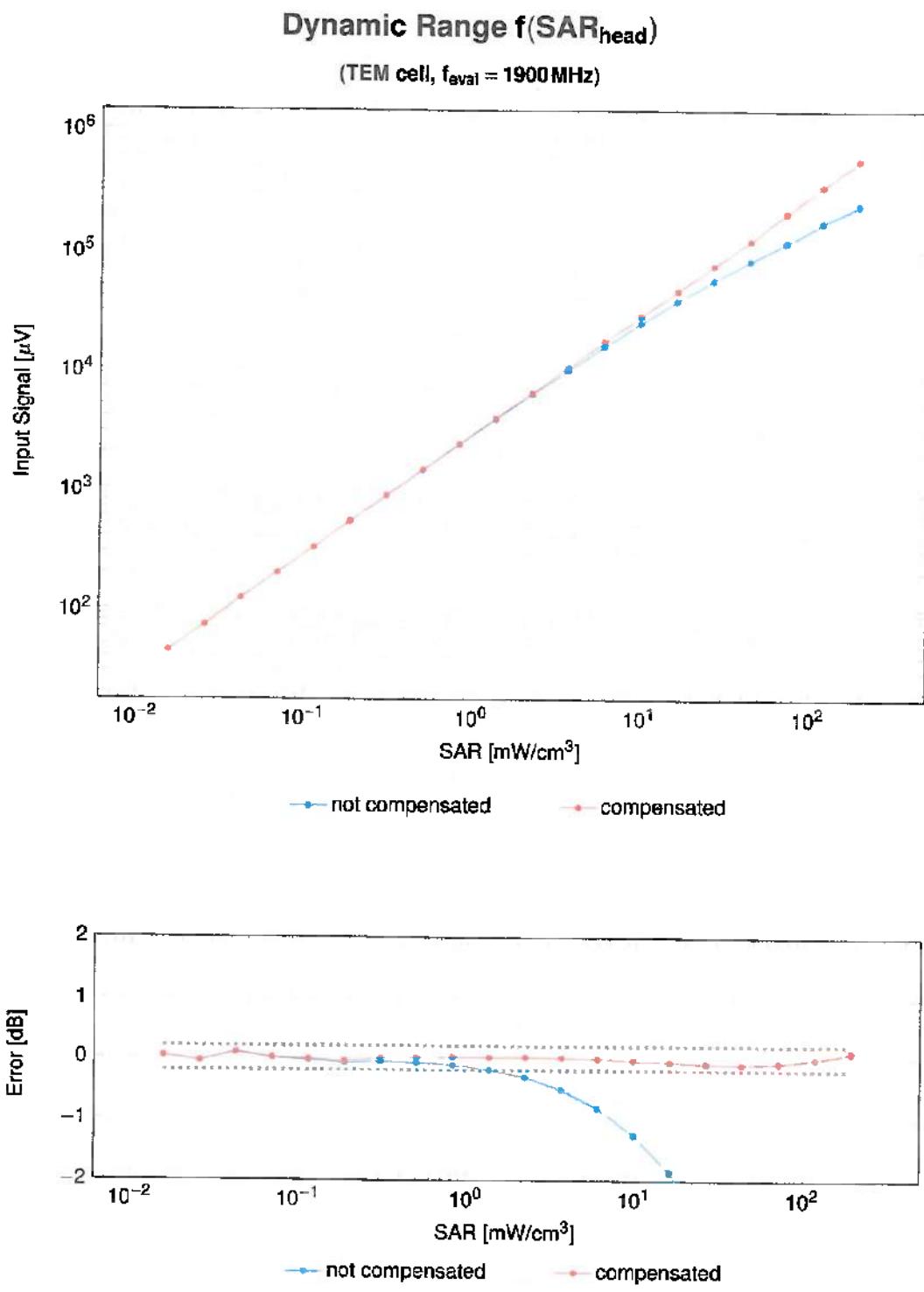
**Frequency Response of E-Field**

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

Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

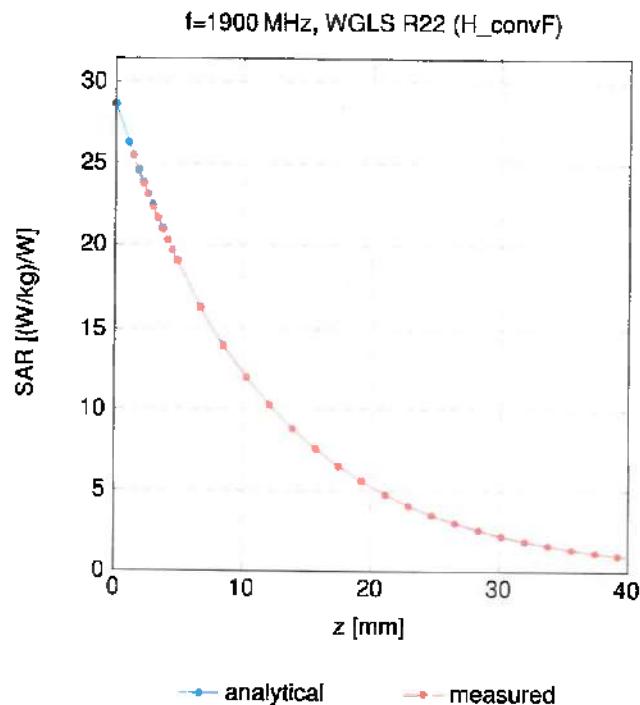
### Receiving Pattern ( $\phi$ ), $\theta = 0^\circ$



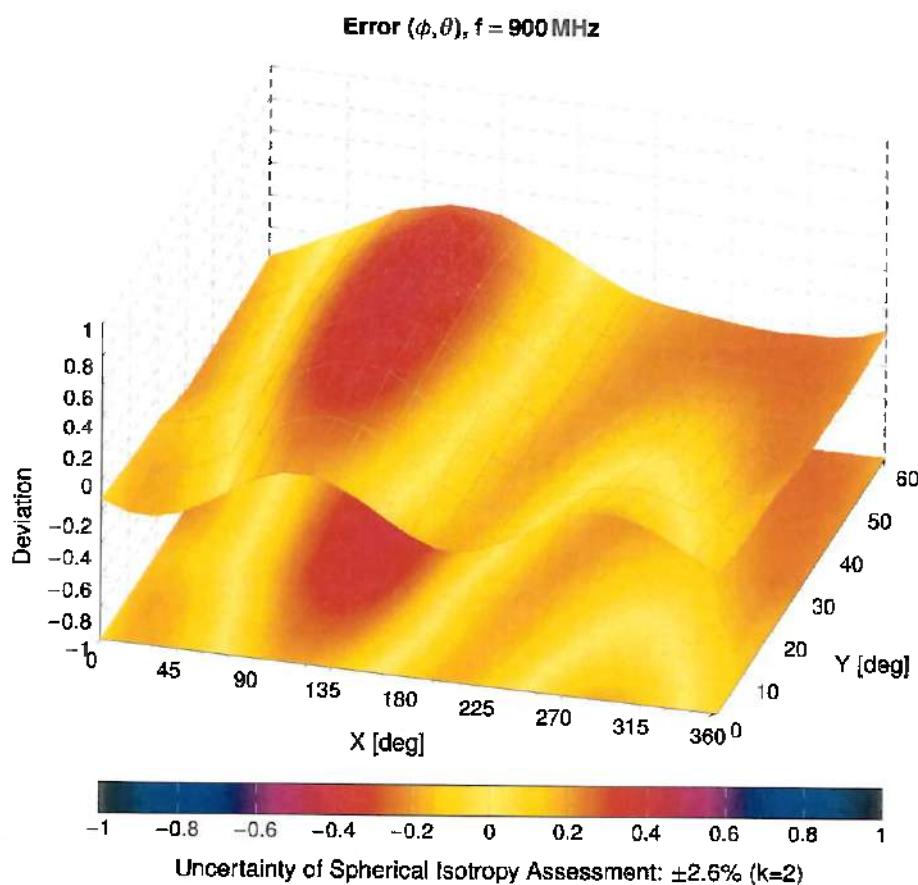


Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid



## Appendix: Modulation Calibration Parameters

<b>UID</b>	<b>Rev</b>	<b>Communication System Name</b>	<b>Group</b>	<b>PAR (dB)</b>	<b>Unc<sup>E</sup> k = 2</b>
0		CW	CW	0.00	±4.7
10010	CAA	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	±9.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
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, Halfrate)	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	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	2.12	±9.6
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	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	DAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
10099	CAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10103	DAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
10104	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
10105	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10108	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	$\pm 9.6$
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.82	$\pm 9.6$
10114	CAG	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	$\pm 9.6$
10115	CAG	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	$\pm 9.6$
10116	CAG	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	$\pm 9.6$
10117	CAG	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	$\pm 9.6$
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	$\pm 9.6$
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	$\pm 9.6$
10140	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	$\pm 9.6$
10141	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	$\pm 9.6$
10142	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	$\pm 9.6$
10143	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	$\pm 9.6$
10144	CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	$\pm 9.6$
10145	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	$\pm 9.6$
10146	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	$\pm 9.6$
10147	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	$\pm 9.6$
10148	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	8.42	$\pm 9.6$
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	$\pm 9.6$
10151	CAE	LTE-TDD (SC-FDMA, 50% RB, 20MHz, QPSK)	LTE-TDD	9.28	$\pm 9.6$
10152	CAE	LTE-TDD (SC-FDMA, 50% RB, 20MHz, 16-QAM)	LTE-TDD	9.92	$\pm 9.6$
10153	CAE	LTE-TDD (SC-FDMA, 50% RB, 20MHz, 64-QAM)	LTE-TDD	10.05	$\pm 9.6$
10154	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	$\pm 9.6$
10155	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	$\pm 9.6$
10156	CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	$\pm 9.6$
10157	CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	$\pm 9.6$
10158	CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	$\pm 9.6$
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	$\pm 9.6$
10160	CAG	LTE-FDD (SC-FDMA, 50% RB, 15MHz, QPSK)	LTE-FDD	5.82	$\pm 9.6$
10161	CAG	LTE-FDD (SC-FDMA, 50% RB, 15MHz, 16-QAM)	LTE-FDD	6.43	$\pm 9.6$
10162	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	$\pm 9.6$
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	$\pm 9.6$
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	$\pm 9.6$
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	$\pm 9.6$
10169	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	$\pm 9.6$
10170	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	$\pm 9.6$
10171	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	$\pm 9.6$
10172	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	$\pm 9.6$
10173	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	$\pm 9.6$
10174	CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	$\pm 9.6$
10175	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	$\pm 9.6$
10176	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	$\pm 9.6$
10177	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	$\pm 9.6$
10178	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	$\pm 9.6$
10179	AAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	$\pm 9.6$
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	$\pm 9.6$
10181	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	$\pm 9.6$
10182	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	$\pm 9.6$
10183	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	$\pm 9.6$
10184	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	$\pm 9.6$
10185	CAI	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	$\pm 9.6$
10186	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	$\pm 9.6$
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	$\pm 9.6$
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	$\pm 9.6$
10189	CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	$\pm 9.6$
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	$\pm 9.6$
10194	AAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	$\pm 9.6$
10195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	$\pm 9.6$
10196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	$\pm 9.6$
10197	AAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	$\pm 9.6$
10198	CAF	IEEE 802.11n (HT Mixed, 85 Mbps, 64-QAM)	WLAN	8.27	$\pm 9.6$
10219	CAF	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	$\pm 9.6$
10220	AAF	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	$\pm 9.6$
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	$\pm 9.6$
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	$\pm 9.6$
10223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	$\pm 9.6$
10224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	$\pm 9.6$

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10225	CAD	UMTS-FDD (HSPA+)	WCDMA	5.97	$\pm 9.6$
10226	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.48	$\pm 9.6$
10227	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	$\pm 9.6$
10228	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	$\pm 9.6$
10229	DAC	LTE-TDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)	LTE-TDD	9.48	$\pm 9.6$
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3MHz, 64-QAM)	LTE-TDD	10.25	$\pm 9.6$
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3MHz, QPSK)	LTE-TDD	9.19	$\pm 9.6$
10232	CAD	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-TDD	9.48	$\pm 9.6$
10233	CAD	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-TDD	10.25	$\pm 9.6$
10234	CAD	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-TDD	9.21	$\pm 9.6$
10235	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	$\pm 9.6$
10236	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	$\pm 9.6$
10237	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	$\pm 9.6$
10238	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	$\pm 9.6$
10239	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	$\pm 9.6$
10240	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	$\pm 9.6$
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	$\pm 9.6$
10242	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	$\pm 9.6$
10243	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	$\pm 9.6$
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	$\pm 9.6$
10245	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	$\pm 9.6$
10246	CAG	LTE-TDD (SC-FDMA, 50% RB, 3MHz, QPSK)	LTE-TDD	9.30	$\pm 9.6$
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	$\pm 9.6$
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	$\pm 9.6$
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5MHz, QPSK)	LTE-TDD	9.29	$\pm 9.6$
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	$\pm 9.6$
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	$\pm 9.6$
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	$\pm 9.6$
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	$\pm 9.6$
10254	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	$\pm 9.6$
10255	CAB	LTE-TDD (SC-FDMA, 50% RB, 15MHz, QPSK)	LTE-TDD	9.20	$\pm 9.6$
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	$\pm 9.6$
10257	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.06	$\pm 9.6$
10258	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	$\pm 9.6$
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM)	LTE-TDD	9.98	$\pm 9.6$
10260	CAG	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM)	LTE-TDD	9.97	$\pm 9.6$
10261	CAG	LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK)	LTE-TDD	9.24	$\pm 9.6$
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-TDD	9.83	$\pm 9.6$
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)	LTE-TDD	10.16	$\pm 9.6$
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK)	LTE-TDD	9.23	$\pm 9.6$
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	$\pm 9.6$
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	$\pm 9.6$
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	$\pm 9.6$
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	$\pm 9.6$
10269	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	$\pm 9.6$
10270	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	$\pm 9.6$
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	$\pm 9.6$
10275	CAD	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	$\pm 9.6$
10277	CAD	PHS (QPSK)	PHS	11.81	$\pm 9.6$
10278	CAD	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	$\pm 9.6$
10279	CAG	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	$\pm 9.6$
10290	CAG	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	$\pm 9.6$
10291	CAG	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	$\pm 9.6$
10292	CAG	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	$\pm 9.6$
10293	CAG	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	$\pm 9.6$
10295	CAG	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	$\pm 9.6$
10297	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	$\pm 9.6$
10298	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	$\pm 9.6$
10299	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	$\pm 9.6$
10300	CAC	LTE-FDD (SC-FDMA, 50% RB, 3MHz, 64-QAM)	LTE-FDD	6.60	$\pm 9.6$
10301	CAC	IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WiMAX	12.03	$\pm 9.6$
10302	CAB	IEEE 802.16e WiMAX (29:18, 5 ms, 10MHz, QPSK, PUSC, 3CTRL)	WiMAX	12.57	$\pm 9.6$
10303	CAB	IEEE 802.16e WiMAX (31:15, 5 ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	$\pm 9.6$
10304	CAA	IEEE 802.16e WiMAX (29:18, 5 ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	$\pm 9.6$
10305	CAA	IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC)	WiMAX	15.24	$\pm 9.6$
10306	CAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC)	WiMAX	14.67	$\pm 9.6$

<b>UID</b>	<b>Rev</b>	<b>Communication System Name</b>	<b>Group</b>	<b>PAR (dB)</b>	<b>Unc<sup>F</sup> k = 2</b>
10307	AAB	<b>IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC)</b>	WiMAX	14.49	<b>±9.6</b>
10308	AAB	<b>IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)</b>	WiMAX	<b>14.46</b>	<b>±9.6</b>
10309	AAB	<b>IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3)</b>	WiMAX	14.58	±9.6
10310	AAB	<b>IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3)</b>	WiMAX	<b>14.57</b>	±9.6
10311	AAB	LTE-FDD (SC-FDMA, 100% RB, 15MHz, QPSK)	LTE-FDD	6.06	±9.6
10313	AAD	<b>iDEN 1:3</b>	iDEN	<b>10.51</b>	<b>±9.6</b>
10314	AAD	<b>iDEN 1:6</b>	iDEN	13.48	±9.6
10315	AAD	<b>IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)</b>	WLAN	<b>1.71</b>	<b>±9.6</b>
10316	AAD	<b>IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)</b>	WLAN	8.36	<b>±9.6</b>
10317	AAA	<b>IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)</b>	WLAN	<b>8.36</b>	±9.6
10352	AAA	<b>Pulse Waveform (200 Hz, 10%)</b>	Generic	<b>10.00</b>	<b>±9.6</b>
10353	AAA	<b>Pulse Waveform (200 Hz, 20%)</b>	Generic	<b>6.99</b>	±9.6
10354	AAA	<b>Pulse Waveform (200 Hz, 40%)</b>	Generic	<b>3.98</b>	<b>±9.6</b>
10355	AAA	<b>Pulse Waveform (200 Hz, 60%)</b>	Generic	2.22	±9.6
10356	AAA	<b>Pulse Waveform (200 Hz, 80%)</b>	Generic	<b>0.97</b>	±9.6
10387	AAA	<b>QPSK Waveform, 1 MHz</b>	Generic	<b>5.10</b>	<b>±9.6</b>
10388	AAA	<b>QPSK Waveform, 10 MHz</b>	Generic	<b>5.22</b>	<b>±9.6</b>
10396	AAA	<b>64-QAM Waveform, 100 kHz</b>	Generic	6.27	±9.6
10399	AAA	<b>64-QAM Waveform, 40 MHz</b>	Generic	<b>6.27</b>	±9.6
10400	AAD	<b>IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc dc)</b>	WLAN	8.37	±9.6
10401	AAA	<b>IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc dc)</b>	WLAN	8.60	<b>±9.6</b>
10402	AAA	<b>IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc dc)</b>	WLAN	8.53	±9.6
10403	AAB	<b>CDMA2000 (1xEV-DO, Rev. 0)</b>	CDMA2000	3.76	<b>±9.6</b>
10404	AAB	<b>CDMA2000 (1xEV-DO, Rev. A)</b>	CDMA2000	3.77	±9.6
10406	AAD	<b>CDMA2000, RC3, SO32, SCH0, Full Rate</b>	CDMA2000	<b>5.22</b>	<b>±9.6</b>
10410	AAA	<b>LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)</b>	LTE-TDD	7.82	±9.6
10414	AAA	<b>WLAN CCDF, 64-QAM, 40 MHz</b>	Generic	<b>8.54</b>	±9.6
10415	AAA	<b>IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)</b>	WLAN	1.54	±9.6
10416	AAA	<b>IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)</b>	WLAN	<b>8.23</b>	±9.6
10417	AAA	<b>IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)</b>	WLAN	8.23	<b>±9.6</b>
10418	AAA	<b>IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)</b>	WLAN	<b>8.14</b>	±9.6
10419	AAA	<b>IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)</b>	WLAN	<b>8.19</b>	<b>±9.6</b>
10422	AAA	<b>IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)</b>	WLAN	8.32	±9.6
10423	AAA	<b>IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)</b>	WLAN	8.47	<b>±9.6</b>
10424	AAE	<b>IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)</b>	WLAN	<b>8.40</b>	±9.6
10425	AAE	<b>IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)</b>	WLAN	8.41	<b>±9.6</b>
10428	AAE	<b>IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)</b>	WLAN	<b>8.45</b>	±9.6
10427	AAB	<b>IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)</b>	WLAN	<b>8.41</b>	<b>±9.6</b>
10430	AAB	<b>LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)</b>	LTE-FDD	8.28	±9.6
10431	AAC	<b>LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)</b>	LTE-FDD	<b>8.38</b>	±9.6
10432	AAB	<b>LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)</b>	LTE-FDD	8.34	±9.6
10433	AAC	<b>LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)</b>	LTE-FDD	<b>8.34</b>	<b>±9.6</b>
10434	AAG	<b>W-CDMA (BS Test Model 1, 64 DPCH)</b>	WCDMA	8.60	±9.6
10435	AAA	<b>LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)</b>	LTE-TDD	<b>7.82</b>	<b>±9.6</b>
10447	AAA	<b>LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)</b>	LTE-FDD	7.56	<b>±9.6</b>
10448	AAA	<b>LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)</b>	LTE-FDD	<b>7.53</b>	±9.6
10449	AAC	<b>LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)</b>	LTE-FDD	7.51	<b>±9.6</b>
10450	AAA	<b>LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)</b>	LTE-FDD	<b>7.48</b>	±9.6
10451	AAA	<b>W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)</b>	WCDMA	7.59	±9.6
10453	AAC	<b>Validation (Square, 10ms, 1 ms)</b>	Test	<b>10.00</b>	±9.6
10456	AAC	<b>IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc dc)</b>	WLAN	8.63	±9.6
10457	AAC	<b>UMTS-FDD (DC-HSDPA)</b>	WCDMA	<b>6.62</b>	<b>±9.6</b>
10458	AAC	<b>CDMA2000 (1xEV-DO, Rev. B, 2 carriers)</b>	CDMA2000	6.55	±9.6
10459	AAC	<b>CDMA2000 (1xEV-DO, Rev. B, 3 carriers)</b>	CDMA2000	<b>8.25</b>	<b>±9.6</b>
10480	AAC	<b>UMTS-FDD (WCDMA, AMR)</b>	WCDMA	2.39	±9.6
10461	AAC	<b>LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)</b>	LTE-TDD	7.82	<b>±9.6</b>
10462	AAC	<b>LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)</b>	LTE-TDD	<b>8.30</b>	±9.6
10463	AAD	<b>LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)</b>	LTE-TDD	8.56	<b>±9.6</b>
10464	AAD	<b>LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)</b>	LTE-TDD	7.82	±9.6
10465	AAC	<b>LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)</b>	LTE-TDD	<b>8.32</b>	<b>±9.6</b>
10466	AAC	<b>LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)</b>	LTE-TDD	8.57	±9.6
10467	AAA	<b>LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)</b>	LTE-TDD	<b>7.82</b>	<b>±9.6</b>
10468	AAF	<b>LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)</b>	LTE-TDD	8.32	±9.6
10469	AAD	<b>LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)</b>	LTE-TDD	8.56	<b>±9.6</b>
10470	AAD	<b>LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)</b>	LTE-TDD	<b>7.82</b>	±9.6
10471	AAC	<b>LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)</b>	LTE-TDD	8.32	<b>±9.6</b>

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10472	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	±9.6
10473	AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	±9.6
10474	AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	±9.6
10475	AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	±9.6
10477	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	±9.6
10478	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	±9.6
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	±9.6
10482	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	±9.6
10483	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.39	±9.6
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	±9.6
10485	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.59	±9.6
10486	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	±9.6
10487	AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	±9.6
10488	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	±9.6
10489	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	±9.6
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	±9.6
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	±9.6
10496	AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	±9.6
10497	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	±9.6
10498	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	±9.6
10500	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.87	±9.6
10501	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	±9.6
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	±9.6
10503	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	±9.6
10504	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	±9.6
10505	AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	±9.6
10506	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6
10507	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.36	±9.6
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	±9.6
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.51	±9.6
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.42	±9.6
10514	AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	±9.6
10515	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	±9.6
10516	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	±9.6
10517	AAF	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	±9.6
10518	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	±9.6
10519	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	±9.6
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	±9.6
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	±9.6
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	8.45	±9.6
10523	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8.08	±9.6
10524	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)	WLAN	8.27	±9.6
10525	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc dc)	WLAN	8.36	±9.6
10526	AAF	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc dc)	WLAN	8.42	±9.6
10527	AAF	IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc dc)	WLAN	8.21	±9.6
10528	AAF	IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc dc)	WLAN	8.36	±9.6
10529	AAF	IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc dc)	WLAN	8.36	±9.6
10531	AAF	IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc dc)	WLAN	8.43	±9.6
10532	AAF	IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc dc)	WLAN	8.29	±9.6
10533	AAE	IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc dc)	WLAN	8.38	±9.6
10534	AAE	IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc dc)	WLAN	8.45	±9.6
10535	AAE	IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc dc)	WLAN	8.45	±9.6
10536	AAF	IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc dc)	WLAN	8.32	±9.6
10537	AAF	IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc dc)	WLAN	8.44	±9.6
10538	AAF	IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc dc)	WLAN	8.54	±9.6
10540	AAA	IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc dc)	WLAN	8.99	±9.6

<b>UID</b>	<b>Rev</b>	<b>Communication System Name</b>	<b>Group</b>	<b>PAR (dB)</b>	<b>Unc<sup>E</sup> k = 2</b>
10541	AAA	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc dc)	WLAN	<b>8.46</b>	$\pm 9.6$
<b>10542</b>	AAA	IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc dc)	WLAN	8.65	$\pm 9.6$
10543	AAC	<b>IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc dc)</b>	WLAN	<b>8.65</b>	$\pm 9.6$
<b>10544</b>	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc dc)	WLAN	8.47	$\pm 9.6$
10545	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc dc)	WLAN	<b>8.55</b>	$\pm 9.6$
<b>10546</b>	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc dc)	WLAN	8.35	$\pm 9.6$
10547	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc dc)	WLAN	<b>8.49</b>	$\pm 9.6$
<b>10548</b>	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc dc)	WLAN	8.37	$\pm 9.6$
10550	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc dc)	WLAN	<b>8.38</b>	$\pm 9.6$
<b>10551</b>	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc dc)	WLAN	8.50	$\pm 9.6$
10552	AAC	<b>IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc dc)</b>	WLAN	<b>8.42</b>	$\pm 9.6$
<b>10553</b>	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc dc)	WLAN	8.45	$\pm 9.6$
10554	AAC	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc dc)	WLAN	8.48	$\pm 9.6$
10555	AAC	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc dc)	WLAN	8.47	$\pm 9.6$
<b>10556</b>	AAC	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc dc)	WLAN	8.50	$\pm 9.6$
10557	AAC	<b>IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc dc)</b>	WLAN	<b>8.52</b>	$\pm 9.6$
<b>10558</b>	AAC	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc dc)	WLAN	8.61	$\pm 9.6$
10560	AAC	IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc dc)	WLAN	<b>8.73</b>	$\pm 9.6$
<b>10561</b>	AAC	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc dc)	WLAN	8.56	$\pm 9.6$
10562	AAC	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc dc)	WLAN	<b>8.69</b>	$\pm 9.6$
<b>10563</b>	AAC	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc dc)	WLAN	8.77	$\pm 9.6$
10564	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	<b>8.25</b>	$\pm 9.6$
<b>10565</b>	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	$\pm 9.6$
10566	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	<b>8.13</b>	$\pm 9.6$
<b>10567</b>	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	$\pm 9.6$
10568	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	<b>8.37</b>	$\pm 9.6$
10569	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	$\pm 9.6$
10570	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	<b>8.30</b>	$\pm 9.6$
<b>10571</b>	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	$\pm 9.6$
10572	AAC	<b>IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)</b>	WLAN	<b>1.99</b>	$\pm 9.6$
10573	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	$\pm 9.6$
<b>10574</b>	AAC	<b>IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)</b>	WLAN	<b>1.98</b>	$\pm 9.6$
10575	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	$\pm 9.6$
10576	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	$\pm 9.6$
<b>10577</b>	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	$\pm 9.6$
10578	AAD	<b>IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)</b>	WLAN	<b>8.49</b>	$\pm 9.6$
10579	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	$\pm 9.6$
10580	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 38 Mbps, 90pc dc)	WLAN	<b>8.76</b>	$\pm 9.6$
10581	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	$\pm 9.6$
<b>10582</b>	AAD	<b>IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)</b>	WLAN	<b>8.67</b>	$\pm 9.6$
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	$\pm 9.6$
<b>10584</b>	AAD	<b>IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)</b>	WLAN	8.60	$\pm 9.6$
10585	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	<b>8.70</b>	$\pm 9.6$
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	$\pm 9.6$
10587	AAA	<b>IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)</b>	WLAN	<b>8.36</b>	$\pm 9.6$
<b>10588</b>	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	$\pm 9.6$
10589	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	<b>8.35</b>	$\pm 9.6$
<b>10590</b>	AAA	<b>IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)</b>	WLAN	<b>8.67</b>	$\pm 9.6$
10591	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc dc)	WLAN	8.63	$\pm 9.6$
10592	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc dc)	WLAN	<b>8.79</b>	$\pm 9.6$
10593	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc dc)	WLAN	8.64	$\pm 9.6$
10594	AAA	<b>IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc dc)</b>	WLAN	8.74	$\pm 9.6$
<b>10595</b>	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc dc)	WLAN	8.74	$\pm 9.6$
10596	AAA	<b>IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc dc)</b>	WLAN	8.71	$\pm 9.6$
<b>10597</b>	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc dc)	WLAN	8.72	$\pm 9.6$
10598	AAA	<b>IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc dc)</b>	WLAN	8.50	$\pm 9.6$
<b>10599</b>	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc dc)	WLAN	8.79	$\pm 9.6$
10600	AAA	<b>IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc dc)</b>	WLAN	8.88	$\pm 9.6$
<b>10601</b>	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc dc)	WLAN	8.82	$\pm 9.6$
10602	AAA	<b>IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc dc)</b>	WLAN	<b>8.94</b>	$\pm 9.6$
<b>10603</b>	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc dc)	WLAN	9.03	$\pm 9.6$
10604	AAA	<b>IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc dc)</b>	WLAN	<b>8.76</b>	$\pm 9.6$
10605	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc dc)	WLAN	8.97	$\pm 9.6$
<b>10606</b>	AAC	<b>IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc dc)</b>	WLAN	<b>8.82</b>	$\pm 9.6$
10607	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc dc)	WLAN	8.64	$\pm 9.6$
<b>10608</b>	AAC	<b>IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc dc)</b>	WLAN	8.77	$\pm 9.6$

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10609	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc dc)	WLAN	<b>8.57</b>	$\pm 9.6$
10610	AAC	<b>IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc dc)</b>	WLAN	<b>8.78</b>	$\pm 9.6$
10611	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc dc)	WLAN	<b>8.70</b>	$\pm 9.6$
10612	AAC	<b>IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc dc)</b>	WLAN	<b>8.77</b>	$\pm 9.6$
10613	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc dc)	WLAN	<b>8.94</b>	$\pm 9.6$
10614	AAC	<b>IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc dc)</b>	WLAN	<b>8.59</b>	$\pm 9.6$
10615	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc dc)	WLAN	<b>8.82</b>	$\pm 9.6$
10616	AAC	<b>IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc dc)</b>	WLAN	<b>8.82</b>	$\pm 9.6$
10617	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc dc)	WLAN	<b>8.81</b>	$\pm 9.6$
10618	AAC	<b>IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc dc)</b>	WLAN	<b>8.58</b>	$\pm 9.6$
10619	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc dc)	WLAN	<b>8.86</b>	$\pm 9.6$
10620	AAC	<b>IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc dc)</b>	WLAN	<b>8.87</b>	$\pm 9.6$
10621	AAC	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc dc)	WLAN	<b>8.77</b>	$\pm 9.6$
10622	AAC	<b>IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc dc)</b>	WLAN	<b>8.68</b>	$\pm 9.6$
10623	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc dc)	WLAN	<b>8.82</b>	$\pm 9.6$
10624	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc dc)	WLAN	<b>8.96</b>	$\pm 9.6$
10625	AAC	<b>IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc dc)</b>	WLAN	<b>8.96</b>	$\pm 9.6$
10626	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc dc)	WLAN	<b>8.83</b>	$\pm 9.6$
10627	AAC	<b>IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc dc)</b>	WLAN	<b>8.88</b>	$\pm 9.6$
10628	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc dc)	WLAN	<b>8.71</b>	$\pm 9.6$
10629	AAC	<b>IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc dc)</b>	WLAN	<b>8.85</b>	$\pm 9.6$
10630	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc dc)	WLAN	<b>8.72</b>	$\pm 9.6$
10631	AAC	<b>IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc dc)</b>	WLAN	<b>8.81</b>	$\pm 9.6$
10632	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc dc)	WLAN	<b>8.74</b>	$\pm 9.6$
10633	AAC	<b>IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc dc)</b>	WLAN	<b>8.83</b>	$\pm 9.6$
10634	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc dc)	WLAN	<b>8.80</b>	$\pm 9.6$
10635	AAC	<b>IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc dc)</b>	WLAN	<b>8.81</b>	$\pm 9.6$
10636	AAC	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc dc)	WLAN	<b>8.83</b>	$\pm 9.6$
10637	AAC	<b>IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc dc)</b>	WLAN	<b>8.79</b>	$\pm 9.6$
10638	AAC	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc dc)	WLAN	<b>8.86</b>	$\pm 9.6$
10639	AAC	<b>IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc dc)</b>	WLAN	<b>8.85</b>	$\pm 9.6$
10640	AAC	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc dc)	WLAN	<b>8.98</b>	$\pm 9.6$
10641	AAC	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc dc)	WLAN	<b>9.06</b>	$\pm 9.6$
10642	AAC	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc dc)	WLAN	<b>9.06</b>	$\pm 9.6$
10643	AAC	<b>IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc dc)</b>	WLAN	<b>8.89</b>	$\pm 9.6$
10644	AAC	<b>IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc dc)</b>	WLAN	<b>9.05</b>	$\pm 9.6$
10645	AAC	<b>IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc dc)</b>	WLAN	<b>9.11</b>	$\pm 9.6$
10646	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	$\pm 9.6$
10647	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	<b>11.96</b>	$\pm 9.6$
10648	AAC	CDMA2000 (1x Advanced)	CDMA2000	3.45	$\pm 9.6$
10652	AAC	LTE-TDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	$\pm 9.6$
10653	AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	<b>7.42</b>	$\pm 9.6$
10654	AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	$\pm 9.6$
10655	AAC	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	<b>7.21</b>	$\pm 9.6$
10658	AAC	Pulse Waveform (200 Hz, 10%)	Test	10.00	$\pm 9.6$
10659	AAC	<b>Pulse Waveform (200 Hz, 20%)</b>	Test	<b>8.99</b>	$\pm 9.6$
10660	AAC	Pulse Waveform (200 Hz, 40%)	Test	3.98	$\pm 9.6$
10661	AAC	Pulse Waveform (200 Hz, 60%)	Test	<b>2.22</b>	$\pm 9.6$
10662	AAC	<b>Pulse Waveform (200 Hz, 80%)</b>	Test	0.97	$\pm 9.6$
10670	AAC	Bluetooth Low Energy	Bluetooth	2.19	$\pm 9.6$
10671	AAD	IEEE 802.11ax (20 MHz, MCS0, 90pc dc)	WLAN	<b>9.09</b>	$\pm 9.6$
10672	AAD	IEEE 802.11ax (20 MHz, MCS1, 90pc dc)	WLAN	8.57	$\pm 9.6$
10673	AAD	<b>IEEE 802.11ax (20 MHz, MCS2, 90pc dc)</b>	WLAN	<b>8.78</b>	$\pm 9.6$
10674	AAD	IEEE 802.11ax (20 MHz, MCS3, 90pc dc)	WLAN	8.74	$\pm 9.6$
10675	AAD	<b>IEEE 802.11ax (20 MHz, MCS4, 90pc dc)</b>	WLAN	<b>8.90</b>	$\pm 9.6$
10676	AAD	IEEE 802.11ax (20 MHz, MCS5, 90pc dc)	WLAN	8.77	$\pm 9.6$
10677	AAD	<b>IEEE 802.11ax (20 MHz, MCS6, 90pc dc)</b>	WLAN	8.73	$\pm 9.6$
10678	AAD	IEEE 802.11ax (20 MHz, MCS7, 90pc dc)	WLAN	8.78	$\pm 9.6$
10679	AAD	<b>IEEE 802.11ax (20 MHz, MCS8, 90pc dc)</b>	WLAN	8.89	$\pm 9.6$
10680	AAD	IEEE 802.11ax (20 MHz, MCS9, 90pc dc)	WLAN	8.80	$\pm 9.6$
10681	AAG	<b>IEEE 802.11ax (20 MHz, MCS10, 90pc dc)</b>	WLAN	<b>8.62</b>	$\pm 9.6$
10682	AAF	IEEE 802.11ax (20 MHz, MCS11, 90pc dc)	WLAN	8.83	$\pm 9.6$
10683	AAA	<b>IEEE 802.11ax (20 MHz, MCS0, 99pc dc)</b>	WLAN	8.42	$\pm 9.6$
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc dc)	WLAN	8.26	$\pm 9.6$
10685	AAC	<b>IEEE 802.11ax (20 MHz, MCS2, 99pc dc)</b>	WLAN	<b>8.33</b>	$\pm 9.6$
10686	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc dc)	WLAN	8.28	$\pm 9.6$

<b>UID</b>	<b>Rev</b>	<b>Communication System Name</b>	<b>Group</b>	<b>PAR (dB)</b>	<b>Unc<sup>E</sup> k = 2</b>
10687	AAE	IEEE 802.11ax (20 MHz, MCS4, 99pc dc)	WLAN	8.45	±9.6
10688	AAE	IEEE 802.11ax (20 MHz, MCS5, 99pc dc)	WLAN	8.29	±9.6
10689	AAD	IEEE 802.11ax (20 MHz, MCS6, 99pc dc)	WLAN	8.55	±9.6
10690	AAE	IEEE 802.11ax (20 MHz, MCS7, 99pc dc)	WLAN	8.29	±9.6
10691	AAB	IEEE 802.11ax (20 MHz, MCS8, 99pc dc)	WLAN	8.25	±9.6
10692	AAA	<b>IEEE 802.11ax (20 MHz, MCS9, 99pc dc)</b>	WLAN	<b>8.29</b>	<b>±9.6</b>
10693	AAA	IEEE 802.11ax (20 MHz, MCS10, 99pc dc)	WLAN	8.25	±9.6
10694	AAA	<b>IEEE 802.11ax (20 MHz, MCS11, 99pc dc)</b>	WLAN	<b>8.57</b>	<b>±9.6</b>
10695	AAA	IEEE 802.11ax (40 MHz, MCS0, 90pc dc)	WLAN	8.78	±9.6
10696	AAA	<b>IEEE 802.11ax (40 MHz, MCS1, 90pc dc)</b>	WLAN	<b>8.91</b>	<b>±9.6</b>
10697	AAA	IEEE 802.11ax (40 MHz, MCS2, 90pc dc)	WLAN	8.61	±9.6
10698	AAA	<b>IEEE 802.11ax (40 MHz, MCS3, 90pc dc)</b>	WLAN	<b>8.89</b>	<b>±9.6</b>
10699	AAA	IEEE 802.11ax (40 MHz, MCS4, 90pc dc)	WLAN	8.82	±9.6
10700	AAA	IEEE 802.11ax (40 MHz, MCS5, 90pc dc)	WLAN	8.73	±9.6
10701	AAA	<b>IEEE 802.11ax (40 MHz, MCS6, 90pc dc)</b>	WLAN	<b>8.86</b>	<b>±9.6</b>
10702	AAA	IEEE 802.11ax (40 MHz, MCS7, 90pc dc)	WLAN	8.70	±9.6
10703	AAA	<b>IEEE 802.11ax (40 MHz, MCS8, 90pc dc)</b>	WLAN	<b>8.82</b>	<b>±9.6</b>
10704	AAA	IEEE 802.11ax (40 MHz, MCS9, 90pc dc)	WLAN	8.56	±9.6
10705	AAA	IEEE 802.11ax (40 MHz, MCS10, 90pc dc)	WLAN	8.69	±9.6
10706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc dc)	WLAN	8.66	±9.6
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc dc)	WLAN	8.32	±9.6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc dc)	WLAN	8.55	±9.6
10709	AAC	<b>IEEE 802.11ax (40 MHz, MCS2, 99pc dc)</b>	WLAN	<b>8.33</b>	<b>±9.6</b>
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc dc)	WLAN	8.29	±9.6
10711	AAC	<b>IEEE 802.11ax (40 MHz, MCS4, 99pc dc)</b>	WLAN	<b>8.39</b>	<b>±9.6</b>
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc dc)	WLAN	8.67	±9.6
10713	AAC	<b>IEEE 802.11ax (40 MHz, MCS6, 99pc dc)</b>	WLAN	<b>8.33</b>	<b>±9.6</b>
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc dc)	WLAN	8.26	±9.6
10715	AAC	<b>IEEE 802.11ax (40 MHz, MCS8, 99pc dc)</b>	WLAN	<b>8.45</b>	<b>±9.6</b>
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc dc)	WLAN	8.30	±9.6
10717	AAC	<b>IEEE 802.11ax (40 MHz, MCS10, 99pc dc)</b>	WLAN	<b>8.48</b>	<b>±9.6</b>
10718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc dc)	WLAN	8.24	±9.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc dc)	WLAN	8.81	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc dc)	WLAN	8.87	±9.6
10721	AAC	<b>IEEE 802.11ax (80 MHz, MCS2, 90pc dc)</b>	WLAN	<b>8.76</b>	<b>±9.6</b>
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc dc)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc dc)	WLAN	8.70	±9.6
10724	AAC	<b>IEEE 802.11ax (80 MHz, MCS5, 90pc dc)</b>	WLAN	<b>8.90</b>	<b>±9.6</b>
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc dc)	WLAN	8.74	±9.6
10726	AAC	<b>IEEE 802.11ax (80 MHz, MCS7, 90pc dc)</b>	WLAN	<b>8.72</b>	<b>±9.6</b>
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc dc)	WLAN	8.66	±9.6
10728	AAC	<b>IEEE 802.11ax (80 MHz, MCS9, 90pc dc)</b>	WLAN	<b>8.65</b>	<b>±9.6</b>
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc dc)	WLAN	8.64	±9.6
10730	AAC	<b>IEEE 802.11ax (80 MHz, MCS11, 90pc dc)</b>	WLAN	<b>8.67</b>	<b>±9.6</b>
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc dc)	WLAN	8.42	±9.6
10732	AAC	<b>IEEE 802.11ax (80 MHz, MCS1, 99pc dc)</b>	WLAN	<b>8.46</b>	<b>±9.6</b>
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc dc)	WLAN	8.40	±9.6
10734	AAC	<b>IEEE 802.11ax (80 MHz, MCS3, 99pc dc)</b>	WLAN	<b>8.25</b>	<b>±9.6</b>
10735	AAC	<b>IEEE 802.11ax (80 MHz, MCS4, 99pc dc)</b>	WLAN	<b>8.33</b>	<b>±9.6</b>
10736	AAC	<b>IEEE 802.11ax (80 MHz, MCS5, 99pc dc)</b>	WLAN	<b>8.27</b>	<b>±9.6</b>
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc dc)	WLAN	8.36	±9.6
10738	AAC	<b>IEEE 802.11ax (80 MHz, MCS7, 99pc dc)</b>	WLAN	<b>8.42</b>	<b>±9.6</b>
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc dc)	WLAN	8.29	±9.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc dc)	WLAN	8.48	±9.6
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc dc)	WLAN	8.40	±9.6
10742	AAC	IEEE 802.11ax (80 MHz, <b>MCS11, 99pc dc</b> )	WLAN	8.43	±9.6
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc dc)	WLAN	8.94	±9.6
10744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc dc)	WLAN	9.16	±9.6
10745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc dc)	WLAN	8.93	±9.6
10746	AAC	IEEE 802.11ax (160 MHz, <b>MCS3, 90pc dc</b> )	WLAN	9.11	±9.6
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc dc)	WLAN	9.04	±9.6
10748	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc dc)	WLAN	8.93	±9.6
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc dc)	WLAN	8.90	±9.6
10750	AAC	IEEE 802.11ax (160 MHz, <b>MCS7, 90pc dc</b> )	WLAN	8.79	±9.6
10751	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc dc)	WLAN	8.82	±9.6
10752	AAC	IEEE 802.11ax (160 MHz, <b>MCS9, 90pc dc</b> )	WLAN	8.81	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>F</sup> k = 2
10753	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc dc)	WLAN	9.00	±9.6
<b>10754</b>	AAC	<b>IEEE 802.11ax (160 MHz, MCS11, 90pc dc)</b>	<b>WLAN</b>	<b>8.94</b>	<b>±9.6</b>
10755	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc dc)	WLAN	8.64	±9.6
<b>10756</b>	AAC	<b>IEEE 802.11ax (160 MHz, MCS1, 99pc dc)</b>	<b>WLAN</b>	<b>8.77</b>	<b>±9.6</b>
10757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc dc)	WLAN	8.77	±9.6
<b>10758</b>	AAC	<b>IEEE 802.11ax (160 MHz, MCS3, 99pc dc)</b>	<b>WLAN</b>	<b>8.69</b>	<b>±9.6</b>
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc dc)	WLAN	8.58	±9.6
<b>10760</b>	AAC	<b>IEEE 802.11ax (160 MHz, MCS5, 99pc dc)</b>	<b>WLAN</b>	<b>8.49</b>	<b>±9.6</b>
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc dc)	WLAN	8.58	±9.6
<b>10762</b>	AAC	<b>IEEE 802.11ax (160 MHz, MCS7, 99pc dc)</b>	<b>WLAN</b>	<b>8.49</b>	<b>±9.6</b>
10763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc dc)	WLAN	8.53	±9.6
<b>10764</b>	AAC	<b>IEEE 802.11ax (160 MHz, MCS9, 99pc dc)</b>	<b>WLAN</b>	<b>8.54</b>	<b>±9.6</b>
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc dc)	WLAN	8.54	±9.6
<b>10766</b>	AAC	<b>IEEE 802.11ax (160 MHz, MCS11, 99pc dc)</b>	<b>WLAN</b>	<b>8.51</b>	<b>±9.6</b>
10767	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
<b>10769</b>	AAC	<b>5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.01</b>	<b>±9.6</b>
10770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
<b>10771</b>	AAC	<b>5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.02</b>	<b>±9.6</b>
10772	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
<b>10773</b>	AAC	<b>5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.03</b>	<b>±9.6</b>
10774	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
<b>10775</b>	AAC	<b>5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.31</b>	<b>±9.6</b>
10776	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
<b>10777</b>	AAC	<b>5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.30</b>	<b>±9.6</b>
10778	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
<b>10779</b>	AAC	<b>5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.42</b>	<b>±9.6</b>
10780	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
<b>10781</b>	AAC	<b>5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.38</b>	<b>±9.6</b>
10782	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
<b>10783</b>	AAC	<b>5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.31</b>	<b>±9.6</b>
10784	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	±9.6
<b>10785</b>	AAC	<b>5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.40</b>	<b>±9.6</b>
10786	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
<b>10787</b>	AAC	<b>5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.44</b>	<b>±9.6</b>
10788	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
<b>10789</b>	AAC	<b>5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.37</b>	<b>±9.6</b>
10790	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
<b>10791</b>	AAC	<b>5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>7.83</b>	<b>±9.6</b>
10792	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
<b>10793</b>	AAC	<b>5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>7.95</b>	<b>±9.6</b>
10794	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10795	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
<b>10796</b>	AAC	<b>5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>7.82</b>	<b>±9.6</b>
10797	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	±9.6
<b>10798</b>	AAC	<b>5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>7.89</b>	<b>±9.6</b>
10799	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10801	AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
<b>10802</b>	AAC	<b>5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>7.87</b>	<b>±9.6</b>
10803	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, 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	8.37	±9.6
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10817	AAD	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
<b>10818</b>	AAD	<b>5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.34</b>	<b>±9.6</b>
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
<b>10820</b>	AAD	<b>5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.30</b>	<b>±9.6</b>
10821	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
<b>10822</b>	AAD	<b>5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.41</b>	<b>±9.6</b>
10823	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	±9.6
<b>10824</b>	AAD	<b>5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.39</b>	<b>±9.6</b>
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
<b>10827</b>	AAD	<b>5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)</b>	<b>5G NR FR1 TDD</b>	<b>8.42</b>	<b>±9.6</b>
10828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	±9.6

<b>UID</b>	<b>Rev</b>	<b>Communication System Name</b>	<b>Group</b>	<b>PAR (dB)</b>	<b>Unc<sup>E</sup> k = 2</b>
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	<b>±9.6</b>
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	<b>+9.6</b>
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	<b>±9.6</b>
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	<b>±9.6</b>
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	<b>±9.6</b>
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	<b>±9.6</b>
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	<b>±9.6</b>
10836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	<b>±9.6</b>
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	<b>±9.6</b>
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	<b>±9.6</b>
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	<b>±9.6</b>
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	<b>±9.6</b>
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	<b>±9.6</b>
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	<b>±9.6</b>
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	<b>±9.6</b>
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	<b>±9.6</b>
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	<b>±9.6</b>
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	<b>±9.6</b>
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	<b>±9.6</b>
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	<b>±9.6</b>
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	<b>±9.6</b>
10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	<b>±9.6</b>
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	<b>±9.6</b>
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	<b>±9.6</b>
10864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	<b>±9.6</b>
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	<b>±9.6</b>
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	<b>±9.6</b>
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	<b>±9.6</b>
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	<b>±9.6</b>
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	<b>±9.6</b>
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	<b>±9.6</b>
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	<b>±9.6</b>
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	<b>±9.6</b>
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	<b>±9.6</b>
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	<b>±9.6</b>
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	<b>±9.6</b>
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	<b>±9.6</b>
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	<b>±9.6</b>
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	<b>±9.6</b>
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	<b>±9.6</b>
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	<b>±9.6</b>
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	<b>±9.6</b>
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	<b>±9.6</b>
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	<b>±9.6</b>
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	<b>±9.6</b>
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	<b>±9.6</b>
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	<b>±9.6</b>
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	<b>±9.6</b>
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	<b>±9.6</b>
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	<b>±9.6</b>
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	<b>±9.6</b>
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	<b>±9.6</b>
10897	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	<b>±9.6</b>
10898	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	<b>±9.6</b>
10899	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	<b>±9.6</b>
10900	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	<b>±9.6</b>
10901	AAD	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	<b>±9.6</b>
10902	AAD	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	<b>±9.6</b>
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	<b>±9.6</b>
10904	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	<b>±9.6</b>
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	<b>±9.6</b>
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	<b>±9.6</b>
10907	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	<b>±9.6</b>
10908	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	<b>±9.6</b>
10909	AAD	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	<b>±9.6</b>
10910	AAD	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	<b>±9.6</b>

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10911	AAD	5G NR (DFT-s-OFDM, 50% RB, <b>25 MHz</b> , QPSK, 30 kHz)	5G NR FR1 TDD	5.93	<b>±9.6</b>
10912	AAD	5G NR (DFT-s-OFDM, <b>50% RB</b> , 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	<b>±9.6</b>
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, <b>40 MHz</b> , QPSK, 30 kHz)	5G NR FR1 TDD	5.84	<b>±9.6</b>
10914	AAD	<b>5G NR</b> (DFT-s-OFDM, <b>50% RB</b> , 50 MHz, QPSK, 30 kHz)	<b>5G NR FR1 TDD</b>	<b>5.85</b>	<b>±9.6</b>
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, <b>QPSK, 30 kHz</b> )	5G NR FR1 TDD	5.83	<b>±9.6</b>
10916	AAD	<b>5G NR</b> (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	<b>5G NR FR1 TDD</b>	<b>5.87</b>	<b>±9.6</b>
10917	AAD	5G NR (DFT-s-OFDM, <b>50% RB</b> , <b>100 MHz</b> , QPSK, 30 kHz)	5G NR FR1 TDD	5.94	<b>±9.6</b>
10918	AAD	<b>5G NR</b> (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	<b>5G NR FR1 TDD</b>	<b>5.86</b>	<b>±9.6</b>
10919	AAD	5G NR (DFT-s-OFDM, 100% RB, <b>10 MHz</b> , QPSK, 30 kHz)	5G NR FR1 TDD	5.86	<b>±9.6</b>
10920	AAD	<b>5G NR</b> (DFT-s-OFDM, 100% RB, <b>15 MHz</b> , QPSK, 30 kHz)	<b>5G NR FR1 TDD</b>	<b>5.87</b>	<b>±9.6</b>
10921	AAD	5G NR (DFT-s-OFDM, <b>100% RB</b> , <b>20 MHz</b> , QPSK, 30 kHz)	5G NR FR1 TDD	5.84	<b>±9.6</b>
10922	AAD	<b>5G NR</b> (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	<b>5G NR FR1 TDD</b>	5.82	<b>±9.6</b>
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, <b>30 MHz</b> , QPSK, 30 kHz)	5G NR FR1 TDD	5.84	<b>±9.6</b>
10924	AAD	<b>5G NR</b> (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, <b>30 kHz</b> )	<b>5G NR FR1 TDD</b>	5.84	<b>±9.6</b>
10925	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	<b>±9.6</b>
10926	AAD	5G NR (DFT-s-OFDM, <b>100% RB</b> , <b>60 MHz</b> , QPSK, 30 kHz)	5G NR FR1 TDD	5.84	<b>±9.6</b>
10927	AAD	<b>5G NR</b> (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	<b>5G NR FR1 TDD</b>	5.94	<b>±9.6</b>
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, <b>15 kHz</b> )	5G NR FR1 FDD	5.52	<b>±9.6</b>
10929	AAD	<b>5G NR</b> (DFT-s-OFDM, <b>1 RB</b> , 10 MHz, QPSK, 15 kHz)	<b>5G NR FR1 FDD</b>	5.52	<b>±9.6</b>
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, <b>15 kHz</b> )	5G NR FR1 FDD	5.52	<b>±9.6</b>
10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	<b>±9.6</b>
10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, <b>15 kHz</b> )	5G NR FR1 FDD	5.51	<b>±9.6</b>
10933	AAA	<b>5G NR</b> (DFT-s-OFDM, <b>1 RB</b> , 30 MHz, QPSK, 15 kHz)	<b>5G NR FR1 FDD</b>	<b>5.51</b>	<b>±9.6</b>
10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, <b>15 kHz</b> )	5G NR FR1 FDD	5.51	<b>±9.6</b>
10935	AAA	<b>5G NR</b> (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	<b>5G NR FR1 FDD</b>	<b>5.51</b>	<b>±9.6</b>
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, <b>15 kHz</b> )	5G NR FR1 FDD	5.90	<b>±9.6</b>
10937	AAB	<b>5G NR</b> (DFT-s-OFDM, <b>50% RB</b> , 10 MHz, QPSK, 15 kHz)	<b>5G NR FR1 FDD</b>	<b>5.77</b>	<b>±9.6</b>
10938	AAB	5G NR (DFT-s-OFDM, 50% RB, <b>15 MHz</b> , QPSK, 15 kHz)	5G NR FR1 FDD	5.90	<b>±9.6</b>
10939	AAB	<b>5G NR</b> (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	<b>5G NR FR1 FDD</b>	<b>5.82</b>	<b>±9.6</b>
10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, <b>15 kHz</b> )	5G NR FR1 FDD	5.89	<b>±9.6</b>
10941	AAB	<b>5G NR</b> (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	<b>5G NR FR1 FDD</b>	<b>5.83</b>	<b>±9.6</b>
10942	AAB	5G NR (DFT-s-OFDM, <b>50% RB</b> , 40 MHz, QPSK, <b>15 kHz</b> )	5G NR FR1 FDD	5.85	<b>±9.6</b>
10943	AAB	<b>5G NR</b> (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	<b>5G NR FR1 FDD</b>	<b>5.95</b>	<b>±9.6</b>
10944	AAB	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, <b>15 kHz</b> )	5G NR FR1 FDD	5.81	<b>±9.6</b>
10945	AAB	<b>5G NR</b> (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	<b>5G NR FR1 FDD</b>	<b>5.85</b>	<b>±9.6</b>
10946	AAC	5G NR (DFT-s-OFDM, <b>100% RB</b> , <b>15 MHz</b> , QPSK, 15 kHz)	5G NR FR1 FDD	5.83	<b>±9.6</b>
10947	AAB	<b>5G NR</b> (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	<b>5G NR FR1 FDD</b>	<b>5.87</b>	<b>±9.6</b>
10948	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, <b>15 kHz</b> )	5G NR FR1 FDD	5.94	<b>±9.6</b>
10949	AAB	<b>5G NR</b> (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	<b>5G NR FR1 FDD</b>	5.87	<b>±9.6</b>
10950	AAB	5G NR (DFT-s-OFDM, <b>100% RB</b> , <b>40 MHz</b> , QPSK, 15 kHz)	5G NR FR1 FDD	5.94	<b>±9.6</b>
10951	AAB	<b>5G NR</b> (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, <b>15 kHz</b> )	<b>5G NR FR1 FDD</b>	5.92	<b>±9.6</b>
10952	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	<b>±9.6</b>
10953	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	<b>±9.6</b>
10954	AAB	<b>5G NR DL</b> (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	<b>5G NR FR1 FDD</b>	<b>8.23</b>	<b>±9.6</b>
10955	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, <b>15 kHz</b> )	5G NR FR1 FDD	8.42	<b>±9.6</b>
10956	AAB	<b>5G NR DL</b> (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	<b>5G NR FR1 FDD</b>	<b>8.14</b>	<b>±9.6</b>
10957	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, <b>30 kHz</b> )	5G NR FR1 FDD	8.31	<b>±9.6</b>
10958	AAB	5G NR DL (CP-OFDM, <b>TM 3.1</b> , 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	<b>±9.6</b>
10959	AAB	<b>5G NR DL</b> (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	<b>5G NR FR1 FDD</b>	<b>8.33</b>	<b>±9.6</b>
10960	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	<b>±9.6</b>
10961	AAB	<b>5G NR DL</b> (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	<b>5G NR FR1 TDD</b>	<b>9.36</b>	<b>±9.6</b>
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, <b>15 MHz</b> , 64-QAM, <b>15 kHz</b> )	5G NR FR1 TDD	9.40	<b>±9.6</b>
10963	AAB	<b>5G NR DL</b> (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	<b>5G NR FR1 TDD</b>	9.55	<b>±9.6</b>
10964	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	<b>±9.6</b>
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	<b>±9.6</b>
10966	AAB	5G NR DL (CP-OFDM, <b>TM 3.1</b> , 15 MHz, 64-QAM, <b>30 kHz</b> )	5G NR FR1 TDD	9.55	<b>±9.6</b>
10967	AAB	<b>5G NR DL</b> (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	<b>5G NR FR1 TDD</b>	<b>9.42</b>	<b>±9.6</b>
10968	AAB	5G NR DL (CP-OFDM, <b>TM 3.1</b> , 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	<b>±9.6</b>
10972	AAB	<b>5G NR</b> (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	<b>5G NR FR1 TDD</b>	<b>11.59</b>	<b>±9.6</b>
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, <b>100 MHz</b> , QPSK, <b>30 kHz</b> )	5G NR FR1 TDD	9.06	<b>±9.6</b>
10974	AAB	<b>5G NR</b> (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	<b>5G NR FR1 TDD</b>	<b>10.28</b>	<b>±9.6</b>
10978	AAA	ULLA BDR	ULLA	2.23	<b>±9.6</b>
10979	AAA	ULLA HDR4	ULLA	7.02	<b>±9.6</b>
10980	AAA	ULLA HDR8	ULLA	8.82	<b>±9.6</b>
10981	AAA	ULLA HDRp4	ULLA	1.50	<b>±9.6</b>
10982	AAA	ULLA HDRp8	ULLA	1.44	<b>±9.6</b>

<b>UID</b>	<b>Rev</b>	<b>Communication System Name</b>	<b>Group</b>	<b>PAR (dB)</b>	<b>Unc<sup>E</sup> k = 2</b>
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>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.

Dipole D835V2 SN <b>4d256</b>				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
2020-04-15	-33.2	/	49.5	/
2021-04-14	-34.1	2.71%	50.6	1.1Ω
2022-04-13	-34.3	-3.31%	51.1	1.6Ω

Dipole D1750V2 SN <b>1105</b>				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
2020-08-29	-30.8	/	51.5	/
2021-08-28	-29.6	3.90%	52.3	1.7Ω
2022-08-27	-30.3	1.62%	52.1	1.5Ω

Dipole D1900V2 SN <b>5d114</b>				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
2020-08-27	-23.2	/	51.9	/
2021-08-26	-24.3	4.74%	52.6	0.7Ω
2022-08-25	-23.8	-2.59%	52.3	0.4Ω

Dipole D2450V2 SN <b>1038</b>				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
2020-04-08	-30.5	/	52.3	/
2021-04-07	-31.7	3.93%	53.6	1.3Ω
2022-04-06	-31.2	2.30%	53.1	0.8Ω

Dipole D2600V2 SN <b>1180</b>				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
2021/5/12	-29.77	/	47.2	/
2022/5/11	-28.6	4.03%	48.1	-0.9Ω

Dipole D3500V2 SN <b>1124</b>				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
2021/5/17	-32.7	/	51.3	/
2022/5/16	-31.8	2.75%	50.6	0.7Ω

Dipole D3700V2 SN <b>1094</b>				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
2021/5/17	-26.9		45.7	
2022/5/16	-26.1	3.0%	45.2	0.50

Dipole D3900V2 SN <b>1171</b>				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
2021/5/20	-26.1		47.4	
2022/5/19	-25.5	2.3%	48.1	0.7Ω