# APPENDIX G: CALIBRATION CERTIFICATES

# Calibration Laboratory of Schmid & Partner Engineering AG





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

Accreditation No.: SCS 0108

Zeughausstrasse 43, 8004 Zurich, Switzerland
Accredited by the Swiss Accreditation Service (SAS)

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

Client Element

Morgan Hill, USA

Certificate No. D750V3-1097\_Sep23

# CALIBRATION CERTIFICATE

Object

D750V3 - SN:1097

Calibration procedure(s)

QA CAL-05.v12

Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

Calibration date:

September 13, 2023

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 7349	10-Jan-23 (No. EX3-7349_Jan23)	Jan-24
DAE4	SN: 601	19-Dec-22 (No. DAE4-601_Dec22)	Dec-23
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
	Name	Function	Signature
Calibrated by:	Paulo Pina	Laboratory Technician	
			Cap to the same of
Approved by:	Sven Kühn	Technical Manager	

Issued: September 14, 2023

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

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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Glossarv:

TSL

tissue simulating liquid

ConvF

sensitivity in TSL / NORM x,y,z

N/A

not applicable or not measured

Calibration is Performed According to the Following Standards:

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

#### Additional Documentation:

c) DASY System Handbook

# Methods Applied and Interpretation of Parameters:

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

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

#### **Measurement Conditions**

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz ± 1 MHz	

# **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.4 ± 6 %	0.90 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

# SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.08 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.27 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.35 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.38 W/kg ± 16.5 % (k=2)

# **Body TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	55.8 ± 6 %	0.96 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		74. W 17. M

# SAR result with Body TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.16 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	8.67 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.43 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	5.71 W/kg ± 16.5 % (k=2)

Certificate No: D750V3-1097\_Sep23 Page 3 of 8

# Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	55.2 Ω + 2.5 jΩ
Return Loss	- 25.2 dB

# Antenna Parameters with Body TSL

Impedance, transformed to feed point	48.9 Ω - 3.2 jΩ
Return Loss	- 29,2 dB

## General Antenna Parameters and Design

Electrical Delay (one direction)	1.038 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

#### **Additional EUT Data**

Manufactured by SPEAG	

Certificate No: D750V3-1097\_Sep23

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

Date: 13.09.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1097

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz;  $\sigma = 0.9 \text{ S/m}$ ;  $\varepsilon_r = 42.4$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### **DASY52** Configuration:

• Probe: EX3DV4 - SN7349; ConvF(10.11, 10.11, 10.11) @ 750 MHz; Calibrated: 10.01.2023

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

• Electronics: DAE4 Sn601; Calibrated: 19.12.2022

Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

### Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 59.61 V/m; Power Drift = -0.03 dB

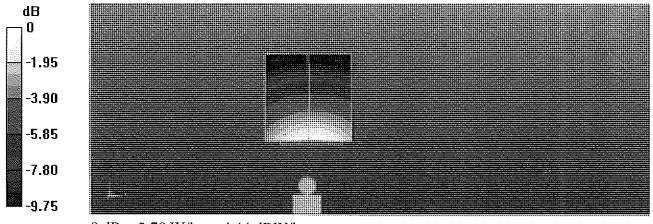
Peak SAR (extrapolated) = 3.17 W/kg

SAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.35 W/kg

Smallest distance from peaks to all points 3 dB below = 16.8 mm

Ratio of SAR at M2 to SAR at M1 = 65.4%

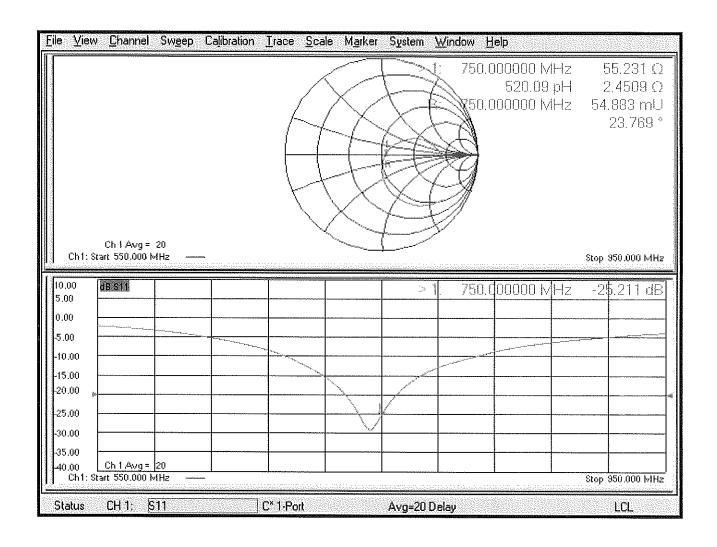
Maximum value of SAR (measured) = 2.78 W/kg



0 dB = 2.78 W/kg = 4.44 dBW/kg

Certificate No: D750V3-1097\_Sep23

# Impedance Measurement Plot for Head TSL



#### DASY5 Validation Report for Body TSL

Date: 05.09.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1097

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz;  $\sigma = 0.96 \text{ S/m}$ ;  $\varepsilon_r = 55.8$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(10.23, 10.23, 10.23) @ 750 MHz; Calibrated: 10.01.2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 19.12.2022

Phantom: Flat Phantom 4.9 (Back); Type: QD 00R P49 AA; Serial: 1005

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

# Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 58.05 V/m; Power Drift = 0.03 dB

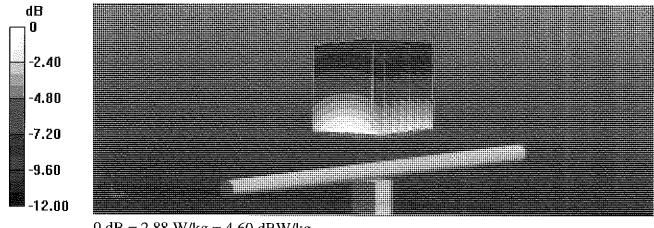
Peak SAR (extrapolated) = 3.25 W/kg

SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.43 W/kg

Smallest distance from peaks to all points 3 dB below = 20.5 mm

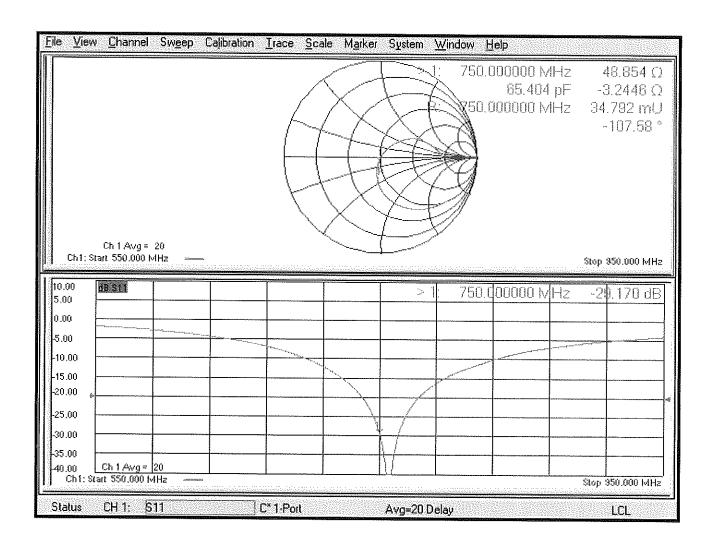
Ratio of SAR at M2 to SAR at M1 = 66.6%

Maximum value of SAR (measured) = 2.88 W/kg



0 dB = 2.88 W/kg = 4.60 dBW/kg

# Impedance Measurement Plot for Body TSL



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





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Accreditation No.: SCS 0108

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Client

Element

Certificate No: D750V3-1057\_May22

CALIBRATION	CERTIFICATE
Object	D750V3 - SN:1057
Calibration procedure(s)	QA CAL-05.v11 Calibration Procedure for SAR Validation Sources between 0.7-3 GHz
Calibration date:	May 16, 2022 YW 5/31/2024 . / YW 5/24/2023

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

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

Calibration Equipment used (M&TE critical for calibration)

			ı
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
Power sensor NRP-Z91	SN: 103245	04-Apr-22 (No. 217-03525)	Арт-23
Reference 20 dB Attenuator	SN: BH9394 (20k)	04-Apr-22 (No. 217-03527)	Apr-23
Type-N mismatch combination	SN: 310982 / 06327	04-Apr-22 (No. 217-03528)	Apr-23
Reference Probe EX3DV4	SN: 7349	31-Dec-21 (No. EX3-7349_Dec21)	Dec-22
DAE4	SN: 601	02-May-22 (No. DAE4-601_May22)	May-23
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-20)	In house check: Oct-22
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22
	Name	Function	Signature
Calibrated by:	Aldonia Georgiadou	Laboratory Technician	
			Mal
Approved by:	Sven Kühn	Technical Manager	
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Issued: May 17, 2022

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





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Swiss Calibration Service

Accreditation No.: SCS 0108

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

#### Glossary:

TSL

tissue simulating liquid

ConvF

sensitivity in TSL / NORM x,y,z

N/A not applicable or not measured

## Calibration is Performed According to the Following Standards:

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

#### **Additional Documentation:**

c) DASY System Handbook

#### Methods Applied and Interpretation of Parameters:

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

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

#### **Measurement Conditions**

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, $dy$ , $dz = 5 mm$	
Frequency	750 MHz ± 1 MHz	

# **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0,89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.9 ± 6 %	0.89 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

# SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.14 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.51 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.40 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.58 W/kg ± 16.5 % (k=2)

# **Body TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.1 ± 6 %	0.95 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

# SAR result with Body TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.19 W/kg
SAR for nominal Body TSL parameters	normalized to 1W <sup>°</sup>	8.80 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.45 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	5.80 W/kg ± 16.5 % (k=2)

Certificate No: D750V3-1057\_May22 Page 3 of 8

#### Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.7 Ω - 1.5 jΩ
Return Loss	- 30.4 dB

#### **Antenna Parameters with Body TSL**

Impedance, transformed to feed point	48.3 Ω - 6.0 jΩ
Return Loss	- 23.9 dB

### **General Antenna Parameters and Design**

Electrical Delay (one direction)	1.038 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

#### **Additional EUT Data**

Manufactured by	SPEAG

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

Date: 16.05,2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1057

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz;  $\sigma = 0.89 \text{ S/m}$ ;  $\varepsilon_r = 40.9$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(10.11, 10.11, 10.11) @ 750 MHz; Calibrated: 31.12.2021

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

Electronics: DAE4 Sn601; Calibrated: 02.05.2022

Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001

• DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

# Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 59.41 V/m; Power Drift = -0.02 dB

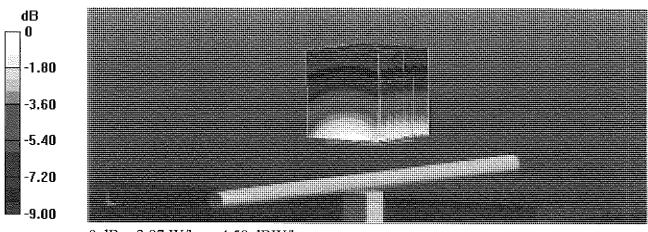
Peak SAR (extrapolated) = 3.28 W/kg

SAR(1 g) = 2.14 W/kg; SAR(10 g) = 1.4 W/kg

Smallest distance from peaks to all points 3 dB below = 17 mm

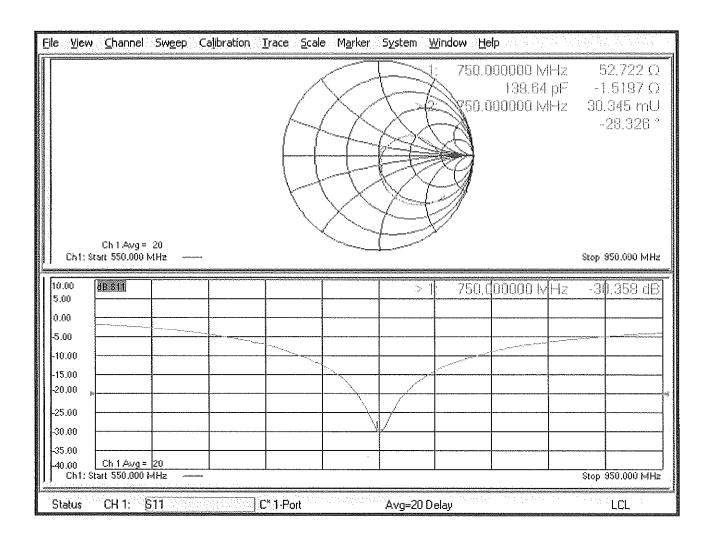
Ratio of SAR at M2 to SAR at M1 = 65.1%

Maximum value of SAR (measured) = 2.87 W/kg



0 dB = 2.87 W/kg = 4.58 dBW/kg

# Impedance Measurement Plot for Head TSL



#### **DASY5 Validation Report for Body TSL**

Date: 16.05.2022

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1057** 

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz;  $\sigma = 0.95$  S/m;  $\varepsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

#### DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(10.23, 10.23, 10.23) @ 750 MHz; Calibrated: 31.12.2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 02.05.2022

Phantom: Flat Phantom 4.9 (Back); Type: QD 00R P49 AA; Serial: 1005

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

### Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 58.35 V/m; Power Drift = 0.01 dB

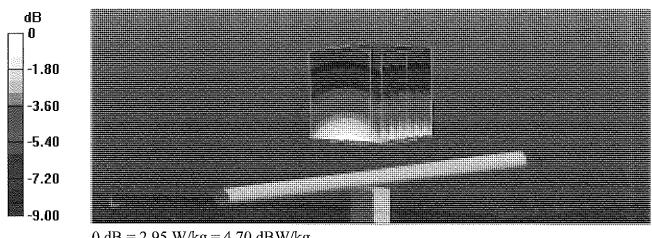
Peak SAR (extrapolated) = 3.38 W/kg

#### SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.45 W/kg

Smallest distance from peaks to all points 3 dB below = 18.4 mm

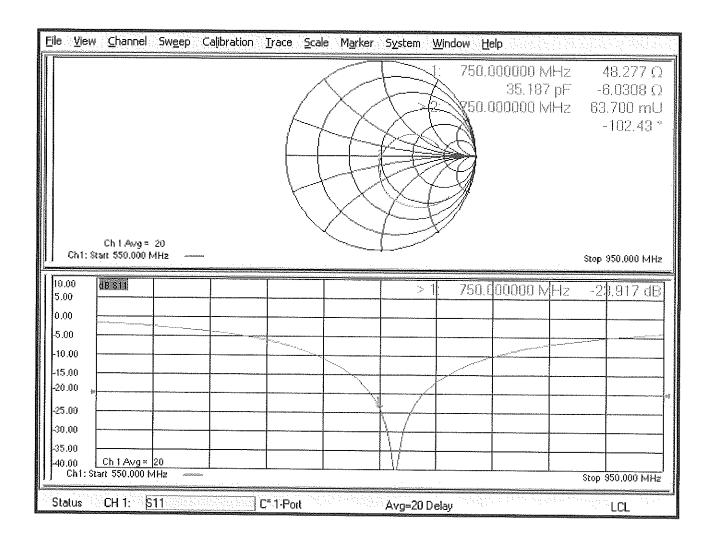
Ratio of SAR at M2 to SAR at M1 = 65.5%

Maximum value of SAR (measured) = 2.95 W/kg



0 dB = 2.95 W/kg = 4.70 dBW/kg

# Impedance Measurement Plot for Body TSL





# Element Materials Technology Morgan Hill



Morgan Hill

18855 Adams Ct, Morgan Hill, CA 95037 USA
Tel. +1.410.290.6652 / Fax +1.410.290.6654
http://www.element.com

# **Certification of Calibration**

Object D750V3 – SN: 1057

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extended Calibration date: May 16, 2023

Description: SAR Validation Dipole at 750 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/14/2022	Annual	6/14/2023	US39170118
Agilent	E4438C	ESG Vector Signal Generator	11/17/2022	Annual	11/17/2023	MY45093852
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Rohde & Schwarz	NRX	Power Meter	1/11/2023	Annual	1/11/2024	102583
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	5/19/2022	Annual	5/19/2023	106562
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	5/19/2022	Annual	5/19/2023	106559
Traceable	4040 90080-06	Therm./ Clock/ Humidity Monitor	5/11/2022	Biennial	5/11/2024	221514974
Control Company	4353	Long Stem Thermometer	9/10/2021	Biennial	9/10/2023	210774685
Agilent	85033E	3.5mm Standard Calibration Kit	6/21/2022	Annual	6/21/2023	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	8/15/2022	Annual	8/15/2023	1041
SPEAG	EX3DV4	SAR Probe	2/13/2023	Annual	2/13/2024	7427
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/15/2023	Annual	2/15/2024	1403

## Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer I	10
Approved By:	Greg Snyder	Executive VP of Operations	Sugge M. Sola

Object:	Date Issued:	Page 1 of 4
D750V3 - SN: 1057	05/16/2023	rage 1014

## **DIPOLE CALIBRATION EXTENSION**

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

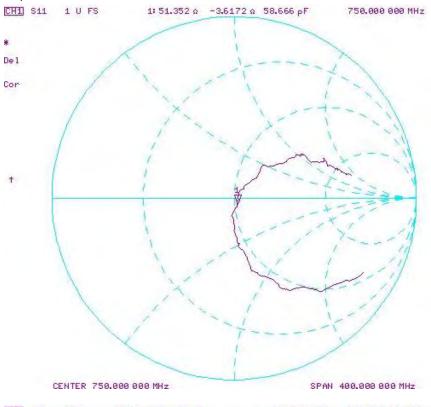
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than  $5\Omega$  from the previous measurement.

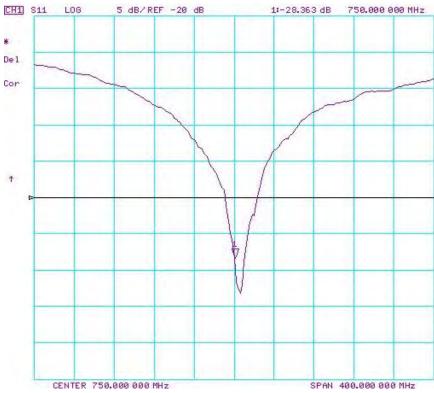
The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from the calibration date:

Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 23.0 dBm	Measured Head SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 23.0 dBm		Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary		Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
5/16/2022	5/16/2023	1.038	1.702	1.59	-6.58%	1.12	1.05	-5.91%	52.7	51.4	1.3	-1.5	-3.6	2.1	-30.4	-28.4	6.70%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Body (1g) W/kg @ 23.0 dBm	Measured Body SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 23.0 dBm	Measured Body SAR (10g) W/kg @ 23.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary		Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
5/16/2022	5/16/2023	1.038	1.76	1.66	-5.68%	1.16	1.13	-2.59%	48.3	46.7	1.6	-6	-3.8	2.2	-23.9	-25.5	-6.80%	PASS

Object:	Date Issued:	Page 2 of 4
D750V3 - SN: 1057	05/16/2023	1 age 2 01 4

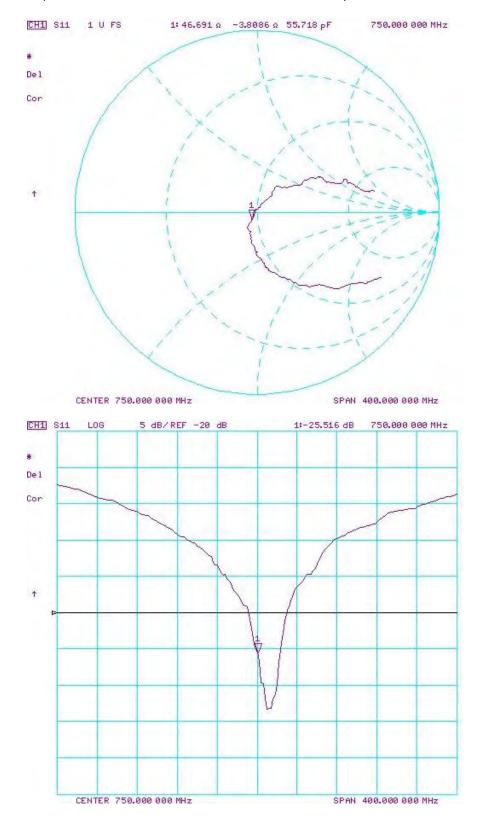
#### Impedance & Return-Loss Measurement Plot for Head TSL





Object:	Date Issued:	Page 3 of 4
D750V3 – SN: 1057	05/16/2023	Page 3 of 4

# Impedance & Return-Loss Measurement Plot for Body TSL



Object:	Date Issued:	Page 4 of 4
D750V3 - SN: 1057	05/16/2023	Page 4 of 4

# element

#### **ELEMENT MATERIALS TECHNOLOGY**

(formerly PCTEST)
18855 Adams Ct, Morgan Hill, CA 95037 USA
Tel. +1.408.538.5600
http://www.element.com



# **Certification of Calibration**

Object D750V3 – SN: 1057

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extension Calibration date: May 16, 2024

Description: SAR Validation Dipole at 750 MHz.

# Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/2/2023	Annual	6/12/2024	MY40003841
Agilent	E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY45092078
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	ML2496A	Power Meter	6/15/2023	Annual	6/15/2024	1138001
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	2018527
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	1827528
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Control Company	4353	Ultra Long Stem Thermometer	10/24/2023	Annual	10/24/2024	200645916
Agilent	85033E	3.5mm Standard Calibration Kit	7/18/2023	Annual	7/18/2024	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	9/11/2023	Annual	9/11/2024	1045
SPEAG	EX3DV4	SAR Probe	10/2/2023	Annual	10/2/2024	3949
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/12/2023	Annual	9/12/2024	1684

## Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer	10
Approved By:	Greg Snyder	Executive VP of Operations	LuggedSpl

Object:	Date Issued:	Page 1 of 3
D750V3 – SN: 1057	05/16/2024	Page 1 of 3

#### **DIPOLE CALIBRATION EXTENSION**

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

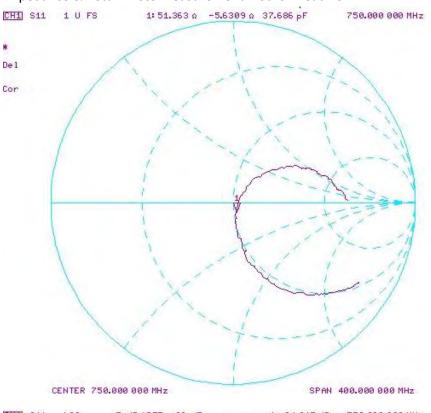
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than  $5\Omega$  from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from the calibration date:

Calibratio Date	n Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 23.0 dBm	Measured Head SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 23.0 dBm	Measured Head SAR (10g) W/kg @ 23.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real					(Ohm)	Certificate Return Loss Head (dB)		Deviation (%)	
5/16/202	2 5/16/2024	1.038	1.7	1.75	2.82%	1.12	1.15	3.05%	52.7	51.4	1.3	-1.5	-5.6	4.1	-30.4	-24.3	19.90%	

Object:	Date Issued:	Page 2 of 3
D750V3 – SN: 1057	05/16/2024	rage 2 01 3

#### Impedance & Return-Loss Measurement Plot for Head TSL





Object:	Date Issued:	Page 3 of 3
D750V3 – SN: 1057	05/16/2024	rage 3 01 3

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





S Schweizerischer Kalibrierdienst
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Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

Client

Element

Certificate No: D835V2-4d108 Nov22

Accreditation No.: SCS 0108

1411DDATION OPPOSITION TO

CALIBRATION CERTIFICATE

Object D835V2 SN:4d108

Calibration procedure(s) QA CAL-05.v11

Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

12/6/20

Calibration date:

November 18, 2022

✓ YW 12/13/2023

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

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

Calibration Equipment used (M&TE critical for calibration)

Delenant Ottt-	1.5 "		
Primary Standards	[D#	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
Power sensor NRP-Z91	SN: 103245	04-Apr-22 (No. 217-03525)	Apr-23
Reference 20 dB Attenuator	SN: BH9394 (20k)	04-Apr-22 (No. 217-03527)	Apr-23
Type-N mismatch combination	SN: 310982 / 06327	04-Apr-22 (No. 217-03528)	Apr-23
Reference Probe EX3DV4	SN: 7349	31-Dec-21 (No. EX3-7349_Dec21)	Dec-22
DAE4	SN: 601	31-Aug-22 (No. DAE4-601_Aug22)	Aug-23
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Sven Kühn	Technical Manager	
		[2]	

Issued: November 18, 2022

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

Certificate No: D835V2-4d108\_Nov22

Page 1 of 8

# **Calibration Laboratory of**

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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

#### Glossary:

TSL

tissue simulating liquid

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

Calibration is Performed According to the Following Standards:

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

#### Additional Documentation:

c) DASY System Handbook

#### Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D835V2-4d108\_Nov22

#### **Measurement Conditions**

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	Mandadaharan 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz ± 1 MHz	

### **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41,5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.7 ± 6 %	0.91 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		~~~

### SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.48 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.80 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.60 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	6.34 W/kg ± 16.5 % (k=2)

## **Body TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.97 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	55.2 ± 6 %	0.98 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		No. on M on

# SAR result with Body TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.46 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	9.76 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.61 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	6.41 W/kg ± 16.5 % (k=2)

Certificate No: D835V2-4d108\_Nov22 Page 3 of 8

## Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.5 Ω - 2.1 jΩ
Return Loss	- 31.8 dB

#### **Antenna Parameters with Body TSL**

Impedance, transformed to feed point	47.1 Ω - 6.7 jΩ
Return Loss	- 22.5 dB

#### **General Antenna Parameters and Design**

Fleetwie-LD-L/	4.004
Electrical Delay (one direction)	1.394 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

#### **Additional EUT Data**

Manufactured by	SPEAG

#### DASY5 Validation Report for Head TSL

Date: 18.11.2022

Test Laboratory: SPEAG, Zurich, Switzerland

#### DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d108

Communication System: UID 0 - CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz;  $\sigma = 0.91$  S/m;  $\varepsilon_r = 40.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

#### DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(9.69, 9.69, 9.69) @ 835 MHz; Calibrated: 31.12.2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 31.08.2022

Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

## Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 64.17 V/m; Power Drift = 0.01 dB

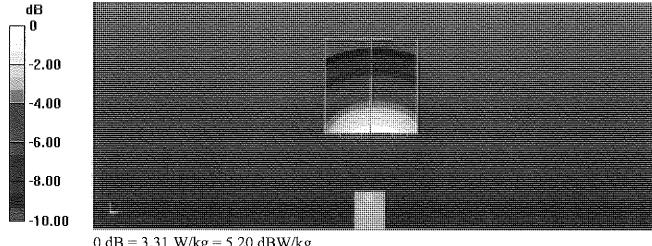
Peak SAR (extrapolated) = 3.75 W/kg

#### SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.6 W/kg

Smallest distance from peaks to all points 3 dB below = 16 mm

Ratio of SAR at M2 to SAR at M1 = 66%

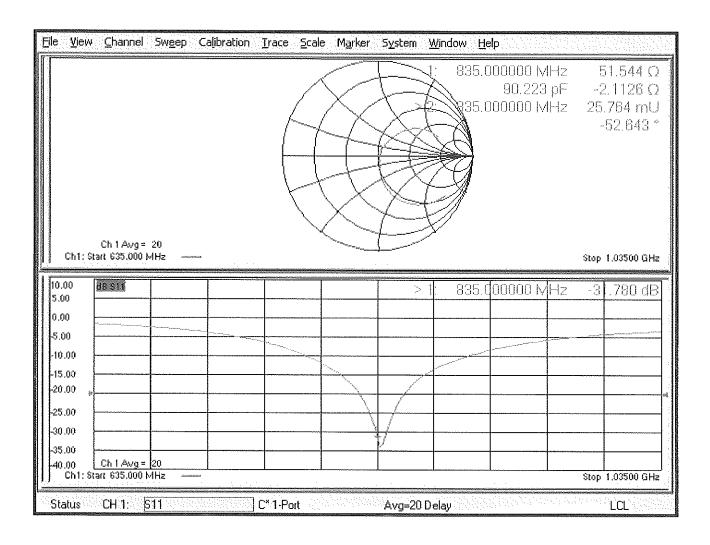
Maximum value of SAR (measured) = 3.31 W/kg



0 dB = 3.31 W/kg = 5.20 dBW/kg

Certificate No: D835V2-4d108 Nov22

# Impedance Measurement Plot for Head TSL



#### DASY5 Validation Report for Body TSL

Date: 18.11.2022

Test Laboratory: SPEAG, Zurich, Switzerland

#### DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d108

Communication System: UID 0 - CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz;  $\sigma = 0.98$  S/m;  $\varepsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

#### **DASY52** Configuration:

Probe: EX3DV4 - SN7349; ConvF(9.85, 9.85, 9.85) @ 835 MHz; Calibrated: 31.12.2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 31.08.2022

Phantom: Flat Phantom 4.9 (Back); Type: OD 00R P49 AA; Serial: 1005

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

## Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 58.04 V/m; Power Drift = 0.00 dB

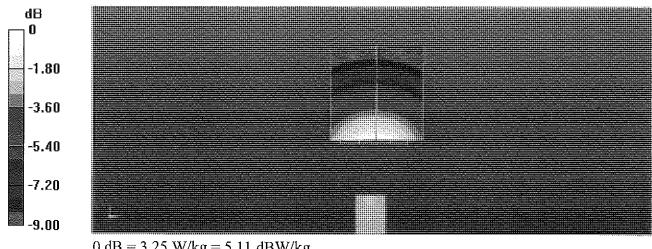
Peak SAR (extrapolated) = 3.61 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.61 W/kg

Smallest distance from peaks to all points 3 dB below = 16 mm

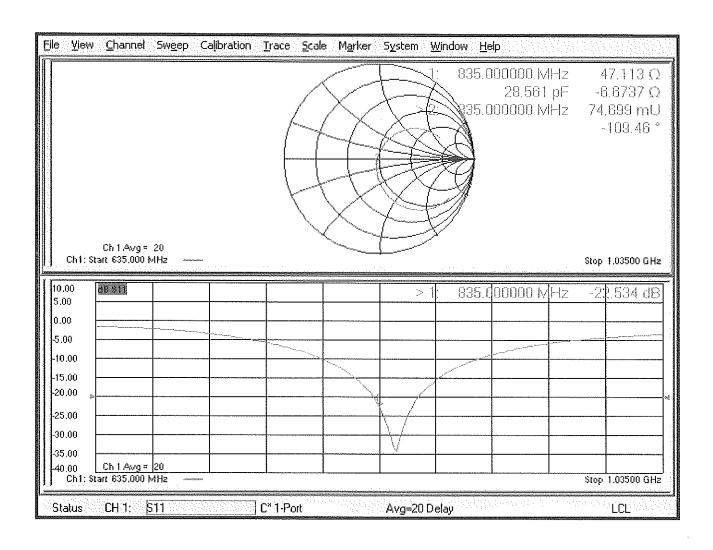
Ratio of SAR at M2 to SAR at M1 = 68.2%

Maximum value of SAR (measured) = 3.25 W/kg



0 dB = 3.25 W/kg = 5.11 dBW/kg

# Impedance Measurement Plot for Body TSL



# element

#### **ELEMENT MATERIALS TECHNOLOGY**

(formerly PCTEST) 18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.408.538.5600 http://www.element.com



# **Certification of Calibration**

Object D835V2 – SN: 4d108

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extension Calibration date: November 18, 2023

Description: SAR Validation Dipole at 835 MHz.

# Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/2/2023	Annual	6/12/2024	MY40003841
Agilent	E4438C	ESG Vector Signal Generator	4/25/2023	Annual	4/25/2024	US41460739
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Rohde & Schwarz	NRX	Power Meter	1/11/2023	Annual	1/11/2024	102583
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	1/19/2023	Annual	1/19/2024	106563
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	1/11/2023	Annual	1/11/2024	106564
Traceable	4040 90080-06	Therm./ Clock/ Humidity Monitor	5/11/2022	Biennial	5/11/2024	221514974
Control Company	4353	Ultra Long Stem Thermometer	10/24/2023	Annual	10/24/2024	200645916
Agilent	85033E	3.5mm Standard Calibration Kit	7/18/2023	Annual	7/18/2024	MY53402352
Mini-Circuits	Circuits VLF-6000+ Low Pass Filter DC to 6000 MHz		CBT	N/A	CBT	N/A
Narda	Narda 4772-3 Attenuator (3dB)		CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	nack NC-100 Torque Wrench		12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/9/2023	Annual	5/9/2024	1070
SPEAG	EX3DV4	SAR Probe	11/9/2023	Annual	11/9/2024	7639
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/14/2023	Annual	11/14/2024	1403

## Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer	10
Approved By:	Greg Snyder	Executive VP of Operations	LuggedSpl

Object:	Date Issued:	Page 1 of 3
D835V2 - SN: 4d108	11/18/2023	rage 1015

#### **DIPOLE CALIBRATION EXTENSION**

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

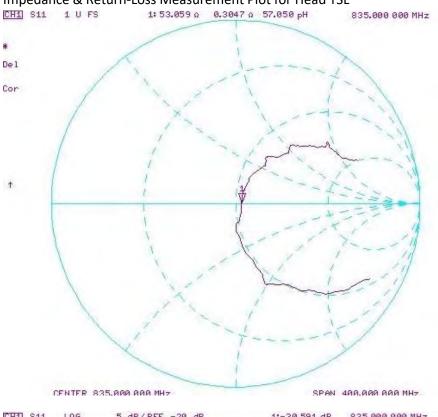
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than  $5\Omega$  from the previous measurement.

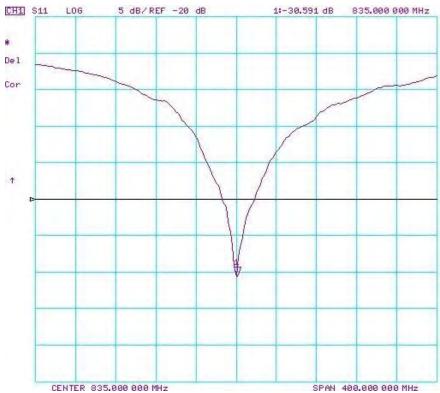
The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

Calibra Date		Cleatrical	Certificate SAR Target Head (1g) W/kg @ 23.0 dBm	Head SAR (1g)	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 23.0 dBm	Measured Head SAR (10g) W/kg @ 23.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary		Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)
11/18/2	022 11/18/2023	1.394	1.96	1.85	-5.61%	1.268	1.22	-3.79%	51.5	53.1	1.6	-2.1	0.3	2.4	-31.8	-30.6	3.80%

Object:	Date Issued:			
D835V2 - SN: 4d108	11/18/2023	Page 2 of 3		

#### Impedance & Return-Loss Measurement Plot for Head TSL





Object:	Date Issued:	Page 3 of 3
D835V2 – SN: 4d108	11/18/2023	Page 3 of 3

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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Client Element

Morgan Hill, USA

Certificate No. D1750V2-1104\_Sep23

# **CALIBRATION CERTIFICATE**

Object

D1750V2 - SN:1104

Calibration procedure(s)

QA CAL-05.v12

Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

9/28/2023

Calibration date:

September 06, 2023

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 7349	10-Jan-23 (No. EX3-7349_Jan23)	Jan-24
DAE4	SN: 601	19-Dec-22 (No. DAE4-601_Dec22)	Dec-23
Secondary Standards	ID#	Check Date (in house)	Cabadadad Ot
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	Scheduled Check
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972		In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
The state of the s	1011.0341000477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
	Name	Function	Signature /
Calibrated by:	Jeffrey Katzman	Laboratory Technician	- January
			11/16/1
Approved by:	Sven Kühn	Technical Manager	
			- Carrier

Issued: September 8, 2023

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

Certificate No: D1750V2-1104\_Sep23

## **Calibration Laboratory of**

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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

#### Glossary:

TSL

tissue simulating liquid

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

#### Calibration is Performed According to the Following Standards:

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

#### **Additional Documentation:**

c) DASY System Handbook

#### Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D1750V2-1104\_Sep23

Page 2 of 8

## **Measurement Conditions**

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1750 MHz ± 1 MHz	

### **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.1	1.37 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.5 ± 6 %	1.34 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	8.77 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	35.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	4.65 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	18.8 W/kg ± 16.5 % (k=2)

**Body TSL parameters**The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.4	1.49 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.0 ± 6 %	1.47 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

## SAR result with Body TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.20 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	37.2 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	4.91 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	19.8 W/kg ± 16.5 % (k=2)

Certificate No: D1750V2-1104\_Sep23 Page 3 of 8

## Appendix (Additional assessments outside the scope of SCS 0108)

## Antenna Parameters with Head TSL

Impedance, transformed to feed point	49.7 Ω - 1.6 jΩ
Return Loss	- 35.5 dB

## Antenna Parameters with Body TSL

Impedance, transformed to feed point	45.4 Ω - 1.2 jΩ
Return Loss	- 26.1 dB

## General Antenna Parameters and Design

Electrical Delay (one direction)	1.016 no
, ( - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1.216 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

#### **Additional EUT Data**

ufactured by	
ufactured by	SPEAG
	J J J J J J J J J J J J J J J J J J J

Certificate No: D1750V2-1104\_Sep23

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

Date: 01.09.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1104

Communication System: UID 0 - CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz;  $\sigma = 1.34 \text{ S/m}$ ;  $\varepsilon_r = 40.5$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(8.67, 8.67, 8.67) @ 1750 MHz; Calibrated: 10.01.2023

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

Electronics: DAE4 Sn601; Calibrated: 19.12.2022

Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

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

Reference Value = 103.0 V/m; Power Drift = 0.05 dB

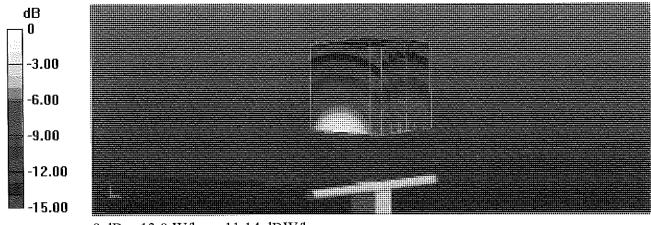
Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 8.77 W/kg; SAR(10 g) = 4.65 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

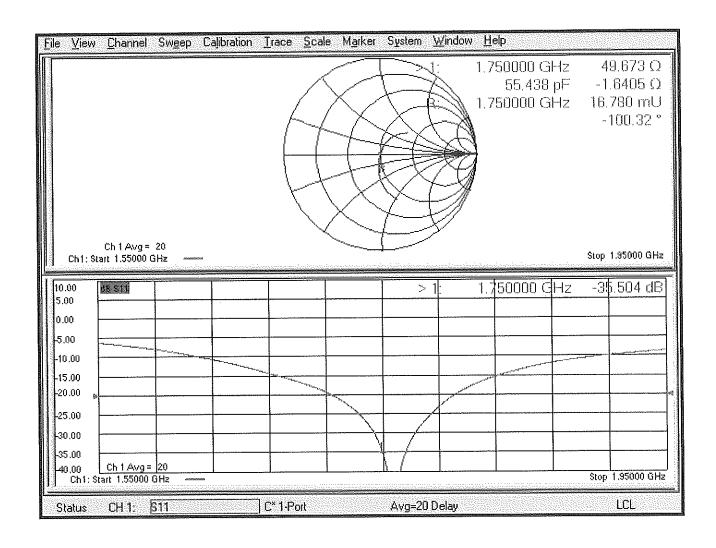
Ratio of SAR at M2 to SAR at M1 = 55.9%

Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 13.0 W/kg = 11.14 dBW/kg

## Impedance Measurement Plot for Head TSL



## **DASY5 Validation Report for Body TSL**

Date: 06.09.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1104

Communication System: UID 0 - CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz;  $\sigma = 1.47 \text{ S/m}$ ;  $\varepsilon_r = 54$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(8.48, 8.48, 8.48) @ 1750 MHz; Calibrated: 10.01.2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 19.12.2022

Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

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

Reference Value = 101.8 V/m; Power Drift = -0.05 dB

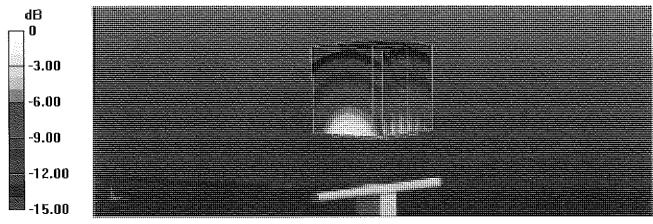
Peak SAR (extrapolated) = 16.3 W/kg

SAR(1 g) = 9.2 W/kg; SAR(10 g) = 4.91 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

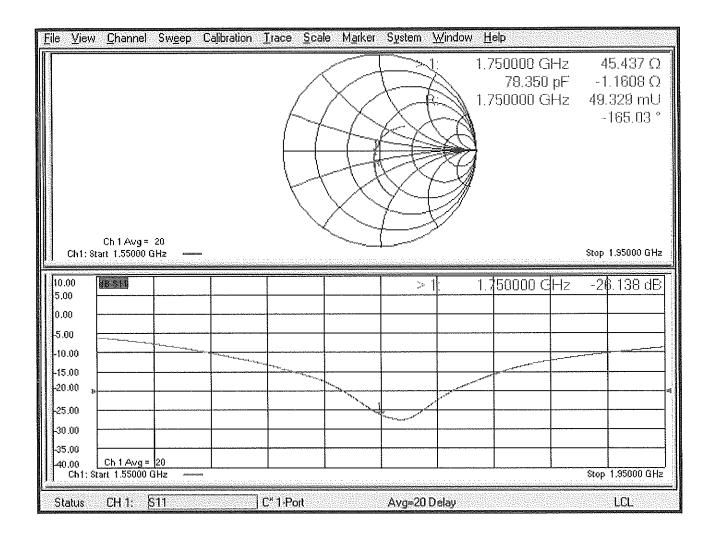
Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 13.8 W/kg



0 dB = 13.8 W/kg = 11.40 dBW/kg

## Impedance Measurement Plot for Body TSL



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





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Client

Element

Certificate No: D3500V2-1055\_Aug22

## **CALIBRATION CERTIFICATE**

Object

D3500V2 - SN:1055

Calibration procedure(s)

QA CAL-22.v6

Calibration Procedure for SAR Validation Sources between 3-10 GHz

Calibration date:

August 17, 2022

✓ YW 10/5/2023

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).

The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°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
Power sensor NRP-Z91	SN: 103245	04-Apr-22 (No. 217-03525)	Apr-23
Reference 20 dB Attenuator	SN: BH9394 (20k)	04-Apr-22 (No. 217-03527)	Apr-23
Type-N mismatch combination	SN: 310982 / 06327	04-Apr-22 (No. 217-03528)	Apr-23
Reference Probe EX3DV4	SN: 3503	08-Mar-22 (No. EX3-3503_Mar22)	Mar-23
DAE4	SN: 601	02-May-22 (No. DAE4-601_May22)	May-23
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-20)	In house check: Oct-22
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22
	Name	Function	Signature
Calibrated by:	Leif Klysner	Laboratory Technician	e Dam -
		7	THE ALLE
Approved by:	Niels Kuster	Quality Manager	
			/·/X

Issued: August 18, 2022

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





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Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL

tissue simulating liquid

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

Calibration is Performed According to the Following Standards:

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

#### **Additional Documentation:**

Certificate No: D3500V2-1055\_Aug22

c) DASY System Handbook

## Methods Applied and Interpretation of Parameters:

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

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

## **Measurement Conditions**

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4  mm, dz = 1.4  mm	Graded Ratio = 1.4 (Z direction)
Frequency	3500 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	2.91 mho/m 2.96 mho/m ± 6 %	
Nominal Head TSL parameters	22.0 °C	37.9		
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.4 ± 6 %		
Head TSL temperature change during test	< 0.5 °C			

#### SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.65 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	66.0 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.50 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.9 W/kg ± 19.5 % (k=2)

### **Body TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity	
Nominal Body TSL parameters	22.0 °C	51.3	3.31 mho/m	
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.5 ± 6 %	3.31 mho/m ± 6 %	
Body TSL temperature change during test	< 0.5 °C		**************************************	

## SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	6.38 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	63.8 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.40 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.0 W/kg ± 19.5 % (k=2)

Page 3 of 8 Certificate No: D3500V2-1055\_Aug22

## Appendix (Additional assessments outside the scope of SCS 0108)

#### **Antenna Parameters with Head TSL**

Impedance, transformed to feed point	52.5 Ω - 5.7 jΩ
Return Loss	- 24.3 dB

## **Antenna Parameters with Body TSL**

Impedance, transformed to feed point	52.5 Ω + 3.8 jΩ
Return Loss	- 27.1 dB

## **General Antenna Parameters and Design**

	111111111111111111111111111111111111111
Electrical Delay (one direction)	1.133 ns
, , , , , , , , , , , , , , , , , , , ,	

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

#### **Additional EUT Data**

Manufactured by	SPEAG
1	

Certificate No: D3500V2-1055\_Aug22

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

Date: 15.08.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2 - SN:1055

Communication System: UID 0 - CW; Frequency: 3500 MHz

Medium parameters used: f = 3500 MHz;  $\sigma = 2.96 \text{ S/m}$ ;  $\varepsilon_r = 37.4$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### DASY52 Configuration:

• Probe: EX3DV4 - SN3503; ConvF(7.91, 7.91, 7.91) @ 3500 MHz; Calibrated: 08.03.2022

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 02.05.2022

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

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=3500MHz/Zoom Scan,

dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 68.78 V/m; Power Drift = -0.03 dB

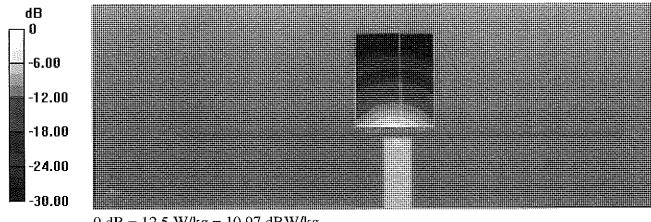
Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 6.65 W/kg; SAR(10 g) = 2.5 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 74.5%

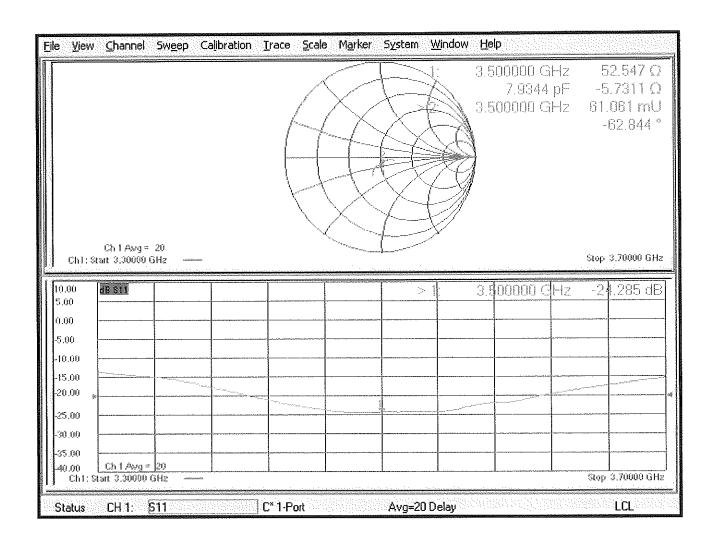
Maximum value of SAR (measured) = 12.5 W/kg



0 dB = 12.5 W/kg = 10.97 dBW/kg

Certificate No: D3500V2-1055\_Aug22

## Impedance Measurement Plot for Head TSL



### **DASY5 Validation Report for Body TSL**

Date: 17.08.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2 - SN:1055

Communication System: UID 0 - CW; Frequency: 3500 MHz

Medium parameters used: f = 3500 MHz;  $\sigma = 3.31 \text{ S/m}$ ;  $\varepsilon_r = 51.5$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### **DASY52 Configuration:**

Probe: EX3DV4 - SN3503; ConvF(7.46, 7.46, 7.46) @ 3500 MHz; Calibrated: 08.03.2022

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 02.05.2022

Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Body Tissue/Pin=100 mW, d=10mm, f=3500MHz/Zoom Scan,

dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 64.16 V/m; Power Drift = -0.08 dB

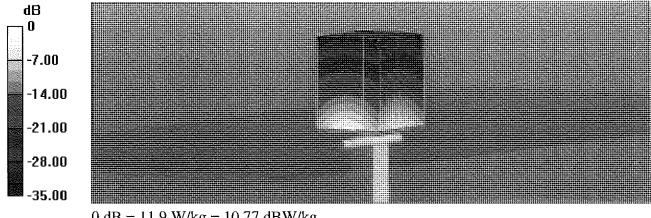
Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 6.38 W/kg; SAR(10 g) = 2.4 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

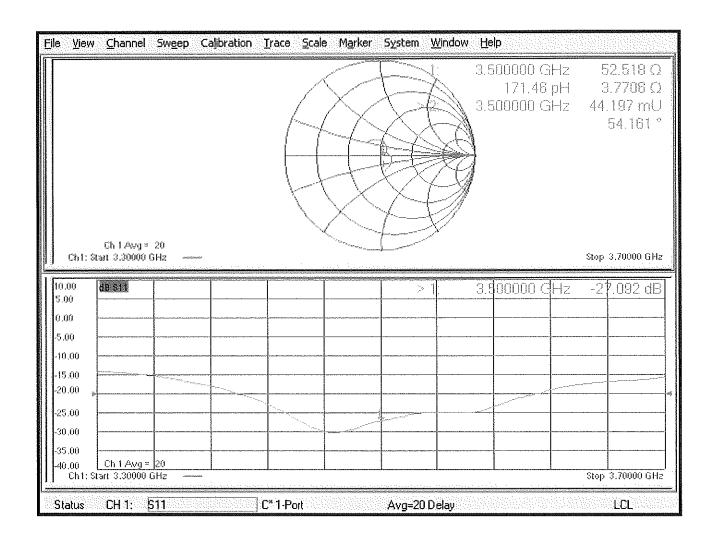
Ratio of SAR at M2 to SAR at M1 = 75.9%

Maximum value of SAR (measured) = 11.9 W/kg



0 dB = 11.9 W/kg = 10.77 dBW/kg

## Impedance Measurement Plot for Body TSL



# element

#### **ELEMENT MATERIALS TECHNOLOGY**

(formerly PCTEST) 18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.408.538.5600 http://www.element.com



# **Certification of Calibration**

Object D3500V2 – SN: 1055

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extension Calibration date: August 17, 2023

Description: SAR Validation Dipole at 3500 MHz.

## Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	7/21/2023	Annual	7/21/2024	US39170118
Agilent	E4438C	ESG Vector Signal Generator	11/17/2022	Annual	11/17/2023	MY45093852
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Rohde & Schwarz	NRX	Power Meter	1/11/2023	Annual	1/11/2024	102583
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	1/19/2023	Annual	1/19/2024	106563
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	1/11/2023	Annual	1/11/2024	106564
Traceable	4040 90080-06	Therm./ Clock/ Humidity Monitor	5/11/2022	Biennial	5/11/2024	221514974
Control Company	4353	Long Stem Thermometer	9/10/2021	Biennial	9/10/2023	210774685
Agilent	85033E	3.5mm Standard Calibration Kit	7/18/2023	Annual	7/18/2024	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/9/2023	Annual	5/9/2024	1041
SPEAG	EX3DV4	SAR Probe	3/16/2023	Annual	3/16/2024	7638
SPEAG	EX3DV4	SAR Probe	12/9/2022	Annual	12/9/2023	7490
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/13/2023	Annual	3/13/2024	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/13/2022	Annual	12/13/2023	1644

## Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer	40
Approved By:	Greg Snyder	Executive VP of Operations	LuggedSpl

Object:	Date Issued:	Page 1 of 4
D3500V2 – SN: 1055	08/17/2023	Page 1 of 4

### **DIPOLE CALIBRATION EXTENSION**

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

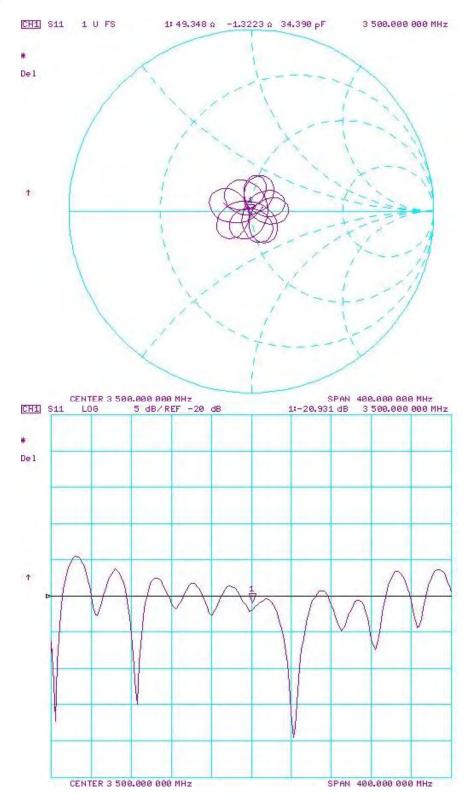
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than  $5\Omega$  from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from the calibration date:

Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 20.0 dBm	Measured Head SAR (1g) W/kg @ 20.0 dBm	(9/)		(10a) W/ka @	Deviation 10g (%)		Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
8/17/2022	8/17/2023	1.133	6.6	6.66	0.91%	2.49	2.53	1.61%	52.5	49.3	3.2	-5.7	-1.3	4.4	-24.3	-20.9	13.90%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Body (1g) W/kg @ 20.0 dBm	Measured Body SAR (1g) W/kg @ 20.0 dBm	(0/3		Measured Body SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary	Measured Impedance Body (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
8/17/2022	8/17/2023	1.133	6.38	6.76	5.96%	2.4	2.52	5.00%	52.5	49.5	3	3.8	2.2	1.6	-27.1	-24	11.60%	PASS

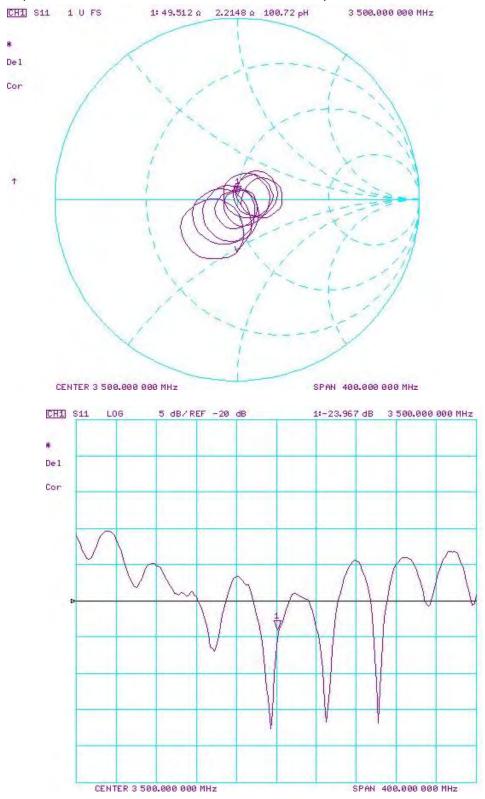
Object:	Date Issued:	Page 2 of 4
D3500V2 – SN: 1055	08/17/2023	Faye 2 01 4

#### Impedance & Return-Loss Measurement Plot for Head TSL



Object:	Date Issued:	Page 3 of 4
D3500V2 – SN: 1055	08/17/2023	Page 3 of 4

## Impedance & Return-Loss Measurement Plot for Body TSL



Object:	Date Issued:	Page 4 of 4
D3500V2 - SN: 1055	08/17/2023	Page 4 of 4

## Calibration Laboratory of Schmid & Partner

**Engineering AG** 

Zeughausstrasse 43, 8004 Zurich, Switzerland





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Client Element

Morgan Hill, USA

Certificate No. D3500V2-1126\_Jun24

## CALIBRATION CERTIFICATE

D3500V2 - SN:1126 Object

QA CAL-22.v7 Calibration procedure(s)

Calibration Procedure for SAR Validation Sources between 3-10 GHz

June 10, 2024 Calibration date:

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
Power sensor NRP-Z91	SN: 103245	26-Mar-24 (No. 217-04037)	Mar-25
Reference 20 dB Attenuator	SN: BH9394 (20k)	26-Mar-24 (No. 217-04046)	Mar-25
Type-N mismatch combination	SN: 310982 / 06327	26-Mar-24 (No. 217-04047)	Mar-25
Reference Probe EX3DV4	SN: 3503	07-Mar-24 (No. EX3-3503_Mar24)	Mar-25
DAE4	SN: 601	22-May-24 (No. DAE4-601_May24)	Мау-25
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
	Name	Function	Signature
Calibrated by:	Leif Klysner	Laboratory Technician	Seef Tilger
Approved by:	Sven Kühn	Technical Manager	; A. A. MILL

Issued: June 10, 2024

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Certificate No: D3500V2-1126\_Jun24

Page 1 of 6

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Multilateral Agreement for the recognition of calibration certificates

#### Glossary:

**TSL** 

tissue simulating liquid

ConvF

sensitivity in TSL / NORM x,y,z

N/A not applicable or not measured

## Calibration is Performed According to the Following Standards:

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

#### **Additional Documentation:**

c) DASY System Handbook

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

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

### **Measurement Conditions**

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4  mm, dz = 1.4  mm	Graded Ratio = 1.4 (Z direction)
Frequency	3500 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	37.9	2.91 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.6 ± 6 %	2.94 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		<del></del>

### SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.61 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	66.2 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.49 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	25.0 W/kg ± 19.5 % (k=2)

Certificate No: D3500V2-1126\_Jun24

## Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.1 Ω - 1.6 jΩ
Return Loss	- 31.8 dB

## General Antenna Parameters and Design

Electrical Delay (one direction)	1.133 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### **Additional EUT Data**

Manufactured by	SPEAG

Certificate No: D3500V2-1126\_Jun24

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

Date: 10.06.2024

Test Laboratory: SPEAG, Zurich, Switzerland

## DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2 - SN:1126

Communication System: UID 0 - CW; Frequency: 3500 MHz

Medium parameters used: f = 3500 MHz;  $\sigma = 2.94 \text{ S/m}$ ;  $\varepsilon_r = 38.6$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### DASY52 Configuration:

Probe: EX3DV4 - SN3503; ConvF(7.63, 7.63, 7.63) @ 3500 MHz; Calibrated: 07.03.2024

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

Electronics: DAE4 Sn601; Calibrated: 22.05.2024

Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

## Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=3500MHz/Zoom Scan,

dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 68.84 V/m; Power Drift = 0.02 dB

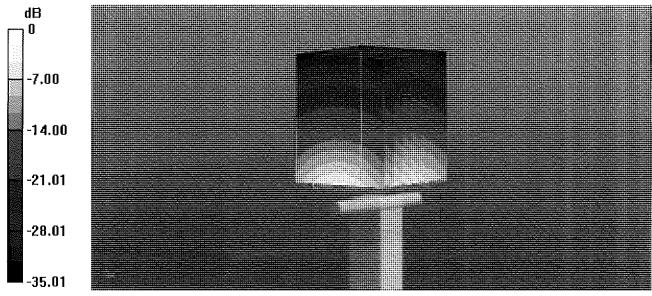
Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 6.61 W/kg; SAR(10 g) = 2.49 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 74.3%

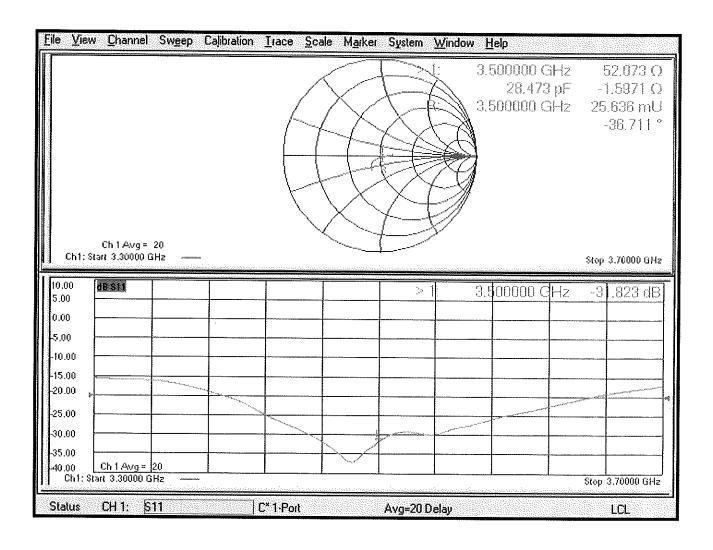
Maximum value of SAR (measured) = 12.4 W/kg



0 dB = 12.4 W/kg = 10.93 dBW/kg

Certificate No: D3500V2-1126\_Jun24

## Impedance Measurement Plot for Head TSL



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Client

Element

Certificate No: D3700V2-1002 Oct22

## **CALIBRATION CERTIFICATE**

Object

D3700V2 - SN:1002

Calibration procedure(s)

QA CAL-22.v6

Calibration Procedure for SAR Validation Sources between 3-10 GHz

**\** 

YW 12/13/2023

Calibration date:

October 21, 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 (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
Power sensor NRP-Z91	SN: 103245	04-Apr-22 (No. 217-03525)	Apr-23
Reference 20 dB Attenuator	SN: BH9394 (20k)	04-Apr-22 (No. 217-03527)	Apr-23
Type-N mismatch combination	SN: 310982 / 06327	04-Apr-22 (No. 217-03528)	Apr-23
Reference Probe EX3DV4	SN: 3503	08-Mar-22 (No. EX3-3503_Mar22)	Mar-23
DAE4	SN: 601	31-Aug-22 (No. DAE4-601_Aug22)	Aug-23
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	in house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	
Approved by:	Sven Kühn	Technical Manager	5
			A to the second second

Issued: October 21, 2022

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Accreditation No.: SCS 0108

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#### Glossary:

TSL

tissue simulating liquid

ConvF N/A sensitivity in TSL / NORM x,y,z

not applicable or not measured

#### Calibration is Performed According to the Following Standards:

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

#### Additional Documentation:

c) DASY System Handbook

#### Methods Applied and Interpretation of Parameters:

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

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

### **Measurement Conditions**

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4  mm, dz = 1.4  mm	Graded Ratio = 1.4 (Z direction)
Frequency	3700 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	37.7	3.12 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.5 ± 6 %	3.13 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

## SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.80 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	67.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.47 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.7 W/kg ± 19.5 % (k=2)

## **Body TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	51.0	3.55 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.2 ± 6 %	3.51 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

## SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	6.25 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	62.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.26 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	22.6 W/kg ± 19.5 % (k=2)

Certificate No: D3700V2-1002\_Oct22 Page 3 of 8

### Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	49.3 Ω - 7.8 jΩ
Return Loss	- 22.1 dB

#### Antenna Parameters with Body TSL

Impedance, transformed to feed point	50.9 Ω - 5.6 jΩ
Return Loss	- 25.0 dB

#### **General Antenna Parameters and Design**

Electrical Delay (one direction) 1.134 ns		
	Electrical Delay (one direction)	1

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

#### **Additional EUT Data**

Manufactured by	SPEAG
Manusactured by	or EAG

Certificate No: D3700V2-1002\_Oct22 Page 4 of 8

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

Date: 11.10.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN: 1002

Communication System: UID 0 - CW; Frequency: 3700 MHz

Medium parameters used: f = 3700 MHz;  $\sigma = 3.13 \text{ S/m}$ ;  $\varepsilon_r = 37.5$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### DASY52 Configuration:

Probe: EX3DV4 - SN3503; ConvF(7.73, 7.73, 7.73) @ 3700 MHz; Calibrated: 08.03.2022

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

Electronics: DAE4 Sn601; Calibrated: 31.08.2022

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

• DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

 $Dipole\ Calibration\ for\ Head\ Tissue/Pin=100\ mW,\ d=10mm,\ f=3700MHz/Zoom\ Scan,$ 

dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.61 V/m; Power Drift = 0.02 dB

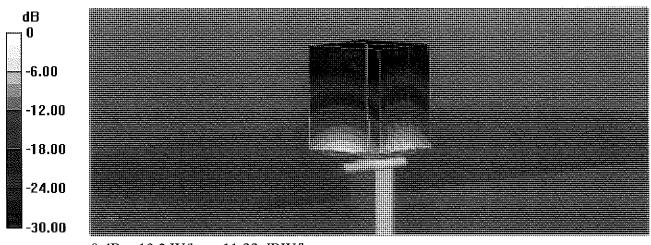
Peak SAR (extrapolated) = 19.2 W/kg

SAR(1 g) = 6.80 W/kg; SAR(10 g) = 2.47 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

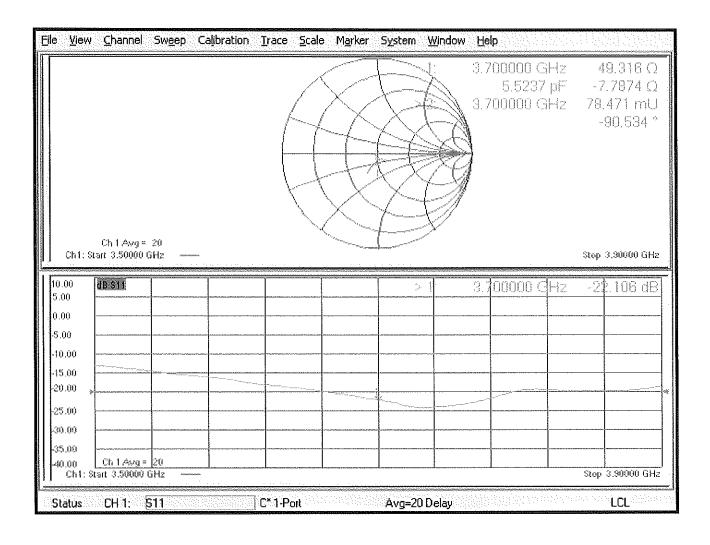
Ratio of SAR at M2 to SAR at M1 = 73.4%

Maximum value of SAR (measured) = 13.2 W/kg



0 dB = 13.2 W/kg = 11.22 dBW/kg

## Impedance Measurement Plot for Head TSL



#### **DASY5 Validation Report for Body TSL**

Date: 21.10.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN: 1002

Communication System: UID 0 - CW; Frequency: 3700 MHz

Medium parameters used: f = 3700 MHz;  $\sigma = 3.51 \text{ S/m}$ ;  $\varepsilon_r = 51.2$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### DASY52 Configuration:

• Probe: EX3DV4 - SN3503; ConvF(7.31, 7.31, 7.31) @ 3700 MHz; Calibrated: 08.03.2022

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

Electronics: DAE4 Sn601; Calibrated: 31.08.2022

• Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002

• DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Body Tissue/Pin=100 mW, d=10mm, f=3700MHz/Zoom Scan,

dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 63.97 V/m; Power Drift = -0.08 dB

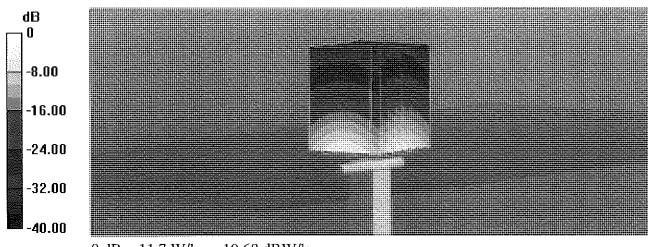
Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 6.25 W/kg; SAR(10 g) = 2.26 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

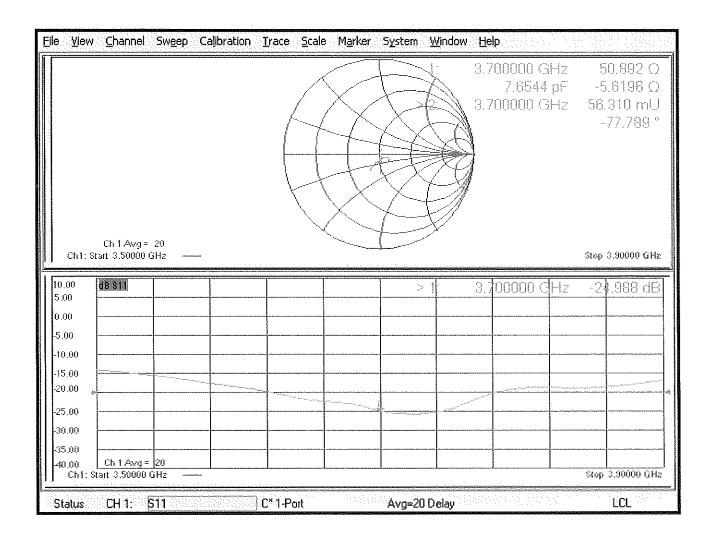
Ratio of SAR at M2 to SAR at M1 = 75.2%

Maximum value of SAR (measured) = 11.7 W/kg



0 dB = 11.7 W/kg = 10.68 dBW/kg

## Impedance Measurement Plot for Body TSL



## element

#### **ELEMENT MATERIALS TECHNOLOGY**

(formerly PCTEST) 18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.408.538.5600 http://www.element.com



# **Certification of Calibration**

Object D3700V2 – SN: 1002

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extension Calibration date: October 21, 2023

Description: SAR Validation Dipole at 3700 MHz.

## Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/2/2023	Annual	6/12/2024	MY40003841
Agilent	E4438C	ESG Vector Signal Generator	4/25/2023	Annual	4/25/2024	US41460739
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Rohde & Schwarz	NRX	Power Meter	1/11/2023	Annual	1/11/2024	102583
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	1/19/2023	Annual	1/19/2024	106563
Rohde & Schwarz	NRP-Z81	Wide Band Power Sensor	1/11/2023	Annual	1/11/2024	106564
Traceable	4040 90080-06	Therm./ Clock/ Humidity Monitor	5/11/2022	Biennial	5/11/2024	221514974
Control Company	4353	Ultra Long Stem Thermometer	10/24/2023	Annual	10/24/2024	200645916
Agilent	85033E	3.5mm Standard Calibration Kit	7/18/2023	Annual	7/18/2024	MY53402352
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	12/5/2022	Biennial	12/5/2024	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/9/2023	Annual	5/9/2024	1070
SPEAG	EX3DV4	SAR Probe	11/9/2023	Annual	11/9/2024	7639
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/14/2023	Annual	11/14/2024	1403

## Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Arturo Oliveros	Compliance Engineer	10
Approved By:	Greg Snyder	Executive VP of Operations	LuggedSpl

Object:	Date Issued:	Page 1 of 3
D3700V2 - SN: 1002	10/21/2023	rage 1015

## **DIPOLE CALIBRATION EXTENSION**

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

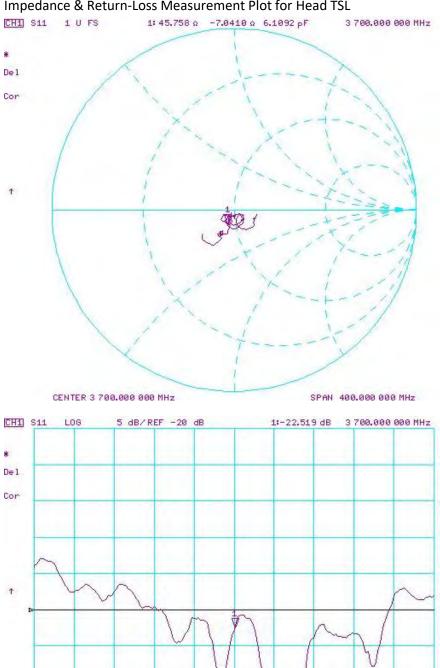
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than  $5\Omega$  from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have -year calibration period from the calibration date:

Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 20.0 dBm	Head SAR (1g)	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	Head SAR	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real		Difference (Ohm) Real		Measured Impedance Head (Ohm) Imaginary	(Ohm)	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)
10/21/2022	2 10/21/2023	1.134	6.79	6.89	1.47%	2.47	2.52	2.02%	49.3	45.8	3.5	-7.8	-7.0	0.8	-22.1	-22.5	-1.90%

Object:	Date Issued:	Page 2 of 3
D3700V2 - SN: 1002	10/21/2023	rage 2 or 5

#### Impedance & Return-Loss Measurement Plot for Head TSL



CENTER 3 700.000 000 MHz

Object:	Date Issued:	Page 3 of 3
D3700V2 - SN: 1002	10/21/2023	rage 3 or 3

SPAN 400.000 000 MHz

Schmid & Partner Engineering AG

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Swiss Calibration Service

Accreditation No.: SCS 0108

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Client Element

Morgan Hill, USA

Certificate No. D3700V2-1097\_Jun24

# **CALIBRATION CERTIFICATE**

Object

D3700V2 - SN:1097

6/25/24

Calibration procedure(s)

QA CAL-22.v7

Calibration Procedure for SAR Validation Sources between 3-10 GHz

Calibration date:

June 10, 2024

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 NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
Power sensor NRP-Z91	SN: 103245	26-Mar-24 (No. 217-04037)	Mar-25
Reference 20 dB Attenuator	SN: BH9394 (20k)	26-Mar-24 (No. 217-04046)	Mar-25
Type-N mismatch combination	SN: 310982 / 06327	26-Mar-24 (No. 217-04047)	Mar-25
Reference Probe EX3DV4	SN: 3503	07-Mar-24 (No. EX3-3503_Mar24)	Mar-25
DAE4	SN: 601	22-May-24 (No. DAE4-601_May24)	May-25
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
	Name	Function	Signature
Calibrated by:	Leif Klysner	Laboratory Technician	Sed There
Approved by:	Sven Kühn	Technical Manager	A. A. A. A. L.

Issued: June 10, 2024

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Certificate No: D3700V2-1097\_Jun24

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## Glossary:

TSL

tissue simulating liquid

ConvF N/A

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

Calibration is Performed According to the Following Standards:

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

#### **Additional Documentation:**

c) DASY System Handbook

# Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

# **Measurement Conditions**

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4  mm, dz = 1.4  mm	Graded Ratio = 1.4 (Z direction)
Frequency	3700 MHz ± 1 MHz	

# **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	37.7	3.12 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.4 ± 6 %	3.10 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

# SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.75 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	67.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.46 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.7 W/kg ± 19.5 % (k=2)

Certificate No: D3700V2-1097\_Jun24

# Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	$45.8~\Omega+0.6~\mathrm{j}\Omega$	
Return Loss	- 27.0 dB	

# General Antenna Parameters and Design

ſ		
	Electrical Delay (one direction)	1.130 ns
	· · · · · · · · · · · · · · · · · · ·	<u></u>

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

#### **Additional EUT Data**

Manufactured by	SPEAG

Page 4 of 6

Certificate No: D3700V2-1097\_Jun24

# **DASY5 Validation Report for Head TSL**

Date: 10.06.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN:1097

Communication System: UID 0 - CW; Frequency: 3700 MHz

Medium parameters used: f = 3700 MHz;  $\sigma = 3.1 \text{ S/m}$ ;  $\varepsilon_r = 38.4$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### **DASY52** Configuration:

• Probe: EX3DV4 - SN3503; ConvF(7.35, 7.35, 7.35) @ 3700 MHz; Calibrated: 07.03.2024

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn601; Calibrated: 22.05.2024

• Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001

• DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

# Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=3700MHz/Zoom Scan,

dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 69.14 V/m; Power Drift = 0.03 dB

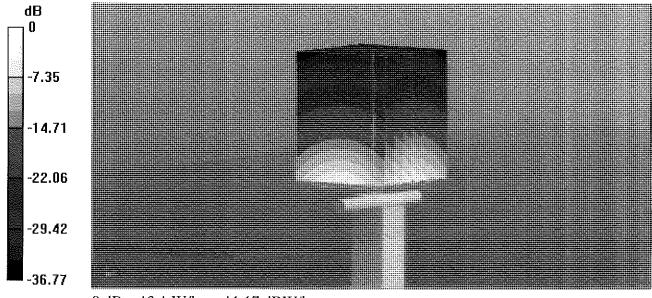
Peak SAR (extrapolated) = 19.2 W/kg

## SAR(1 g) = 6.75 W/kg; SAR(10 g) = 2.46 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 73.5%

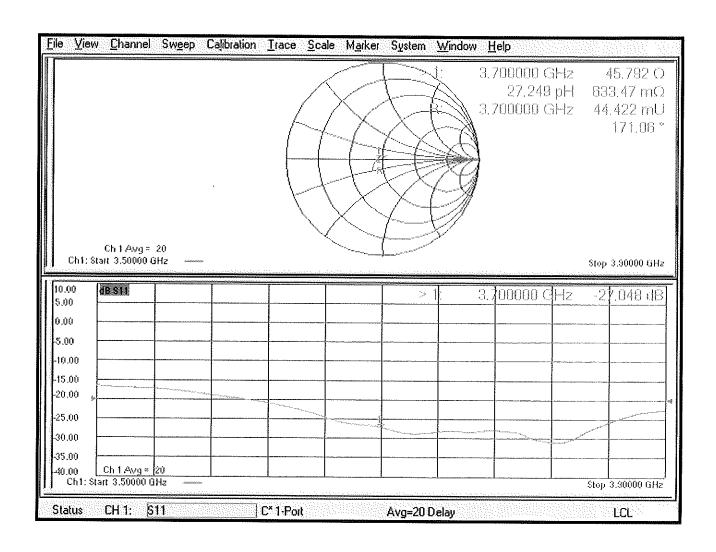
Maximum value of SAR (measured) = 13.1 W/kg



0 dB = 13.1 W/kg = 11.17 dBW/kg

Certificate No: D3700V2-1097\_Jun24

# Impedance Measurement Plot for Head TSL



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Client Element

Morgan Hill, USA

Certificate No. D3900V2-1062\_Dec23

# CALIBRATION CERTIFICATE

Object

D3900V2 - SN:1062

Calibration procedure(s)

QA CAL-22.v7

Calibration Procedure for SAR Validation Sources between 3-10 GHz

Calibration date:

December 21, 2023

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 3503	07-Mar-23 (No. EX3-3503_Mar23)	Mar-24
DAE4	SN: 601	03-Oct-23 (No. DAE4-601_Oct23)	Oct-24
Secondary Standards	ID #	Check Date (In house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
	Name	Function	Signature
Calibrated by:	Krešlmir Franjić	Laboratory Technician	my l
Approved by:	Sven Kühn	Technical Manager	Sch

Issued: December 21, 2023

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Certificate No: D3900V2-1062\_Dec23

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Glossary:

TSL

N/A

tissue simulating liquid

ConvF

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

Calibration is Performed According to the Following Standards:

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

## **Additional Documentation:**

c) DASY System Handbook

# Methods Applied and Interpretation of Parameters:

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

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

## **Measurement Conditions**

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4  mm, dz = 1.4  mm	Graded Ratio = 1.4 (Z direction)
Frequency	3900 MHz ± 1 MHz	

# **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	37.5	3.32 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.0 ± 6 %	3.24 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

# SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.84 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	68.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.40 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.1 W/kg ± 19.5 % (k=2)

**Body TSL parameters**The following parameters and calculations were applied.

	Temperature	Conductivity		
Nominal Body TSL parameters	22.0 °C	50.8	3.78 mho/m	
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.4 ± 6 %	3.70 mho/m ± 6 %	
Body TSL temperature change during test	< 0.5 °C			

# **SAR** result with Body TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	6.34 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	63.8 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.19 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	22.0 W/kg ± 19.5 % (k=2)

Certificate No: D3900V2-1062\_Dec23 Page 3 of 8

# Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	46.3 Ω - 6.5 jΩ
Return Loss	- 22.2 dB

# **Antenna Parameters with Body TSL**

Impedance, transformed to feed point	45.3 Ω - 5.8 jΩ
Return Loss	- 22.1 dB

# **General Antenna Parameters and Design**

Electrical Delay (one direction)	1.102 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

#### **Additional EUT Data**

Manufactured by	SPEAG

Certificate No: D3900V2-1062\_Dec23

# **DASY5 Validation Report for Head TSL**

Date: 21.12.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 3900 MHz; Type: D3900V2; Serial: D3900V2 - SN:1062

Communication System: UID 0 - CW; Frequency: 3900 MHz

Medium parameters used: f = 3900 MHz;  $\sigma = 3.24 \text{ S/m}$ ;  $\varepsilon_r = 38$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

# DASY52 Configuration:

Probe: EX3DV4 - SN3503; ConvF(7.39, 7.39, 7.39) @ 3900 MHz; Calibrated: 07.03.2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 03.10.2023

Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=3900MHz/Zoom Scan,

dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.13 V/m; Power Drift = -0.02 dB

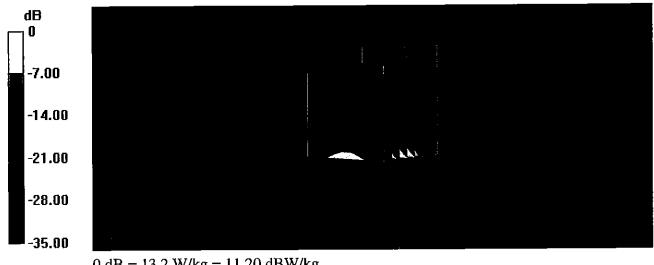
Peak SAR (extrapolated) = 19.1 W/kg

SAR(1 g) = 6.84 W/kg; SAR(10 g) = 2.40 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

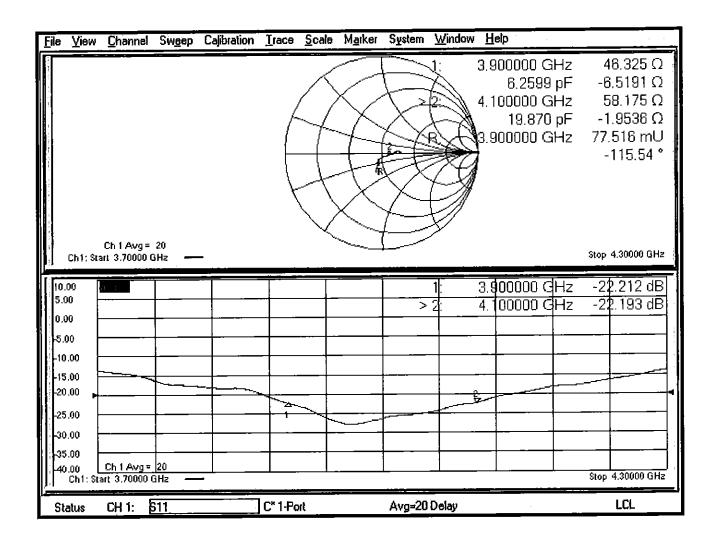
Ratio of SAR at M2 to SAR at M1 = 74.8%

Maximum value of SAR (measured) = 13.2 W/kg



0 dB = 13.2 W/kg = 11.20 dBW/kg

# Impedance Measurement Plot for Head TSL



# **DASY5 Validation Report for Body TSL**

Date: 21.12.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 3900 MHz; Type: D3900V2; Serial: D3900V2 - SN:1062

Communication System: UID 0 - CW; Frequency: 3900 MHz

Medium parameters used: f = 3900 MHz;  $\sigma = 3.7$  S/m;  $\varepsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

#### DASY52 Configuration:

Probe: EX3DV4 - SN3503; ConvF(7.18, 7.18, 7.18) @ 3900 MHz; Calibrated: 07.03.2023

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

Electronics: DAE4 Sn601; Calibrated: 03.10.2023

Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Body Tissue/Pin=100 mW, d=10mm, f=3900MHz/Zoom Scan,

dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 61.85 V/m; Power Drift = -0.06 dB

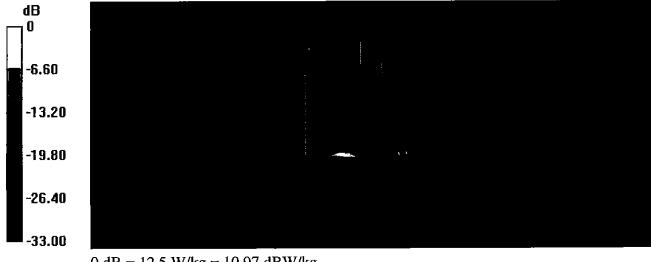
Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 6.34 W/kg; SAR(10 g) = 2.19 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

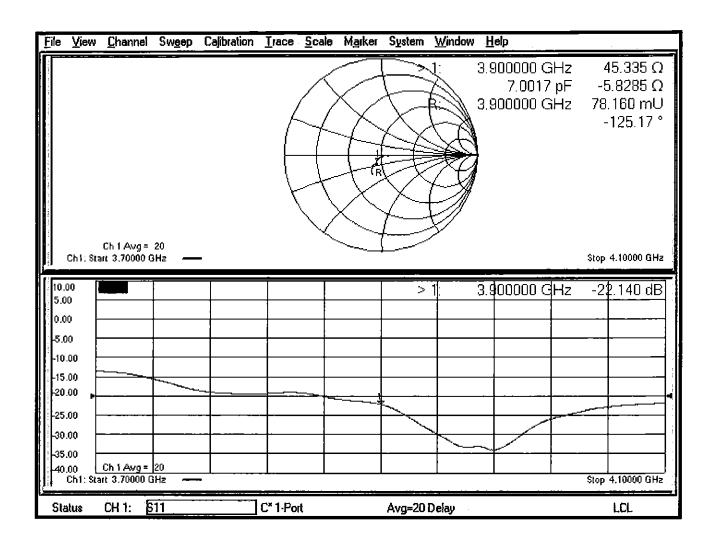
Ratio of SAR at M2 to SAR at M1 = 74.3%

Maximum value of SAR (measured) = 12.5 W/kg



0 dB = 12.5 W/kg = 10.97 dBW/kg

# Impedance Measurement Plot for Body TSL



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Zeughausstrasse 43, 8004 Zurich, Switzerland





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Client

**Element** 

Morgan Hill, USA

Certificate No.

EX-7357\_Apr24

## **CALIBRATION CERTIFICATE**

Object

EX3DV4 - SN:7357

4/25/24

Calibration procedure(s)

QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,

**QA CAL-25.v8** 

Calibration procedure for dosimetric E-field probes

Calibration date

April 16, 2024

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
OCP DAK-3.5 (weighted)	SN: 1249	05-Oct-23 (OCP-DAK3.5-1249_Oct23)	Oct-24
OCP DAK-12	SN: 1016	05-Oct-23 (OCP-DAK12-1016_Oct23)	Oct-24
Reference 20 dB Attenuator	SN: CC2552 (20x)	26-Mar-24 (No. 217-04046)	Mar-25
DAE4	SN: 660	23-Feb-24 (No. DAE4-660_Feb24)	Feb-25
Reference Probe EX3DV4	SN: 7349	03-Nov-23 (No. EX3-7349_Nov23)	Nov-24

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

Name

Function

Signature

Calibrated by

Joanna Lleshai

Laboratory Technician

Approved by

Sven Kühn

Technical Manager

Issued: April 16, 2024

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

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Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst

Service suisse d'étalonnage

C Servizio svizzero di taratura

S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

#### Glossary

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

ConvF sensitivity in TSL / NORMx,y,z DCP diode compression point

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

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

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

normal to probe axis

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

#### Calibration is Performed According to the Following Standards:

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

b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

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

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

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## Parameters of Probe: EX3DV4 - SN:7357

#### **Basic Calibration Parameters**

	Sensor X		Sensor Z	Unc (k = 2)	
Norm $(\mu V/(V/m)^2)^A$	0.38	0.52	0.39	±10.1%	
DCP (mV) B	92.2	98.5	99.8	±4.7%	

# **Calibration Results for Modulation Response**

UID	Communication System Name		Α	В	С	D	VR	Max	Max
			dB	dB√μV		dB	mV	dev.	Unc <sup>E</sup>
									k = 2
0	CW	Х	0.00	0.00	1.00	0.00	136.1	±2.2%	±4.7%
		Y	0.00	0.00	1.00		121.7		
		Z	0.00	0.00	1.00		145.1		
10352	Pulse Waveform (200Hz, 10%)	Х	2.64	66.12	11.10	10.00	60.0	±3.1%	±9.6%
		Y	20.00	87.84	18.54		60.0		
		Z	20.00	89.03	19.46		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	1.98	66.53	10.18	6.99	80.0	±1.7%	±9.6%
		Y	20.00	88.77	17.96		80.0		
		Z	20.00	91.03	19.02		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	1.27	66.74	9.24	3.98	95.0	±1.1%	±9.6%
		Y	20.00	92.29	18.50		95.0		
		Z	20.00	95.61	19.63		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	20.00	86.01	13.74	2.22	120.0	.0 ±0.8%	±9.6%
		Y	20.00	99.37	20.75		120.0		
		Z	20.00	102.85	21.61		120.0		
10387	QPSK Waveform, 1 MHz	X	1.78	67.38	15.76	1.00	150.0	±1.8%	±9.6%
		Y	1.81	66.61	15.59		150.0		
		Z	1.63	65.42	14.69		150.0		
10388	QPSK Waveform, 10 MHz	X	2.39	69.08	16.49	0.00	150.0	±1.0%	±9.6%
		Y	2.42	68.90	16.31		150.0		
		Z	2.15	67.22	15.39		150.0		
10396	64-QAM Waveform, 100 kHz	X	2.17	65.72	16.64	3.01	150.0	±1.2%	±9.6%
		Y	2.83	70.09	18.73		150.0		
		Z	2.26	66.09	16.70		150.0		
10399	64-QAM Waveform, 40 MHz	X	3.51	66.98	15.94	0.00	150.0	±0.8%	±9.6%
		Y	3.66	67.60	16.12		150.0		
		Z	3.48	66.78	15.63		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.84	65.44	15.64	0.00	150.0	±2.1%	±9.6%
		Y	4.84	65.27	15.42		150.0		
		Z	4.85	65.45	15.45		150.0		

Note: For details on UID parameters see Appendix

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

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

B Linearization parameter uncertainty for maximum specified field strength.

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

# Parameters of Probe: EX3DV4 - SN:7357

#### **Sensor Model Parameters**

	C1 fF	C2 fF	$V^{-1}$	T1 msV <sup>-2</sup>	T2 msV <sup>-1</sup>	T3 ms	T4 V <sup>-2</sup>	T5 V <sup>−1</sup>	T6
х	43.9	339.16	37.85	6.16	0.52	4.96	0.00	0.33	1.00
У	51.1	383.29	35.84	13.79	0.00	5.02	1.05	0.23	1.01
z	46.4	347.61	35.78	6.03	0.30	5.02	0.00	0.34	1.00

## **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle	16.2°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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

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#### Parameters of Probe: EX3DV4 - SN:7357

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

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
750	41.9	0.89	9.44	8.27	10.55	0.38	1.27	±11.0%
835	41.5	0.90	9.20	8.30	10.17	0.36	1.27	±11.0%
1750	40.1	1.37	8.33	7.41	8.89	0.30	1.27	±11.0%
1900	40.0	1.40	7.94	7.23	8.48	0.33	1.27	±11.0%
2300	39.5	1.67	7.77	7.05	8.28	0.33	1.27	±11.0%
2450	39.2	1.80	7.61	6.85	8.14	0.34	1.27	±11.0%
2600	39.0	1.96	7.43	6.72	7.95	0.33	1.27	±11.0%
3500	37.9	2.91	7.28	6.37	7.82	0.35	1.27	±13.1%
3700	37.7	3.12	7.21	6.30	7.75	0.36	1.27	±13.1%
3900	37.5	3.32	6.85	6.00	7.36	0.37	1.27	±13.1%

C Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than ±5% from the target values (typically better than ±3%)

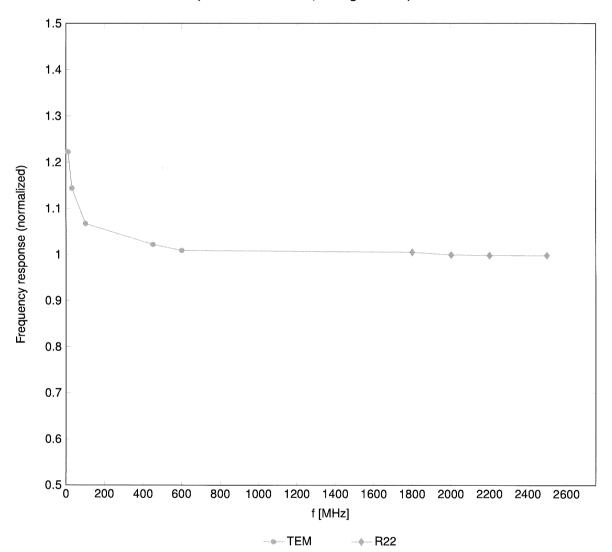
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and are valid for TSL with deviations of up to  $\pm 10\%$  if SAR correction is applied.

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

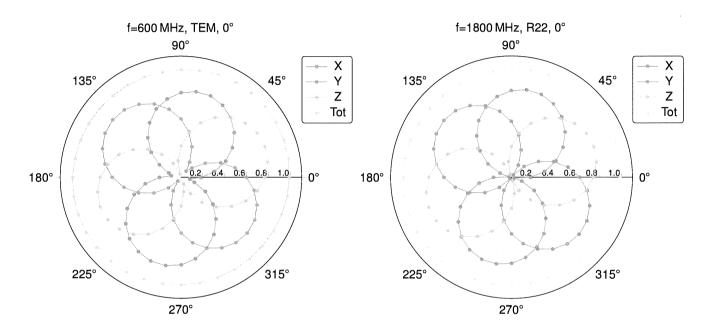
# Frequency Response of E-Field

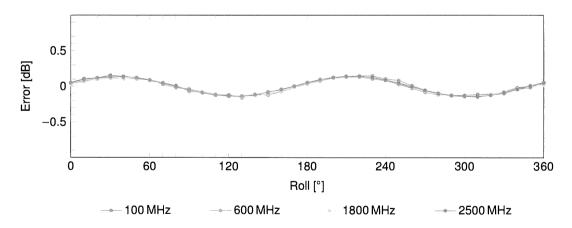
(TEM-Cell:ifi110 EXX, Waveguide:R22)



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

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

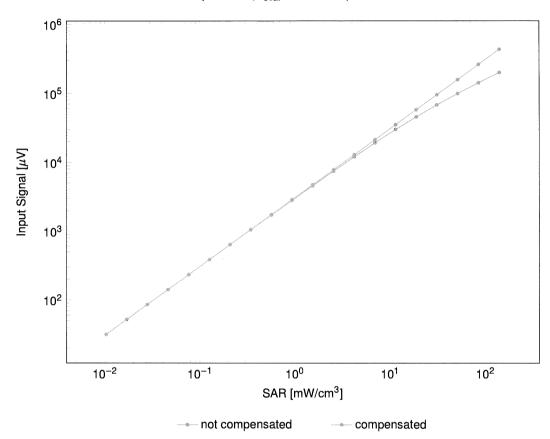


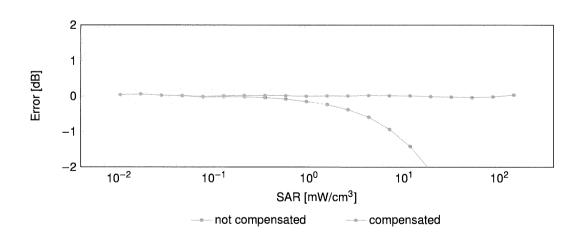


Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

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

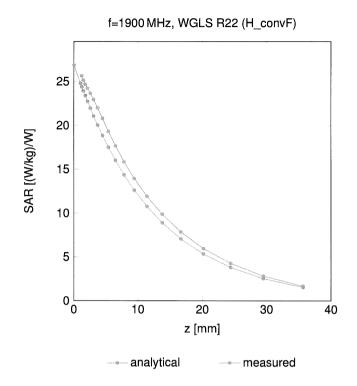
(TEM cell, f<sub>eval</sub> = 1900 MHz)





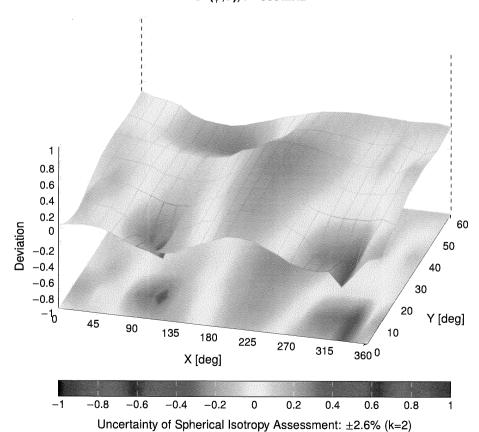
Uncertainty of Linearity Assessment: ±0.6% (k=2)

# **Conversion Factor Assessment**



# **Deviation from Isotropy in Liquid**

Error  $(\phi, \theta)$ , f = 900 MHz



# **Appendix: Modulation Calibration Parameters**

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> <i>k</i> = 2
0		CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±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	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10063	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10067	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.12	±9.6
10069	CAE	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
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.94	±9.6
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Midps)	WLAN	10.30	±9.6
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.30	±9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.77	±9.6
10070	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6
10077	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10081	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	
10090	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
10097	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA		
10098	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	3.98 9.55	±9.6 ±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD		±9.6
10102	CAH	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	6.60	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)		9.29	±9.6
			LTE-TDD	9.97	±9.6
10105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10108	CALL	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
10109	CALL	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6
10111	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> $k=2$
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6
10113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10114	CAE	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAE	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
10116	CAE	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
10117	CAE	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
10118	CAE	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6
10119	CAE	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6
10144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
10149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
10168 10169	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6
10170	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10171	CAH	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	6.49	±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)  LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.21	±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	9.48	±9.6
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	10.25	±9.6
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	5.72	±9.6
10177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	6.52 5.73	±9.6
10178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)			±9.6
10179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.52	±9.6
10173	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	6.50 5.72	±9.6
10182	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6 ±9.6
10183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
10194	CAE	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6
10195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
10196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
10197	CAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6
10198	CAE	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6
10219	CAE	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6
10220	CAE	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6
10221	CAE	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6
10222	CAE	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
10222					_0.5
10223	CAE	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6
10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6
10235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6
10238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9.6
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6
10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
10248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6
10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6
10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6
10254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6
10257	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6
10263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9.6
10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	±9.6
10267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6
10270	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	±9.6
10274	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6
10275	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
10277	CAA	PHS (QPSK)	PHS	11.81	±9.6
10278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
10279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.6
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6
10298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6
10299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10301	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WiMAX	12.03	±9.6
10302	AAA	IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WiMAX	12.57	±9.6
10303	AAA	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	12.52	±9.6
10304	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	11.86	±9.6
10305	AAA	IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols) IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WiMAX	15.24	±9.6
10306			WiMAX	14.67	±9.6

19307   AAA   REE 802 16 WMAX (2018, 10 ms, 10 MeV. OPSK, PUSC, 18 symbols)	UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> $k=2$
AAA   REE 802.16 W MAX (201.8, 10ms, 10 MeHz, 150AM, AMC 263, 18 symbols)				·		
1931   AAA   EEE 802 15 WINAX (2013, 10ms, 10Ms, 20PSK, AMC 263, 18 symbols)	10308	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WiMAX	14.46	±9.6
1931   ARE   DEN 13   DEN 13   DEN 13   DEN 13   DEN 13   1950	10309	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WiMAX	14.58	±9.6
1931   AAA   DEN 13	10310	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WiMAX	14.57	±9.6
19315   AAB   DEN 15   15   15   15   15   15   15   15			· · · · · · · · · · · · · · · · · · ·			
19315   ABB   IEEE BOZI 11 WIFE ZAGHE (REPOTON), Morpa, 98pc duty cycle)   WIAN   8.36   49.6   19317   AEE   IEEE BOZI 11 WIFE SCH2 (CPDM), 6 Mbps, 98pc duty cycle)   WIAN   8.36   49.6   19318   AAE   IEEE BOZI 11 WIFE SCH2 (CPDM), 6 Mbps, 98pc duty cycle)   WIAN   8.36   49.6   19328   AAA   Pube Winvefror (2004), 70%   Generic   6.09   49.6   19328   AAA   Pube Winvefror (2004), 70%   Generic   6.09   49.6   19329   AAA   Pube Winvefror (2004), 70%   Generic   6.09   49.6   19324   AAA   Pube Winvefror (2004), 70%   Generic   6.09   49.6   19325   AAA   Pube Winvefror (2004), 70%   Generic   6.09   49.6   19325   AAA   Pube Winvefror (2004), 70%   Generic   6.07   19.6   19326   AAA   Pube Winvefror (2004), 70%   Generic   6.07   19.6   19326   AAA   Pube Winvefror (2004), 70%   Generic   6.27   49.6   19328   AAA   OPSK Waveforn, 100 kHz   Generic   5.10   49.6   19328   AAA   OPSK Waveforn, 100 kHz   Generic   6.27   49.6   19328   AAA   GA-QAM Waveforn, 100 kHz   Generic   6.27   49.6   19329   AAA   GA-QAM Waveforn, 100 kHz   Generic   6.27   49.6   19329   AAA   GA-QAM Waveforn, 40 kHz   Generic   6.27   49.6   19404   AAF   IEEE BOZI 112 wWFI (20MHz, 64 OAM, 99pc duty cycle)   WIAN   8.37   19.5   19404   AAF   IEEE BOZI 112 wWFI (20MHz, 64 OAM, 99pc duty cycle)   WIAN   8.63   19.6   19404   AAF   IEEE BOZI 12 wWFI (80 kHz, 64 OAM, 99pc duty cycle)   WIAN   8.63   19.6   19404   AAF   IEEE BOZI 12 wWFI (80 kHz, 64 OAM, 99pc duty cycle)   WIAN   8.63   19.6   19404   AAF   IEEE BOZI 12 wWFI (80 kHz, 64 OAM, 99pc duty cycle)   WIAN   8.63   19.6   19404   AAF   IEEE BOZI 12 wWFI (80 kHz, 64 OAM, 99pc duty cycle)   WIAN   8.63   19.6   19404   AAF   IEEE BOZI 12 wWFI (80 kHz, 64 OAM, 99pc duty cycle)   WIAN   8.63   19.6   19404   AAF   IEEE BOZI 12 wWFI (80 kHz, 64 OAM, 99pc duty cycle)   WIAN   8.63   19.6   19404   AAF   IEEE BOZI 12 wWFI (80 kHz, 64 OAM, 99pc duty cycle)   WIAN   8.63   19.6   19404   AAF   IEEE BOZI 12 wWFI (80 kHz, 64 OAM, 99pc duty cycle)   WIAN   8.63   19.6   19404   AAF   IE						
19316   ABE   EEE 80.211 N WIFE 2.4 GHz (ERP-CFEN), 6 Mbps, 89pc duty cycle)   W.A.N   8.36   19.6   19.1						
Inches   ARE   IEEE 802.11a WIFI 5GHz (OFDM, 6 Mops, 86pc duty cycle)						
19382 AAA Pulse Waveform (2001-k; 10%)   9.56   19383 AAA Pulse Waveform (2001-k; 20%)   9.56   19384 AAA Pulse Waveform (2001-k; 20%)   9.56   19385 AAA Pulse Waveform (2001-k; 20%)   9.60   19385 AAA Pulse Waveform (2001-k; 20%)   9.60   19385 AAA Pulse Waveform (2001-k; 20%)   9.60   19386 AAA Pulse Waveform (2001-k; 20%)   9.60   19386 AAA Pulse Waveform (2001-k; 20%)   9.60   19387 AAA OPSK Waveform, 10.MHz   9.60   19388 AAA OPSK Waveform, 10.MHz   9.60   19388 AAA OPSK Waveform, 10.MHz   9.60   19388 AAA OPSK Waveform, 10.0MHz   9.60   19389 AAA OR-OAW Waveform, 10.0MHz   9.60   19489 AAA OR-OAW Waveform, 10.0MHz   9.60   19489 AAA OR-OAW Waveform, 10.0MHz   9.60   19489 AAA OR-OAW Waveform, 10.0MHz   9.60   19490 AAF   1EEE 80.21 Take Wiff (2001-k), 40-AUM, 50pc duty cycle)   WLAN   8.60   19491 AAF   1EEE 80.21 Take Wiff (2001-k), 40-AUM, 50pc duty cycle)   WLAN   8.61   19492 AAF   19490 A						
1935   AAA Pulse Waveform (2001Hz, 20%)   9.9 f.   1935   AAA Pulse Waveform (2001Hz, 40%)   Generic   9.98   1.9.6 f.   1935   AAA Pulse Waveform (2001Hz, 60%)   Generic   2.22   4.9.6   1936   AAA Pulse Waveform (2001Hz, 60%)   Generic   2.22   4.9.6   1938   AAA OFSK Waveform, 10HFz   Generic   5.10   4.9.6   1938   AAA OFSK Waveform, 10HFz   Generic   5.10   4.9.6   1938   AAA OFSK Waveform, 10HFz   Generic   5.22   4.9.6   1938   AAA OFSK Waveform, 10HFz   Generic   5.22   4.9.6   1938   AAA OFSK Waveform, 10HFz   Generic   5.22   4.9.6   1939   AAA G4-GAM Winvetorn, 10HFz   Generic   6.27   4.9.6   1939   AAA G4-GAM Winvetorn, 10HFz   Generic   6.27   4.9.6   1940   AAF   IEEE 802.1 lac WIFF (20 MHz, 64 CAM, 890 duly cycle)   WLAN   8.37   4.9.6   1940   AAF   IEEE 802.1 lac WIFF (20 MHz, 64 CAM, 890 duly cycle)   WLAN   8.37   4.9.6   1940   AAF   IEEE 802.1 lac WIFF (20 MHz, 64 CAM, 890 duly cycle)   WLAN   8.50   4.9.8   1940   AAF   IEEE 802.1 lac WIFF (20 MHz, 64 CAM, 890 duly cycle)   WLAN   8.50   4.9.8   1940   AAF   IEEE 802.1 lac WIFF (20 MHz, 64 CAM, 890 duly cycle)   WLAN   8.50   4.9.8   1940   AAF   IEEE 802.1 lac WIFF (20 MHz, 64 CAM, 890 duly cycle)   WLAN   8.50   4.9.8   1940   AAF   IEEE 802.1 lac WIFF (20 MHz, 64 CAM, 890 duly cycle)   WLAN   8.50   4.9.8   1940   AAF   IEEE 802.1 lac WIFF (20 MHz, 64 CAM, 890 duly cycle)   WLAN   8.50   4.9.8   1940   AAF   IEEE 802.1 lac WIFF (20 MHz, 64 CAM, 890 duly cycle)   WLAN   8.50   4.9.8   1940   AAF   IEEE 802.1 lac WIFF (20 MHz, 64 CAM, 890 duly cycle)   WLAN   8.9   1940   AAF   IEEE 802.1 lac WIFF (20 MHz, 64 CAM, 890 duly cycle)   WLAN   8.9   1941   AAA   IEEE 802.1 lac WIFF (24 CHz) (CSSS-CFDM, 64 Mbps, 890 duly cycle)   WLAN   8.2   4.9   1941   AAA   IEEE 802.1 lac WIFF (24 CHz) (CSSS-CFDM, 64 Mbps, 890 duly cycle)   WLAN   8.2   4.9   1941   AAA   IEEE 802.1 lac WIFF (24 CHz) (CSSS-CFDM, 64 Mbps, 890 duly cycle)   WLAN   8.2   4.9   1941   AAA   IEEE 802.1 lac WIFF (24 CHz) (CSSS-CFDM, 64 Mbps, 890 duly cycle)   WLAN   8.4   4.9						
1935   AAA Pulse Waveform (20014; 40%)   Generic   3.98   ±9.8						
1935   AAA   Pulse Waveform (2001-tz 60%)   Generic   2.22   ±3.8						
19386   AAA   Pulse Waveform (200Hz, 20%)   5.10   4.9.8			, , ,			
1938   AAA   OPSK Waveform, 10MHz   Generic   5.10   ±9.8   1938   AAA   64-OAM Waveform, 10MHz   Generic   6.27   ±9.6   1938   AAA   64-OAM Waveform, 10MHz   Generic   6.27   ±9.6   1939   AAA   64-OAM Waveform, 10MHz   64-OAM, 99pc duty cycle)   WLAN   8.37   ±9.8   19401   AAF   IEEE 802.1 fac WiFl (20MHz, 64-OAM, 99pc duty cycle)   WLAN   8.60   ±9.6   19402   AAF   IEEE 802.1 fac WiFl (20MHz, 64-OAM, 99pc duty cycle)   WLAN   8.60   ±9.6   19403   AAF   IEEE 802.1 fac WiFl (20MHz, 64-OAM, 99pc duty cycle)   WLAN   8.60   ±9.6   19404   AAF   IEEE 802.1 fac WiFl (20MHz, 64-OAM, 99pc duty cycle)   WLAN   8.60   ±9.6   19404   AAF   COMAZ000 (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   COMAZ000 (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   COMAZ000 (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   CLIP (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   CLIP (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   CLIP (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   CLIP (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   CLIP (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   CLIP (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   CLIP (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   CLIP (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   CLIP (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   CLIP (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   CLIP (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   CLIP (14EV-DO, Rev. 0)   CDMAZ000   3.77   ±9.6   19404   AAF   CLIP (14EV-DO, Rev. 0)   CDMAZ000   CLIP (14EV-DO, Rev. 0)   EEE 802.1 fg WiFl 2.4 GHz (20SS, 14EV-DO, Rev. 0)   CDMAZ000   WLAN   8.23   ±9.6   19404   AAF   LEEE 802.1 fg WiFl 2.4 GHz (20SS, 14EV-DO, Rev. 0)   CDMAZ000   WLAN   8.23   ±9.6   19404   AAF   LEEE 802.1 fg WiFl 2.4 GHz (20SS, 15EV-DO, Maps, 89pc duty cycle, Long preambule)   WLAN   8.19   ±9.6   19404   AAF   LEEE 802.1 fg WiFl 2.4 GHz (20SS, 15EV-DO, Maps, 89						
1938   AAA   GPSK Waveform, 10MHz   Generic   5.22   ±9.6	10387	AAA				
10399   AAA   64-CQAM Waveform, 40 MHz   59-60 MJ (1909)   WILAN   8.37   9.56	10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	
10400   AAF	10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
10401   AAF   EEE 802.11a WFI (40 MHz, 64-QAM, 99pc duty cycle)   WLAN   8.60   4.96   10402   AAF   EEE 802.11a WFI (80 MHz, 64-QAM, 99pc duty cycle)   WLAN   8.53   4.98   10403   AAB   CDMA2000 (1xeV-DC, Rev. Q)   CDMA2000   3.76   4.98   10404   AAB   CDMA2000 (1xeV-DC, Rev. Q)   CDMA2000   3.77   4.96   10406   AAB   CDMA2000 (1xeV-DC, Rev. Q)   4.96   CDMA2000   5.22   4.96   10410   AAH   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD   7.82   4.96   10410   AAH   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD   7.82   4.96   10414   AAA   LEEE 802.11b WFI 2.40 Hz (ERSP-CPMA, 80 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD   7.82   4.96   10416   AAA   EEE 802.11b WFI 2.40 Hz (ERSP-CPMA, 80 MHz, QPSK, UL Subframe Cont-4)   LTE-TDD   7.82   4.96   10416   AAA   EEE 802.11b WFI 2.40 Hz (ERSP-CPMA, 80 MHz, 90 mt 4)   LTE-TDD   WLAN   8.23   4.96   10416   AAA   EEE 802.11b WFI 2.40 Hz (ERSP-CPMA, 80 MHz, 90 mt 4)   LTE-TDD   WLAN   8.23   4.96   10418   AAA   EEE 802.11b WFI 2.40 Hz (ERSP-CPMA, 80 MHz, 90 mt 4)   LTE-TDD   WLAN   8.23   4.96   10418   AAA   EEE 802.11b WFI 2.40 Hz (ERSP-CPMA, 80 MHz, 90 mt 4)   LTE-TDD   WLAN   8.14   4.96   10418   AAA   EEE 802.11b WFI 2.40 Hz (ERSP-CPMA, 80 MHz, 90 mt 4)   LTE-TDD   WLAN   8.14   4.96   10418   AAA   EEE 802.11b WFI 2.40 Hz (ERSP-CPMA, 80 MHz, 90 mt 4)   LTE-TDD   WLAN   8.14   4.96   10420   AAA   EEE 802.11b (HT Greenfield, 7.80 Mbps, 89 Mty 4)   LTE-TDD   WLAN   8.41   4.96   10420   AAA   EEE 802.11b (HT Greenfield, 7.80 Mbps, 89 Mty 4)   LTE-TDD   WLAN   8.41   4.96   10420   AAA   EEE 802.11b (HT Greenfield, 7.80 Mbps, 89 Mty 4)   LTE-TDD   WLAN   8.41   4.96   10420   AAA   EEE 802.11b (HT Greenfield, 7.80 Mbps, 89 Mty 4)   LTE-FDD   WLAN   8.41   4.96   10420   AAA   EEE 802.11b (HT Greenfield, 7.80 Mbps, 89 Mty 4)   LTE-FDD   WLAN   8.41   4.96   10420   AAA   EEE 802.11b (HT Greenfield, 50 Mbps, 89 Mty 4)   LTE-FDD   WLAN   8.41   4.96   10	10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
10402 AAF   EEE 802.11g WIFI (80 MHz, 64-QAM, 99pc duty cycle)	10400	AAF		WLAN	8.37	
10409   AAB   CDMA2000 (1xEVDO, Rev. 0)   CDMA2000   3.76   ±9.6					8.60	
10406   AAB   CDMA2000 (TKEV-DO, Rex. A)						
10400   AAB   CDMA200, RO3, SO3, SCHO, Full Rale   CDMA200, RO3, SO3, SCHO, Full Rale   LTE-TDD   7.82   ±9.6     10414   AAA   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)   LTE-TDD   7.82   ±9.6     10415   AAA   LEEE 802.11b WiFl 2.4 GHz (DSS, IMDps, 99pc duty cycle)   WLAN   1.54   ±9.6     10416   AAA   LEEE 802.11b WiFl 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)   WLAN   8.23   ±9.6     10417   AAD   LEEE 802.11a/h WiFl 5 GHz (DFDM, 6 Mbps, 99pc duty cycle)   WLAN   8.23   ±9.6     10419   AAA   LEEE 802.11a/h WiFl 5 GHz (DFDM, 6 Mbps, 99pc duty cycle)   WLAN   8.23   ±9.6     10419   AAA   LEEE 802.11a/h WiFl 5 GHz (DFDM, 6 Mbps, 99pc duty cycle, Long preambule)   WLAN   8.14   ±9.6     10419   AAA   LEEE 802.11a (HT Greenfield, 7.2 Mbps, BPSK)   WLAN   8.19   ±9.6     10420   AAA   LEEE 802.11a (HT Greenfield, 7.2 Mbps, BPSK)   WLAN   8.47   ±9.6     10422   AAD   LEEE 802.11a (HT Greenfield, 7.2 Mbps, BPSK)   WLAN   8.41   ±9.6     10424   AAD   LEEE 802.11a (HT Greenfield, 15 Mbps, BPSK)   WLAN   8.41   ±9.6     10425   AAD   LEEE 802.11a (HT Greenfield, 15 Mbps, BPSK)   WLAN   8.41   ±9.6     10426   AAD   LEEE 802.11a (HT Greenfield, 15 Mbps, BPSK)   WLAN   8.41   ±9.6     10427   AAD   LEEE 802.11a (HT Greenfield, 150 Mbps, 64-QAM)   WLAN   8.45   ±9.6     10428   AAD   LEEE 802.11a (HT Greenfield, 150 Mbps, 64-QAM)   WLAN   8.45   ±9.6     10430   AAE   LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)   LTE-FDD   8.28   ±9.6     10431   AAE   LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)   LTE-FDD   8.38   ±9.6     10433   AAD   LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)   LTE-FDD   8.34   ±9.6     10434   AAB   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)   LTE-FDD   7.56   ±9.6     10447   AAE   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)   LTE-FDD   7.56   ±9.6     10448   AAD   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)   LTE-FDD   7.56   ±9.6     10449   AAD   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)   LTE-FDD   7.56   ±9.6     10449   AAD   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)   LIPH   7.50   ±9.6     10449   AAD   LTE-FDD (OFDMA,						
10410   AAH   LITE-TDD   SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe-2,3,4,7,8,9, Subframe Confi-4)   LITE-TDD   7.82   49.6						
10415   AAA   WLAN CCDF, 64-CAM, 40 MHz   49.6     10416   AAA   IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)   WLAN   1.54   49.6     10416   AAA   IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)   WLAN   8.23   49.6     10417   AAD   IEEE 802.11g WiFi 2.4 GHz (DFDM, 6 Mbps, 99pc duty cycle)   WLAN   8.23   49.6     10418   AAA   IEEE 802.11g WiFi 2.4 GHz (DFDM, 6 Mbps, 99pc duty cycle)   WLAN   8.14   49.6     10419   AAA   IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)   WLAN   8.14   49.6     10420   AAD   IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)   WLAN   8.19   49.6     10422   AAD   IEEE 802.11g (HT Greenfield, 7.2 Mbps, BFSK)   WLAN   8.47   49.6     10423   AAD   IEEE 802.11g (HT Greenfield, 4.3 Mbps, 16-CAM)   WLAN   8.47   49.6     10424   AAD   IEEE 802.11g (HT Greenfield, 5.2 Mbps, 64-CAM)   WLAN   8.40   49.6     10425   AAD   IEEE 802.11g (HT Greenfield, 15Mbps, BFSK)   WLAN   8.41   49.6     10426   AAD   IEEE 802.11g (HT Greenfield, 50 Mbps, 64-CAM)   WLAN   8.45   49.6     10427   AAD   IEEE 802.11g (HT Greenfield, 15Mbps, BFSK)   WLAN   8.41   49.6     10428   AAD   IEEE 802.11g (HT Greenfield, 15Mbps, BFSK)   WLAN   8.41   49.6     10429   AAD   IEEE 802.11g (HT Greenfield, 15Mbps, BFSK)   WLAN   8.41   49.6     10430   AAE   ITE-FDD (OFDMA, 5MHz, E-TM 3.1)   ITE-FDD   8.38   49.6     10431   AAE   ITE-FDD (OFDMA, 5MHz, E-TM 3.1)   ITE-FDD   8.38   49.6     10432   AAD   ITE-FDD (OFDMA, 5MHz, E-TM 3.1)   ITE-FDD   8.34   49.6     10433   AAD   ITE-FDD (OFDMA, 5MHz, E-TM 3.1)   ITE-FDD   8.34   49.6     10443   AAB   W-CDMA (BS Tost Model 1, 64 DPCH)   WCDMA   8.60   49.6     10449   AAD   ITE-FDD (OFDMA, 15MHz, E-TM 3.1, Clipping 44%)   ITE-FDD   7.50   49.6     10449   AAD   ITE-FDD (OFDMA, 15MHz, E-TM 3.1, Clipping 44%)   ITE-FDD   7.50   49.6     10449   AAD   ITE-FDD (OFDMA, 15MHz, E-TM 3.1, Clipping 44%)   ITE-FDD   7.50   49.6     10449   AAD   ITE-FDD (OFDMA, 15MHz, E-TM 3.1, Clipping 44%						
10416						
10416						
10417						
10418						
10419			` ' ' ' ' '			
10422						
10423   AAD						
10424   AAD	10423	AAD	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN		
10426	10424	AAD		WLAN	8.40	
10427   AAD     IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)   WLAN   8.41   ±9.6     10430   AAE   LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)   LTE-FDD   8.28   ±9.6     10431   AAE   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)   LTE-FDD   8.38   ±9.6     10432   AAD   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)   LTE-FDD   8.34   ±9.6     10433   AAD   LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)   LTE-FDD   8.34   ±9.6     10434   AAB   W-CDMA (BS Test Model 1, 64 DPCH)   WCDMA   8.60   ±9.6     10435   AAG   LTE-FDD (OFDMA, 1 RB, 20 MHz, CPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.82   ±9.6     10447   AAE   LTE-FDD (OFDMA, 1 RB, 20 MHz, CPSK, UL Subframe=2,3,4,7,8,9)   LTE-FDD   7.56   ±9.6     10448   AAE   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.53   ±9.6     10449   AAD   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.53   ±9.6     10450   AAD   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.51   ±9.6     10451   AAB   W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)   LTE-FDD   7.51   ±9.6     10453   AAE   Validation (Square, 10 ms, 1 ms)   WCDMA   7.59   ±9.6     10454   AAB   W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)   WCDMA   7.59   ±9.6     10455   AAD   LITE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   WCDMA   7.59   ±9.6     10456   AAD   LITE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   WCDMA   7.59   ±9.6     10457   AAB   WINTS-FDD (OCHSDPA)   WCDMA   7.59   ±9.6     10458   AAA   CDMA2000 (1xEV-DO, Rev. B, 2 carriers)   WCDMA   6.62   ±9.6     10459   AAA   CDMA2000 (1xEV-DO, Rev. B, 3 carriers)   CDMA2000   6.55   ±9.6     10460   AAB   UMTS-FDD (WCDMA, AMR)   USubframe=2,3,4,7,8,9)   LTE-TDD   7.82   ±9.6     10461   AAC   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.56   ±9.6     10462   AAO   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.52   ±9.6     10466   AAD   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.52   ±9.6     10467   AAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz,	10425	AAD	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6
10430   AAE		AAD		WLAN	8.45	±9.6
10431   AAE   LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)   LTE-FDD   8.38   ±9.6     10432   AAD   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)   LTE-FDD   8.34   ±9.6     10433   AAD   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)   LTE-FDD   8.34   ±9.6     10434   AAB   W-CDMA (BS Test Model 1, 64 DPCH)   WCDMA   8.60   ±9.6     10435   AAG   LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.52   ±9.6     10447   AAE   LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.56   ±9.6     10448   AAE   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.56   ±9.6     10449   AAD   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.51   ±9.6     10450   AAD   LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.51   ±9.6     10451   AAB   W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)   WCDMA   7.59   ±9.6     10453   AAE   Validation (Square, 10 ms, 1 ms)   Test   10.00   ±9.6     10456   AAD   LTE-FDD (OFDMA, 166 WHz, 64-QAM, 99pc duty cycle)   WLAN   8.63   ±9.6     10457   AAB   UMTS-FDD (DC-HSDPA)   WCDMA   6.62   ±9.6     10458   AAA   CDMA2000 (1xEV-DO, Rev. B, 2 carriers)   CDMA2000   6.55   ±9.6     10459   AAA   CDMA2000 (1xEV-DO, Rev. B, 3 carriers)   CDMA2000   6.55   ±9.6     10450   AAB   UMTS-FDD (WCDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.82   ±9.6     10461   AAC   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, GPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.30   ±9.6     10466   AAO   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, GPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.55   ±9.6     10466   AAO   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.57   ±9.6     10466   AAO   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.56   ±9.6     10467   AAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.57   ±9.6     10468   AAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.56   ±9.6     10469   AAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,					8.41	±9.6
10432   AAD						
10433   AAD   LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)   LTE-FDD   8.34   ±9.6     10434   AAB   W-CDMA (BS Test Model 1, 64 DPCH)   WCDMA   8.60   ±9.6     10435   AAG   LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.82   ±9.6     10447   AAE   LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.56   ±9.6     10448   AAE   LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.53   ±9.6     10449   AAD   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.51   ±9.6     10450   AAD   LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.51   ±9.6     10451   AAB   W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)   LTE-FDD   7.48   ±9.6     10453   AAE   Validation (Square, 10 ms, 1 ms)   Test   10.00   ±9.6     10456   AAD   IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)   WLAN   8.63   ±9.6     10457   AAB   UMTS-FDD (DC-HSDPA)   WCDMA   6.62   ±9.6     10458   AAA   CDMA2000 (1xEV-DD, Rev. B, 2 carriers)   CDMA2000   6.55   ±9.6     10459   AAB   UMTS-FDD (WCDMA, AMR)   WCDMA   2.39   ±9.6     10460   AAB   UMTS-FDD (WCDMA, AMR)   WCDMA   2.39   ±9.6     10461   AAC   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.82   ±9.6     10463   AAC   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.56   ±9.6     10465   AAD   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.30   ±9.6     10466   AAD   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.56   ±9.6     10466   AAD   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.57   ±9.6     10466   AAD   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.57   ±9.6     10468   AAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GA-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.57   ±9.6     10469   AAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GA-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.56   ±9.6     10469   AAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GA-QAM, UL Subframe						
10434   AAB   W-CDMA (BS Test Model 1, 64 DPCH)   WCDMA   8.60   ±9.6     10435   AAG   LTE-TDD (SC-FDMA, 1 RB, 20MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.82   ±9.6     10447   AAE   LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.56   ±9.6     10448   AAE   LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.53   ±9.6     10449   AAD   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.51   ±9.6     10450   AAD   LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.48   ±9.6     10451   AAB   W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)   WCDMA   7.59   ±9.6     10453   AAE   Validation (Square, 10 ms, 1 ms)   Test   10.00   ±9.6     10456   AAD   LEE 802.11ac WiFi (160 MHz, 64-QAM, 99c duty cycle)   WLAN   8.63   ±9.6     10457   AAB   UMTS-FDD (DC-HSDPA)   WCDMA   6.62   ±9.6     10458   AAA   CDMA2000 (1xEV-DO, Rev. B, 2 carriers)   CDMA2000   6.55   ±9.6     10459   AAA   CDMA2000 (1xEV-DO, Rev. B, 3 carriers)   CDMA2000   6.55   ±9.6     10460   AAB   UMTS-FDD (WCDMA, AMR)   WCDMA   2.39   ±9.6     10461   AAC   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.82   ±9.6     10463   AAC   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.30   ±9.6     10465   AAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.56   ±9.6     10466   AAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.57   ±9.6     10466   AAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.57   ±9.6     10467   AAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.57   ±9.6     10468   AAD   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.57   ±9.6     10467   AAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.57   ±9.6     10468   AAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.56   ±9.6     10469   AAG						
10435         AAG         LTE-TDD (SC-FDMA, 1 RB, 20MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10447         AAE         LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.56         ±9.6           10448         AAE         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.53         ±9.6           10449         AAD         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.51         ±9.6           10450         AAD         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.48         ±9.6           10451         AAB         W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         WCDMA         7.59         ±9.6           10453         AAE         Validation (Square, 10 ms, 1 ms)         Test         10.00         ±9.6           10456         AAD         IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)         WLAN         8.63         ±9.6           10457         AAB         UMTS-FDD (DC-HSDPA)         WCDMA         6.62         ±9.6           10458         AAA         CDMA2000 (1xEV-DO, Rev. B, 2 carriers)         CDMA2000         6.55         ±9.6           10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)						
10447         AAE         LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.56         ±9.6           10448         AAE         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.53         ±9.6           10449         AAD         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.51         ±9.6           10450         AAD         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.48         ±9.6           10451         AAB         W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         WCDMA         7.59         ±9.6           10453         AAE         Validation (Square, 10 ms, 1 ms)         Test         10.00         ±9.6           10456         AAD         IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)         WLAN         8.63         ±9.6           10457         AAB         UMTS-FDD (DC-HSDPA)         WCDMA         6.62         ±9.6           10458         AAA         CDMA2000 (1xEV-DO, Rev. B, 2 carriers)         CDMA2000         6.55         ±9.6           10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         CDMA2000         8.25         ±9.6           10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39						
10448         AAE         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)         LTE-FDD         7.53         ±9.6           10449         AAD         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)         LTE-FDD         7.51         ±9.6           10450         AAD         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.48         ±9.6           10451         AAB         W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         WCDMA         7.59         ±9.6           10453         AAE         Validation (Square, 10 ms, 1 ms)         Test         10.00         ±9.6           10453         AAE         Validation (Square, 10 ms, 1 ms)         WCDMA         8.63         ±9.6           10456         AAD         IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)         WLAN         8.63         ±9.6           10457         AAB         UMTS-FDD (DC-HSDPA)         WCDMA         6.62         ±9.6           10458         AAA         CDMA2000 (1xEV-DO, Rev. B, 2 carriers)         CDMA2000         6.55         ±9.6           10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         CDMA2000         8.25         ±9.6           10469         AAB         LMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
10449         AAD         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)         LTE-FDD         7.51         ±9.6           10450         AAD         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.48         ±9.6           10451         AAB         W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         WCDMA         7.59         ±9.6           10453         AAE         Validation (Square, 10 ms, 1 ms)         Test         10.00         ±9.6           10456         AAD         IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)         WLAN         8.63         ±9.6           10457         AAB         UMTS-FDD (DC-HSDPA)         WCDMA         6.62         ±9.6           10458         AAA         CDMA2000 (1xEV-DO, Rev. B, 2 carriers)         CDMA2000         6.55         ±9.6           10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         CDMA2000         8.25         ±9.6           10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6           10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10462         AAC         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)         LTE			· · · · · · · · · · · · · · · · · · ·			
10450         AAD         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.48         ±9.6           10451         AAB         W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         WCDMA         7.59         ±9.6           10453         AAE         Validation (Square, 10 ms, 1 ms)         Test         10.00         ±9.6           10456         AAD         IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)         WLAN         8.63         ±9.6           10457         AAB         UMTS-FDD (DC-HSDPA)         WCDMA         6.62         ±9.6           10458         AAA         CDMA2000 (1xEV-DO, Rev. B, 2 carriers)         CDMA2000         6.55         ±9.6           10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         CDMA2000         8.25         ±9.6           10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6           10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, GPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10462         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10463         AAC         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) </td <td>L</td> <td></td> <td></td> <td></td> <td></td> <td></td>	L					
10451         AAB         W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         7.59         ±9.6           10453         AAE         Validation (Square, 10 ms, 1 ms)         Test         10.00         ±9.6           10456         AAD         IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)         WLAN         8.63         ±9.6           10457         AAB         UMTS-FDD (DC-HSDPA)         WCDMA         6.62         ±9.6           10458         AAA         CDMA2000 (1xEV-DO, Rev. B, 2 carriers)         CDMA2000         6.55         ±9.6           10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         CDMA2000         8.25         ±9.6           10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6           10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10462         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10463         AAC         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GFA, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10464         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GFA, UL Subframe=2,3,4,7,8,9)         <						
10453         AAE         Validation (Square, 10 ms, 1 ms)         Test         10.00         ±9.6           10456         AAD         IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)         WLAN         8.63         ±9.6           10457         AAB         UMTS-FDD (DC-HSDPA)         WCDMA         6.62         ±9.6           10458         AAA         CDMA2000 (1xEV-DO, Rev. B, 2 carriers)         CDMA2000         6.55         ±9.6           10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         CDMA2000         8.25         ±9.6           10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6           10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10462         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10464         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10465         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.57         ±9.6           10466         AAD         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QP						
10457         AAB         UMTS-FDD (DC-HSDPA)         WCDMA         6.62         ±9.6           10458         AAA         CDMA2000 (1xEV-DO, Rev. B, 2 carriers)         CDMA2000         6.55         ±9.6           10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         CDMA2000         8.25         ±9.6           10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6           10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10462         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.30         ±9.6           10463         AAC         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10464         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10465         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.57         ±9.6           10466         AAD         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10467         AAG	10453	AAE		Test		
10458         AAA         CDMA2000 (1xEV-DO, Rev. B, 2 carriers)         CDMA2000         6.55         ±9.6           10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         CDMA2000         8.25         ±9.6           10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6           10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10462         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.30         ±9.6           10463         AAC         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10464         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10465         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.57         ±9.6           10466         AAD         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10468         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GA-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6 <t< td=""><td>10456</td><td>AAD</td><td></td><td>WLAN</td><td>8.63</td><td>±9.6</td></t<>	10456	AAD		WLAN	8.63	±9.6
10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         £9.6           10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6           10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10462         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.30         ±9.6           10463         AAC         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10464         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10465         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.57         ±9.6           10466         AAD         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10467         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10468         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10470					6.62	±9.6
10460       AAB       UMTS-FDD (WCDMA, AMR)       WCDMA       2.39       ±9.6         10461       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10462       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.30       ±9.6         10463       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.56       ±9.6         10464       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10465       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6         10466       AAD       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10467       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10468       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6         10470       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.56       ±9.6         10470       AAG       LTE-TDD (						
10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10462         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.30         ±9.6           10463         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10464         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10465         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10466         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.57         ±9.6           10467         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10468         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10470         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10470         AAG         LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)						
10462       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.30       ±9.6         10463       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.56       ±9.6         10464       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10465       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6         10466       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.57       ±9.6         10467       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10468       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6         10469       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.56       ±9.6         10470       AAG       LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6						
10463         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10464         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10465         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10466         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.57         ±9.6           10467         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10468         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10469         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10470         AAG         LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6						****
10464       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10465       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6         10466       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.57       ±9.6         10467       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10468       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6         10469       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.56       ±9.6         10470       AAG       LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6						
10465         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10466         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.57         ±9.6           10467         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10468         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10469         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10470         AAG         LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6						
10466         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.57         ±9.6           10467         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10468         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10469         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10470         AAG         LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6						
10467         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10468         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10469         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10470         AAG         LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6	ļ					
10468         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10469         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10470         AAG         LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6						
10469         AAG         LTE-TDD (SC-FDMA, 1 RB, 5MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10470         AAG         LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6						
10470 AAG LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.82 ±9.6						
	10470	AAG				
	10471	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)			

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> $k=2$
10472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10473	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10478	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	±9.6
10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	±9.6
10483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	±9.6
10484	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10485	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	±9.6
10486	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	±9.6
10487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	±9.6
10488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	±9.6
10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10495	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6
10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6
10502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	±9.6
10503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6
10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 51MHz, 64-QAW, 0L Subframe=2,3,4,7,8,9)	LTE-TDD	8.54 7.74	±9.6
10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6
10508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	±9.6
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	±9.6
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	±9.6
10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10518	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10519	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6
10520	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
10521	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6
10522	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10523	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
10524	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9.6
10525	AAD	IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.36	±9.6
10526	AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.6
10527	AAD	IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6
10528	AAD	IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	±9.6
10529	AAD	IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.36	±9.6
10531	AAD	IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.43	±9.6
10532	AAD	IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10533	AAD	IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.6
10534	AAD	IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	±9.6
10535 10536	AAD	IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.6
	AAD	IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6
10537 10538	AAD AAD	IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
10538	AAD	IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.54	±9.6
10040	עעט	TELE OUZ. I Tao WII I (40 WII IZ, WOOO, SSPC duty cycle)	WLAN	8.39	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> <i>k</i> = 2
10541	AAD	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6
10542	AAD	IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	±9.6
10543	AAD	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
10544	AAD	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
10545	AAD	IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10546	AAD	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
10547	AAD	IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6
10548	AAD	IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
10550	AAD	IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
10551	AAD	IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6
10552	AAD	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.6
10553	AAD	IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
10554	AAE	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
10555	AAE	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
10556 10557	AAE	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
10557	AAE	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)  IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.52	±9.6
10560	AAE	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN WLAN	8.61 8.73	±9.6
10561	AAE	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9.6 ±9.6
10562	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	
10563	AAE	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10580 10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN WLAN	8.67	±9.6
10584	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.59 8.60	±9.6
10585	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10587	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10588	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10589	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10590	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10591	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
10592	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10593	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6
10594	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10595	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
10596	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
10597	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6
10598	AAD	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
10599	AAD AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
10600	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.88	±9.6
10601	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6
10602	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN WLAN	8.94	±9.6
10603	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	9.03	±9.6
10605	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.76 8.97	±9.6
10606	AAD	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6 ±9.6
10607	AAD	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6
10608	AAD	IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.77	±9.6
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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> <i>k</i> = 2
10609	AAD	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
10610	AAD	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
10611	AAD	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAD	IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10613	AAD	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6
10614	AAD	IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6
10615	AAD	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10616 10617	AAD	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.82 8.81	±9.6 ±9.6
10617	AAD	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	AAD	IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
10620	AAD	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAD	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAD	IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
10623	AAD	IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10624	AAD	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6
10625	AAD	IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6
10626	AAD	IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10627	AAD	IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10628	AAD	IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9.6
10629	AAD	IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10630	AAD	IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
10631 10632	AAD AAD	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)	WLAN WLAN	8.81	±9.6
10632	AAD	IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74 8.83	±9.6 ±9.6
10634	AAD	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6
10635	AAD	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6
10636	AAE	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10637	AAE	IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10638	AAE	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6
10639	AAE	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10640	AAE	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6
10641	AAE	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6
10642	AAE	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAE	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAE	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645 10646	AAE AAH	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	WLAN LTE-TDD	9.11	±9.6
10648	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96 11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
10670 10671	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle) IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN WLAN	8.57 8.78	±9.6 ±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
10676	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10678	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
10685 10686	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
		IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> <i>k</i> = 2
10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
10688	AAC	IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
10689	AAC	IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6
10690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10691	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
10692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
10694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6
10695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6
10696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
10697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6
10698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
10699	AAC	IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.82	±9.6
10700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
10701	AAC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6
10702	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6
10703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
10705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6
10706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.6
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	±9.6
10714 10715	AAC AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN WLAN	8.30	±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.48 8.24	±9.6 ±9.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6
10713	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
10734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.25	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9.6
10736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	±9.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	±9.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6
10744 10745	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6
10745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.93	±9.6
10746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9.6
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	±9.6
10748	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	8.93	±9.6
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN WLAN	8.90	±9.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.79	±9.6
10751	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.82 8.81	±9.6 ±9.6
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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> $k = 2$
10753	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.6
10755	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6
10756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
10757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.77	±9.6
10758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	±9.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6
10760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)  IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN WLAN	8.49 8.53	±9.6
10763	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6 ±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10766	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
10767	AAG	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10770	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10771	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10772	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
10773	AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6
10774	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10775	AAF	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10776	AAE	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10778	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10779	AAE	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)  5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.42 8.38	±9.6
10781	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6 ±9.6
10782	AAE	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
10783	AAG	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10784	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	±9.6
10785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.6
10786	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10788	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10789	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	±9.6
10790	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10791	AAG	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10792	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
10794	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	7.82	±9.6
10796	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84 7.82	±9.6 ±9.6
10797	AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	±9.6
10798	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10799	AAF	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10801	AAF	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10802	AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
10803	AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10805	AAE	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±9.6
10809	AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10810	AAF	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10812	AAF	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10817	AAG	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.33	±9.6
10820	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6 ±9.6
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10822	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10823	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	±9.6
10824	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
10825	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10827	AAF	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	±9.6
10828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	±9.6
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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> $k=2$
10829	AAF	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9.6
10830	AAE	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.6
10832	AAE	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	±9.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10834	AAE	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	±9.6
10835	AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	±9.6
10837	AAF	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	±9.6
10839	AAF	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10840	AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	±9.6
10841	AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	±9.6
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	±9.6
10844	AAE	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)  5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.41	±9.6 ±9.6
10854	AAE	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10856	AAE	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9.6
10858	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10859	AAF	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10860	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10861	AAF	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	±9.6
10863	AAF	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10865	AAF	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10866	AAF	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10868	AAF	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
10869	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10871	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 KHz)	5G NR FR2 TDD 5G NR FR2 TDD	5.86 5.75	±9.6 ±9.6
10872	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
10873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10874	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
10880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
10881	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10882	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
10883	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
10884	AAE AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD 5G NR FR2 TDD	6.53	±9.6
10886	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61 6.65	±9.6 ±9.6
10887	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10888	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
10889	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	±9.6
10890	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	±9.6
10891	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	±9.6
10892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10897	AAE	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	±9.6
10898	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10900	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10902	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10903	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	5.68 5.68	±9.6
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6 ±9.6
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10907	AAE	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
10908	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
10910	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> <i>k</i> = 2
10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10912	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10914	AAC	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10916	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10918	AAE	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10919	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10921	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6
10923	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10925	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.6
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10927	AAD AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)  5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15kHz)	5G NR FR1 FDD 5G NR FR1 FDD	5.52 5.51	±9.6 ±9.6
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 25MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.51	±9.6
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10944	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10945	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10951	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8.25	±9.6
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD 5G NR FR1 FDD	8.15	±9.6
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23 8.42	±9.6
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6 ±9.6
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6 ±9.6
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
10960	AAE	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6
10961	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6
10963	AAC	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
10964	AAE	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
10965	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	±9.6
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	±9.6
10967	AAC	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	±9.6
10968	AAD	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	±9.6
10972	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	±9.6
10973	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
10974 10978	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
10978	AAA	ULLA BDR	ULLA	1.16	±9.6
10979	AAA	ULLA HDR4 ULLA HDR8	ULLA	8.58	±9.6
10980	AAA	ULLA HDRp4	ULLA	10.32	±9.6
10981	AAA	ULLA HDRp8	ULLA ULLA	3.19 3.43	±9.6
. 3002			JLLA	3.43	±9.6

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

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

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst Service suisse d'étalonnage

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Client

Element Morgan Hill, USA Certificate No.

EX-7782\_Sep23

# **CALIBRATION CERTIFICATE**

Object

EX3DV4 - SN:7782

9/28/2023

Calibration procedure(s)

QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,

QA CAL-25.v8

Calibration procedure for dosimetric E-field probes

Calibration date

September 12, 2023

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
OCP DAK-3.5 (weighted)	SN: 1249	20-Oct-22 (OCP-DAK3.5-1249_Oct22)	Oct-23
OCP DAK-12	SN: 1016	20-Oct-22 (OCP-DAK12-1016_Oct22)	Oct-23
Reference 20 dB Attenuator	SN: CC2552 (20x)	30-Mar-23 (No. 217-03809)	Mar-24
DAE4	SN: 660	16-Mar-23 (No. DAE4-660_Mar23)	Mar-24
Reference Probe ES3DV2	SN: 3013	06-Jan-23 (No. ES3-3013_Jan23)	Jan-24

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

Name Function Signature
Calibrated by Aldonia Georgiadou Laboratory Technician

Approved by Sven Kühn Technical Manager

Issued: September 12, 2023

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

## Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage

Servizio svizzero di taratura
S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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#### Glossary

TSL NORMx,y,z

tissue simulating liquid sensitivity in free space

ConvF DCP

sensitivity in TSL / NORMx,y,z diode compression point

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

Polarization  $\varphi$ 

 $\varphi$  rotation around probe axis

Polarization  $\vartheta$ 

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

normal to probe axis

Connector Angle

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

#### Calibration is Performed According to the Following Standards:

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

#### Methods Applied and Interpretation of Parameters:

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

# Parameters of Probe: EX3DV4 - SN:7782

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc ( <i>k</i> = 2)
Norm $(\mu V/(V/m)^2)^A$	0.67	0.55	0.58	±10.1%
DCP (mV) <sup>B</sup>	104.6	105.1	106.6	±4.7%

## **Calibration Results for Modulation Response**

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Max dev.	Max Unc <sup>E</sup>
				¥ 1					k = 2
0	CW	X	0.00	0.00	1.00	0.00	146.3	±3.8%	±4.7%
		Y	0.00	0.00	1.00		154.8		
		Z	0.00	0.00	1.00		137.4		
10352	Pulse Waveform (200Hz, 10%)	X	1.51	60.50	6.25	10.00	60.0	±3.0%	±9.6%
		Y	1.40	60.00	5.89	i 	60.0		
		Z	1.38	60.00	5.97		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	0.79	60.00	4.82	6.99	80.0	±2.8%	±9.6%
		Y	0.79	60.00	4.63		80.0		
		Z	22.00	74.00	9.00		80.0		
10354	Pulse Waveform (200Hz, 40%)	Х	0.22	154.15	2.91	3.98	95.0	±2.4%	±9.6%
	,	Υ	0.00	126.91	0.26		95.0		
		Z	0.45	60.00	3.68		95.0	ĺ	
10355	Pulse Waveform (200Hz, 60%)	X	0.00	154.06	40.85	2.22	120.0	±1.5%	±9.6%
	,	Υ	2.39	159.98	1.99		120.0		
		Z	0.32	60.00	2.80	Ì	120.0		
10387	QPSK Waveform, 1 MHz	X	0.62	69.00	16.17	1.00	150.0	±3.2%	±9.6%
		Y	0.41	62.44	11.56	İ	150.0		
	Anna and an anna an a	Z	0.60	66.80	14.33		150.0		
10388	QPSK Waveform, 10 MHz	X	1.55	69.93	15.73	0.00	150.0	±0.9%	±9.6%
		Y	1.15	65.42	13.02	1	150.0		
		Z	1.45	68.07	14.90	1	150.0		Ì
10396	64-QAM Waveform, 100 kHz	X	1.65	64.43	16.16	3.01	150.0	±1.1%	±9.6%
	er e	Y	1.74	65.22	16.17	1	150.0		
		Z	1.88	66.55	16.95		150.0		
10399	64-QAM Waveform, 40 MHz	X	2.85	67.42	15.80	0.00	150.0	±2.2%	±9.6%
		Y	2.67	66.24	14.95	1	150.0	1	
		Z	2.87	67.12	15.54	1	150.0	1	
10414	WLAN CCDF, 64-QAM, 40 MHz	Х	3.84	67.36	15.92	0.00	150.0	±3.4%	±9.6%
		Y	3.71	66.66	15.39	1	150.0	1	
		Z	3.79	66.59	15.54	1	150.0	1	

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%.

B Linearization parameter uncertainty for maximum specified field strength,

A The uncertainties of Norm X,Y,Z do not affect the E2-field uncertainty inside TSL (see Pages 5 and 6).

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

# Parameters of Probe: EX3DV4 - SN:7782

## **Sensor Model Parameters**

	C1 fF	C2 fF	α V <sup>-1</sup>	T1 ms V <sup>-2</sup>	T2 ms V <sup>-1</sup>	T3 ms	T4 V <sup>-2</sup>	<b>T</b> 5 V <sup>-1</sup>	Т6
Х	7.5	53.93	33.28	2.09	0.00	4.90	0.00	0.07	1.00
у	7.5	54.53	33.71	2.25	0.00	4.91	0.64	0.00	1.00
Z	8.5	60.99	32.72	4.45	0.00	4.90	0.67	0.00	1.00

## **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle	-97.4°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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

#### Parameters of Probe: EX3DV4 - SN:7782

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

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
750	41.9	0.89	9.26	9.26	9.26	0.59	0.80	±12.0%
835	41.5	0.90	8.99	8.99	8.99	0.44	0.87	±12.0%
1750	40.1	1.37	7.93	7.93	7.93	0.34	0.86	±12.0%
1900	40.0	1.40	7.76	7.76	7.76	0.32	0.86	±12.0%
2300	39.5	1.67	7.38	7.38	7.38	0.33	0.90	±12.0%
2450	39.2	1.80	7.11	7.11	7.11	0.38	0.90	±12.0%
2600	39.0	1.96	6.99	6.99	6.99	0.29	0.90	±12.0%
3500	37.9	2.91	6.19	6.19	6.19	0.30	1.35	±14.0%
3700	37.7	3.12	6.18	6.18	6.18	0.30	1.35	±14.0%
3900	37.5	3.32	5.65	5.65	5.65	0.40	1.60	±14.0%

<sup>&</sup>lt;sup>C</sup> Frequency validity above 300 MHz of  $\pm 100$  MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to  $\pm 50$  MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is  $\pm 10$ , 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to  $\pm 110$  MHz.

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

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

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

### Parameters of Probe: EX3DV4 - SN:7782

# Calibration Parameter Determined in Body 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)
3500	51.3	3.31	5.91	5.91	5.91	0.40	1.35	±14.0%
3700	51.0	3.55	5.91	5.91	5.91	0.40	1.35	±14.0%
3900	50.8	3.78	5.40	5.40	5.40	0.40	1.70	±14.0%

<sup>&</sup>lt;sup>C</sup> Frequency validity above 300 MHz of  $\pm 100$  MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to  $\pm 50$  MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is  $\pm 10$ , 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to  $\pm 110$  MHz.

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

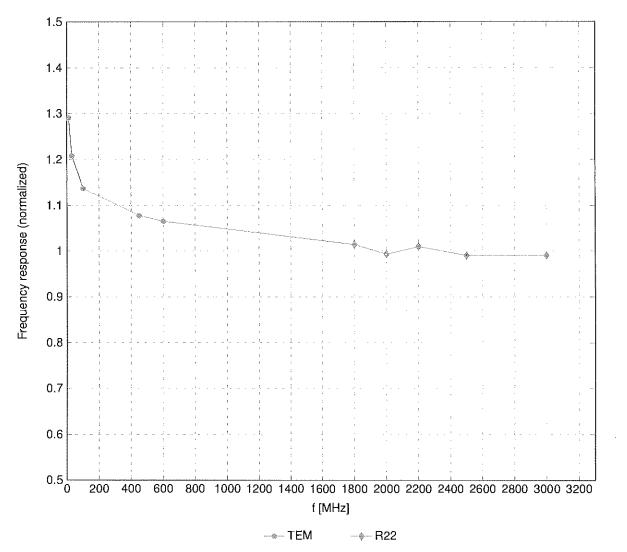
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F The probes are calibrated using tissue simulating liquids (TSL) that deviate for  $\varepsilon$  and  $\sigma$  by less than  $\pm 5\%$  from the target values (typically better than  $\pm 3\%$ ) and are valid for TSL with deviations of up to  $\pm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

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

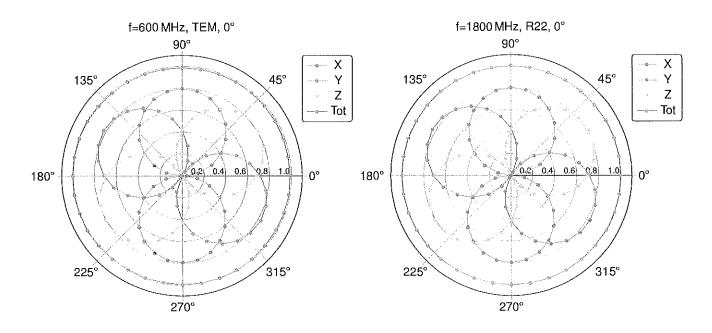
# Frequency Response of E-Field

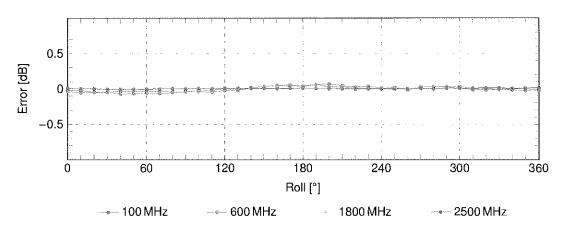
(TEM-Cell:ifi110 EXX, Waveguide:R22)



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

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

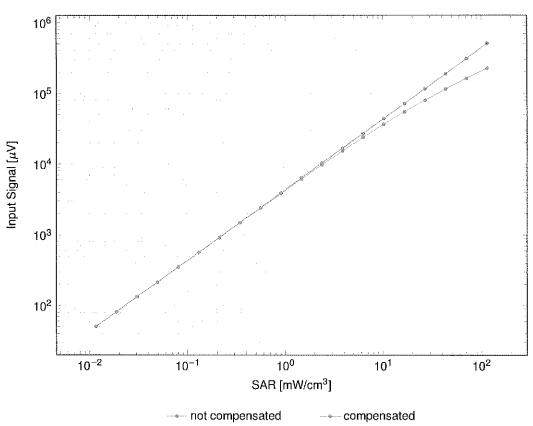


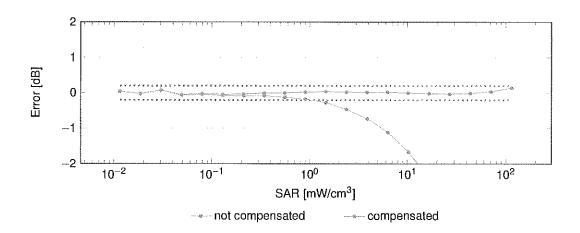


Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

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

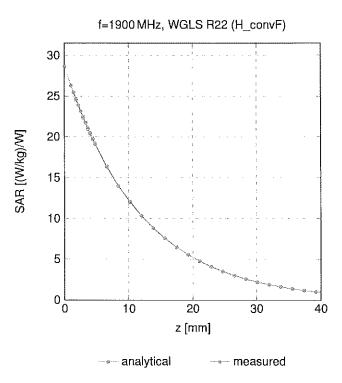
(TEM cell,  $f_{eval} = 1900\,\text{MHz})$ 



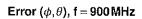


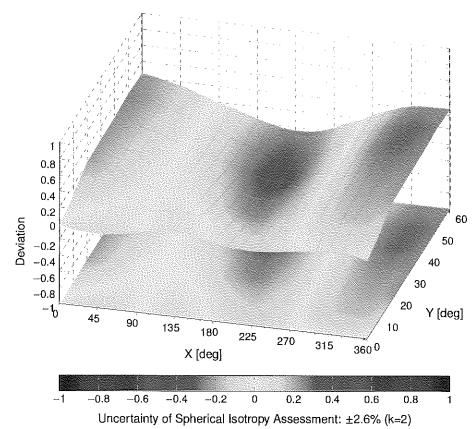
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  (k=2)

## **Conversion Factor Assessment**



# **Deviation from Isotropy in Liquid**





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# **Appendix: Modulation Calibration Parameters**

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> $k=2$
0		CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9,46	±9.6
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±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
10027	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
10029	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (Pl/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10033	<u> </u>	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6 ±9.6
10036	CAA		Bluetooth	4.77	
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)			±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	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
10105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
10108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10110	CAH	LTE-FDD (SC-FDMA, 100% RB, 10MRz, 10-QAM)	LTE-FDD	5.75	<b></b>
10111		LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)  LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD		±9.6
10111	CAH	LILTI DD (00-FDIMM, 100% FD, 31MFZ, 10-QAIM)	I LI E-LND	6.44	±9.6

GIU	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6
10113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9,6
10114	CAD	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAD	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
10116	CAD	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
10117	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6
10144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76 6.41	±9.6 ±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD LTE-FDD	6.72	±9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.42	±9.6
10149 10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10150	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TOD	9.28	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
10153	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52 5.73	±9.6
10177 10178	CALL	LTE-FDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-FDD LTE-FDD	6.52	±9.6
		LTE-FDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)			±9.6
10179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD LTE-FDD	6.50 6.50	±9.6 ±9.6
10181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15MHz, QPSK)	LTE-FDD	5.72	±9.6
10182	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)	LTE-FDD	6.51	±9.6
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10193	CAD	IEEE 802,11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
10194	CAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6
10195	CAD	IEEE 802,11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
10196	CAD	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
10197	CAD	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6
10198	CAD	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6
10219	CAD	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6
10220	CAD	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6
10221	CAD	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6
10222	CAD	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
10223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8,48	±9.6
10224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6

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UID   Rev   Communication System Name   Croup   PAR (68)   UID-225 CAC   UTS-FDD (PSR-N-1) B, I.AMPK, 16-QAM)   UIE-TDD   3-49   UIE-TDD   3	$Unc^{E} k = 2$
1022F   CAC	±9.6
10228   CAC	±9.6
10229   CAE   LTE-TID (SC-FDMA, 1 RB, 3MHz, 16-CAM)	±9.6
10231 CAE   LTE-TID (SC-FDMA, 1 RB, 3MHz, 64-OAM)	±9.6
10231   CAE   LTE-TDD (SC-FDMA, 1 RB, SMHz, 16-QAM)   LTE-TDD   9.19   10232   CAH   LTE-TDD (SC-FDMA, 1 RB, SMHz, 16-QAM)   LTE-TDD   9.18   10233   CAH   LTE-TDD (SC-FDMA, 1 RB, SMHz, 16-QAM)   LTE-TDD   10.25   10234   CAH   LTE-TDD (SC-FDMA, 1 RB, SMHz, 16-QAM)   LTE-TDD   0.25   10236   CAH   LTE-TDD (SC-FDMA, 1 RB, 10MHz, 16-QAM)   LTE-TDD   0.25   10236   CAH   LTE-TDD (SC-FDMA, 1 RB, 10MHz, 16-QAM)   LTE-TDD   0.25   10236   CAH   LTE-TDD (SC-FDMA, 1 RB, 10MHz, 16-QAM)   LTE-TDD   0.25   10237   CAH   LTE-TDD (SC-FDMA, 1 RB, 10MHz, 16-QAM)   LTE-TDD   0.25   10238   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)   LTE-TDD   0.25   10239   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)   LTE-TDD   0.25   10239   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)   LTE-TDD   0.25   10239   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)   LTE-TDD   0.25   10240   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)   LTE-TDD   0.25   10240   CAG   LTE-TDD (SC-FDMA, 50% RB, 1 AMHz, 16-QAM)   LTE-TDD   0.25   10241   CAC   LTE-TDD (SC-FDMA, 50% RB, 1 AMHz, 16-QAM)   LTE-TDD   0.25   10240   CAC   LTE-TDD (SC-FDMA, 50% RB, 1 AMHz, 16-QAM)   LTE-TDD   0.26   10240   CAC   LTE-TDD (SC-FDMA, 50% RB, 1 AMHz, 16-QAM)   LTE-TDD   0.46   10244   CAC   LTE-TDD (SC-FDMA, 50% RB, 1 AMHz, 16-QAM)   LTE-TDD   0.46   10244   CAC   LTE-TDD (SC-FDMA, 50% RB, 1 AMHz, 16-QAM)   LTE-TDD   0.06   10246   CAC   LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)   LTE-TDD   0.06   10246   CAC   LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)   LTE-TDD   0.06   10246   CAC   LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)   LTE-TDD   0.06   10246   CAC   LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)   LTE-TDD   0.06   10246   CAC   LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)   LTE-TDD   0.06   10246   CAC   LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)   LTE-TDD   0.06   10246   CAC   LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)   LTE-TDD   0.06   10246   CAC   LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)   LTE-TDD   0.06   10246   CAC   LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)   LTE-TDD   0.06   1024	±9.6
10233 CAH   LTE-TDD (SC-FDMA, 1 RB, SMHz, 16-CAM)	±9.6
10233   CAH   LTE-TDD (SC-FDMA, 1 RB, 5MHz, GPSK)   LTE-TDD   9.21     10235   CAH   LTE-TDD (SC-FDMA, 1 RB, 10MHz, 18-QAM)   LTE-TDD   9.21     10236   CAH   LTE-TDD (SC-FDMA, 1 RB, 10MHz, 18-QAM)   LTE-TDD   9.28     10237   CAH   LTE-TDD (SC-FDMA, 1 RB, 10MHz, 18-QAM)   LTE-TDD   9.28     10238   CAG   LTE-TDD (SC-FDMA, 1 RB, 10MHz, QPSK)   LTE-TDD   9.21     10239   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)   LTE-TDD   9.28     10240   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)   LTE-TDD   9.29     10240   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)   LTE-TDD   9.21     10241   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)   LTE-TDD   9.21     10242   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)   LTE-TDD   9.21     10243   CAG   LTE-TDD (SC-FDMA, 50% RB, 1 AMHz, 16-QAM)   LTE-TDD   9.21     10244   CAG   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   9.86     10243   CAG   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   9.86     10244   CAE   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   10.06     10245   CAE   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   10.06     10246   CAE   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   10.06     10247   CAH   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   10.06     10248   CAH   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   10.06     10249   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 6-QAM)   LTE-TDD   10.06     10249   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 6-QAM)   LTE-TDD   10.09     10249   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 6-QAM)   LTE-TDD   10.09     10249   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 6-QAM)   LTE-TDD   10.09     10249   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 6-QAM)   LTE-TDD   10.09     10240   CAE   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 6-QAM)   LTE-TDD   10.09     10240   CAE   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 6-QAM)   LTE-TDD   9.29     10250   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 6-QAM)   LTE-TDD   9.29     10250   CAI   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 6-QAM)   LTE-TDD   9.20     10256   CAG	±9.6
10234   CAH   LTE-TDD (SC-FDMA, 1 RB, 5MHz, DPSK)   LTE-TDD   9.48   10235   CAH   LTE-TDD (SC-FDMA, 1 RB, 10MHz, 64-CAM)   LTE-TDD   9.48   10236   CAH   LTE-TDD (SC-FDMA, 1 RB, 10MHz, 64-CAM)   LTE-TDD   10.25   10237   CAH   LTE-TDD (SC-FDMA, 1 RB, 10MHz, 64-CAM)   LTE-TDD   9.48   10238   CAG   LTE-TDD (SC-FDMA, 1 RB, 10MHz, 64-CAM)   LTE-TDD   9.48   10239   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-CAM)   LTE-TDD   9.49   10239   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-CAM)   LTE-TDD   9.21   10240   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-CAM)   LTE-TDD   9.21   10241   CAC   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-CAM)   LTE-TDD   9.21   10242   CAC   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-CAM)   LTE-TDD   9.86   10243   CAC   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-CAM)   LTE-TDD   9.48   10244   CAE   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-CAM)   LTE-TDD   9.48   10244   CAE   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-CAM)   LTE-TDD   9.48   10245   CAE   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-CAM)   LTE-TDD   9.40   10246   CAE   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-CAM)   LTE-TDD   10.06   10246   CAE   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-CAM)   LTE-TDD   10.06   10247   CAM   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-CAM)   LTE-TDD   9.30   10248   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-CAM)   LTE-TDD   9.30   10249   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-CAM)   LTE-TDD   9.30   10249   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-CAM)   LTE-TDD   9.30   10240   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-CAM)   LTE-TDD   9.29   10250   CAH   LTE-TDD (SC-FDMA, 50% RB, 10MHz, 64-CAM)   LTE-TDD   9.29   10250   CAH   LTE-TDD (SC-FDMA, 50% RB, 10MHz, 64-CAM)   LTE-TDD   9.20   10250   CAH   LTE-TDD (SC-FDMA, 50% RB, 10MHz, 64-CAM)   LTE-TDD   9.20   10250   CAH   LTE-TDD (SC-FDMA, 50% RB, 10MHz, 64-CAM)   LTE-TDD   9.20   10250   CAH   LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-CAM)   LTE-TDD   9.20   10250   CAE   LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-CAM)   LTE-TDD   9.20   10250   CAE   LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-	±9.6
10235   CAH   LTE-TDD (SC-FDMA, 1 RB, 10MHz, 84-QAM)   LTE-TDD   10.25     10236   CAH   LTE-TDD (SC-FDMA, 1 RB, 10MHz, 64-QAM)   LTE-TDD   10.25     10237   CAH   LTE-TDD (SC-FDMA, 1 RB, 10MHz, GPSK)   LTE-TDD   9.21     10238   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-CAM)   LTE-TDD   10.25     10239   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-CAM)   LTE-TDD   10.25     10240   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-CAM)   LTE-TDD   9.21     10241   CAG   LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-CAM)   LTE-TDD   9.82     10242   CAG   LTE-TDD (SC-FDMA, 50-K RB, 1.4 MHz, 64-CAM)   LTE-TDD   9.86     10243   CAG   LTE-TDD (SC-FDMA, 50-K RB, 1.4 MHz, 64-CAM)   LTE-TDD   9.86     10244   CAG   LTE-TDD (SC-FDMA, 50-K RB, 1.4 MHz, 64-CAM)   LTE-TDD   9.86     10245   CAG   LTE-TDD (SC-FDMA, 50-K RB, 1.4 MHz, 64-CAM)   LTE-TDD   9.86     10246   CAE   LTE-TDD (SC-FDMA, 50-K RB, 3 MHz, 64-CAM)   LTE-TDD   10.06     10246   CAE   LTE-TDD (SC-FDMA, 50-K RB, 3 MHz, 64-CAM)   LTE-TDD   10.06     10246   CAE   LTE-TDD (SC-FDMA, 50-K RB, 3 MHz, 64-CAM)   LTE-TDD   10.06     10246   CAE   LTE-TDD (SC-FDMA, 50-K RB, 5 MHz, 16-CAM)   LTE-TDD   10.06     10247   CAH   LTE-TDD (SC-FDMA, 50-K RB, 5 MHz, 16-CAM)   LTE-TDD   10.06     10248   CAH   LTE-TDD (SC-FDMA, 50-K RB, 5 MHz, 64-CAM)   LTE-TDD   10.06     10249   CAH   LTE-TDD (SC-FDMA, 50-K RB, 5 MHz, 64-CAM)   LTE-TDD   10.09     10249   CAH   LTE-TDD (SC-FDMA, 50-K RB, 5 MHz, 64-CAM)   LTE-TDD   10.10     10250   CAH   LTE-TDD (SC-FDMA, 50-K RB, 5 MHz, 64-CAM)   LTE-TDD   10.10     10251   CAH   LTE-TDD (SC-FDMA, 50-K RB, 5 MHz, 64-CAM)   LTE-TDD   10.11     10252   CAH   LTE-TDD (SC-FDMA, 50-K RB, 5 MHz, 64-CAM)   LTE-TDD   10.11     10253   CAG   LTE-TDD (SC-FDMA, 50-K RB, 5 MHz, 64-CAM)   LTE-TDD   10.11     10254   CAG   LTE-TDD (SC-FDMA, 50-K RB, 5 MHz, 64-CAM)   LTE-TDD   9.20     10255   CAG   LTE-TDD (SC-FDMA, 50-K RB, 5 MHz, 64-CAM)   LTE-TDD   9.20     10256   CAC   LTE-TDD (SC-FDMA, 50-K RB, 5 MHz, 64-CAM)   LTE-TDD   9.20     10257   CAG   LTE-TDD (SC-FDMA, 50-K RB,	±9.6
10236   CAH	±9.6
10236   CAB	±9.6
10238   CAG	±9.6
10239   GAG	±9.6
10241   CAC   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	±9.6
10242   CAC	±9.6
10243   CAC   LTE-TDD   (SC-FDMA, 50% RB, 14 MHz, QPSK)   LTE-TDD   9.48     10244   CAE   LTE-TDD   (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   10.06     10245   CAE   LTE-TDD   (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   10.06     10246   CAE   LTE-TDD   (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   9.30     10247   CAH   LTE-TDD   (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   LTE-TDD   9.91     10248   CAH   LTE-TDD   (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   LTE-TDD   9.91     10249   CAH   LTE-TDD   (SC-FDMA, 50% RB, 5 MHz, 2 PSK)   LTE-TDD   9.91     10249   CAH   LTE-TDD   (SC-FDMA, 50% RB, 5 MHz, 2 PSK)   LTE-TDD   9.81     10250   CAH   LTE-TDD   (SC-FDMA, 50% RB, 10 MHz, 2 PSK)   LTE-TDD   9.81     10251   CAH   LTE-TDD   (SC-FDMA, 50% RB, 10 MHz, 2 PSK)   LTE-TDD   9.81     10252   CAH   LTE-TDD   (SC-FDMA, 50% RB, 10 MHz, 2 PSK)   LTE-TDD   9.24     10253   CAG   LTE-TDD   (SC-FDMA, 50% RB, 15 MHz, 2 PSK)   LTE-TDD   9.92     10254   CAG   LTE-TDD   (SC-FDMA, 50% RB, 15 MHz, 2 PSK)   LTE-TDD   9.90     10255   CAG   LTE-TDD   (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   9.90     10256   CAG   LTE-TDD   (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   9.90     10257   CAC   LTE-TDD   (SC-FDMA, 50% RB, 14 MHz, 64-QAM)   LTE-TDD   9.96     10258   CAG   LTE-TDD   (SC-FDMA, 100% RB, 14 MHz, 64-QAM)   LTE-TDD   9.96     10259   CAC   LTE-TDD   (SC-FDMA, 100% RB, 14 MHz, 64-QAM)   LTE-TDD   9.96     10259   CAE   LTE-TDD   (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.96     10259   CAE   LTE-TDD   (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.96     10259   CAE   LTE-TDD   (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.96     10259   CAE   LTE-TDD   (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.96     10259   CAE   LTE-TDD   (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.96     10259   CAE   LTE-TDD   (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.96     10250   CAH   LTE-TDD   (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.96     10250   CAH   LTE-TDD   (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.96     10	±9.6
10244   CAE   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   10.06     10246   CAE   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   LTE-TDD   10.06     10247   CAH   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   LTE-TDD   9.30     10248   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   LTE-TDD   9.91     10248   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.91     10249   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.29     10250   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.29     10250   CAH   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-TDD   9.21     10251   CAH   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.24     10252   CAH   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.24     10253   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)   LTE-TDD   9.24     10254   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   9.90     10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   10.14     10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   9.20     10256   CAC   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM)   LTE-TDD   9.90     10257   CAC   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM)   LTE-TDD   9.90     10258   CAC   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM)   LTE-TDD   9.94     10259   CAE   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM)   LTE-TDD   9.94     10259   CAE   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM)   LTE-TDD   9.94     10250   CAE   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)   LTE-TDD   9.96     10256   CAC   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)   LTE-TDD   9.96     10256   CAC   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.97     10251   CAE   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.97     10252   CAE   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.98     10260   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.99     10261   CAE   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.99     10262   CAH   LTE-TDD (SC-FDMA, 100% RB	±9.6
10245   CAE   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   LTE-TDD   10.06   10246   CAE   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   9.91   10248   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   10.09   10249   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.91   10248   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.29   10250   CAH   LTE-TDD (SC-FDMA, 50% RB, 10MHz, 16-QAM)   LTE-TDD   9.21   10250   CAH   LTE-TDD (SC-FDMA, 50% RB, 10MHz, 16-QAM)   LTE-TDD   9.21   10251   CAH   LTE-TDD (SC-FDMA, 50% RB, 10MHz, 64-QAM)   LTE-TDD   10.17   10252   CAH   LTE-TDD (SC-FDMA, 50% RB, 10MHz, 64-QAM)   LTE-TDD   9.24   LTE-TDD (SC-FDMA, 50% RB, 15MHz, 16-QAM)   LTE-TDD   9.90   10254   CAG   LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)   LTE-TDD   9.90   10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)   LTE-TDD   10.14   10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)   LTE-TDD   9.20   10256   CAC   LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)   LTE-TDD   9.90   10257   CAC   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.90   10258   CAC   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.96   10258   CAC   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.96   10258   CAC   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.96   10258   CAC   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.96   10258   CAC   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.97   10261   CAE   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.98   10250   CAE   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.98   10250   CAE   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.99   10256   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.99   10256   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.90   10257   CAC   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.90   10258   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.90   10258   CAH   LTE-TDD (SC-FDMA, 100%	±9.6
10246   CAE   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   9.30     10247   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-CAM)   LTE-TDD   9.91     10248   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-CAM)   LTE-TDD   10.09     10249   CAH   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-CAM)   LTE-TDD   9.23     10250   CAH   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-CAM)   LTE-TDD   9.28     10251   CAH   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-CAM)   LTE-TDD   9.28     10252   CAH   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-CAM)   LTE-TDD   9.24     10253   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-CAM)   LTE-TDD   9.24     10253   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-CAM)   LTE-TDD   9.24     10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-CAM)   LTE-TDD   9.20     10256   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-CAM)   LTE-TDD   9.20     10257   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-CAM)   LTE-TDD   9.20     10258   CAG   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 16-CAM)   LTE-TDD   9.20     10259   CAG   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 16-CAM)   LTE-TDD   9.98     10250   CAE   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-CAM)   LTE-TDD   9.94     10258   CAC   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-CAM)   LTE-TDD   9.94     10259   CAE   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 16-CAM)   LTE-TDD   9.94     10250   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-CAM)   LTE-TDD   9.97     10261   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-CAM)   LTE-TDD   9.98     10260   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-CAM)   LTE-TDD   9.99     10261   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-CAM)   LTE-TDD   9.99     10262   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-CAM)   LTE-TDD   9.99     10263   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-CAM)   LTE-TDD   9.24     10264   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-CAM)   LTE-TDD   9.25     10265   CAC   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-CAM)   LTE-TDD   9.26     10266   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-CAM)   LTE-TDD   9.26     10267   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz,	±9.6
10247   CAH	±9.6
10248   CAH	±9.6
10249   CAH	±9.6
10250   CAH   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-TDD   9.81     10251   CAH   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   10.17     10252   CAH   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QFSK)   LTE-TDD   9.24     10253   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)   LTE-TDD   9.90     10254   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   10.14     10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QFSK)   LTE-TDD   9.20     10256   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QFSK)   LTE-TDD   9.20     10257   CAC   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.96     10258   CAC   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)   LTE-TDD   10.08     10259   CAC   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.94     10259   CAC   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QFSK)   LTE-TDD   9.94     10260   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.97     10261   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.97     10262   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.97     10263   CAE   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.83     10263   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.83     10264   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.83     10265   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.24     10266   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.23     10267   CAH   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)   LTE-TDD   9.23     10268   CAG   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)   LTE-TDD   9.90     10267   CAH   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)   LTE-TDD   9.90     10268   CAG   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)   LTE-TDD   9.90     10269   CAG   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 10-QAM)   LTE-TDD   9.90     10269   CAG   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 10-QAM)   LTE-TDD   9.90     10267   CAH   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 10-QAM)   LTE-TDD   9.90     10268   CAG   LTE-TDD (SC-FDMA,	±9.6 ±9.6
10251   CAH   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   10.17   10252   CAH   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.24   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)   LTE-TDD   10.14   10253   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   10.14   10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.20   10256   CAC   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.26   10257   CAC   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 16-QAM)   LTE-TDD   9.26   10257   CAC   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK)   LTE-TDD   9.96   10257   CAC   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK)   LTE-TDD   9.34   10259   CAC   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK)   LTE-TDD   9.34   10259   CAC   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   10260   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.98   10260   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)   LTE-TDD   9.97   10261   CAE   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)   LTE-TDD   9.24   10262   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   LTE-TDD   9.24   10263   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)   LTE-TDD   9.83   10263   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)   LTE-TDD   9.23   10265   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)   LTE-TDD   9.23   10266   CAH   LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK)   LTE-TDD   9.23   10266   CAH   LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK)   LTE-TDD   10.07   10267   CAH   LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK)   LTE-TDD   10.07   10267   CAH   LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK)   LTE-TDD   10.07   10267   CAH   LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK)   LTE-TDD   10.07   10267   CAH   LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK)   LTE-TDD   10.08   10268   CAG   LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK)   LTE-TDD   10.08   10268   CAG   LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK)   LTE-TDD   10.08   10268   CAG   LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK)   LTE-TDD   10.08   10268   CAG   LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK)   LT	±9.6
10252	±9.6
10253   CAG	±9.6
10254   CAG	±9.6
10255   CAG	±9.6
10257 CAC   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)   LTE-TDD   10.08   10258 CAC   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   LTE-TDD   9.34   10259 CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   10260 CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.97   10261 CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)   LTE-TDD   9.24   10262 CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   9.83   10263 CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   10.16   10264 CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)   LTE-TDD   9.23   10265 CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)   LTE-TDD   9.23   10265 CAH   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 6-QAM)   LTE-TDD   9.92   10266 CAH   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 6-QAM)   LTE-TDD   9.92   10266 CAH   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)   LTE-TDD   10.07   10267 CAH   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)   LTE-TDD   9.30   10268 CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 6-QAM)   LTE-TDD   10.06   10269 CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 6-QAM)   LTE-TDD   10.06   10269 CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 6-QAM)   LTE-TDD   10.13   10270 CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 6-QAM)   LTE-TDD   10.13   10270 CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 6-QAM)   LTE-TDD   9.58   10274 CAC   UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)   WCDMA   4.87   10275 CAG   UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)   WCDMA   3.96   10277 CAA   PHS (QPSK) BW 884 MHz, Rolloff 0.5)   PHS   11.81   10279 CAA   PHS (QPSK, BW 884 MHz, Rolloff 0.5)   PHS   11.81   10279 CAA   PHS (QPSK, BW 884 MHz, Rolloff 0.5)   PHS   11.81   10290 AAB   CDMA2000, RC3, SO55, Full Rate   CDMA2000   3.91   10291 AAB   CDMA2000, RC3, SO55, Full Rate   CDMA2000   3.50   10295 AAB   CDMA2000, RC3, SO35, Full Rate   CDMA2000   3.50   10295 AAB   CDMA2000, RC3, SO35, Full Rate   CDMA2000   3.50   10295 AAB   CDMA2000, RC3, SO35, Full Rate   CDMA2000   3.50   10295 AAB   CDMA2000, RC3, SO35, Full Rate   CDMA2000   3.50   10295 AAB   CDMA2	±9.6
10258   CAC   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   LTE-TDD   9.34     10259   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98     10260   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.97     10261   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)   LTE-TDD   9.24     10262   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   LTE-TDD   9.83     10263   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   10.16     10264   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)   LTE-TDD   9.23     10265   CAH   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)   LTE-TDD   9.92     10266   CAH   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)   LTE-TDD   10.07     10267   CAH   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)   LTE-TDD   9.30     10268   CAG   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)   LTE-TDD   10.06     10269   CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)   LTE-TDD   10.06     10269   CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)   LTE-TDD   10.13     10270   CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)   LTE-TDD   10.13     10270   CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)   LTE-TDD   9.58     10274   CAC   UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)   WCDMA   4.87     10275   CAC   UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)   WCDMA   3.96     10277   CAA   PHS (QPSK, BW 884 MHz, Rolloff 0.5)   PHS   11.81     10278   CAA   PHS (QPSK, BW 884 MHz, Rolloff 0.5)   PHS   11.81     10279   CAA   PHS (QPSK, BW 884 MHz, Rolloff 0.38)   PHS   12.18     10290   AAB   CDMA2000, RC3, SO55, Full Rate   CDMA2000   3.91     10291   AAB   CDMA2000, RC3, SO55, Full Rate   CDMA2000   3.50     10292   AAB   CDMA2000, RC3, SO32, Full Rate   CDMA2000   3.50     10295   AAB   CDMA2000, RC3, SO32, Full Rate   CDMA2000   3.50     10295   AAB   CDMA2000, RC3, SO32, Full Rate   CDMA2000   3.50     10295   AAB   CDMA2000, RC3, SO32, Full Rate   CDMA2000   3.50     10295   AAB   CDMA2000, RC3, SO32, Full Rate   CDMA2000   3.50     10296   AAB   CDMA2000, RC3, SO32, Full Rate   CDMA2000   3.50	±9.6
10259   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   10260   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.97   10261   CAE   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)   LTE-TDD   9.24   10262   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   LTE-TDD   9.83   10263   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)   LTE-TDD   10.16   10264   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)   LTE-TDD   9.23   10265   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)   LTE-TDD   9.92   10266   CAH   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)   LTE-TDD   9.92   10266   CAH   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)   LTE-TDD   10.07   10267   CAH   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)   LTE-TDD   9.30   10268   CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, GPSK)   LTE-TDD   10.06   10269   CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, GPSK)   LTE-TDD   10.13   10270   CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, GPSK)   LTE-TDD   9.58   10274   CAC   UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)   WCDMA   4.87   10275   CAC   UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)   WCDMA   3.96   10277   CAA   PHS (QPSK)   PHS   11.81   10279   CAA   PHS (QPSK)   CAS   PHS (QPSK)   PHS   11.81   10279   CAA   PHS (QPSK, BW 884 MHz, Rolloff 0.5)   PHS   11.81   10279   CAA   PHS (QPSK, BW 884 MHz, Rolloff 0.5)   PHS   11.81   10279   CAA   PHS (QPSK, BW 884 MHz, Rolloff 0.38)   PHS   CDMA2000   3.91   10291   AAB   CDMA2000, RC3, SO55, Full Rate   CDMA2000   3.99   10293   AAB   CDMA2000, RC3, SO55, Full Rate   CDMA2000   3.50   10295   AAB   CDMA2000, RC3, SO55, Full Rate   CDMA2000   3.50   10295   AAB   CDMA2000, RC3, SO32, Full Rate   CDMA2000   3.50   10295   AAB   CDMA2000, RC3, SO32, Full Rate   CDMA2000   3.50   10295   AAB   CDMA2000, RC3, SO32, Full Rate   CDMA2000   3.50   10295   AAB   CDMA2000, RC3, SO32, Full Rate   CDMA2000   3.50   10295   AAB   CDMA2000, RC3, SO32, Full Rate   CDMA2000   3.50   10295   AAB   CDMA2000, RC3, SO32, Full Rate   CDMA2000   3.50   10295   AAB   CDMA2000, RC3, SO32,	±9.6
10260 CAE LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.97     10261 CAE LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)   LTE-TDD   9.24     10262 CAH LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   LTE-TDD   9.83     10263 CAH LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   10.16     10264 CAH LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)   LTE-TDD   9.23     10265 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)   LTE-TDD   9.23     10266 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)   LTE-TDD   9.92     10266 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)   LTE-TDD   10.07     10267 CAH LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)   LTE-TDD   9.30     10268 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)   LTE-TDD   10.06     10269 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)   LTE-TDD   10.13     10270 CAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)   LTE-TDD   9.58     10274 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)   WCDMA   4.87     10275 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)   WCDMA   3.96     10277 CAA PHS (QPSK) BW 884 MHz, Rolloff 0.5)   PHS   11.81     10278 CAA PHS (QPSK, BW 884 MHz, Rolloff 0.58)   PHS   11.81     10279 CAA PHS (QPSK, BW 884 MHz, Rolloff 0.38)   PHS   12.18     10290 AAB CDMA2000, RC1, SO55, Full Rate   CDMA2000   3.46     10292 AAB CDMA2000, RC3, SO55, Full Rate   CDMA2000   3.39     10293 AAB CDMA2000, RC3, SO3, Full Rate   CDMA2000   3.50     10295 AAB CDMA2000, RC3, SO3, Full Rate   CDMA2000   3.50     10295 AAB CDMA2000, RC3, SO3, Full Rate   CDMA2000   3.50     10295 AAB CDMA2000, RC3, SO3, Full Rate   CDMA2000   3.50     10295 AAB CDMA2000, RC3, SO3, Full Rate   CDMA2000   3.50     10295 AAB CDMA2000, RC3, SO3, Full Rate   CDMA2000   3.50     10295 AAB CDMA2000, RC3, SO3, Full Rate   CDMA2000   3.50     10295 AAB CDMA2000, RC3, SO3, Full Rate   CDMA2000   3.50     10295 AAB CDMA2000, RC3, SO3, Full Rate   CDMA2000   3.50     10295 AAB CDMA2000, RC3, SO3, Full Rate   CDMA2000   3.50     10295 AAB CDMA2000, RC3, SO3, Full Rate   CDMA2000   3.50     10295 AAB CDMA2000,	±9.6
10261   CAE	±9.6
10262   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   LTE-TDD   9.83     10263   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   LTE-TDD   10.16     10264   CAH   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)   LTE-TDD   9.23     10265   CAH   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)   LTE-TDD   9.92     10266   CAH   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)   LTE-TDD   10.07     10267   CAH   LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)   LTE-TDD   9.30     10268   CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)   LTE-TDD   10.06     10269   CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)   LTE-TDD   10.13     10270   CAG   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)   LTE-TDD   9.58     10274   CAC   UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)   WCDMA   4.87     10275   CAC   UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)   WCDMA   3.96     10277   CAA   PHS (QPSK)   PHS   11.81     10278   CAA   PHS (QPSK, BW 884 MHz, Rolloff 0.5)   PHS   11.81     10279   CAA   PHS (QPSK, BW 884 MHz, Rolloff 0.38)   PHS   12.18     10290   AAB   CDMA2000, RC1, SO55, Full Rate   CDMA2000   3.39     10293   AAB   CDMA2000, RC3, SO32, Full Rate   CDMA2000   3.50     10295   AAB   CDMA2000, RC3, SO3, Full Rate   CDMA2000   3.50     10295   AAB   CDMA2000, RC1, SO3, 1/8th Rate 25 fr.   CDMA2000   12.49	±9.6
10263         CAH         LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)         LTE-TDD         10.16           10264         CAH         LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)         LTE-TDD         9.23           10265         CAH         LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)         LTE-TDD         9.92           10266         CAH         LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)         LTE-TDD         10.07           10267         CAH         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)         LTE-TDD         9.30           10268         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)         LTE-TDD         10.06           10269         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)         LTE-TDD         10.13           10270         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)         LTE-TDD         9.58           10274         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)         WCDMA         4.87           10275         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)         WCDMA         3.96           10277         CAA         PHS (QPSK)         PHS         11.81           10278         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.5)         PHS         11.81           10279         CAA	±9.6
10264         CAH         LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)         LTE-TDD         9.23           10265         CAH         LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)         LTE-TDD         9.92           10266         CAH         LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)         LTE-TDD         10.07           10267         CAH         LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)         LTE-TDD         9.30           10268         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)         LTE-TDD         10.06           10269         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)         LTE-TDD         10.13           10270         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)         LTE-TDD         9.58           10271         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)         LTE-TDD         9.58           10270         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)         LTE-TDD         9.58           10271         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)         LTE-TDD         9.58           10274         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)         WCDMA         4.87           10275         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)         WCDMA         3.96	±9.6
10265         CAH         LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)         LTE-TDD         9.92           10266         CAH         LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)         LTE-TDD         10.07           10267         CAH         LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)         LTE-TDD         9.30           10268         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)         LTE-TDD         10.06           10269         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)         LTE-TDD         10.13           10270         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)         LTE-TDD         9.58           10274         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)         WCDMA         4.87           10275         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)         WCDMA         3.96           10277         CAA         PHS (QPSK)         PHS         11.81           10278         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.5)         PHS         11.81           10279         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.38)         PHS         12.18           10290         AAB         CDMA2000, RC1, SO55, Full Rate         CDMA2000         3.39           10291         AAB         CDMA2000, RC	±9.6
10266         CAH         LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)         LTE-TDD         10.07           10267         CAH         LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)         LTE-TDD         9.30           10268         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)         LTE-TDD         10.06           10269         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)         LTE-TDD         10.13           10270         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)         LTE-TDD         9.58           10274         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)         WCDMA         4.87           10275         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)         WCDMA         3.96           10277         CAA         PHS (QPSK)         PHS         11.81           10278         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.5)         PHS         11.81           10279         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.38)         PHS         12.18           10290         AAB         CDMA2000, RC1, SO55, Full Rate         CDMA2000         3.91           10291         AAB         CDMA2000, RC3, SO35, Full Rate         CDMA2000         3.39           10293         AAB         CDMA2000, RC3, SO3, Ful	±9.6
10267         CAH         LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)         LTE-TDD         9,30           10268         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)         LTE-TDD         10.06           10269         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)         LTE-TDD         10.13           10270         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)         LTE-TDD         9.58           10274         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)         WCDMA         4.87           10275         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)         WCDMA         3.96           10277         CAA         PHS (QPSK)         PHS         11.81           10278         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.5)         PHS         11.81           10279         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.38)         PHS         12.18           10290         AAB         CDMA2000, RC1, SO55, Full Rate         CDMA2000         3.91           10291         AAB         CDMA2000, RC3, SO35, Full Rate         CDMA2000         3.39           10293         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10295         AAB         CDMA2000, RC1, SO3, 1/8lh Rate 25 fr	±9.6 ±9.6
10268         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)         LTE-TDD         10.06           10269         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)         LTE-TDD         10.13           10270         CAG         LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)         LTE-TDD         9.58           10274         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)         WCDMA         4.87           10275         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)         WCDMA         3.96           10277         CAA         PHS (QPSK)         PHS         11.81           10278         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.5)         PHS         11.81           10279         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.38)         PHS         12.18           10290         AAB         CDMA2000, RC1, SO55, Full Rate         CDMA2000         3.91           10291         AAB         CDMA2000, RC3, SO55, Full Rate         CDMA2000         3.39           10292         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10293         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         12.49	±9.6
10269         CAG         LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)         LTE-TDD         10.13           10270         CAG         LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK)         LTE-TDD         9.58           10274         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)         WCDMA         4.87           10275         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)         WCDMA         3.96           10277         CAA         PHS (QPSK)         PHS         11.81           10278         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.5)         PHS         11.81           10279         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.38)         PHS         12.18           10290         AAB         CDMA2000, RC1, SO55, Full Rate         CDMA2000         3.91           10291         AAB         CDMA2000, RC3, SO55, Full Rate         CDMA2000         3.39           10292         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10293         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10295         AAB         CDMA2000, RC1, SO3, 1/8lh Rate 25 fr.         CDMA2000         12.49	±9.6
10270         CAG         LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK)         LTE-TDD         9.58           10274         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)         WCDMA         4.87           10275         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)         WCDMA         3.96           10277         CAA         PHS (QPSK)         PHS         11.81           10278         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.5)         PHS         11.81           10279         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.38)         PHS         12.18           10290         AAB         CDMA2000, RC1, SO55, Full Rate         CDMA2000         3.91           10291         AAB         CDMA2000, RC3, SO55, Full Rate         CDMA2000         3.39           10292         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10293         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10295         AAB         CDMA2000, RC1, SO3, 1/8lh Rate 25 fr.         CDMA2000         12.49	±9.6
10274         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)         WCDMA         4.87           10275         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)         WCDMA         3.96           10277         CAA         PHS (QPSK)         PHS         11.81           10278         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.5)         PHS         11.81           10279         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.38)         PHS         12.18           10290         AAB         CDMA2000, RC1, SO55, Full Rate         CDMA2000         3.91           10291         AAB         CDMA2000, RC3, SO55, Full Rate         CDMA2000         3.39           10292         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10293         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10295         AAB         CDMA2000, RC1, SO3, 1/8lh Rate 25 fr.         CDMA2000         12.49	±9.6
10275         CAC         UMTS-FDD (HSUPA, Subtest 5, 3GPP Rei8.4)         WCDMA         3.96           10277         CAA         PHS (QPSK)         PHS         11.81           10278         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.5)         PHS         11.81           10279         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.38)         PHS         12.18           10290         AAB         CDMA2000, RC1, SO55, Full Rate         CDMA2000         3.91           10291         AAB         CDMA2000, RC3, SO55, Full Rate         CDMA2000         3.46           10292         AAB         CDMA2000, RC3, SO32, Full Rate         CDMA2000         3.39           10293         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10295         AAB         CDMA2000, RC1, SO3, 1/8lh Rate 25 fr.         CDMA2000         12.49	±9.6
10278         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.5)         PHS         11.81           10279         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.38)         PHS         12.18           10290         AAB         CDMA2000, RC1, SO55, Full Rate         CDMA2000         3.91           10291         AAB         CDMA2000, RC3, SO55, Full Rate         CDMA2000         3.46           10292         AAB         CDMA2000, RC3, SO32, Full Rate         CDMA2000         3.39           10293         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10295         AAB         CDMA2000, RC1, SO3, 1/8th Rate 25 fr.         CDMA2000         12.49	±9.6
10279         CAA         PHS (QPSK, BW 884 MHz, Rolloff 0.38)         PHS         12.18           10290         AAB         CDMA2000, RC1, SO55, Full Rate         CDMA2000         3.91           10291         AAB         CDMA2000, RC3, SO55, Full Rate         CDMA2000         3.46           10292         AAB         CDMA2000, RC3, SO32, Full Rate         CDMA2000         3.39           10293         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10295         AAB         CDMA2000, RC1, SO3, 1/8lh Rate 25 fr.         CDMA2000         12.49	±9.6
10290         AAB         CDMA2000, RC1, SO55, Full Rate         CDMA2000         3.91           10291         AAB         CDMA2000, RC3, SO55, Full Rate         CDMA2000         3.46           10292         AAB         CDMA2000, RC3, SO32, Full Rate         CDMA2000         3.39           10293         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10295         AAB         CDMA2000, RC1, SO3, 1/8lh Rate 25 fr.         CDMA2000         12.49	±9,6
10291         AAB         CDMA2000, RC3, SO55, Full Rate         CDMA2000         3.46           10292         AAB         CDMA2000, RC3, SO32, Full Rate         CDMA2000         3.39           10293         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10295         AAB         CDMA2000, RC1, SO3, 1/8th Rate 25 fr.         CDMA2000         12.49	±9.6
10292         AAB         CDMA2000, RC3, SO32, Full Rate         CDMA2000         3.39           10293         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10295         AAB         CDMA2000, RC1, SO3, 1/8th Rate 25 fr.         CDMA2000         12.49	±9.6
10293         AAB         CDMA2000, RC3, SO3, Full Rate         CDMA2000         3.50           10295         AAB         CDMA2000, RC1, SO3, 1/8th Rate 25 fr.         CDMA2000         12.49	±9.6
10295 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. CDMA2000 12.49	±9.6
	±9.6
	±9.6
10297 AAE   LTE-FDD (30-FDMA, 30% RB, 20MRZ, QF3K)   LTE-FDD   5.72	±9.6
10299 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-FDD 6.39	±9.6
10300 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)  LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)  LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	±9.6
10301 AAA IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC) WIMAX 12.03	±9.6
10302 AAA IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols) WIMAX 12.57	±9.6
10303 AAA IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC) WIMAX 12.52	±9.6
10304 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86	±9.6
10305 AAA IEEE 802.16e WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols) WIMAX 15.24	±9.6
10306 AAA IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols) WIMAX 14.67	±9.6

1839   AAA   EEE BIZ: 16W MAX (2918; In S.) (10MHz. (195A), PUSC. 18 symbols)   WMAX   14.48   49.6	UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
1939  AAA   BEET BEEZ 160 WMMX (2914), 10ms, 10MHz, 160AM, AUC 2d, 18 symbols  WMMX   14.58   19.6						
19320   AAA   EEE 802.169 WIMAX (2018, 107%) (1914), OPSKA, MAC 23, 18 symbols  WIMAX   14.57   29.6				WiMAX	14.46	±9.6
1931   AAA   IEEE 802 16 WMAX (2815, 10 ms, 10 MHz, QPSK)			IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WiMAX	14.58	±9.6
1931   AAP   ICR-FOD (SO-FDMA, 100W BR, 15 MHz, GPSK)	10310	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WIMAX	14.57	±9.6
10314   AAA   DEN 13	10311	AAE		LTE-FDD	6.06	±9.6
1931   AAB	10313	AAA		iDEN	10.51	±9.6
19317 AAD   IEEE 802.15 (WE) 24 CHY (ERP-CPEM, 8Mps, 8pc duty cycle)	10314	AAA	IDEN 1:6	IDEN	13.48	±9.6
1935   AAD   IEEE 802 11a WRF SGHZ (OPDM, 6Mpps, 98pc duly cycle)	10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
1935   AAA   Pulse Wiereform (20014; 1976)   Generic   110.00   19.8	10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8,36	±9.6
1935   AAA   Pulser Wierserm (20PHz, 1976)   Generic   6,99   49.8   1936   1	10317	AAD	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
1935   AAA   Pulse Western (20014; 69%)   Generic   3.98   49.8   19.6   19.5   19.5   AAA   Pulse Western (20014; 69%)   Generic   2.22   2.95   AAA   Pulse Western (20014; 69%)   Generic   5.97   49.6   AAA   Pulse Western (20014; 69%)   Generic   5.97   49.6   AAA   Pulse Western (20014; 69%)   Generic   5.97   49.6   AAA   CPSK Western, 10Hz   Generic   5.10   49.6   AAA   A. CPSK Western, 10Hz   Generic   5.22   3.5   AAA   CPSK Western, 10Hz   Generic   5.22   3.5   AAA   64-CAM Western, 10Hz   Generic   6.27   49.6   AAA   64-CAM Western, 10Hz   AAA   AAA	10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6
1935   AAA   Pulse Wisveltorn (2001tz, 60%)   General   2.22   9.6	10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
1935   AAA	10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6
19389 AAA	10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2,22	±9.6
10388   AAA   ACPSK Wawform, 10MHz   Generic   6.27   29.6     10399   AAA   64-QAM Wawform, 40MHz   Generic   6.27   29.6     10399   AAA   EEEE 802.11a WIFE (BOMHz, 64-QAM, 99pc duty cycle)   WLAN   8.36   39.6     10401   AAE   EEEE 802.11a WIFE (BOMHz, 64-QAM, 99pc duty cycle)   WLAN   8.60   49.6     10402   AAE   EEEE 802.11a WIFE (BOMHz, 64-QAM, 99pc duty cycle)   WLAN   8.60   49.6     10403   AAE   CEEE 802.11a WIFE (BOMHz, 64-QAM, 99pc duty cycle)   WLAN   8.60   49.6     10404   AAB   COMAZBOOR (LIKEV-DO, Rev. A)   CDMAZBOOD   3.76   49.6     10404   AAB   COMAZBOOR (LIKEV-DO, Rev. A)   CDMAZBOOD   3.77   49.6     10406   AAB   COMAZBOOR (LIKEV-DO, Rev. A)   CDMAZBOOD   3.77   49.6     10406   AAB   COMAZBOOR (LIKEV-DO, Rev. A)   CDMAZBOOD   5.22   49.6     10410   AAH   LITE-TIDD (SC-FDMA, 18.8 ) LOMHz, CDMSK, UL Subframe=2,3.4,7,8,9, Subframe Confl-4)   LITE-TIDD   5.2   49.6     10411   AAH   LITE-TIDD (SC-FDMA, 18.8 ) LOMHz, CDMSK, UL Subframe=2,3.4,7,8,9, Subframe Confl-4)   LITE-TIDD   5.2   49.6     10415   AAA   LIEEE 802.11b WIFE 2.4 GHz (ERPO-POEM, 6Mbps, 99pc duty cycle)   WLAN   1.54   49.6     10416   AAA   LIEEE 802.11g WIFE 2.4 GHz (ERPO-POEM, 6Mbps, 99pc duty cycle)   WLAN   1.54   49.6     10417   AAC   LIEEE 802.11g WIFE 2.4 GHz (ERPO-POEM, 6Mbps, 99pc duty cycle)   WLAN   8.22   49.6     10418   AAA   LIEEE 802.11g WIFE 2.4 GHz (ERPO-POEM, 6Mbps, 99pc duty cycle)   WLAN   8.24   49.6     10419   AAA   LIEEE 802.11g WIFE 2.4 GHz (ERPO-POEM, 6Mbps, 99pc duty cycle, Long preambule)   WLAN   8.14   49.6     10422   AAC   LIEEE 802.11m (HT Greenfield, 7.2 Mbps, 8PSK)   WLAN   8.32   49.6     10423   AAC   LIEEE 802.11m (HT Greenfield, 7.2 Mbps, 8PSK)   WLAN   8.32   49.6     10424   AAC   LIEEE 802.11m (HT Greenfield, 7.2 Mbps, 8PSK)   WLAN   8.49   8.6     10425   AAC   LIEEE 802.11m (HT Greenfield, 7.2 Mbps, 8PSK)   WLAN   8.49   8.6     10426   AAC   LIEEE 802.11m (HT Greenfield, 7.2 Mbps, 8PSK)   WLAN   8.49   8.6     10427   AAC   LIEEE 802.11m (HT Greenfield, 7.2 Mbps, 8PSK)   W	10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6
10399   AAA   64-QAM Waveform, 100Hz   Generic   6.27   49.6     10399   AAA   EEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)   WLAN   8.37   49.6     10401   AAE   EEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)   WLAN   8.37   49.6     10401   AAE   EEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)   WLAN   8.33   49.6     10402   AAE   EEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)   WLAN   8.33   49.6     10402   AAE   CDMAQ000 (1xEV-DO, Rev. 0)   CDMAQ000   3.76   19.6     10404   AAB   CDMAQ000 (1xEV-DO, Rev. A)   CDMAQ000   3.77   19.6     10404   AAB   CDMAQ000 (1xEV-DO, Rev. A)   CDMAQ000   3.77   19.6     10405   AAB   CDMAQ000 (1xEV-DO, Rev. A)   CDMAQ000   3.77   19.6     10406   AAB   CDMAQ000 (1xEV-DO, Rev. A)   CDMAQ000   3.77   19.6     10410   AAH   LTE-TDO (5c-POMA 1 R8 ) 10MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD (5c-POMA 1 R8 ) 10MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD (5c-POMA 1 R8 ) 10MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD (5c-POMA 1 R8 ) 10MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD (5c-POMA 1 R8 ) 10MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD (5c-POMA 1 R8 ) 10MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD (5c-POMA 1 R8 ) 10MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD (5c-POMA 1 R8 ) 10MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD (5c-POMA 1 R8 ) 10MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD (7c-POMA 1 R8 ) 10MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD (7c-POMA 1 R8 ) 10MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD (7c-POMA 1 R8 ) 10MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Cont-4)   LTE-TDD (7c-POMA 1 R8 ) 10MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe=2,3,4,	10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
10399   AAA   84-QAM Wewsform, 40MHz   Generic   6.27   2.9.6	10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	±9.6
1940   AAE	10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9,6
10401   AAE   IEEE 802.11a WIFI (10 MHz, 64-OAM, 99pc duty cycle)   WLAN   8.50   19.6	10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
10402   AAE	10400	AAE		WLAN	8.37	±9.6
Total	10401	AAE	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10404   AAB   CDMA2000 (1xEVDO, Rev. A)   CDMA2000   5.22   ±9.6	10402	AAE				<u> </u>
10410	10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
10410	10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
10414	10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6
10415	10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	±9.6
10416	10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10417   AAC   IEEE 802.11 a/h WiF1 5 GHz (OFDM, 6 Mbps, 99pc duly cycle, Long preambule)	10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10418   AAA   IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)   WLAN   8.14   49.6   10419   AAA   IEEE 802.11n (HT Greenfield, 7.2 Mbps, 8Ps K)   WLAN   8.19   49.6   MLAN   8.19   49.6   MLAN   8.22   49.6   MLAN   8.22   49.6   MLAN   8.22   49.6   MLAN   8.47   49.6   MLAN   8.40   EEE 802.11n (HT Greenfield, 7.2 Mbps, 8F-SK)   WLAN   8.41   49.6   MLAN   8.41   49.6   MLAN	10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10419   AAA   IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)   WLAN   8.19   ±9.6	10417	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10422   AAC   IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	10418	AAA	IEEE 802.11g WiFl 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	±9.6
10423   AAC   IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)   WLAN   8.47   £9.6	10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.19	±9.6
10424   AAC   IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	10422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8,32	±9.6
10425	10423	AAC	IEEE 802,11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	±9.6
10426 AAC   IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)   WLAN   8.45   ±9.6   10427 AAC   IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)   WILAN   8.41   ±9.6   10430   AAE   LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)   LTE-FDD   8.28   ±9.6   10431   AAE   LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)   LTE-FDD   8.38   ±9.6   10432   AAD   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)   LTE-FDD   8.34   ±9.6   10433   AAD   LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)   LTE-FDD   8.34   ±9.6   10433   AAD   LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)   LTE-FDD   WCDMA   8.60   ±9.6   10434   AAB   W-CDMA (BS Test Model 1, 64 DPCH)   WCDMA   8.60   ±9.6   10435   AAG   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.82   ±9.6   10447   AAE   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.56   ±9.6   10448   AAE   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.55   ±9.6   10449   AAD   LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.55   ±9.6   10450   AAD   LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.55   ±9.6   10450   AAD   LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.51   ±9.6   10451   AAB   W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)   UTE-FDD   7.51   ±9.6   10453   AAE   Validation (Square, 10 ms, 1 ms)   Test   10.00   ±9.6   10456   AAC   IEEE 802.11ac WiFi (180 MHz, 64-QAM, 99c duty cycle)   WLAN   8.63   ±9.6   10458   AAA   CDMA2000 (1xEV-DO, Rev. B, 3 carriers)   CDMA2000   6.55   ±9.6   10459   AAA   CDMA2000 (1xEV-DO, Rev. B, 2 carriers)   CDMA2000   6.55   ±9.6   10460   AAB   UMTS-FDD (WCDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,34,7,8,9)   LTE-TDD   7.82   ±9.6   10462   AAC   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, GPSK, UL Subframe=2,34,7,8,9)   LTE-TDD   8.30   ±9.6   10466   AAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,34,7,8,9)   LTE-TDD   8.32   ±9.6   10466   AAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,34,7,8,9)   LTE-TDD   8.32   ±9.6   10468   AAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,34,7,8,9)   LTE-	10424	AAC	IEEE 802,11n (HT Greenfield, 72,2 Mbps, 64-QAM)	WLAN	8.40	±9.6
10427   AAC   IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)   WLAN   8.41   ±9.6	10425	AAC	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6
10430   AAE   LTE-FDD (OFDMA, 5MHz, E-TM 3.1)   LTE-FDD   8.28   ±9.6	10426	AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	±9.6
10431         AAE         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)         LTE-FDD         8.38         ±9.6           10432         AAD         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)         LTE-FDD         8.34         ±9.6           10433         AAD         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)         LTE-FDD         8.34         ±9.6           10434         AAB         W-CDMA (BS Test Model 1, 64 DPCH)         WCDMA         8.60         ±9.6           10435         AAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.52         ±9.6           10447         AAE         LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.56         ±9.6           10448         AAE         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.53         ±9.6           10450         AAD         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.51         ±9.6           10451         AAB         W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         LTE-FDD         7.51         ±9.6           10453         AAE         Validation (Square, 10 ms, 1 ms)         Test         10.00         ±9.6           10453         AAE         Validation (Square, 10 ms, 1 ms)         WCDMA         <	10427	AAC	L	WLAN	8.41	±9.6
10432   AAD	1	AAE	1		8.28	
10433   AAD   LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)   LTE-FDD   8.34   ±9.6	10431	AAE	I	LTE-FDD	8.38	±9.6
10434         AAB         W-CDMA (BS Test Model 1, 64 DPCH)         WCDMA         8.60         ±9.6           10435         AAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10447         AAE         LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.56         ±9.6           10448         AAE         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.53         ±9.6           10449         AAD         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.51         ±9.6           10450         AAD         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.51         ±9.6           10451         AAB         W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         LTE-FDD         7.59         ±9.6           10453         AAE         Validation (Square, 10 ms, 1 ms)         Test         10.00         ±9.6           10454         AAC         IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)         WLAN         8.63         ±9.6           10457         AAB         UMTS-FDD (DC-HSDPA)         WCDMA         6.62         ±9.6           10458         AAA         CDMA20000 (1xEV-DO, Rev. B, 2 carriers) <t< td=""><td>10432</td><td>AAD</td><td>1</td><td>LTE-FDD</td><td>8.34</td><td>±9.6</td></t<>	10432	AAD	1	LTE-FDD	8.34	±9.6
10435   AAG   LTE-TDD   (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.82						
10447   AAE   LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)   LTE-FDD   7.56   ±9.6	10434	AAB		WCDMA	8.60	±9.6
10448         AAE         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)         LTE-FDD         7.53         ±9.6           10449         AAD         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.51         ±9.6           10450         AAD         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.48         ±9.6           10451         AAB         W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         WCDMA         7.59         ±9.6           10453         AAE         Validation (Square, 10 ms, 1 ms)         Test         10.00         ±9.6           10456         AAC         IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)         WLAN         8.63         ±9.6           10457         AAB         UMTS-FDD (DC-HSDPA)         WCDMA         6.62         ±9.6           10458         AAA         CDMA2000 (1xEV-DO, Rev. B, 2 carriers)         CDMA2000         6.55         ±9.6           10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         CDMA2000         8.25         ±9.6           10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6           10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, GPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD	10435	AAG		LTE-TDD		±9.6
10449         AAD         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)         LTE-FDD         7.51         ±9.6           10450         AAD         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.48         ±9.6           10451         AAB         W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         WCDMA         7.59         ±9.6           10453         AAE         Validation (Square, 10 ms, 1 ms)         Test         10.00         ±9.6           10456         AAC         IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)         WLAN         8.63         ±9.6           10457         AAB         UMTS-FDD (DC-HSDPA)         WCDMA         6.62         ±9.6           10458         AAA         CDMA2000 (1xEV-DO, Rev. B, 2 carriers)         CDMA2000         6.55         ±9.6           10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         CDMA2000         8.25         ±9.6           10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6           10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10462         AAC         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE		AAE	<u> </u>			
10450         AAD         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD         7.48         ±9.6           10451         AAB         W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         WCDMA         7.59         ±9.6           10453         AAE         Validation (Square, 10 ms, 1 ms)         Test         10.00         ±9.6           10456         AAC         IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)         WLAN         8.63         ±9.6           10457         AAB         UMTS-FDD (DC-HSDPA)         WCDMA         6.62         ±9.6           10458         AAA         CDMA2000 (1xEV-DO, Rev. B, 2 carriers)         CDMA2000         6.55         ±9.6           10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         CDMA2000         8.25         ±9.6           10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6           10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10462         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10463         AAC         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) </td <td>L</td> <td></td> <td></td> <td><del>                                      </del></td> <td></td> <td></td>	L			<del>                                      </del>		
10451       AAB       W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)       WCDMA       7.59       ±9.6         10453       AAE       Validation (Square, 10 ms, 1 ms)       Test       10.00       ±9.6         10456       AAC       IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)       WLAN       8.63       ±9.6         10457       AAB       UMTS-FDD (DC-HSDPA)       WCDMA       6.62       ±9.6         10458       AAA       CDMA2000 (1xEV-DO, Rev. B, 2 carriers)       CDMA2000       6.55       ±9.6         10459       AAA       CDMA2000 (1xEV-DO, Rev. B, 3 carriers)       CDMA2000       8.25       ±9.6         10460       AAB       UMTS-FDD (WCDMA, AMR)       WCDMA       2.39       ±9.6         10461       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10462       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.56       ±9.6         10463       AAC       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10464       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6         1046						
10453         AAE         Validation (Square, 10 ms, 1 ms)         Test         10.00         ±9.6           10456         AAC         IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)         WLAN         8.63         ±9.6           10457         AAB         UMTS-FDD (DC-HSDPA)         WCDMA         6.62         ±9.6           10458         AAA         CDMA2000 (1xEV-DO, Rev. B, 2 carriers)         CDMA2000         6.55         ±9.6           10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         CDMA2000         8.25         ±9.6           10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6           10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10462         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.30         ±9.6           10463         AAC         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10464         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10465         AAD         LTE-TDD (SC-FDMA, 1 RB, 5 MHz,		<b>.</b>	l , ,			
10456       AAC       IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)       WLAN       8.63       ±9.6         10457       AAB       UMTS-FDD (DC-HSDPA)       WCDMA       6.62       ±9.6         10458       AAA       CDMA2000 (1xEV-DO, Rev. B, 2 carriers)       CDMA2000       6.55       ±9.6         10459       AAA       CDMA2000 (1xEV-DO, Rev. B, 3 carriers)       CDMA2000       8.25       ±9.6         10460       AAB       UMTS-FDD (WCDMA, AMR)       WCDMA       2.39       ±9.6         10461       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10462       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.30       ±9.6         10463       AAC       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.56       ±9.6         10464       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10465       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6         10466       AAD       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.57			1 , , , , , , , , , , , , , , , , , , ,	<del></del>		
10457         AAB         UMTS-FDD (DC-HSDPA)         WCDMA         6.62         ±9.6           10458         AAA         CDMA2000 (1xEV-DO, Rev. B, 2 carriers)         CDMA2000         6.55         ±9.6           10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         CDMA2000         8.25         ±9.6           10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6           10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10462         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.30         ±9.6           10463         AAC         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10464         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10465         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10466         AAD         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.57         ±9.6           10467         AAG		ļ	1	.1		
10458       AAA       CDMA2000 (1xEV-DO, Rev. B, 2 carriers)       CDMA2000       6.55       ±9.6         10459       AAA       CDMA2000 (1xEV-DO, Rev. B, 3 carriers)       CDMA2000       8.25       ±9.6         10460       AAB       UMTS-FDD (WCDMA, AMR)       WCDMA       2.39       ±9.6         10461       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10462       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.30       ±9.6         10463       AAC       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.56       ±9.6         10464       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10465       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6         10466       AAD       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.57       ±9.6         10467       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10468       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,		ļ				
10459         AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         CDMA2000         8.25         ±9.6           10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6           10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10462         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.30         ±9.6           10463         AAC         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10464         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, GPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10465         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10466         AAD         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.57         ±9.6           10467         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10468         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6			l		<u></u>	
10460         AAB         UMTS-FDD (WCDMA, AMR)         WCDMA         2.39         ±9.6           10461         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10462         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.30         ±9.6           10463         AAC         LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.56         ±9.6           10464         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10465         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6           10466         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.57         ±9.6           10467         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10468         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6		<u> </u>	I			
10461       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10462       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.30       ±9.6         10463       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.56       ±9.6         10464       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10465       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6         10466       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.57       ±9.6         10467       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10468       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6	<u> </u>	1	<u> </u>			<u> </u>
10462       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.30       ±9.6         10463       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.56       ±9.6         10464       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10465       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6         10466       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.57       ±9.6         10467       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10468       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6			1			
10463       AAC       LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.56       ±9.6         10464       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10465       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6         10466       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.57       ±9.6         10467       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10468       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6	<u> </u>			<del></del>		
10464       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10465       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6         10466       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.57       ±9.6         10467       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10468       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.1		
10465       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6         10466       AAD       LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.57       ±9.6         10467       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       LTE-TDD       7.82       ±9.6         10468       AAG       LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.32       ±9.6						
10466         AAD         LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.57         ±9.6           10467         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10468         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6		ļ	, , , , , , , , , , , , , , , , , , , ,		·····	
10467         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.82         ±9.6           10468         AAG         LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.32         ±9.6		<del></del>				
10468 AAG LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.32 ±9.6		<u> </u>	1			
	ļ	1		<del>  , , , , , , , , , , , , , , , , , , ,</del>		<u> </u>
1 10 100 1 140 1 17F TON 100 FD111 1 00 F111 01 011 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 1 1 0 1 1 0 1	L			1		
10469 AAG LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.56 ±9.6	<u> </u>					- <del></del>
10470 AAG LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.82 ±9.6			<u> </u>	<del></del>		· · · · · · · · · · · · · · · · · · ·
10471 AAG LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.32 ±9.6	10471	AAG	LIE-TOD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LIE-TDD	8.32	<u>+9.6</u>

1947   APE   LTE-TIDD   ISC-PEMA   1RI   15MHz   15AML   LSubframe-23.4.7.8.9   LTE-TIDD   7.82   2.98     19475   APE   LTE-TIDD   ISC-PEMA   1RI   15MHz   15AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.57   4.9.6     19477   APE   LTE-TIDD   ISC-PEMA   1RI   15MHz   15AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.57   4.9.6     19477   APE   LTE-TIDD   ISC-PEMA   1RI   15MHz   15AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.57   4.9.6     19478   AAG   LTE-TIDD   ISC-PEMA   1RI   25MHz   15AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.57   4.9.6     19489   AAG   LTE-TIDD   ISC-PEMA   1RI   25MHz   15AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.57   4.9.6     19480   AAC   LTE-TIDD   ISC-PEMA   50R   8.1.4MHz   15AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.18   4.9.6     19481   AAG   LTE-TIDD   ISC-PEMA   50R   8.1.4MHz   15AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.18   4.9.6     19482   AAD   LTE-TIDD   ISC-PEMA   50R   8.3.4MHz   64AML   LSubframe-23.4.7.8.9   LTE-TIDD   5.18   4.9.6     19483   AAD   LTE-TIDD   ISC-PEMA   50R   8.3.4MHz   64AML   LSubframe-23.4.7.8.9   LTE-TIDD   7.71   4.9.6     19483   AAD   LTE-TIDD   ISC-PEMA   50R   8.3.4MHz   64AML   LSubframe-23.4.7.8.9   LTE-TIDD   7.71   4.9.6     19483   AAD   LTE-TIDD   ISC-PEMA   50R   8.3.4MHz   64AML   LSubframe-23.4.7.8.9   LTE-TIDD   7.71   4.9.6     19484   AAD   LTE-TIDD   ISC-PEMA   50R   8.3.4MHz   64AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.47   4.9.6     19485   AAG   LTE-TIDD   ISC-PEMA   50R   8.3.4MHz   64AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.47   4.9.6     19485   AAG   LTE-TIDD   ISC-PEMA   50R   8.3.4MHz   64AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.47   4.9.6     19485   AAG   LTE-TIDD   ISC-PEMA   50R   8.3.4MHz   64AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.47   4.9.6     19485   AAG   LTE-TIDD   ISC-PEMA   50R   8.3.4MHz   64AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.3.4MHz   54AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.3.4MHz   54AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.3.4MHz   54AML   LSubframe-23.4.7.8.9   LTE-TIDD   8.3.4MHz   54AML	UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10475 AAF	10472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10477 AAF		AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
1947   AAG	10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
19078   AAG	10475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10470   AAC	10477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
TO-SED   AAC   LTE-TDD   GC-FDMA 50% RB   14MHz,   G-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   8.46   49.8   10482   AAD   LTE-TDD   GC-FDMA 50% RB   4MHz,   G-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   8.46   49.8   10483   AAD   LTE-TDD   GC-FDMA 50% RB   3MHz,   G-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   8.771   48.8   10483   AAD   LTE-TDD   GC-FDMA, 50% RB   3MHz,   G-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   8.47   44.8   10485   AAD   LTE-TDD   GC-FDMA, 50% RB   3MHz,   G-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   8.47   44.8   10485   AAG   LTE-TDD   GC-FDMA, 50% RB   5MHz,   GC-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   7.70   49.6   10485   AAG   LTE-TDD   GC-FDMA, 50% RB   5MHz,   GC-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   6.38   49.8   10487   AAG   LTE-TDD   GC-FDMA, 50% RB   5MHz,   GC-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   6.38   49.8   10487   AAG   LTE-TDD   GC-FDMA, 50% RB   5MHz,   GC-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   7.70   49.8   10488   AAG   LTE-TDD   GC-FDMA, 50% RB   5MHz,   GC-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   7.70   49.8   10489   AAG   LTE-TDD   GC-FDMA, 50% RB   5MHz,   GC-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   7.70   49.8   10489   AAG   LTE-TDD   GC-FDMA, 50% RB   5MHz,   GC-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   6.54   49.8   10489   AAG   LTE-TDD   GC-FDMA, 50% RB   5MHz,   GC-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   6.54   49.8   10489   AAG   LTE-TDD   GC-FDMA, 50% RB   5MHz,   GC-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   7.74   49.8   10489   AAG   LTE-TDD   GC-FDMA, 50% RB   SMHz,   GC-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   6.55   40.8   10489   AAG   LTE-TDD   GC-FDMA, 50% RB   SMHz,   GC-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   6.56   40.8   10489   AAG   LTE-TDD   GC-FDMA, 50% RB   SMHz,   GC-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   6.57   40.8   10489   AAG   LTE-TDD   GC-FDMA, 50% RB   SMHz,   GC-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   6.57   40.8   10489   AAG   LTE-TDD   GC-FDMA, 50% RB   SMHz,   GC-QAM, UL Subframe-2,3.4.7.8.9   LTE-TDD   6.57   40.8	10478	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10481   AAC	10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10482   AAD   LTE-TDD (SC-FDMA, 50% RB, 3MHz, 60-AM, U. Subframe-2,3,4,7,8,9)   LTE-TDD   R.39   4.98	10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	±9.6
10481   AAD   LTE-TDD (SC-FDMA, 50% RB, 3MHz, 64-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   SC-FDMA, 50% RB, 5MHz, 64-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   SC-FDMA, 50% RB, 5MHz, 64-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   7.59   ±8.6   10483   AAG   LTE-TDD (SC-FDMA, 50% RB, 5MHz, 64-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   7.59   ±8.6   10483   AAG   LTE-TDD (SC-FDMA, 50% RB, 5MHz, 64-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.60   ±8.6   10484   AAG   LTE-TDD (SC-FDMA, 50% RB, 5MHz, 64-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.60   ±8.6   10489   AAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.70   ±8.6   10490   AAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.51   ±8.6   10491   AAF   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.54   ±9.6   10492   AAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.54   ±9.6   10492   AAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.41   ±9.6   10493   AAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.41   ±9.6   10493   AAF   LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.41   ±9.6   10494   AAG   LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.55   ±8.6   10495   AAG   LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.77   ±9.6   10496   AAG   LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.78   ±9.6   10499   AAC   LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.54   ±9.6   10499   AAC   LTE-TDD (SC-FDMA, 50% RB, 30 MHz, 16-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.66   ±9.6   10499   AAC   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.68   ±9.6   10499   AAC   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe-2,3.4,7.8,9)   LTE-TDD   8.69	10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10484	10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	±9.6
10486   AAG	10483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	±9.6
10486	10484	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8,47	±9.6
10487   AAG	10485	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	±9.6
10488   AAG	10486	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	±9.6
10490   AAG	10487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	±9.6
10490   AAG	10488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	±9.6
10491   AAF   LTE-TDD (SC-FDMA, 50% RB, 15MHz, GPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.74   ±9.6     10492   AAF   LTE-TDD (SC-FDMA, 50% RB, 15MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.41   ±9.6     10494   AAG   LTE-TDD (SC-FDMA, 50% RB, 15MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.74   ±9.6     10495   AAG   LTE-TDD (SC-FDMA, 50% RB, 20MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.74   ±9.6     10495   AAG   LTE-TDD (SC-FDMA, 50% RB, 20MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.37   ±9.6     10496   AAG   LTE-TDD (SC-FDMA, 50% RB, 20MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.54   ±9.6     10497   AAC   LTE-TDD (SC-FDMA, 100% RB, 14MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.67   ±9.6     10498   AAC   LTE-TDD (SC-FDMA, 100% RB, 14MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.67   ±9.6     10499   AAC   LTE-TDD (SC-FDMA, 100% RB, 14MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.69   ±9.6     10500   AAD   LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.69   ±9.6     10501   AAD   LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.67   ±9.6     10502   AAD   LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.44   ±9.6     10503   AAG   LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.52   ±9.6     10504   AAG   LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.52   ±9.6     10505   AAG   LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.54   ±9.6     10506   AAG   LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.54   ±9.6     10507   AAG   LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.54   ±9.6     10508   AAG   LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.54   ±9.6     10509   AAF   LTE-TDD (SC-FDMA, 100% RB, 10MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.54   ±	10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10492	10490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10493	10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10494   AAG	10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	±9.6
10495   AAG	10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10496   AAG	10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10497   AAC   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, GPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.67   ±9.6	10495	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9,6
10498	10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10499	10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10500   AAD   LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.44   ±9.6   10502   AAD   LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.52   ±9.6   10503   AAG   LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.52   ±9.6   10503   AAG   LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.52   ±9.6   10504   AAG   LTE-TDD (SC-FDMA, 100% RB, 5MHz, GPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.53   ±9.6   10505   AAG   LTE-TDD (SC-FDMA, 100% RB, 5MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.54   ±9.6   10506   AAG   LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.54   ±9.6   10507   AAG   LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.54   ±9.6   10508   AAG   LTE-TDD (SC-FDMA, 100% RB, 10MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.36   ±9.6   10508   AAG   LTE-TDD (SC-FDMA, 100% RB, 10MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.55   ±9.6   10509   AAF   LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.55   ±9.6   10510   AAF   LTE-TDD (SC-FDMA, 100% RB, 15MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.55   ±9.6   10511   AAF   LTE-TDD (SC-FDMA, 100% RB, 15MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.51   ±9.6   10511   AAF   LTE-TDD (SC-FDMA, 100% RB, 20MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.51   ±9.6   10512   AAG   LTE-TDD (SC-FDMA, 100% RB, 20MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.51   ±9.6   10513   AAG   LTE-TDD (SC-FDMA, 100% RB, 20MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.51   ±9.6   10513   AAG   LTE-TDD (SC-FDMA, 100% RB, 20MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.51   ±9.6   10513   AAG   LTE-TDD (SC-FDMA, 100% RB, 20MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.51   ±9.6   10513   AAG   LTE-TDD (SC-FDMA, 100% RB, 20MHz, G4-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   R.51   ±9.6   10513   AAG   LTE-TDD (SC-FDM	10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6
10501   AAD	10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
10502   AAD	10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10503   AAG   LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   7.72   ±9.6	10501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6
10504   AAG   LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.31   ±9.6	10502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8,52	±9.6
10505   AAG	10503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6
10506   AAG	10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10507   AAG	10505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10508   AAG	10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10509 AAF   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   LTE-TDD   T.99   ±9.6	10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6
10510 AAF   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   8.49	10508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10511   AAF   LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   LTE-TDD   S.51   ±9.6	10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	±9.6
10512         AAG         LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         LTE-TDD         7.74         ±9.6           10513         AAG         LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.42         ±9.6           10514         AAG         LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)         LTE-TDD         8.45         ±9.6           10515         AAA         IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)         WLAN         1.58         ±9.6           10516         AAA         IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         WLAN         1.57         ±9.6           10517         AAA         IEEE 802.11a/b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)         WLAN         1.58         ±9.6           10518         AAC         IEEE 802.11a/b WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)         WLAN         8.23         ±9.6           10519         AAC         IEEE 802.11a/b WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)         WLAN         8.39         ±9.6           10520         AAC         IEEE 802.11a/b WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)         WLAN         8.12         ±9.6           10521         AAC         IEEE 802.11a/b WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)         WLAN         8	10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	±9.6
10513       AAG       LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.42       ±9.6         10514       AAG       LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.45       ±9.6         10515       AAA       IEEE 802.11b WiFi 2.4 GHz (DSSS, 2Mbps, 99pc duty cycle)       WLAN       1.58       ±9.6         10516       AAA       IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)       WLAN       1.57       ±9.6         10517       AAA       IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)       WLAN       1.58       ±9.6         10518       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)       WLAN       8.23       ±9.6         10519       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)       WLAN       8.39       ±9.6         10520       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)       WLAN       8.12       ±9.6         10521       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)       WLAN       8.45       ±9.6         10523       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)       WLAN       8.27       ±9.6         10525       AAC       IEEE 802.11ac WiFi (20	10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)			±9.6
10514       AAG       LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)       LTE-TDD       8.45       ±9.6         10515       AAA       IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)       WLAN       1.58       ±9.6         10516       AAA       IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)       WLAN       1.57       ±9.6         10517       AAA       IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)       WLAN       1.58       ±9.6         10518       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)       WLAN       8.23       ±9.6         10519       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)       WLAN       8.39       ±9.6         10520       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)       WLAN       8.12       ±9.6         10521       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)       WLAN       8.45       ±9.6         10523       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)       WLAN       8.45       ±9.6         10524       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)       WLAN       8.27       ±9.6         10525       AAC       IEEE 802.11ac WiFi (20 MHz, MCS0,	10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10515       AAA       IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)       WLAN       1.58       ±9.6         10516       AAA       IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)       WLAN       1.57       ±9.6         10517       AAA       IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)       WLAN       1.58       ±9.6         10518       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)       WLAN       8.23       ±9.6         10519       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)       WLAN       8.39       ±9.6         10520       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)       WLAN       8.12       ±9.6         10521       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)       WLAN       7.97       ±9.6         10522       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)       WLAN       8.45       ±9.6         10523       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)       WLAN       8.08       ±9.6         10524       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)       WLAN       8.27       ±9.6         10525       AAC       IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cy	10513	AAG			8.42	±9.6
10516       AAA       IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)       WLAN       1.57       ±9.6         10517       AAA       IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)       WLAN       1.58       ±9.6         10518       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)       WLAN       8.23       ±9.6         10519       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)       WLAN       8.39       ±9.6         10520       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)       WLAN       8.12       ±9.6         10521       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)       WLAN       7.97       ±9.6         10522       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)       WLAN       8.45       ±9.6         10523       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)       WLAN       8.08       ±9.6         10524       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)       WLAN       8.27       ±9.6         10525       AAC       IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)       WLAN       8.36       ±9.6         10526       AAC       IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) <td></td> <td></td> <td></td> <td></td> <td></td> <td>±9.6</td>						±9.6
10517       AAA       IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)       WLAN       1.58       ±9.6         10518       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)       WLAN       8.23       ±9.6         10519       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)       WLAN       8.39       ±9.6         10520       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)       WLAN       8.12       ±9.6         10521       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)       WLAN       7.97       ±9.6         10522       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)       WLAN       8.45       ±9.6         10523       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)       WLAN       8.08       ±9.6         10524       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)       WLAN       8.27       ±9.6         10525       AAC       IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)       WLAN       8.36       ±9.6         10526       AAC       IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)       WLAN       8.42       ±9.6         10527       AAC       IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)					<del></del>	±9.6
10518       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)       WLAN       8.23       ±9.6         10519       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)       WLAN       8.39       ±9.6         10520       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)       WLAN       7.97       ±9.6         10521       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)       WLAN       7.97       ±9.6         10522       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)       WLAN       8.45       ±9.6         10523       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)       WLAN       8.08       ±9.6         10524       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)       WLAN       8.27       ±9.6         10525       AAC       IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)       WLAN       8.36       ±9.6         10526       AAC       IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)       WLAN       8.42       ±9.6         10527       AAC       IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)       WLAN       8.21       ±9.6         10528       AAC       IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)       WLAN		AAA	1 , , , , , , , , , , , , , , , , , , ,		1.57	±9.6
10519       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)       WLAN       8.39       ±9.6         10520       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)       WLAN       8.12       ±9.6         10521       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)       WLAN       7.97       ±9.6         10522       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)       WLAN       8.45       ±9.6         10523       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)       WLAN       8.08       ±9.6         10524       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)       WLAN       8.27       ±9.6         10525       AAC       IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)       WLAN       8.36       ±9.6         10526       AAC       IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)       WLAN       8.42       ±9.6         10527       AAC       IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)       WLAN       8.21       ±9.6         10528       AAC       IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)       WLAN       8.36       ±9.6		<b>_</b>	1			±9.6
10520       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)       WLAN       8.12       ±9.6         10521       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)       WLAN       7.97       ±9.6         10522       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)       WLAN       8.45       ±9.6         10523       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)       WLAN       8.08       ±9.6         10524       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)       WLAN       8.27       ±9.6         10525       AAC       IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)       WLAN       8.36       ±9.6         10526       AAC       IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)       WLAN       8.42       ±9.6         10527       AAC       IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)       WLAN       8.21       ±9.6         10528       AAC       IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)       WLAN       8.36       ±9.6	L		1			±9.6
10521       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)       WLAN       7.97       ±9.6         10522       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)       WLAN       8.45       ±9.6         10523       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)       WLAN       8.08       ±9.6         10524       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)       WLAN       8.27       ±9.6         10525       AAC       IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)       WLAN       8.36       ±9.6         10526       AAC       IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)       WLAN       8.42       ±9.6         10527       AAC       IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)       WLAN       8.21       ±9.6         10528       AAC       IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)       WLAN       8.36       ±9.6	E					±9.6
10522       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)       WLAN       8.45       ±9.6         10523       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)       WLAN       8.08       ±9.6         10524       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)       WLAN       8.27       ±9.6         10525       AAC       IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)       WLAN       8.36       ±9.6         10526       AAC       IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)       WLAN       8.42       ±9.6         10527       AAC       IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)       WLAN       8.21       ±9.6         10528       AAC       IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)       WLAN       8.36       ±9.6		<b>.</b>	1 1 1 1 1 1			±9.6
10523       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)       WLAN       8.08       ±9.6         10524       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)       WLAN       8.27       ±9.6         10525       AAC       IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)       WLAN       8.36       ±9.6         10526       AAC       IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)       WLAN       8.42       ±9.6         10527       AAC       IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)       WLAN       8.21       ±9.6         10528       AAC       IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)       WLAN       8.36       ±9.6			1			±9.6
10524       AAC       IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)       WLAN       8.27       ±9.6         10525       AAC       IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)       WLAN       8.36       ±9.6         10526       AAC       IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)       WLAN       8.42       ±9.6         10527       AAC       IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)       WLAN       8.21       ±9.6         10528       AAC       IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)       WLAN       8.36       ±9.6						±9.6
10525       AAC       IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)       WLAN       8.36       ±9.6         10526       AAC       IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)       WLAN       8.42       ±9.6         10527       AAC       IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)       WLAN       8.21       ±9.6         10528       AAC       IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)       WLAN       8.36       ±9.6						±9.6
10526       AAC       IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)       WLAN       8.42       ±9.6         10527       AAC       IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)       WLAN       8.21       ±9.6         10528       AAC       IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)       WLAN       8.36       ±9.6						±9,6
10527         AAC         IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)         WLAN         8.21         ±9.6           10528         AAC         IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)         WLAN         8.36         ±9.6						±9.6
10528 AAC IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) WLAN 8.36 ±9.6	L	4	1			±9.6
			l			±9.6
10529   AAC   IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)   WLAN   8.36   ±9.6		1	· · · · · · · · · · · · · · · · · · ·			±9.6
Land James and Allen Control of the						±9.6
	J					±9.6
	L		1			±9.6
						±9.6
	<u></u>					±9.6
						±9.6
						±9.6
		4				±9.6
						±9.6
10540 AAC IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc duty cycle) WLAN 8.39 ±9.6	10540	AAC	TEEE 802.1 (ac WiF) (40 MHz, MUS6, 99pc duty cycle)	WLAN	8.39	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10541	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6
10542	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	±9.6
10543	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
10544	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
10545	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10546	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
10547	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6
10548	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
10550	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
10551	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6
10552	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.6
10553	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
10554	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
10555	AAD	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
10556	AAD	IEEE 802,11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
10557	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.6
10558	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.61	±9.6
10560	AAD	IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9,6
10561	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9.6
10562	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
10563	AAD	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10573	AAA	IEEE 802.11b WIFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1,98	±9.6
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9,6
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10583	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8,59	±9.6
10584	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10585	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10586	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10587	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10588	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10589	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10590	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10591	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
10592	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10593	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6
10594	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10595	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
10596	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
10597	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6
10598	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
10599	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
10600	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10601	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6
10602	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6
10603	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
10603	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	8.76	±9,6
10605	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9,6
10605	AAC	IEEE 802.11th (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10607	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6
10607	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.77	±9.6
	1 220	I TELE ODE STATE (ED 1988 & 19100), SUPE UNITY CYCLES	AALWA	0.77	T3.0

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10609	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
10610	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
10611	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAC	IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10613	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6
10614	AAC	IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6
10615	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10616	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10618	AAC	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619 10620	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.86 8.87	±9.6 ±9.6
10620	AAC	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
10623	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10624	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6
10625	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6
10626	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10627	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10628	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9.6
10629	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10630	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
10631	AAC	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6
10632	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10633	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6
10634	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6
10635	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6
10636	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10637	AAD	IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10638 10639	AAD	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6
10639	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.85 8.98	±9.6
10640	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.06	±9.6 ±9.6
10642	AAD	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAD	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9,6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6
10660	AAB AAB	Pulse Waveform (200Hz, 40%) Pulse Waveform (200Hz, 60%)	Test	3.98	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test Test	2.22 0.97	±9.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2,19	±9.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8,78	±9.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
10676	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10678	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9,6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
10685 10686	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle) IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN WLAN	8.33	±9.6
10000	LAAO	The over tax (20 Int 12, INOCO, Sopo daty Gyote)	AACMIA	8.28	±9.6

10688 AAC   IEEE 802 11x (20MHz, MCSS, 90pc duly cycle)	UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> <i>k</i> = 2
	1				<u> </u>	±9.6
1988   AAC   EEE BIZ 11ax (20 MFz, MCSP, 99pc duty cycle)   WLAN   8.26   1.9	10688	AAC	IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
10989 AAC   EEE 80211ax (20MHz, MCSS, 99pc duty cycle)   WLAN   8.29   49   10983   AAC   EEE 80211ax (20MHz, MCSS, 99pc duty cycle)   WLAN   8.25   49   10985   AAC   EEE 80211ax (20MHz, MCS1, 99pc duty cycle)   WLAN   8.25   49   10985   AAC   EEE 80211ax (20MHz, MCS1, 99pc duty cycle)   WLAN   8.57   49   10985   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.57   49   10985   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.51   49   10986   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.51   49   10986   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.51   49   10986   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.61   49   10986   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.68   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.68   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.73   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.73   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.73   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.70   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.70   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.70   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.50   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.50   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.50   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.50   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.60   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.60   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.60   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.60   49   10700   AAC   EEE 80211ax (40MHz, MCSS, 90pc duty cycle)   WLAN   8.60   49   10700   AAC   EEE	10689	AAC	IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6
10083   AAC     EEE 802.11 tax (20 MHz, MCSS), 99pc duty cycle)   WLAN   8,25   19, 10083   AAC     EEE 802.11 tax (20 MHz, MCSS), 90pc duty cycle)   WLAN   8,27   19, 10085   AAC     EEE 802.11 tax (20 MHz, MCSS), 90pc duty cycle)   WLAN   8,78   19, 10085   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,78   19, 10085   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,78   19, 10085   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,81   19, 10089   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,81   19, 10089   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,82   19, 10089   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,82   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,82   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,80   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,80   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,80   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,80   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,80   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,82   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,82   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,80   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,90   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,90   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,90   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,90   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,90   19, 10700   AAC     EEE 802.11 tax (40 MHz, MCSS), 90pc duty cycle)   WLAN   8,90   19, 10700   AAC     EEE 802.11 t	10690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
19086   AAC   EEE 802.11ax (20 MHz, MCS10, 98pc duty cycle)   WLAN   8.57   2.9   19089   AAC   EEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)   WLAN   8.78   3.9   3.9   3.0	10691	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
10898   AAC   IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)   WLAN   8.57   8.9   10898   AAC   IEEE 802.11ax (40MHz, MCS2, 80pc duty cycle)   WLAN   8.91   1.9   10898   AAC   IEEE 802.11ax (40MHz, MCS2, 80pc duty cycle)   WLAN   8.81   1.9   10898   AAC   IEEE 802.11ax (40MHz, MCS2, 80pc duty cycle)   WLAN   8.81   1.9   10898   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.82   1.9   10898   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.82   1.9   10709   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.82   1.9   10709   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.86   1.9   10701   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.86   1.9   10702   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.86   1.9   10703   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.86   1.9   10704   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.86   1.9   10705   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.86   1.9   10706   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.86   1.9   10706   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.89   1.9   10706   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.89   1.9   10706   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.60   1.9   10706   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.60   1.9   10706   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.60   1.9   10706   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.33   1.9   10710   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.33   1.9   10710   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.33   1.9   10710   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.35   1.9   10710   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.36   1.9   10710   AAC   IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)   WLAN   8.36   1.9   10710   AAC   IEEE	10692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
10986   AAC   IEEE 802.11ax (40MHz, MCSD, 90pc duty cycle)	10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
10896   AAC   IEEE 802.11ax (40 MHz, MCS1, 90c duty cycle)	10694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)		8.57	±9.6
10698   AAC   IEEE 802.11ax (40MHz, MCS2, 90pc duly cycle)   WLAN   8.81   49   49   49   49   49   49   49   4	10695	AAC	· · · · · · · · · · · · · · · · · · ·			±9.6
10989	10696	AAC				±9.6
1098   AAC   IEEE 802.11ax (40 MHz, MCSS, 90pc duly cycle)   WLAN   8.73   1.9	10697	AAC				±9.6
10700						±9.6
10701   AAC	ll	1	· · · · · · · · · · · · · · · · · · ·			±9.6
10702   AAC		ļ				±9.6
10703   AAC	<b></b>				1	±9.6
10704   AAC						±9.6
10705   AAC	L					<b></b>
10776   AAC	L		, , , , , , , , , , , , , , , , , , , ,			
10707   AAC   IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)   WLAN   8.32   ±9   10708   AAC   IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)   WLAN   8.33   ±9   10710   AAC   IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)   WLAN   8.29   ±9   10711   AAC   IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)   WLAN   8.29   ±9   10711   AAC   IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)   WLAN   8.39   ±9   10712   AAC   IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)   WLAN   8.39   ±9   10713   AAC   IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)   WLAN   8.67   ±9   10713   AAC   IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)   WLAN   8.26   ±9   10714   AAC   IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)   WLAN   8.26   ±9   10715   AAC   IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)   WLAN   8.26   ±9   10716   AAC   IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)   WLAN   8.30   ±9   10717   AAC   IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)   WLAN   8.30   ±9   10718   AAC   IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)   WLAN   8.30   ±9   10719   AAC   IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)   WLAN   8.46   ±9   10720   AAC   IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)   WLAN   8.24   ±9   10721   AAC   IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)   WLAN   8.24   ±9   10721   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.81   ±9   10722   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.87   ±9   10722   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.87   ±9   10722   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.76   ±9   10722   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.70   ±9   10722   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.70   ±9   10723   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.74   ±9   10728   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.66   ±9   10729   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.67   ±9   10729   AAC   IEEE						
10708						±9.6
10709   AAC   IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)   WLAN   8.33   ±9   10710   AAC   IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)   WLAN   8.29   ±9   10712   AAC   IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)   WLAN   8.67   ±9   10713   AAC   IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)   WLAN   8.67   ±9   10714   AAC   IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)   WLAN   8.26   ±9   10715   AAC   IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)   WLAN   8.26   ±9   10715   AAC   IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)   WLAN   8.26   ±9   10716   AAC   IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)   WLAN   8.46   ±9   10716   AAC   IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)   WLAN   8.48   ±9   10718   AAC   IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)   WLAN   8.48   ±9   10718   AAC   IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)   WLAN   8.48   ±9   10719   AAC   IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)   WLAN   8.48   ±9   10719   AAC   IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)   WLAN   8.81   ±9   10720   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.81   ±9   10722   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.87   ±9   10722   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.76   ±9   10722   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.76   ±9   10723   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.76   ±9   10723   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.70   ±9   10724   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.70   ±9   10725   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.74   ±9   10726   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.74   ±9   10726   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.66   ±9   10728   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.66   ±9   10728   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.66   ±9   10733   AAC   IEEE	L				· · · · · · · · · · · · · · · · · · ·	±9.6
10710   AAC			, , , , , , , , , , , , , , , , , , , ,			±9.6
10711   AAC			, , , , , , , , , , , , , , , , , , , ,	<u></u>		±9.6
10712						±9.6
10712						±9.6
10714   AAC   IEEE 802.11ax (40 MHz, MCS7, 99pc duly cycle)   WLAN   8.26   ±9			<u> </u>			±9.6
10715   AAC   IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)   WLAN   8.45   ±9		<b></b>				±9.6
10716   AAC   IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)   WLAN   8.30   ±9	L				+	±9.6
10717   AAC   IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)   WLAN   8.48   ±9   10718   AAC   IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)   WLAN   8.24   ±9   10719   AAC   IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)   WLAN   8.81   ±9   10720   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.87   ±9   10721   AAC   IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)   WLAN   8.76   ±9   10722   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.76   ±9   10723   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.70   ±9   10723   AAC   IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)   WLAN   8.70   ±9   10725   AAC   IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)   WLAN   8.70   ±9   10725   AAC   IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)   WLAN   8.74   ±9   10726   AAC   IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)   WLAN   8.74   ±9   10727   AAC   IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)   WLAN   8.66   ±9   10728   AAC   IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)   WLAN   8.66   ±9   10728   AAC   IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)   WLAN   8.66   ±9   10729   AAC   IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)   WLAN   8.66   ±9   10730   AAC   IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)   WLAN   8.64   ±9   10730   AAC   IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)   WLAN   8.64   ±9   10731   AAC   IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)   WLAN   8.64   ±9   10732   AAC   IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)   WLAN   8.46   ±9   10733   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.46   ±9   10733   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.46   ±9   10734   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.46   ±9   10734   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.46   ±9   10734   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.36   ±9   10736   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.36   ±9   10739   AAC	1	ļ		WLAN		±9.6
10719   AAC   IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)   WLAN   8.81   ±9     10720   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.76   ±9     10721   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.76   ±9     10722   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.55   ±9     10723   AAC   IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)   WLAN   8.70   ±9     10724   AAC   IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)   WLAN   8.90   ±9     10725   AAC   IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)   WLAN   8.74   ±9     10726   AAC   IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)   WLAN   8.72   ±9     10727   AAC   IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)   WLAN   8.72   ±9     10728   AAC   IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)   WLAN   8.66   ±9     10729   AAC   IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)   WLAN   8.65   ±9     10729   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.66   ±9     10730   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.67   ±9     10731   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.67   ±9     10732   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.67   ±9     10733   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.40   ±9     10734   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.40   ±9     10735   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.40   ±9     10736   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.27   ±9     10737   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.29   ±9     10738   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.29   ±9     10739   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.29   ±9     10739   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.40   ±9     10740   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.40   ±9     10741   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty	10717	<u> </u>		WLAN	8.48	±9.6
10720   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.87   ±9   10721   AAC   IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)   WLAN   8.76   ±9   10722   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.55   ±9   10723   AAC   IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)   WLAN   8.70   ±9   10724   AAC   IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)   WLAN   8.70   ±9   10725   AAC   IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)   WLAN   8.74   ±9   10726   AAC   IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)   WLAN   8.72   ±9   10727   AAC   IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)   WLAN   8.66   ±9   10728   AAC   IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)   WLAN   8.65   ±9   10729   AAC   IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)   WLAN   8.65   ±9   10730   AAC   IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)   WLAN   8.64   ±9   10730   AAC   IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)   WLAN   8.67   ±9   10731   AAC   IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)   WLAN   8.67   ±9   10732   AAC   IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)   WLAN   8.46   ±9   10733   AAC   IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)   WLAN   8.46   ±9   10733   AAC   IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)   WLAN   8.46   ±9   10734   AAC   IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)   WLAN   8.46   ±9   10735   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.25   ±9   10735   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.27   ±9   10736   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.29   ±9   10738   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.29   ±9   10739   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.29   ±9   10739   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.29   ±9   10739   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.48   ±9   10740   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.49   ±9   10740   AAC   I	10718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9,6
10721   AAC   IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)   WLAN   8.76   ±9   10722   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.55   ±9   10723   AAC   IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)   WLAN   8.70   ±9   10724   AAC   IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)   WLAN   8.90   ±9   10725   AAC   IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)   WLAN   8.74   ±9   10726   AAC   IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)   WLAN   8.72   ±9   10727   AAC   IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)   WLAN   8.66   ±9   10728   AAC   IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)   WLAN   8.65   ±9   10729   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.66   ±9   10730   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.67   ±9   10731   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.67   ±9   10731   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.67   ±9   10732   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.46   ±9   10733   AAC   IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)   WLAN   8.46   ±9   10733   AAC   IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)   WLAN   8.46   ±9   10734   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.46   ±9   10735   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.27   ±9   10736   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.27   ±9   10737   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.27   ±9   10738   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.42   ±9   10739   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.42   ±9   10739   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.42   ±9   10739   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.43   ±9   10740   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.44   ±9   10742   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.44   ±9   10742   AAC   IEEE	10719	AAC		WLAN	8.81	±9.6
10722   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.55   ±9     10723   AAC   IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)   WLAN   8.70   ±9     10724   AAC   IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)   WLAN   8.90   ±9     10725   AAC   IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)   WLAN   8.74   ±9     10726   AAC   IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)   WLAN   8.72   ±9     10727   AAC   IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)   WLAN   8.66   ±9     10728   AAC   IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)   WLAN   8.65   ±9     10729   AAC   IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)   WLAN   8.67   ±9     10730   AAC   IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)   WLAN   8.67   ±9     10731   AAC   IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)   WLAN   8.46   ±9     10732   AAC   IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)   WLAN   8.46   ±9     10733   AAC   IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)   WLAN   8.46   ±9     10734   AAC   IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)   WLAN   8.46   ±9     10735   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.45   ±9     10736   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.27   ±9     10737   AAC   IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)   WLAN   8.27   ±9     10738   AAC   IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)   WLAN   8.36   ±9     10739   AAC   IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)   WLAN   8.46   ±9     10740   AAC   IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)   WLAN   8.48   ±9     10741   AAC   IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)   WLAN   8.48   ±9     10742   AAC   IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)   WLAN   8.48   ±9     10741   AAC   IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)   WLAN   8.48   ±9     10742   AAC   IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)   WLAN   8.49   ±9     10743   AAC   IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)   WLAN   8.49   ±9	10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10723   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.70   ±9     10724   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.90   ±9     10725   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.74   ±9     10726   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.72   ±9     10727   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.66   ±9     10728   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.65   ±9     10729   AAC   IEEE 802.11ax (80 MHz, MCSf), 90pc duty cycle)   WLAN   8.64   ±9     10730   AAC   IEEE 802.11ax (80 MHz, MCSf), 90pc duty cycle)   WLAN   8.67   ±9     10731   AAC   IEEE 802.11ax (80 MHz, MCSf), 90pc duty cycle)   WLAN   8.42   ±9     10732   AAC   IEEE 802.11ax (80 MHz, MCSf), 90pc duty cycle)   WLAN   8.46   ±9     10733   AAC   IEEE 802.11ax (80 MHz, MCSf), 90pc duty cycle)   WLAN   8.46   ±9     10734   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.40   ±9     10735   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.25   ±9     10736   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.26   ±9     10737   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.33   ±9     10738   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.26   ±9     10739   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.29   ±9     10740   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.40   ±9     10741   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.48   ±9     10742   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.48   ±9     10743   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.49   ±9     10744   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.49   ±9     10745   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.49   ±9     10740   AAC   IEEE 802.11ax (80 MHz, MCSf, 90pc duty cycle)   WLAN   8.49   ±9						±9.6
10724   AAC   IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)   WLAN   8.90   ±9     10725   AAC   IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)   WLAN   8.74   ±9     10726   AAC   IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)   WLAN   8.72   ±9     10727   AAC   IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)   WLAN   8.66   ±9     10728   AAC   IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)   WLAN   8.65   ±9     10729   AAC   IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)   WLAN   8.64   ±9     10730   AAC   IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)   WLAN   8.67   ±9     10731   AAC   IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)   WLAN   8.42   ±9     10732   AAC   IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)   WLAN   8.46   ±9     10733   AAC   IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)   WLAN   8.40   ±9     10734   AAC   IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)   WLAN   8.40   ±9     10735   AAC   IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)   WLAN   8.25   ±9     10736   AAC   IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)   WLAN   8.33   ±9     10737   AAC   IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)   WLAN   8.36   ±9     10738   AAC   IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)   WLAN   8.36   ±9     10739   AAC   IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)   WLAN   8.42   ±9     10740   AAC   IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)   WLAN   8.49   ±9     10741   AAC   IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)   WLAN   8.48   ±9     10742   AAC   IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)   WLAN   8.48   ±9     10743   AAC   IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)   WLAN   8.40   ±9     10742   AAC   IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)   WLAN   8.43   ±9     10743   AAC   IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)   WLAN   8.43   ±9     10743   AAC   IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)   WLAN   8.44   ±9     10743   AAC   IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)   WLAN   8.49     10744   AAC   IEEE 802.11ax (80 MHz, MCS9, 99pc duty cyc		ļ	, , , , , , , , , , , , , , , , , , , ,	<u> </u>		±9.6
10725   AAC   IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)   WLAN   8.74   ±9		<u> </u>				±9.6
10726   AAC   IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)   WLAN   8.66   ±9					_1	±9.6
10727         AAC         IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)         WLAN         8.66         ±9           10728         AAC         IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)         WLAN         8.65         ±9           10729         AAC         IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)         WLAN         8.64         ±9           10730         AAC         IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)         WLAN         8.67         ±9           10731         AAC         IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)         WLAN         8.42         ±9           10732         AAC         IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)         WLAN         8.46         ±9           10733         AAC         IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)         WLAN         8.46         ±9           10734         AAC         IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)         WLAN         8.25         ±9           10735         AAC         IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)         WLAN         8.33         ±9           10736         AAC         IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)         WLAN         8.27         ±9           10737         AAC         IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)         WLAN	ŧ£	<b></b>	, , , , , , , , , , , , , , , , , , , ,			±9,6
10728         AAC         IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)         WLAN         8.65         ±9           10729         AAC         IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)         WLAN         8.64         ±9           10730         AAC         IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)         WLAN         8.67         ±9           10731         AAC         IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)         WLAN         8.42         ±9           10732         AAC         IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)         WLAN         8.46         ±9           10733         AAC         IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)         WLAN         8.40         ±9           10734         AAC         IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)         WLAN         8.25         ±9           10735         AAC         IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)         WLAN         8.27         ±9           10736         AAC         IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)         WLAN         8.36         ±9           10737         AAC         IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)         WLAN         8.42         ±9           10738         AAC         IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)         WLAN	L	<u> </u>				±9.6
10729       AAC       IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)       WLAN       8.64       ±9         10730       AAC       IEEE 802.11ax (80 MHz, MCS011, 90pc duty cycle)       WLAN       8.67       ±9         10731       AAC       IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)       WLAN       8.42       ±9         10732       AAC       IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)       WLAN       8.46       ±9         10733       AAC       IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)       WLAN       8.25       ±9         10734       AAC       IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)       WLAN       8.33       ±9         10735       AAC       IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)       WLAN       8.27       ±9         10736       AAC       IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)       WLAN       8.36       ±9         10737       AAC       IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)       WLAN       8.42       ±9         10738       AAC       IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)       WLAN       8.42       ±9         10740       AAC       IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)       WLAN       8.48       ±9         10741       AAC       IEEE 802.11ax		<u> </u>				±9.6
10730       AAC       IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)       WLAN       8.67       ±9         10731       AAC       IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)       WLAN       8.42       ±9         10732       AAC       IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)       WLAN       8.46       ±9         10733       AAC       IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)       WLAN       8.40       ±9         10734       AAC       IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)       WLAN       8.25       ±9         10735       AAC       IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)       WLAN       8.33       ±9         10736       AAC       IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)       WLAN       8.27       ±9         10737       AAC       IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)       WLAN       8.36       ±9         10738       AAC       IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)       WLAN       8.42       ±9         10740       AAC       IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)       WLAN       8.29       ±9         10741       AAC       IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)       WLAN       8.48       ±9         10742       AAC       IEEE 802.11ax (				1		±9.6
10731       AAC       IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)       WLAN       8.42       ±9         10732       AAC       IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)       WLAN       8.46       ±9         10733       AAC       IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)       WLAN       8.40       ±9         10734       AAC       IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)       WLAN       8.25       ±9         10735       AAC       IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)       WLAN       8.33       ±9         10736       AAC       IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)       WLAN       8.27       ±9         10737       AAC       IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)       WLAN       8.36       ±9         10738       AAC       IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)       WLAN       8.42       ±9         10739       AAC       IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)       WLAN       8.29       ±9         10740       AAC       IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)       WLAN       8.48       ±9         10741       AAC       IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)       WLAN       8.40       ±9         10743       AAC       IEEE 802.11ax (						±9.6
10732       AAC       IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)       WLAN       8.46       ±9         10733       AAC       IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)       WLAN       8.40       ±9         10734       AAC       IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)       WLAN       8.25       ±9         10735       AAC       IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)       WLAN       8.33       ±9         10736       AAC       IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)       WLAN       8.27       ±9         10737       AAC       IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)       WLAN       8.36       ±9         10738       AAC       IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)       WLAN       8.42       ±9         10739       AAC       IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)       WLAN       8.29       ±9         10740       AAC       IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)       WLAN       8.48       ±9         10741       AAC       IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)       WLAN       8.40       ±9         10742       AAC       IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)       WLAN       8.43       ±9         10743       AAC       IEEE 802.11ax (	i					±9.6
10733       AAC       IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)       WLAN       8.40       ±9         10734       AAC       IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)       WLAN       8.25       ±9         10735       AAC       IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)       WLAN       8.33       ±9         10736       AAC       IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)       WLAN       8.27       ±9         10737       AAC       IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)       WLAN       8.36       ±9         10738       AAC       IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)       WLAN       8.42       ±9         10739       AAC       IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)       WLAN       8.29       ±9         10740       AAC       IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)       WLAN       8.48       ±9         10741       AAC       IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)       WLAN       8.40       ±9         10742       AAC       IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)       WLAN       8.43       ±9         10743       AAC       IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)       WLAN       8.43       ±9						±9.6
10734       AAC       IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)       WLAN       8.25       ±9         10735       AAC       IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)       WLAN       8.33       ±9         10736       AAC       IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)       WLAN       8.27       ±9         10737       AAC       IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)       WLAN       8.36       ±9         10738       AAC       IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)       WLAN       8.42       ±9         10739       AAC       IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)       WLAN       8.29       ±9         10740       AAC       IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)       WLAN       8.48       ±9         10741       AAC       IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)       WLAN       8.40       ±9         10742       AAC       IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)       WLAN       8.43       ±9         10743       AAC       IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)       WLAN       8.94       ±9			<u> </u>			±9.6
10735       AAC       IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)       WLAN       8.33       ±9         10736       AAC       IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)       WLAN       8.27       ±9         10737       AAC       IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)       WLAN       8.36       ±9         10738       AAC       IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)       WLAN       8.42       ±9         10739       AAC       IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)       WLAN       8.29       ±9         10740       AAC       IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)       WLAN       8.48       ±9         10741       AAC       IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)       WLAN       8.40       ±9         10742       AAC       IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)       WLAN       8.43       ±9         10743       AAC       IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)       WLAN       8.94       ±9			I, , , , , , , , , , , , , , , , ,			±9.6
10736       AAC       IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)       WLAN       8.27       ±9         10737       AAC       IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)       WLAN       8.36       ±9         10738       AAC       IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)       WLAN       8.42       ±9         10739       AAC       IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)       WLAN       8.29       ±9         10740       AAC       IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)       WLAN       8.48       ±9         10741       AAC       IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)       WLAN       8.40       ±9         10742       AAC       IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)       WLAN       8.43       ±9         10743       AAC       IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)       WLAN       8.94       ±9			I	.1	<del></del>	±9.6
10737         AAC         IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)         WLAN         8.36         ±9           10738         AAC         IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)         WLAN         8.42         ±9           10739         AAC         IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)         WLAN         8.29         ±9           10740         AAC         IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)         WLAN         8.48         ±9           10741         AAC         IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)         WLAN         8.40         ±9           10742         AAC         IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)         WLAN         8.43         ±9           10743         AAC         IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)         WLAN         8.94         ±9		I			1	±9.6
10738       AAC       IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)       WLAN       8.42       ±9         10739       AAC       IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)       WLAN       8.29       ±9         10740       AAC       IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)       WLAN       8.48       ±9         10741       AAC       IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)       WLAN       8.40       ±9         10742       AAC       IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)       WLAN       8.43       ±9         10743       AAC       IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)       WLAN       8.94       ±9	L					±9.6
10739       AAC       IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)       WLAN       8.29       ±9         10740       AAC       IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)       WLAN       8.48       ±9         10741       AAC       IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)       WLAN       8.40       ±9         10742       AAC       IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)       WLAN       8.43       ±9         10743       AAC       IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)       WLAN       8.94       ±9	J			1		±9.6
10740         AAC         IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)         WLAN         8.48         ±9           10741         AAC         IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)         WLAN         8.40         ±9           10742         AAC         IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)         WLAN         8.43         ±9           10743         AAC         IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)         WLAN         8.94         ±9	L	<del> </del>				±9.6
10741         AAC         IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)         WLAN         8.40         ±9           10742         AAC         IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)         WLAN         8.43         ±9           10743         AAC         IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)         WLAN         8.94         ±9	L I	<del> </del>				±9.6
10743 AAC IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) WLAN 8.94 ±9	10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)			±9.6
	10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
10744   AAC   IEEE 802,11ax (160 MHz, MCS1, 90pc duty cycle)   WLAN   9,16   ±9		AAC		WLAN	8.94	±9.6
	10744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6
		<del></del>			8.93	±9.6
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						±9.6
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			<u> </u>			±9.6
	£			L		±9.6
10752   AAC   IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)   WLAN   8.81   ±9	10/52	AAC	IEEE 802.118X (160 MHz, MUS9, 90pc duty cycle)	WLAN	8.81	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> $k=2$
10753	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.6
10755	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6
10756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
10757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.77	±9.6
10758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	±9.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6
10760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6
10763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10766	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
10767	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10769	AAD	5G NR (CP-0FDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10770	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10771	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.23	±9.6
10773	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03 8.02	±9.6 ±9.6
10774	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10775	AAD	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10776	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10777	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10778	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	±9.6
10780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10781	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10782	AAD	5G NR (CP-OFDM, 50% RB, 50MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
10783	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10784	AAD	5G NR (CP-OFDM, 100% RB, 10MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.29	±9.6
10785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.6
10786	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10788	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10789	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	±9.6
10790	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10791	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
10794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10797	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8,01	±9.6
10798	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10799	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10801	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10802	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
10803	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	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 (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34 8.35	±9.6
10812	AAE	5G NR (CP-OFDM, 30% RB, 50 MHz, QPSK, 30 KHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.35	±9.6 ±9.6
10817	AAD	5G NR (CP-OFDM, 100% RB, 5MRZ, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10819	AAD	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
10820	AAD	5G NR (CP-OFDM, 100% RB, 101MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	±9.6
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10821	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 KHz)	5G NR FR1 TDD	8.41	±9.6
10823	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	±9.6
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 KHz)	5G NR FR1 TDD	8.41	±9.6
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	±9.6
10828	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	±9.6
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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> $k=2$
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9.6
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.6
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	±9.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	±9,6
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10836	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	±9.6
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	±9.6
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	±9.6
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	±9.6
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	±9.6
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9,6
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9.6
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34 8.41	±9.6 ±9.6
10860	AAD		5G NR FR1 TDD	8.41	±9.6
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10863	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
10869	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	±9.6
10871	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10872	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
10873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10874	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6,65	±9.6
10875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
10880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
10881	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10882	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
10883	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
10884	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
10885	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10886	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10887	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD 5G NR FR2 TDD	7.78	±9.6
10888 10889	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QFSK, 120 KHz)	5G NR FR2 TDD	8.35 8.02	±9.6 ±9.6
10889	AAE	5G NR (CP-OFDM, 1 MB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	±9.6
10891	AAE	5G NR (CP-OFDM, 100% NB, 50 MHz, 16QAW, 120 KHz)	5G NR FR2 TDD	8.13	±9.6
10892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10897	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	±9.6
10898	AAB	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10900	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,68	±9,6
10902	AAB	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10903	AAB	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10904	AAB	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10905	AAB	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10906	AAB	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10907	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
10908	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
10910	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6

1997   AAB   SO NR FIFT-COFFMA 90% RIP SOME, CPSK, SOMEQ   SO NR FIFT ITOD   5.84   2.96   1.96	UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> $k=2$
16912   AAB   SON ROPTS-OPEN, BOYER, SON REPORT SON REPORT TOO   5.84   4.96				5G NR FR1 TDD	5.93	±9.6
SERVICE   SERV				5G NR FR1 TDD	5.84	±9.6
16915   AMS   160 HI   DET-COPEN, 50% RES   50MHz   CPSK, 30MHz   Sign NFRH TOD   5.83   ±9.8	10913	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
1991   AAD   AG NH (DIT-OPEN), 50% RB, 80 MHz, OPEN, 30Hz)	10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
16991   AND   160 NR   DITS-OFTEN GOV, RIS, 100 NR   CPSK, 20 Hz   DISS   AND   CSS   NR   DITS-OFTEN GOV, RIS   SAN   CPSK, 20 Hz   DISS   CSS   SAN   CPSK, 20 Hz   DISS   CSS   SAN   CPSK, 20 Hz   DISS   CSS   CS	10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		
160716   AAC   6G NR (DIFF-COPEN, 100% RB 5 MHz, COPSK, 100Hz)	10916	AAB				
1982   AAB   8G NR (DFT-OFFM, 100% AB, 10MHz, GPSK, 20MHz)	10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)		l	<b></b>
MARIN   MARI	10918	AAC				<b>1</b>
MAIN   SC NR (DFT=COEM_100K_100K_RS_20Meb_CPSK_30Meb)	10919	AAB				
1,0522   ABB   5G NN (DFT=-CFDM, 100W, RB, 25MHz, CPSK, 30HHz)						
1982   ARS   SG NR (DFT=COFDM, 100K, NR, 30HHz, OPSK, 30HHz)				<u> </u>		
19825   ABS SINK (DFF-6-0FN)   100K, PR, 40MHz, QPSK, 30HHz)   50 NR PR1 TDD   5.84   49.8   10825   ABS SINK (DFF-10-0FN)   100KHz, QPSK, 30HHz)   50 NR PR1 TDD   5.85   49.8   10826   ABS SINK (DFF-6-0FN)   100KHz, QPSK, 30HHz)   50 NR PR1 TDD   5.84   49.6   10827   ABS SINK (DFF-6-0FN)   100KHz, QPSK, 30HHz)   50 NR PR1 TDD   5.84   29.6   10827   ABS SINK (DFF-6-0FN)   10KHz, QPSK, 30HHz)   50 NR PR1 TDD   5.82   29.6   10827   ABS SINK (DFF-6-0FN)   10KHz, QPSK, 30HHz)   50 NR PR1 TDD   5.82   29.6   10828   ACC   50 NR (DFF-6-0FN), TB, TS, MHz, QPSK, TSHYL)   50 NR PR1 TDD   5.82   29.6   10828   ACC   50 NR (DFF-6-0FN), TB, TSHHz, QPSK, TSHYL)   50 NR PR1 TDD   5.82   29.6   10828   ACC   50 NR (DFF-6-0FN), TB, TSHHz, QPSK, TSHYL)   50 NR PR1 TDD   5.82   29.6   10828   ACC   50 NR (DFF-6-0FN), TB, TSHHz, QPSK, TSHYL)   50 NR PR1 TDD   5.52   29.6   10821   ACC   50 NR (DFF-6-0FN), TB, TSHHz, QPSK, TSHYL)   50 NR PR1 TDD   5.51   19.6   10822   ACC   50 NR (DFF-6-0FN), TB, TSHHz, QPSK, TSHYL)   50 NR PR1 TDD   5.51   19.6   10824   ACC   50 NR (DFF-6-0FN), TBR, 20MHz, QPSK, TSHYL)   50 NR PR1 TDD   5.51   19.6   10824   ACC   50 NR (DFF-6-0FN), TBR, 20MHz, QPSK, TSHYL)   50 NR PR1 TDD   5.51   19.6   10824   ACC   50 NR (DFF-6-0FN), TBR, 20MHz, QPSK, TSHYL)   50 NR PR1 TDD   5.51   19.6   10824   ACC   50 NR (DFF-6-0FN), 50 NR PR1 TDD   5.51   19.6   10824   ACC   50 NR (DFF-6-0FN), 50 NR PR1 TDD   5.51   19.6   10824   ACC   50 NR (DFF-6-0FN), 50 NR PR1 TDD   5.51   19.6   10824   ACC   50 NR (DFF-6-0FN), 50 NR PR1 TDD   5.51   19.6   10824   ACC   50 NR (DFF-6-0FN), 50 NR PR1 TDD   5.51   19.6   10824   ACC   50 NR (DFF-6-0FN), 50 NR PR1 TDD   5.51   19.6   10824   ACC   50 NR (DFF-6-0FN), 50 NR PR1 TDD   5.50   19.6   10824   ACC   50 NR (DFF-6-0FN), 50 NR PR1 TDD   5.50   19.6   10824   ACC   50 NR (DFF-6-0FN), 50 NR PR1 TDD   5.50   19.6   10824   ACC   50 NR (DFF-6-0FN), 50 NR PR1 TDD   5.80   19.6   10824   ACC   50 NR (DFF-6-0FN), 50 NR PR1 TDD   5.80   19.6   10824   ACC   50 NR (DFF-6-0FN),					1	
1982   AAB   SA NR (DPT-A-CPEM, 100%; RB, 50MHz, CPSK, 150Hz)   SG NR FRI TOD   5.98   49.6						
1932   AAS   SA NR (DFT-A-OFEM, 100%; RB, 50MHz, OFSK, 30MHz)						<u> </u>
1982   AAC   SO NR (DIT-S-OFDM, 1989, SHE, DONNE, OPSK, 156Hz)				i		
1932   AAC   SG NR (DFFs-OFDM, 1 RB, 50Mtz, OPSK, 15Hz)						
10929 AAC   SQ NR (DFFs-OFDM, 1 RB, 15MHz, OPSK, 15MHz)   SG NR FR1 FDD   5.52   19.6						ļ
10930   AAC   SG NR (DFTs-OFDM, 1RB, 15MHz, OPSK, 15MHz)   SG NR FRI FDD   5.52   19.6					I	<b></b>
1993   AAC   SG NR (DFT-8-OFDM, 1 RB, 25 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   S.51   19.6					<u> </u>	
10932 AAC   GG NR (DFT-s-OFDM, 1 RB, 25MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.51   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 1 RB, 30MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.51   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 1 RB, 40MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.51   4.9.6   10935 AAD   5G NR (DFT-s-OFDM, 1 RB, 50MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.51   4.9.6   10936 AAC   5G NR (DFT-s-OFDM, 1 RB, 50MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.51   4.9.6   10937 AAC   5G NR (DFT-s-OFDM, 50W RB, 10MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.77   4.9.6   10938 AAC   5G NR (DFT-s-OFDM, 50W RB, 10MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.77   4.9.6   10938 AAC   5G NR (DFT-s-OFDM, 50W RB, 15MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.77   4.9.6   10938 AAC   5G NR (DFT-s-OFDM, 50W RB, 15MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.77   4.9.6   10938 AAC   5G NR (DFT-s-OFDM, 50W RB, 20MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.82   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 50W RB, 20MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.82   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 50W RB, 30MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.83   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 50W RB, 30MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.83   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 50W RB, 30MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.83   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 50W RB, 40MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.85   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 50W RB, 50MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.85   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 100W RB, 50MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.85   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 100W RB, 50MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.81   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 100W RB, 50MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.81   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 100W RB, 20MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.83   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 100W RB, 20MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.83   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 100W RB, 20MHz, OPSK, 15Hz)   5G NR FR1 FDD   5.83   4.9.6   10934 AAC   5G NR (DFT-s-OFDM, 100W RB, 20MHz,						<del></del>
19939   AAC   SG NR (DFT-s-OFDM, 1 RB, 30MHz, OPSK, 15kHz)   SG NR FRI FDD   5.51   19.6					5.51	±9.6
1993   AAC   SG NR (PFE-OFDM, 1 RB, 40 MHz, OPSK, 15NHz)   5G NR FRI FDD   5.51   49.6   1935   AAC   SG NR (DFTE-OFDM, 1 RB, 50 MHz, QPSK, 15NHz)   5G NR FRI FDD   5.90   49.6   1938   AAC   SG NR (DFTE-OFDM, 50% RB, 5 MHz, QPSK, 15NHz)   5G NR FRI FDD   5.90   49.6   1938   AAC   SG NR (DFTE-OFDM, 50% RB, 10 MHz, QPSK, 15NHz)   5G NR FRI FDD   5.90   49.6   1938   AAC   SG NR (DFTE-OFDM, 50% RB, 10 MHz, QPSK, 15NHz)   5G NR FRI FDD   5.90   49.6   1938   AAC   SG NR (DFTE-OFDM, 50% RB, 15 MHz, QPSK, 15NHz)   5G NR FRI FDD   5.90   49.6   1938   AAC   SG NR (DFTE-OFDM, 50% RB, 25MHz, QPSK, 15NHz)   5G NR FRI FDD   5.92   49.6   1938   AAC   SG NR (DFTE-OFDM, 50% RB, 25MHz, QPSK, 15NHz)   5G NR FRI FDD   5.82   49.6   1934   AAC   SG NR (DFTE-OFDM, 50% RB, 30 MHz, QPSK, 15NHz)   5G NR FRI FDD   5.83   49.6   1934   AAC   SG NR (DFTE-OFDM, 50% RB, 30 MHz, QPSK, 15NHz)   5G NR FRI FDD   5.83   49.6   1934   AAC   SG NR (DFTE-OFDM, 50% RB, 30 MHz, QPSK, 15NHz)   5G NR FRI FDD   5.83   49.6   1934   AAC   SG NR (DFTE-OFDM, 50% RB, 50MHz, QPSK, 15NHz)   5G NR FRI FDD   5.85   49.6   1934   AAC   SG NR (DFTE-OFDM, 50% RB, 50MHz, QPSK, 15NHz)   5G NR FRI FDD   5.83   49.6   1934   AAC   SG NR (DFTE-OFDM, 100% RB, 50MHz, QPSK, 15NHz)   5G NR FRI FDD   5.85   49.6   1934   AAC   SG NR (DFTE-OFDM, 100% RB, 50MHz, QPSK, 15NHz)   5G NR FRI FDD   5.85   49.6   1934   AAC   SG NR (DFTE-OFDM, 100% RB, 50MHz, QPSK, 15NHz)   5G NR FRI FDD   5.85   49.6   1934   AAC   SG NR (DFTE-OFDM, 100% RB, 20MHz, QPSK, 15NHz)   5G NR FRI FDD   5.85   49.6   1934   AAC   SG NR (DFTE-OFDM, 100% RB, 20 MHz, QPSK, 15NHz)   5G NR FRI FDD   5.83   49.6   1934   AAC   SG NR (DFTE-OFDM, 100% RB, 20 MHz, QPSK, 15NHz)   5G NR FRI FDD   5.84   49.6   1934   AAC   SG NR (DFTE-OFDM, 100% RB, 20 MHz, QPSK, 15NHz)   5G NR FRI FDD   5.84   49.6   1934   AAC   SG NR (DFTE-OFDM, 100% RB, 20 MHz, QPSK, 15NHz)   5G NR FRI FDD   5.84   49.6   1934   AAC   SG NR (DFTE-OFDM, 100% RB, 20 MHz, QPSK, 15NHz)   5G NR FRI FDD   5.84   49.6   1934   AAC   SG NR (DFTE-			, , , , , , , , , , , , , , , , , , , ,	5G NR FR1 FDD	5.51	±9.6
1935   AAD   SG NR (DFT-S-OFDM, 1 RB, 50 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.51   ±9.6   1938   AAC   SG NR (DFT-S-OFDM, 50% RB, 51 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.77   ±9.8   1938   AAC   SG NR (DFT-S-OFDM, 50% RB, 10 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.90   ±9.6   1938   AAC   SG NR (DFT-S-OFDM, 50% RB, 15 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.90   ±9.6   1938   AAC   SG NR (DFT-S-OFDM, 50% RB, 15 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.90   ±9.6   1938   AAC   SG NR (DFT-S-OFDM, 50% RB, 20 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.82   ±9.6   19340   AAC   SG NR (DFT-S-OFDM, 50% RB, 20 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.83   ±9.6   19341   AAC   SG NR (DFT-S-OFDM, 50% RB, 30 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.83   ±9.6   19342   AAC   SG NR (DFT-S-OFDM, 50% RB, 30 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.85   ±9.6   19343   AAD   SG NR (DFT-S-OFDM, 50% RB, 50 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.85   ±9.6   19343   AAD   SG NR (DFT-S-OFDM, 50% RB, 50 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.85   ±9.6   19343   AAC   SG NR (DFT-S-OFDM, 100% RB, 50 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.85   ±9.6   19343   AAC   SG NR (DFT-S-OFDM, 100% RB, 50 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.85   ±9.6   19344   AAC   SG NR (DFT-S-OFDM, 100% RB, 50 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.85   ±9.6   19345   AAC   SG NR (DFT-S-OFDM, 100% RB, 50 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.86   ±9.6   10349   AAC   SG NR (DFT-S-OFDM, 100% RB, 50 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.87   ±9.6   10349   AAC   SG NR (DFT-S-OFDM, 100% RB, 50 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.87   ±9.6   10349   AAC   SG NR (DFT-S-OFDM, 100% RB, 20 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.87   ±9.6   10349   AAC   SG NR (DFT-S-OFDM, 100% RB, 20 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.87   ±9.6   10349   AAC   SG NR (DFT-S-OFDM, 100% RB, 20 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.87   ±9.6   10349   AAC   SG NR (DFT-S-OFDM, 100% RB, 20 MHz, OPSK, 15 Hz)   SG NR FRI FDD   5.87   ±9.6   10349   AAC   SG NR (DFT-S-OFDM, 100% RB, 20 MHz, OPSK, 15 Hz)   SG				5G NR FR1 FDD	5.51	±9.6
19938   AAC   SG NR (OFTS-OFDM, 509-R B, 5MHz, OPSK, 15kHz)   SG NR FRI FDD   5.90   ±9.6			5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
1993   AAC   SG NR (OFT-S-OFDM, 509-R, B, 10 MHz, QPSK, 15kHz)   SG NR FRI FDD   5.77   ±9.6	10936	AAC		5G NR FR1 FDD	5.90	±9.6
10939   AAC   5G NR (DFTs-OFDM, 50% RB, 20MHz, QPSK, 15kHz)   5G NR FRI FDD   5.82   ±9.6   10940   AAC   5G NR (DFTs-OFDM, 50% RB, 20MHz, QPSK, 15kHz)   5G NR FRI FDD   5.89   ±9.8   10942   AAC   5G NR (DFTs-OFDM, 50% RB, 30MHz, QPSK, 15kHz)   5G NR FRI FDD   5.89   ±9.6   10942   AAC   5G NR (DFTs-OFDM, 50% RB, 30MHz, QPSK, 15kHz)   5G NR FRI FDD   5.85   ±9.6   10943   AAC   5G NR (DFTs-OFDM, 50% RB, 60MHz, QPSK, 15kHz)   5G NR FRI FDD   5.85   ±9.6   10944   AAC   5G NR (DFTs-OFDM, 50% RB, 50MHz, QPSK, 15kHz)   5G NR FRI FDD   5.81   ±9.6   10944   AAC   5G NR (DFTs-OFDM, 100% RB, 50MHz, QPSK, 15kHz)   5G NR FRI FDD   5.81   ±9.6   10945   AAC   5G NR (DFTs-OFDM, 100% RB, 10MHz, QPSK, 15kHz)   5G NR FRI FDD   5.81   ±9.6   10946   AAC   5G NR (DFTs-OFDM, 100% RB, 10MHz, QPSK, 15kHz)   5G NR FRI FDD   5.82   ±9.6   10946   AAC   5G NR (DFTs-OFDM, 100% RB, 15MHz, QPSK, 15kHz)   5G NR FRI FDD   5.83   ±9.6   10946   AAC   5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz)   5G NR FRI FDD   5.82   ±9.6   10946   AAC   5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz)   5G NR FRI FDD   5.83   ±9.6   10946   AAC   5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz)   5G NR FRI FDD   5.84   ±9.6   10946   AAC   5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz)   5G NR FRI FDD   5.87   ±9.6   10946   AAC   5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz)   5G NR FRI FDD   5.94   ±9.6   10950   AAC   5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz)   5G NR FRI FDD   5.94   ±9.6   10950   AAC   5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz)   5G NR FRI FDD   5.94   ±9.6   10950   AAC   5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz)   5G NR FRI FDD   5.92   ±9.6   10950   AAA   5G NR DC, CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15kHz)   5G NR FRI FDD   5.92   ±9.6   10955   AAA   5G NR DC, CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15kHz)   5G NR FRI FDD   8.25   ±9.6   10956   AAA   5G NR DC, CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)   5G NR FRI FDD   8.21   ±9.6   10956   AAA   5G NR DC, CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)   5G NR FRI FDD   8.21   ±9.6	10937	AAC		5G NR FR1 FDD	5.77	±9.6
19940   AAC   5G NR (DFTs-OFDM, 50% RB, 25MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.89   ±9.6   10941   AAC   5G NR (DFTs-OFDM, 50% RB, 30MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.85   ±9.6   10942   AAC   5G NR (DFTs-OFDM, 50% RB, 40MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.85   ±9.6   10943   AAD   5G NR (DFTs-OFDM, 50% RB, 50MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.85   ±9.6   10944   AAC   5G NR (DFTs-OFDM, 100% RB, 50MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.85   ±9.6   10946   AAC   5G NR (DFTs-OFDM, 100% RB, 10MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.81   ±9.6   10946   AAC   5G NR (DFTs-OFDM, 100% RB, 10MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.83   ±9.6   10946   AAC   5G NR (DFTs-OFDM, 100% RB, 25MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.83   ±9.6   10947   AAC   5G NR (DFTs-OFDM, 100% RB, 25MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.83   ±9.6   10948   AAC   5G NR (DFTs-OFDM, 100% RB, 25MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.87   ±9.6   10949   AAC   5G NR (DFTs-OFDM, 100% RB, 25MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.94   ±9.6   10949   AAC   5G NR (DFTs-OFDM, 100% RB, 40MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.97   ±9.6   10950   AAC   5G NR (DFTs-OFDM, 100% RB, 40MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.97   ±9.6   10950   AAC   5G NR (DFTs-OFDM, 100% RB, 40MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.97   ±9.6   10951   AAD   5G NR (DFTs-OFDM, 100% RB, 40MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.92   ±9.6   10952   AAA   5G NR GDFTs-OFDM, 100% RB, 40MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.92   ±9.6   10953   AAA   5G NR GDFTs-OFDM, 100% RB, 40MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.92   ±9.6   10955   AAA   5G NR GDFTs-OFDM, 100% RB, 40MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.92   ±9.6   10955   AAA   5G NR GDFTs-OFDM, 100% RB, 40MHz, 40MH	10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10941   AAC   5G NR (DFTs-OFDM, 50% RB, 30 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.83   ±9.6     10942   AAC   5G NR (DFTs-OFDM, 50% RB, 40 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.85   ±9.6     10943   AAC   5G NR (DFTs-OFDM, 50% RB, 50 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.85   ±9.6     10944   AAC   5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.81   ±9.6     10945   AAC   5G NR (DFTs-OFDM, 100% RB, 10 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.83   ±9.6     10946   AAC   5G NR (DFTs-OFDM, 100% RB, 10 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.83   ±9.6     10947   AAC   5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.83   ±9.6     10948   AAC   5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.87   ±9.6     10949   AAC   5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.87   ±9.6     10949   AAC   5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.87   ±9.6     10949   AAC   5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.87   ±9.6     10950   AAC   5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.87   ±9.6     10951   AAC   5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.87   ±9.6     10952   AAA   5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.94   ±9.6     10953   AAC   5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.94   ±9.6     10954   AAC   5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.94   ±9.6     10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   5.22   ±9.6     10956   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   5.23   ±9.6     10957   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   5.82   ±9.6     10958   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   5.84   ±9.6     10958   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   5.92   ±9.6     10958   AAA   5G NR DL	10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	. <u>L</u>	
19942   AAC   5G NR (DFT-s-OFDM, 50% RB, 40MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.85   ±9.6	10940	AAC		<u> </u>		
19944   AAD   SG NR (DFTs-OFDIM, 190% RB, 50MHz, QPSK, 15MHz)   SG NR FR1 FDD   5.85		L	l	<u> </u>		ļ
1994  AAC   5G NR (DFTs-OFDM, 100% RB, 5MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.85   ±9.6     10945   AAC   5G NR (DFTs-OFDM, 100% RB, 10MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.85   ±9.6     10947   AAC   5G NR (DFTs-OFDM, 100% RB, 10MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.83   ±9.6     10947   AAC   5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.87   ±9.6     10948   AAC   5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.94   ±9.6     10949   AAC   5G NR (DFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.94   ±9.6     10950   AAC   5G NR (DFTs-OFDM, 100% RB, 30MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.94   ±9.6     10951   AAD   5G NR (DFTs-OFDM, 100% RB, 30MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.94   ±9.6     10952   AAA   5G NR (DFTs-OFDM, 100% RB, 50MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.94   ±9.6     10953   AAA   5G NR (DFTs-OFDM, 100% RB, 50MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.92   ±9.6     10954   AAA   5G NR (DFTs-OFDM, 100% RB, 50MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.92   ±9.6     10955   AAA   5G NR (DFTS-OFDM, 100% RB, 50MHz, 64-CAM, 15kHz)   5G NR FR1 FDD   8.25   ±9.6     10954   AAA   5G NR DL (CP-OFDM, 1M 3.1, 5MHz, 64-CAM, 15kHz)   5G NR FR1 FDD   8.25   ±9.6     10955   AAA   5G NR DL (CP-OFDM, 1M 3.1, 20MHz, 64-CAM, 15kHz)   5G NR FR1 FDD   8.23   ±9.6     10956   AAA   5G NR DL (CP-OFDM, 1M 3.1, 20MHz, 64-CAM, 15kHz)   5G NR FR1 FDD   8.42   ±9.6     10957   AAA   5G NR DL (CP-OFDM, 1M 3.1, 20MHz, 64-CAM, 30kHz)   5G NR FR1 FDD   8.42   ±9.6     10958   AAA   5G NR DL (CP-OFDM, 1M 3.1, 20MHz, 64-CAM, 30kHz)   5G NR FR1 FDD   8.42   ±9.6     10959   AAA   5G NR DL (CP-OFDM, 1M 3.1, 15MHz, 64-CAM, 30kHz)   5G NR FR1 FDD   8.91   ±9.6     10958   AAA   5G NR DL (CP-OFDM, 1M 3.1, 15MHz, 64-CAM, 30kHz)   5G NR FR1 FDD   8.91   ±9.6     10959   AAA   5G NR DL (CP-OFDM, 1M 3.1, 15MHz, 64-CAM, 30kHz)   5G NR FR1 FDD   8.92   ±9.6     10959   AAA   5G NR DL (CP-OFDM, 1M 3.1, 15MHz, 64-CAM, 30kHz)   5G NR FR1 TDD   9.92   ±9.6     10959   AAB   5G NR DL (CP-OFDM,					4	
10945   AAC   5G NR (DFTs-OFDM, 100% RB, 10MHz, QPSK, 15KHz)   5G NR FR1 FDD   5.85   ±9.6     10946   AAC   5G NR (DFTs-OFDM, 100% RB, 15MHz, QPSK, 15KHz)   5G NR FR1 FDD   5.83   ±9.6     10947   AAC   5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15KHz)   5G NR FR1 FDD   5.87   ±9.6     10948   AAC   5G NR (DFTs-OFDM, 100% RB, 25MHz, QPSK, 15KHz)   5G NR FR1 FDD   5.94   ±9.6     10949   AAC   5G NR (DFTs-OFDM, 100% RB, 30MHz, QPSK, 15KHz)   5G NR FR1 FDD   5.94   ±9.6     10949   AAC   5G NR (DFTs-OFDM, 100% RB, 30MHz, QPSK, 15KHz)   5G NR FR1 FDD   5.87   ±9.6     10950   AAC   5G NR (DFTs-OFDM, 100% RB, 30MHz, QPSK, 15KHz)   5G NR FR1 FDD   5.94   ±9.6     10951   AAD   5G NR (DFTs-OFDM, 100% RB, 50MHz, QPSK, 15KHz)   5G NR FR1 FDD   5.92   ±9.6     10952   AAA   5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15KHz)   5G NR FR1 FDD   5.92   ±9.6     10953   AAA   5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15KHz)   5G NR FR1 FDD   5.92   ±9.6     10954   AAA   5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15KHz)   5G NR FR1 FDD   8.25   ±9.6     10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15KHz)   5G NR FR1 FDD   8.23   ±9.6     10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15KHz)   5G NR FR1 FDD   8.23   ±9.6     10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15KHz)   5G NR FR1 FDD   8.42   ±9.6     10956   AAA   5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 30KHz)   5G NR FR1 FDD   8.42   ±9.6     10957   AAA   5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 30KHz)   5G NR FR1 FDD   8.31   ±9.6     10958   AAA   5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30KHz)   5G NR FR1 FDD   8.31   ±9.6     10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30KHz)   5G NR FR1 FDD   8.61   ±9.6     10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30KHz)   5G NR FR1 FDD   9.30   ±9.6     10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30KHz)   5G NR FR1 TDD   9.32   ±9.8     10950   AAB   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30KHz)   5G NR FR1 TDD   9.55   ±9.6     10960   AAC   5G NR DL (CP	<u> </u>					4
10946   AAC   5G NR (DFTs-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ±9.6     10947   AAC   5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ±9.6     10948   AAC   5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ±9.8     10949   AAC   5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ±9.8     10950   AAC   5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ±9.8     10951   AAD   5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.94   ±9.6     10951   AAD   5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.92   ±9.6     10952   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.25   ±9.6     10953   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.15   ±9.6     10954   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.23   ±9.6     10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.42   ±9.6     10956   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.42   ±9.6     10957   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.41   ±9.6     10958   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.31   ±9.6     10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.61   ±9.6     10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.61   ±9.6     10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.61   ±9.6     10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   9.32   ±9.6     10969   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   9.32   ±9.6     10969   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 TDD   9.35   ±9.6     10960   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 TDD   9.55			[		<u> </u>	
10947   AAC   5G NR (DFTs-OFDM, 100% RB, 20 MHz, OPSK, 15 kHz)   5G NR FR1 FDD   5.87   ±9.6     10948   AAC   5G NR (DFTs-OFDM, 100% RB, 25 MHz, OPSK, 15 kHz)   5G NR FR1 FDD   5.94   ±9.6     10950   AAC   5G NR (DFTs-OFDM, 100% RB, 30 MHz, OPSK, 15 kHz)   5G NR FR1 FDD   5.87   ±9.6     10950   AAC   5G NR (DFTs-OFDM, 100% RB, 40 MHz, OPSK, 15 kHz)   5G NR FR1 FDD   5.94   ±9.6     10951   AAD   5G NR (DFTs-OFDM, 100% RB, 50 MHz, OPSK, 15 kHz)   5G NR FR1 FDD   5.94   ±9.6     10952   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.25   ±9.6     10953   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.25   ±9.6     10954   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.23   ±9.6     10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.24   ±9.6     10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.42   ±9.6     10956   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.42   ±9.6     10957   AAA   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.14   ±9.6     10958   AAA   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.31   ±9.6     10958   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.31   ±9.6     10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.33   ±9.6     10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.33   ±9.6     10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.33   ±9.6     10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 TDD   9.32   ±9.8     10960   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 TDD   9.40   ±9.6     10961   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 TDD   9.55   ±9.6     10962   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 TDD		ļ		<u> </u>	1	
10948   AAC   5G NR (DFTs-OFDM, 100% RB, 25MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.94   ±9.6   10949   AAC   5G NR (DFTs-OFDM, 100% RB, 30MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.87   ±9.6   10950   AAC   5G NR (DFTs-OFDM, 100% RB, 40MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.94   ±9.6   10951   AAD   5G NR (DFTs-OFDM, 100% RB, 50MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.92   ±9.6   10951   AAD   5G NR (DFTs-OFDM, 100% RB, 50MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.92   ±9.6   10953   AAA   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   8.25   ±9.6   10953   AAA   5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   8.25   ±9.6   10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   8.23   ±9.6   10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   8.42   ±9.6   10956   AAA   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.14   ±9.6   10957   AAA   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.14   ±9.6   10958   AAA   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.31   ±9.6   10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.61   ±9.6   10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.61   ±9.6   10960   AAC   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   9.32   ±9.6   10960   AAC   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)   5G NR FR1 TDD   9.32   ±9.6   10960   AAC   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)   5G NR FR1 TDD   9.32   ±9.6   10960   AAC   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)   5G NR FR1 TDD   9.32   ±9.6   10960   AAB   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)   5G NR FR1 TDD   9.32   ±9.6   10960   AAB   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)   5G NR FR1 TDD   9.32   ±9.6   10960   AAB   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)   5G NR FR1 TDD   9.55   ±9.6   10960   AAB   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)   5G NR FR1	ļ					1
10949   AAC   5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.87   ±9.6     10950   AAC   5G NR (DFTs-OFDM, 100% RB, 40 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.94   ±9.6     10951   AAD   5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15kHz)   5G NR FR1 FDD   5.92   ±9.6     10952   AAA   5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   8.25   ±9.6     10953   AAA   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   8.15   ±9.6     10954   AAA   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   8.23   ±9.6     10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   8.23   ±9.6     10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   8.42   ±9.6     10956   AAA   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.42   ±9.6     10957   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.31   ±9.6     10958   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.31   ±9.6     10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.61   ±9.6     10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.61   ±9.6     10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   8.63   ±9.6     10960   AAC   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15kHz)   5G NR FR1 TDD   9.32   ±9.6     10961   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15kHz)   5G NR FR1 TDD   9.32   ±9.6     10962   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15kHz)   5G NR FR1 TDD   9.35   ±9.6     10963   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15kHz)   5G NR FR1 TDD   9.35   ±9.6     10964   AAC   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30kHz)   5G NR FR1 TDD   9.40   ±9.6     10968   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30kHz)   5G NR FR1 TDD   9.49   ±9.6     10968   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30kHz)   5G NR FR1 TDD   9.49   ±9.		ļ		<u> </u>	<u> </u>	
10950   AAC   5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.94   ±9.6   10951   AAD   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.92   ±9.6   10952   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.25   ±9.6   10953   AAA   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.25   ±9.6   10954   AAA   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.23   ±9.6   10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.23   ±9.6   10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.42   ±9.5   10956   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.14   ±9.6   10957   AAA   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.31   ±9.6   10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.61   ±9.6   10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.61   ±9.6   10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.31   ±9.6   10960   AAC   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 TDD   9.32   ±9.6   10961   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 TDD   9.36   ±9.6   10962   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 TDD   9.40   ±9.6   10963   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 TDD   9.40   ±9.6   10968   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 TDD   9.40   ±9.6   10968   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 TDD   9.55   ±9.6   10966   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 TDD   9.40   ±9.6   10968   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 TDD   9.40   ±9.6   10968   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 TDD   9.40   ±9.6   10968   AAB   5G NR		<u> </u>		4		
10951   AAD   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.92   ±9.6   10952   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.25   ±9.6   10953   AAA   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.15   ±9.6   10954   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.23   ±9.6   10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.42   ±9.6   10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.42   ±9.6   10957   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.14   ±9.6   10957   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.14   ±9.6   10958   AAA   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.61   ±9.6   10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.31   ±9.6   10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.33   ±9.6   10960   AAC   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   9.32   ±9.6   10961   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)   5G NR FR1 TDD   9.32   ±9.6   10963   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)   5G NR FR1 TDD   9.40   ±9.6   10963   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)   5G NR FR1 TDD   9.55   ±9.6   10964   AAC   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 TDD   9.29   ±9.6   10965   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 TDD   9.29   ±9.6   10967   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 TDD   9.40   ±9.6   10967   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 TDD   9.42   ±9.6   10967   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 TDD   9.42   ±9.6   10967   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 TDD   9.42   ±9.6   10967   AAB					<b></b>	1
10952   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   8.25   ±9.6   10953   AAA   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   8.15   ±9.6   10954   AAA   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   8.23   ±9.6   10955   AAA   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   8.42   ±9.6   10956   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.41   ±9.6   10957   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.31   ±9.6   10958   AAA   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.31   ±9.6   10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.61   ±9.6   10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.33   ±9.6   10959   AAA   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30kHz)   5G NR FR1 FDD   8.33   ±9.6   10960   AAC   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15kHz)   5G NR FR1 FDD   9.32   ±9.6   10961   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15kHz)   5G NR FR1 TDD   9.36   ±9.6   10962   AAB   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15kHz)   5G NR FR1 TDD   9.40   ±9.6   10963   AAB   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15kHz)   5G NR FR1 TDD   9.40   ±9.6   10964   AAC   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15kHz)   5G NR FR1 TDD   9.55   ±9.6   10964   AAC   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30kHz)   5G NR FR1 TDD   9.55   ±9.6   10964   AAC   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30kHz)   5G NR FR1 TDD   9.55   ±9.6   10968   AAB   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30kHz)   5G NR FR1 TDD   9.55   ±9.6   10968   AAB   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30kHz)   5G NR FR1 TDD   9.55   ±9.6   10968   AAB   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30kHz)   5G NR FR1 TDD   9.55   ±9.6   10968   AAB   5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30kHz)   5G NR FR1 TDD   9.55   ±9.6   10968   AAB   5G NR DL (CP-OFDM, TM						
10953       AAA       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 FDD       8.15       ±9.6         10954       AAA       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)       5G NR FR1 FDD       8.23       ±9.6         10955       AAA       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 FDD       8.42       ±9.6         10956       AAA       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.14       ±9.6         10957       AAA       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.31       ±9.6         10958       AAA       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.61       ±9.6         10959       AAA       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.33       ±9.6         10960       AAC       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.32       ±9.6         10961       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.36       ±9.6         10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.36       ±9.6         10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-		1		5G NR FR1 FDD	8.25	±9.6
10955       AAA       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 FDD       8.42       ±9.6         10956       AAA       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.14       ±9.6         10957       AAA       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.31       ±9.6         10958       AAA       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.61       ±9.6         10959       AAA       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.33       ±9.6         10959       AAA       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.32       ±9.6         10960       AAC       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.36       ±9.6         10961       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.40       ±9.6         10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.40       ±9.6         10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±9.6         10964       AAC       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-Q	ļ	ļ	<u> </u>	5G NR FR1 FDD	8.15	±9.6
10956       AAA       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.14       ±9.6         10957       AAA       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.31       ±9.6         10958       AAA       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.61       ±9.6         10959       AAA       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.33       ±9.6         10960       AAC       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.32       ±9.6         10961       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.36       ±9.6         10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.40       ±9.6         10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±9.6         10964       AAC       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±9.6         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±9.6         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-Q	10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
10957       AAA       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.31       ±9.6         10958       AAA       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.61       ±9.6         10959       AAA       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.33       ±9.6         10960       AAC       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.32       ±9.6         10961       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.36       ±9.6         10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.40       ±9.6         10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.55       ±9.6         10964       AAC       5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±9.6         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±9.6         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±9.6         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 6	10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.6
10958       AAA       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.61       ±9.6         10959       AAA       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.33       ±9.6         10960       AAC       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.32       ±9.6         10961       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.36       ±9.6         10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.40       ±9.6         10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.40       ±9.6         10964       AAC       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.29       ±9.6         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±9.6         10964       AC       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±9.6         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±9.6         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-		AAA	1		1	
10959       AAA       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.33       ±9.6         10960       AAC       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.32       ±9.6         10961       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.36       ±9.6         10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.40       ±9.6         10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.55       ±9.6         10964       AAC       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.29       ±9.6         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±9.6         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±9.6         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.42       ±9.6         10972       AAB       5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.49       ±9.6         10973       AAB       5G NR FR1 TDD       9.49 <td>Ĺ</td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td>	Ĺ	<u> </u>				
10960       AAC       5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)       5G NR FR1 TDD       9.32       ±9.6         10961       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15kHz)       5G NR FR1 TDD       9.36       ±9.6         10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15kHz)       5G NR FR1 TDD       9.40       ±9.6         10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15kHz)       5G NR FR1 TDD       9.55       ±9.6         10964       AAC       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.29       ±9.6         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±9.6         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±9.6         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.42       ±9.6         10972       AAB       5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.49       ±9.6         10973       AAB       5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.42       ±9.6         10972       AAB       5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-Q	<u> </u>	<del></del>				
10961       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.36       ±9.6         10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.40       ±9.6         10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.55       ±9.6         10964       AAC       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.29       ±9.6         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±9.6         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±9.6         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±9.6         10968       AAB       5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.42       ±9.6         10972       AAB       5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       11.59       ±9.6         10973       AAB       5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)       5G NR FR1 TDD       10.28       ±9.6         10978       AAA       ULLA       10.16 <t< td=""><td>1</td><td>£</td><td>L</td><td>1</td><td></td><td></td></t<>	1	£	L	1		
10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz)       5G NR FR1 TDD       9.40       ±9.6         10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 15kHz)       5G NR FR1 TDD       9.55       ±9.6         10964       AAC       5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)       5G NR FR1 TDD       9.29       ±9.6         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 30kHz)       5G NR FR1 TDD       9.37       ±9.6         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz)       5G NR FR1 TDD       9.55       ±9.6         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 30kHz)       5G NR FR1 TDD       9.42       ±9.6         10968       AAB       5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30kHz)       5G NR FR1 TDD       9.42       ±9.6         10972       AAB       5G NR (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30kHz)       5G NR FR1 TDD       9.49       ±9.6         10973       AAB       5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15kHz)       5G NR FR1 TDD       11.59       ±9.6         10974       AAB       5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30kHz)       5G NR FR1 TDD       10.28       ±9.6         10978       AAA       ULLA       1.16       ±9.6 <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td>				<u> </u>		
10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.55       ±9.6         10964       AAC       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.29       ±9.6         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±9.6         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±9.6         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.42       ±9.6         10968       AAB       5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.49       ±9.6         10972       AAB       5G NR (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.49       ±9.6         10973       AAB       5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)       5G NR FR1 TDD       11.59       ±9.6         10974       AAB       5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       10.28       ±9.6         10978       AAA       ULLA       1.16       ±9.6         10979       AAA       ULLA       1.16       ±9.6         10980       AAA       ULLA			, , , , , , , , , , , , , , , , , , , ,	<del>                                     </del>		
10964       AAC       5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz)       5G NR FR1 TDD       9.29       ±9.6         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30kHz)       5G NR FR1 TDD       9.37       ±9.6         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30kHz)       5G NR FR1 TDD       9.55       ±9.6         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30kHz)       5G NR FR1 TDD       9.42       ±9.6         10968       AAB       5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30kHz)       5G NR FR1 TDD       9.49       ±9.6         10972       AAB       5G NR (CP-OFDM, T RB, 20 MHz, QPSK, 15kHz)       5G NR FR1 TDD       11.59       ±9.6         10973       AAB       5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       9.06       ±9.6         10974       AAB       5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)       5G NR FR1 TDD       10.28       ±9.6         10978       AAA       ULLA       1.16       ±9.6         10980       AAA       ULLA       1.16       ±9.6         10981       AAA       ULLA HDR8       ULLA       3.19       ±9.6         10981       AAA       ULLA HDR94       ULLA       3.19	<u></u>					
10965         AAB         5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)         5G NR FR1 TDD         9.37         ±9.6           10966         AAB         5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)         5G NR FR1 TDD         9.55         ±9.6           10967         AAB         5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)         5G NR FR1 TDD         9.42         ±9.6           10968         AAB         5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)         5G NR FR1 TDD         9.49         ±9.6           10972         AAB         5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)         5G NR FR1 TDD         11.59         ±9.6           10973         AAB         5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         9.06         ±9.6           10974         AAB         5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)         5G NR FR1 TDD         10.28         ±9.6           10978         AAA         ULLA         1.16         ±9.6           10979         AAA         ULLA HDR4         ULLA         8.58         ±9.6           10980         AAA         ULLA HDR8         ULLA         3.19         ±9.6           10981         AAA         ULLA HDR94         ULLA         3.19         ±9.6						
10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±9.6         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.42       ±9.6         10968       AAB       5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.49       ±9.6         10972       AAB       5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)       5G NR FR1 TDD       11.59       ±9.6         10973       AAB       5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       9.06       ±9.6         10974       AAB       5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)       5G NR FR1 TDD       10.28       ±9.6         10978       AAA       ULLA BDR       ULLA       1.16       ±9.6         10979       AAA       ULLA HDR4       ULLA       8.58       ±9.6         10980       AAA       ULLA HDR8       ULLA       10.32       ±9.6         10981       AAA       ULLA HDR94       ULLA       3.19       ±9.6	<b></b>					<del></del>
10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.42       ±9.6         10968       AAB       5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.49       ±9.6         10972       AAB       5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)       5G NR FR1 TDD       11.59       ±9.6         10973       AAB       5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       9.06       ±9.6         10974       AAB       5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)       5G NR FR1 TDD       10.28       ±9.6         10978       AAA       ULLA BDR       ULLA       1.16       ±9.6         10979       AAA       ULLA HDR4       ULLA       8.58       ±9.6         10980       AAA       ULLA HDR8       ULLA       10.32       ±9.6         10981       AAA       ULLA HDR94       ULLA       3.19       ±9.6				<u> </u>		
10968       AAB       5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.49       ±9.6         10972       AAB       5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)       5G NR FR1 TDD       11.59       ±9.6         10973       AAB       5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       9.06       ±9.6         10974       AAB       5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)       5G NR FR1 TDD       10.28       ±9.6         10978       AAA       ULLA BDR       ULLA       1.16       ±9.6         10979       AAA       ULLA HDR4       ULLA       8.58       ±9.6         10980       AAA       ULLA HDR8       ULLA       10.32       ±9.6         10981       AAA       ULLA HDR94       ULLA       3.19       ±9.6	1	<u> </u>				1
10972       AAB       5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)       5G NR FR1 TDD       11.59       ±9.6         10973       AAB       5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)       5G NR FR1 TDD       9.06       ±9.6         10974       AAB       5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)       5G NR FR1 TDD       10.28       ±9.6         10978       AAA       ULLA BDR       ULLA       1.16       ±9.6         10979       AAA       ULLA HDR4       ULLA       8.58       ±9.6         10980       AAA       ULLA HDR8       ULLA       10.32       ±9.6         10981       AAA       ULLA HDR94       ULLA       3.19       ±9.6		1	1			·
10973         AAB         5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         9.06         ±9.6           10974         AAB         5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)         5G NR FR1 TDD         10.28         ±9.6           10978         AAA         ULLA BDR         ULLA         1.16         ±9.6           10979         AAA         ULLA HDR4         ULLA         8.58         ±9.6           10980         AAA         ULLA HDR8         ULLA         10.32         ±9.6           10981         AAA         ULLA HDR94         ULLA         3.19         ±9.6			1			
10974       AAB       5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)       5G NR FR1 TDD       10.28       ±9.6         10978       AAA       ULLA BDR       ULLA       1.16       ±9.6         10979       AAA       ULLA HDR4       ULLA       8.58       ±9.6         10980       AAA       ULLA HDR8       ULLA       10.32       ±9.6         10981       AAA       ULLA HDR94       ULLA       3.19       ±9.6		<u> </u>		<del> </del>	<u> </u>	
10978         AAA         ULLA         1.16         ±9.6           10979         AAA         ULLA HDR4         ULLA         8.58         ±9.6           10980         AAA         ULLA HDR8         ULLA         10.32         ±9.6           10981         AAA         ULLA HDRP4         ULLA         3.19         ±9.6						
10980         AAA         ULLA HDR8         ULLA         10.32         ±9.6           10981         AAA         ULLA HDRp4         ULLA         3.19         ±9.6	10978	AAA	ULLA BDR	ULLA	1.16	±9.6
10981 AAA ULLA HDRp4 ULLA 3.19 ±9.6	10979	AAA	ULLA HDR4	ULLA	8.58	±9.6
{	L	AAA	1			±9.6
10982   AAA   ULLA HDRp8   ULLA   3.43   ±9.6	<b>L</b>	AAA	ł			
	10982	AAA	ULLA HDRp8	ULLA	3.43	±9.6

September 12, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> $k=2$
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9,6
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	±9.6
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	±9.6
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	±9.6
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	±9.6
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	±9.6
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.70	±9.6
11006	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.55	±9.6
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.46	±9.6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.51	±9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.76	±9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	±9.6
11013	AAA	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
11014	AAA	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.6
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
11016	AAA	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
11017	AAA	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8.41	±9.6
11018	AAA	IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)	WLAN	8.40	±9.6
11019	AAA	IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
11020	AAA	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	±9.6
11021	AAA	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±9.6
11022	AAA	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9.6
11023	AAA	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	±9.6
11024	AAA	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±9.6
11025	AAA	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	±9.6
11026	AAA	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	±9.6

 $<sup>^{\</sup>rm E}$  Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

# Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst
Service suisse d'étalonnage

Servizio svizzero di taratura

S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Client

Element Morgan Hill, USA Certificate No.

EX-7639\_Nov23

## **CALIBRATION CERTIFICATE**

Object

EX3DV4 - SN:7639

Calibration procedure(s)

QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,

QA CAL-25.v8

Calibration procedure for dosimetric E-field probes

Calibration date

November 09, 2023

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	<b>I</b> D	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
OCP DAK-3.5 (weighted)	SN: 1249	05-Oct-23 (OCP-DAK3.5-1249_Oct23)	Oct-24
OCP DAK-12	SN: 1016	05-Oct-23 (OCP-DAK12-1016_Oct23)	Oct-24
Reference 20 dB Attenuator	SN: CC2552 (20x)	30-Mar-23 (No. 217-03809)	Mar-24
DAE4	SN: 660	16-Mar-23 (No. DAE4-660_Mar23)	Mar-24
Reference Probe ES3DV2	SN: 3013	06-Jan-23 (No. ES3-3013_Jan23)	Jan-24

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

Name

Function

Signatur

Calibrated by

Jeton Kastrati

Laboratory Technician

Issued: November 10, 2023

Approved by

Sven Kühn

Technical Manager

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

Certificate No: EX-7639\_Nov23

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#### Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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#### Glossary

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

ConvF sensitivity in TSL / NORMx,y,z

DCP diode compression point

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

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

Polarization  $\hat{\theta}$   $\theta$  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:

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

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# Parameters of Probe: EX3DV4 - SN:7639

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm $(\mu V/(V/m)^2)^A$	0.64	0.63	0.63	±10.1%
DCP (mV) B	108.4	107.4	106.9	±4.7%

## **Calibration Results for Modulation Response**

UID	Communication System Name	T	Α	В	С	D	VR	Max	Max
	· · · · · · · · · · · · · · · · · · ·		dB	dB√ <u>μV</u>		dB	m۷	dev.	Unc <sup>E</sup>
									k = 2
0	CW	X	0.00	0.00	1.00	0.00	149.9	±3.8%	±4.7%
		Y	0.00	0.00	1.00		138.3		
		Z	0.00	0.00	1.00		145.7		
10352	Pulse Waveform (200Hz, 10%)	X	1.53	60.55	6.33	10.00	60.0	±3.4%	±9.6%
		Y	1.74	61.88	7.37		60.0		
		Z	1.46	60.15	6.15		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	0.84	60.00	4.96	6.99	80.0	±2.8%	±9.6%
		Y	0.95	60.49	5.66		80.0		
		Z	0.92	60.00	5.14		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	26.00	72.00	7.00	3.98	95.0	±2.0%	±9.6%
	•	Y	0.49	60.00	4.39		95.0		
		Z	0.55	60.00	4.14		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	12.00	154.06	10.86	2.22	120.0	±1.9%	±9.6%
		Y	12.98	150.65	2.67		120.0	]	
		Z	15.38	149.16	4.94	1	120.0	1	
10387	QPSK Waveform, 1 MHz	X	0.55	61.88	10.77	1.00	150.0	±4.7%	±9.6%
		Y	0.48	61.52	10.05	Ī	150.0		
		Z	0.53	62.05	11.12	1	150.0	]	
10388	QPSK Waveform, 10 MHz	X	1.28	64.19	12.86	0.00	150.0	±1.4%	±9.6%
		Y	1.18	63.80	12.31		150.0		
		Z	1.27	64.52	13.13	1	150.0	]	
10396	64-QAM Waveform, 100 kHz	X	1.73	64.56	15.70	3.01	150.0	±0.8%	±9.6%
	1	Y	1.83	65.64	16.14		150.0	]	
		Z	1.70	64.49	15.79		150.0	]	
10399	64-QAM Waveform, 40 MHz	X	2.77	65.57	14.50	0.00	150.0	±2.6%	±9.6%
		Y	2.69	65.43	14.31	]	150.0		
		Z	2.75	65.65	14.60		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	3.79	65.35	14.80	0.00	150.0	±4.5%	±9.6%
]		Y	3.69	65.31	14.66	1	150.0		
		Z	3.93	66.15	15.22	]	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%.

B Linearization parameter uncertainty for maximum specified field strength.

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

E 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:7639

## **Sensor Model Parameters**

	C1 fF	C2 1F	α 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
×	11.0	78.09	31.98	3.71	0.00	4.90	0.54	0.00	1.00
V	10.2	72.20	32.19	6.34	0.00	4.97	0.75	0.00	1.01
Z	10.6	74.85	31.87	7,22	0.00	4.90	0.50	0.00	1.00

## **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle	94.6°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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

## Parameters of Probe: EX3DV4 - SN:7639

# 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	10.30	10.30	10.30	0.61	0.82	±12.0%
835	41.5	0.90	10.24	10.24	10.24	0.38	1.06	±12.0%
1750	40.1	1.37	8.98	8.98	8.98	0.28	0.86	±12.0%
1900	40.0	1.40	8.53	8.53	8.53	0.24	0.86	±12.0%
2300	39.5	1.67	8.64	8.64	8.64	0.18	0.90	±12.0%
2450	39.2	1.80	8.36	8.36	8.36	0.17	0.90	±12.0%
2600	39.0	1.96	8.03	8.03	8.03	0.14	0.90	±12.0%
3500	37.9	2.91	7.61	7.61	7.61	0.30	1.35	±14.0%
3700	37.7	3.12	7.47	7.47	7.47	0.30	1.35	±14.0%
3900	37.5	3.32	6.65	6.65	6.65	0.40	1.60	±14.0%
4950	36.3	4.40	6.11	6.11	6.11	0.40	1.80	±14.0%

C Frequency validity above 300 MHz of  $\pm 100$  MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to  $\pm 50$  MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is  $\pm 10$ , 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to  $\pm 110$  MHz.

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

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

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

# Parameters of Probe: EX3DV4 - SN:7639

# Calibration Parameter Determined in Body 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)
3500	51.3	3.31	6.87	6.87	6.87	0.40	1.35	±14.0%
3700	51.0	3.55	6.82	6.82	6.82	0.40	1.35	±14.0%
3900	50.8	3.78	6.21	6.21	6.21	0.40	1.70	±14.0%

C Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than ±5% from the target values (typically better than ±3%)

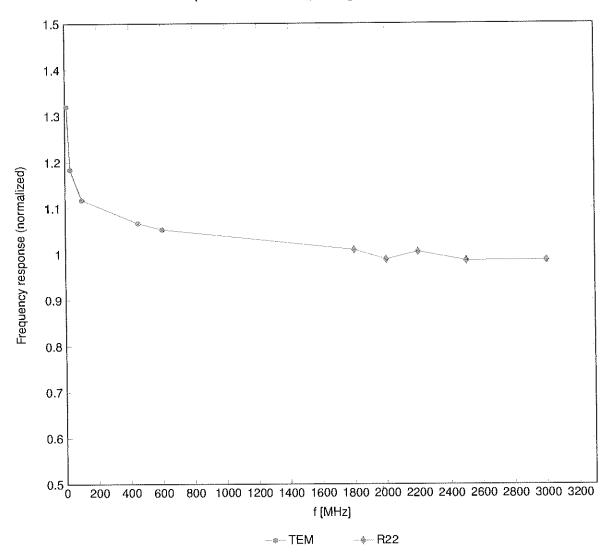
Certificate No: EX-7639\_Nov23 Page 6 of 22

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

<sup>&</sup>lt;sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±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.

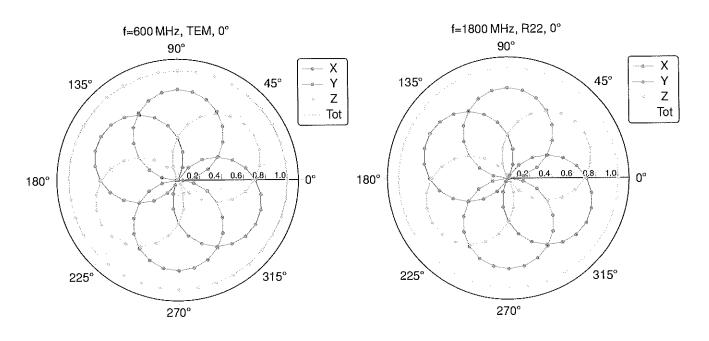
# Frequency Response of E-Field

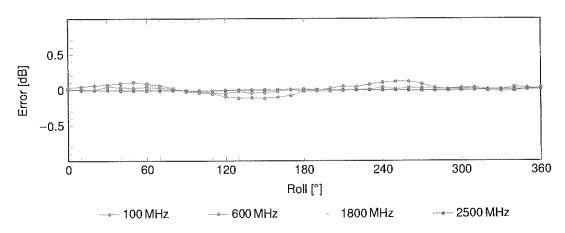
(TEM-Cell:ifi110 EXX, Waveguide:R22)



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

# Receiving Pattern ( $\phi$ ), $\vartheta$ = 0°

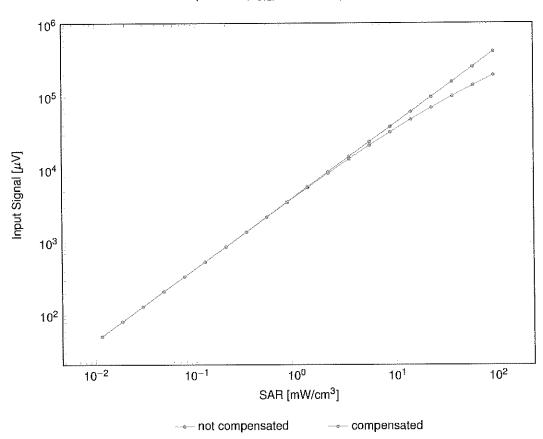


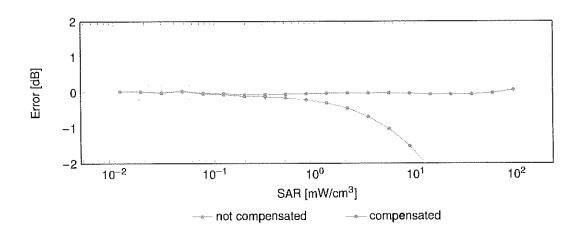


Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

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

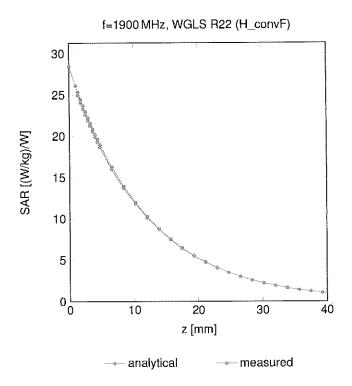
(TEM cell,  $f_{eval} = 1900\,\text{MHz})$ 





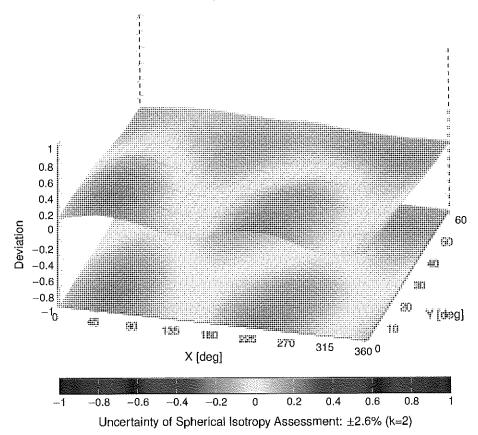
Uncertainty of Linearity Assessment: ±0.6% (k=2)

## **Conversion Factor Assessment**



# **Deviation from Isotropy in Liquid**

Error  $(\phi, \theta)$ , f = 900 MHz



# **Appendix: Modulation Calibration Parameters**

T in I	<b></b> 1	O	Group	PAR (dB)	Unc <sup>E</sup> k = 2
UID	Rev	Communication System Name CW	CW	0.00	±4.7
0	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10010	CAC	UMTS-FDD (WCDMA)	WCDMA	2,91	±9.6
10011	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10012	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10013	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10021	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	±9.6
10024		EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0/1)	GSM	9.55	±9.6
	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	3.55	±9.6
10028	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.6
10029		IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10033	CAA		Bluetooth	4.53	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (Pl/4-DQPSK, DH3)	Bluetooth	3.83	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)  IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
10036	CAA		Bluetooth	4.77	±9.6
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.10	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	CDMA2000	4.10	±9.6
10039	CAB	CDMA2000 (1xRTT, RC1) IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6
10042	CAB		AMPS	0.00	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	DECT	13.80	±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	10.79	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	TD-SCDMA	11.01	±9.6
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	GSM	6.52	±9.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	WLAN	2.12	±9.6
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.83	±9.6
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	3.60	±9.6
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	8.68	±9.6
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.63	±9.6
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	9.09	±9.6
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.00	±9.6
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.38	±9,6
10066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	10.12	±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)		9.83	±9.6
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN		±9.6
10072		IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	
10073		IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074		IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN WLAN	10.30	±9.6 ±9.6
10075		IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)			
10076		IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
10077		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		IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10090		GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097		UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
10098		UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
10099		EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100		LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101		LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102		LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10103			LTE-TDD	9.29	±9.6
10104			LTE-TDD	9.97	±9.6
10105			LTE-TDD	10.01	±9.6
10108	CAH		LTE-FDD	5.80	±9.6
10109	CAH		LTE-FDD	6.43	±9.6
10110	CAH		LTE-FDD	5,75	±9.6
		LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6

			Group	PAR (dB)	Unc <sup>E</sup> $k=2$
UID	Rev	Communication System Name LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6
10112	CAH CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10113	CAD	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10114	CAD	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
10116	CAD	IEEE 802,11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
10117	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
10117	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6
10118	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6
10119	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
10149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9,6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10159	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
10162	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6
	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
10167		LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5,73	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10170	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6,49	±9.6
<u> </u>			LTE-TDD	9.21	±9.6
10172 10173		LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TOD	9.48	±9.6
10173		LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10174			LTE-FDD	5.72	±9.6
10176		LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10176		LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6
10177			LTE-FDD	6.52	±9.6
			LTE-FDD	6.50	±9.6
10179			LTE-FDD	6.50	±9,6
10180		LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6
10181		LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10182		LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10183		LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10184		LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
1	****	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10186			LTE-FDD	5.73	±9.6
10187			LTE-FDD	6.52	±9,6
10188			LTE-FDD	6.50	±9.6
10189			WLAN	8.09	±9.6
10193			WLAN	8.12	±9.6
10194 10195			WLAN	8.21	±9.6
10195			WLAN	8.10	±9.6
			WLAN	8.13	±9.6
10197			WLAN	8.27	±9.6
10198			WLAN	8.03	±9.6
10219			WLAN	8.13	±9.6
10220			WLAN	8.27	±9.6
10221			WLAN	8.06	±9.6
10222			WLAN	8.48	±9.6
10223			WLAN	8.08	±9.6
10224	I CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	AAFWIA	1 0.00	1 ±0.0

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> <i>k</i> = 2
10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6
10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TOD	9.19	±9.6
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9,6
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TOD	9.21	±9.6
10235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9,21	±9.6
10238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9,6
10240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9.6
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9,6
10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10,06	±9.6
10246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
10248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9,6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6
10250	CAH		LTE-TDD	9.81	±9.6
10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9,6
10254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6
10257	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TOD	10.08	±9.6
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TOD	9.97	±9.6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TOD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-TDD	9.83	±9.6 ±9.6
10263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)	LTE-TDD	9.23	±9.6
10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TOD	9.23	±9.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	10.07	±9.6
10266	CAH		LTE-TDD	9.30	±9.6
10267	CAC		LTE-TDD	10.06	±9.6
10268	CAG		LTE-TDD	10.13	±9,6
10269	CAG		LTE-TDD	9,58	±9.6
10270 10274		UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6
10274		UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
10275			PHS	11.81	±9.6
10277		PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
10278		PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.6
10279		CDMA2000, RC1, SO55, Full Rate	CDMA2000	3,91	±9.6
10290	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10292		CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9,6
10292		CDMA2000, RC3, SO3, Full Rate	GDMA2000	3,50	±9.6
10295		CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
10293		LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5,81	±9.6
10298		LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5,72	±9.6
10299		LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300		LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10300		IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WIMAX	12.03	±9.6
10302		IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WiMAX	12.57	±9.6
10302			WiMAX	12.52	±9.6
10304			WiMAX	11.86	±9.6
10304			WiMAX	15.24	±9.6
10306			WIMAX	14.67	±9.6
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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> <i>k</i> = 2
10307	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WiMAX	14.49	±9.6
10308	AAA	IEEE 802,16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WiMAX	14.46	±9.6
10309	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WiMAX	14.58	±9.6
10310	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WiMAX	14.57	±9,6
10311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6
10313	AAA	iDEN 1:3	IDEN	10.51	±9.6
10314	AAA	IDEN 1:6	IDEN	13.48	±9.6
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10317	AAD	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	±9.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
10400	AAE	IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
10401	AAE	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10402	AAE	IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	GDMA2000	5.22	±9.6
10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10417	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	±9.6
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8,19	±9,6
10422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	±9.6
10423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	±9.6
10424	AAC	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	±9.6
10425	AAC	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6
10426	AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	±9.6
10427	AAC	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8,41	±9.6
10430	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8,38	±9.6
10432	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10433	AAD		LTE-FDD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
10435	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10448	-	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9,6
10449		LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7,51	±9.6
10450		LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9,6
10451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10453		Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
10456		IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.6
10457		UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6
10458		CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
10459		CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
10460		UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9,6
10461		LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10462			LTE-TOD	8.30 8.56	±9.6 ±9.6
10463		LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7,82	±9.6
10464			LTE-TOD		
10465			LTE-TDD	8.32	±9.6
10466			LTE-TOD	8.57	±9.6
10467			LTE-TOD	7.82	±9.6
10468			LTE-TDD	8.32	±9.6
10469			LTE-TDD	8.56	±9.6
		LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10470 10471			LTE-TDD	8.32	±9.6

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10472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10478	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	±9.6
10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8,45	±9.6
10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	±9.6
10483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8,39	±9.6
10484	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10485	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	±9.6
10486	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	±9.6
10487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	±9.6
10488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	±9.6
10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8,54	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9,6
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10495	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6
10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.67	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6
10502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	±9.6
10503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6
10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6
10508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	±9.6
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	±9.6
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	±9.6
10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10518	AAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10519	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6
10520	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9,6
10521	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6
10522	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10523	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
10524	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9.6
10525	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.36	±9.6
10526	AAC	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.6
10527	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6
10528	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	±9.6
10529	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.36	±9.6
10531		IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.43	±9.6
10532	AAC	IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10533	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.6
10534	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	±9.6
10535	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.6
10536		IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6
10537	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
10538	AAC	IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.54	±9.6
1	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc duty cycle)	WLAN	8,39	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> <i>k</i> = 2
10541	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6
10542	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	±9.6
10543	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
10544	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
10545	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10546	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
10547	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6
10548	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
10550	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
10551	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6
10552	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.6
10553	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
10554	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
10555	AAD	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
10556	AAD	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
10557	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.6
10558	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.61	±9.6
10560	AAD	IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9.6
10561	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9.6
10562	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
10563	AAD	IEEE 802,11ac WiFi (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8,10	±9.6
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6 ±9.6
10583	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN WLAN	8.59	±9.6 ±9.6
10584	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)		8.60	
10585		IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9,6
10586	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10587	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10588	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76 8.35	±9.6 ±9.6
10589	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN	8.35	±9.6
10590		IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.63	±9.6
10591	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
10592		IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle) IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6
10593			WLAN	8.74	±9.6
10594		IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10595		IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle) IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
10596			WLAN	8.72	±9.6
10597		IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle) IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
10598		IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)  IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
10599		IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)  [EEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10600			WLAN	8.82	±9.6
10601		IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.94	±9.6
10602		IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
10603		IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	8.76	±9.6
10604		IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	8.97	±9.6
	AAC				±9.6
10605	1 440	- 1 IEEEE 000 11s /UT Mivad AOMALis MCVフ ODsa dotu avala)			
10605 10606 10607		IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN WLAN	8.82 8.64	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> $k=2$
10609	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
10609	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
10611	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAC	IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9,6
10613	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duly cycle)	WLAN	8.94	±9.6
10614	AAC	IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)	WLAN	8,59	±9,6
10615	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10616	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10618	AAC	iEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	AAC	IEEE 802,11ac WiFi (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
10620	AAC	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAC	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
10623	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10624	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6
10625	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6
10626	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10627	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10628	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9.6
10629	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10630	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
10631	AAC	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6
10632	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9,6
10633	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9,6
10634	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9,6
10635	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6
10636	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10637	AAD	IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10638	AAD	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6
10639	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10640	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6
10641	AAD	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6
10642	AAD	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9,06	±9.6
10643	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAD	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
10673	-	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
10674		IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10675		IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
10676			WLAN	8.77	±9.6
10677		IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10678		IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10679		IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8,89	±9.6
10680		IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
10682		IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
10683			WLAN	8.42	±9.6
10684			WLAN	8.26	±9.6
10685			WLAN	8.33	±9.6
10686	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6

			Group	PAR (dB)	Unc <sup>E</sup> $k=2$
UID	Rev	Communication System Name	WLAN	8.45	±9.6
10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle) IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
10688	AAC	IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6
10689	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6
10690	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
10692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9,6
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8,25	±9.6
10694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6
10695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6
10696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
10697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6
10698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
10699	AAC	IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.82	±9.6
10700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
10701	AAC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6
10702	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6
10703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
10705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6
10706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9,6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.6
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	±9.6
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN WLAN	8.48 8.24	±9.6 ±9.6
10718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.81	±9.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.87	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.6
10721 10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 802,11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8,70	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6
10729		[EEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6
10730		IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10732		IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
10734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.25	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9.6
10736		IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	±9.6
10737		IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6
10738		IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10739		IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	±9.6
10740		IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
10741		IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
10742		IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
10743			WLAN	8.94	±9.6
10744			WLAN WLAN	9.16 8.93	±9.6 ±9.6
10745			WLAN	9.11	±9.6
10746			WLAN	9.11	±9.6 ±9.6
10747			WLAN	8.93	±9.6
10748			WLAN	8.90	±9.6
10749 10750			WLAN	8.79	±9.6
10750			WLAN	8.82	±9.6
10751			WLAN	8.81	±9.6
10732	AAU	TIELE GOET TAN (100 MILE, MODO, GOPO GOLY OYOIG)	1		

		O Latin Contain Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
UID	Rev	Communication System Name IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6
10753	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8.64	±9.6
10755	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
10756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
10757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.69	±9.6
10758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.58	±9,6
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.49	±9.6
10760	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
10763	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10765 10766	AAC	IEEE 802,11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
		5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7,99	±9.6
10767	AAE AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10768		5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10770		5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 KHz)	5G NR FR1 TDD	8.02	±9.6
10771 10772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9,6
10772	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6
10773	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10774	AAD	5G NR (CP-OFDM, 1 NB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9,6
	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10776 10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10777	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10778	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	±9.6
107780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10781	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10782	AAD	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
10783	AAE	5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.31	±9.6
10784	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,29	±9.6
10785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.6
10786	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10788	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10789	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	±9.6
10790	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10791	AAE	5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 30kHz)	5G NR FR1 TDD	7.83	±9.6
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9,6
10794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9,6
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10797	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	±9.6
10798	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10799	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10801	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10802	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
10803		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		5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±9.6
10809		5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10810		5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10812	-	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10817		5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10818		5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10819		5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
10820			5G NR FR1 TDD		±9.6
10821		5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10822		5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10823	AAD		5G NR FR1 TDD		±9.6
10824		5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
			5G NR FR1 TDD		±9.6
10825			TO NO EDITOR	0.40	1 .00
10825		5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6

r			Group	PAR (dB)	Unc <sup>E</sup> <i>k</i> = 2
UID	Rev	Communication System Name 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9.6
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
10830	AAD AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.6
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	±9.6
10832	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9,6
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	±9.6
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10836	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	±9.6
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	±9,6
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	±9.6
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7,71	±9.6
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	±9.6
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9,6
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8,40	±9.6
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10864	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8,37	±9,6
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,68	±9.6
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
10869	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86 5.75	±9.6 ±9.6
10871	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
10872	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10874	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10876	AAE	5G NR (CP-OFDM, 1 NB, 100 MHz, 16QAM, 120 KHz)	5G NR FR2 TDD	7.95	±9.6
10877	AAE	5G NR (CP-OFDM, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10878	AAE	5G NR (CP-OFDM, 10078118), 10078118, 10078118, 10078118	5G NR FR2 TDD	8.12	±9.6
10879	AAE	5G NR (CP-OFDM, 1105, 180 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8,38	±9.6
10881	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10882		5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
10883		5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9,6
10884		5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
10885		5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10886		5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10887	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10888		5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
10889		5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	±9.6
10890		5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD		±9.6
10891	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD		±9.6
10892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD		±9.6
10897	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10898	AAB	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10900	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10901		5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10902		5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10903			5G NR FR1 TDD		±9.6
10904			5G NR FR1 TDD		±9.6
10905			5G NR FR1 TDD		±9.6
10906			5G NR FR1 TDD		±9.6
10907			5G NR FR1 TDD		±9.6
10908			5G NR FR1 TDD		±9.6 ±9.6
10909			5G NR FR1 TDC		±9.6
10910	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	JUNITALIDE	1 3.03	

	_	Company of the Control Management	Group	PAR (dB)	$Unc^{E} k = 2$
UID	Rev	Communication System Name  5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10911	AAB AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10912	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10916	AAB	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10918	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9,6
10919	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10921	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6
10923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9,6
10926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD 5G NR FR1 FDD	5.90 5.82	±9.6 ±9.6
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10941	AAC	5G NR (DFT-S-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10942	AAD	5G NR (DFT-S-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10943	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10945	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9,6
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	±9.6
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	±9.6
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.6
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)	5G NR FR1 TDD	9.32	±9.6
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	9.40 9.55	±9.6 ±9.6
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
10964		5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)  5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
10965 10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 KHz)	5G NR FR1 TDD	9.55	±9.6
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 13 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	±9.6
10968	_i	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	±9.6
10972		5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	±9.6
10973		5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
10974		5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
10978	<del></del>	ULLA BDR	ULLA	1.16	±9.6
10979		ULLA HDR4	ULLA	8.58	±9.6
10980		ULLA HDR8	ULLA	10.32	±9.6
10981	AAA	ULLA HDRp4	ULLA	3.19	±9.6
10982	AAA	ULLA HDRp8	ULLA	3.43	±9.6
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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> $k = 2$
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9,6
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	<u>+</u> 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
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	10.24	±9,6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.70	±9.6
11006	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.55	±9.6
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.46	±9.6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.51	±9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.76	±9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	±9.6
11013	AAA	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8,47	±9.6
11014	AAA	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8,45	±9.6
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
11016	AAA	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8,44	±9.6
11017	AAA	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8.41	±9.6
11018	AAA	IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)	WLAN	8.40	±9.6
11019	AAA	IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
11020	AAA	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	±9.6
11021	AAA	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±9.6
11022	AAA	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9.6
11023	AAA	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	±9.6
11024	AAA	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±9.6
11025	AAA	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	±9.6
11026	AAA	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	±9.6

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