

0 dB = 10.2 W/kg = 10.09 dBW/kg

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



S Schweizerischer Kalibrierdienst

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S 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

Accreditation No.: S	SCS 01	<b>08</b>
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Certificate No: D1900V2-5d080\_Oct18

Client PC Test

	D1900V2 - SN:50	1080	
alibration procedure(s)	QA CAL-05.v10 Calibration proce	dure for dipole validation kits abo	
			$BN^{1/2}$ 10-30-2018 $BN^{1/2}$ ts of measurements (SI). $10-20-2$
alibration date:	October 23, 2018		10-30-2018
he measurements and the uncerta	aintles with confidence p ed in the closed laborato	onal standards, which realize the physical uni robability are given on the following pages an ry facility: environment temperature (22 $\pm$ 3)°C	d are part of the certificate.
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
ower meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
ower sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
ower sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
leference 20 dB Attenuator	SN: 5058 (20k)	04-Apr-18 (No. 217-02682)	Apr-19
ype-N mismatch combination	SN: 5047.2 / 06327	04-Apr-18 (No. 217-02683)	Apr-19
	SN: 7349	30-Dec-17 (No. EX3-7349_Dec17)	Dec-18
eterence Probe EX3DV4		,	
	SN: 601	04-Oct-18 (No. DAE4-601_Oct18)	Oct-19
Reference Probe EX3DV4 DAE4 Secondary Standards	SN: 601	04-Oct-18 (No. DAE4-601_Oct18) Check Date (in house)	Oct-19 Scheduled Check
AE4 secondary Standards	1		
AE4 econdary Standards /ower meter EPM-442A	1D #	Check Date (in house)	Scheduled Check
AE4 econdary Standards ower meter EPM-442A ower sensor HP 8481A	ID # SN: GB37480704	Check Date (in house) 07-Oct-15 (in house check Oct-18)	Scheduled Check In house check: Oct-20
AE4 econdary Standards ower meter EPM-442A ower sensor HP 8481A ower sensor HP 8481A	ID # SN: GB37480704 SN: US37292783	Check Date (in house) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18)	Scheduled Check In house check: Oct-20 In house check: Oct-20
DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06	ID # SN: GB37480704 SN: US37292783 SN: MY41092317	Check Date (in house) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18)	Scheduled Check In house check: Oct-20 In house check: Oct-20 In house check: Oct-20
DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer Agilent E8358A	ID # SN: GB37480704 SN: US37292783 SN: MY41092317 SN: 100972 SN: US41080477 Name	Check Date (in house) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18) 15-Jun-15 (in house check Oct-18) 31-Mar-14 (in house check Oct-18) Function	Scheduled Check In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20
DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06	ID # SN: GB37480704 SN: US37292783 SN: MY41092317 SN: 100972 SN: US41080477	Check Date (in house) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18) 15-Jun-15 (in house check Oct-18) 31-Mar-14 (in house check Oct-18)	Scheduled Check In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-19
AE4 econdary Standards ower meter EPM-442A ower sensor HP 8481A ower sensor HP 8481A F generator R&S SMT-06 letwork Analyzer Agilent E8358A	ID # SN: GB37480704 SN: US37292783 SN: MY41092317 SN: 100972 SN: US41080477 Name	Check Date (in house) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18) 15-Jun-15 (in house check Oct-18) 31-Mar-14 (in house check Oct-18) Function	Scheduled Check In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-19

## **Calibration Laboratory of**

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#### **Glossary:**

TO	Atomical advantation of Hannial
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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

## Additional Documentation:

e) DASY4/5 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%.

Accreditation No.: SCS 0108

### **Measurement Conditions**

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

DASY Version	DASY5	V52.10.2
Extrapolation	Advanced Extrapolation	VJZ.10.2
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

#### **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.3 ± 6 %	1.40 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	9.93 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	39.8 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	5.18 W/kg

#### **Body TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.9 ± 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	9.62 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	39.2 W/kg ± 17.0 % (k=2)

SAR averaged over 10 $\text{cm}^3$ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.09 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.6 W/kg ± 16.5 % (k=2)

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

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.5 Ω + 7.9 jΩ
Return Loss	- 21.8 dB

#### Antenna Parameters with Body TSL

Impedance, transformed to feed point	48.1 Ω + 8.1 jΩ
Return Loss	- 21.5 dB

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

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
Manufactured on	June 28, 2006

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

Date: 23.10.2018

Test Laboratory: SPEAG, Zurich, Switzerland

#### DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d080

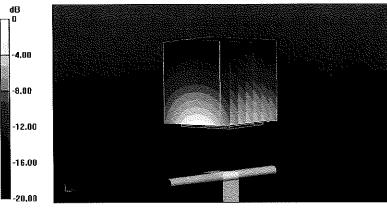
Communication System: UID 0 - CW; Frequency: 1900 MHz Medium parameters used: f = 1900 MHz;  $\sigma = 1.4$  S/m;  $\varepsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.18, 8.18, 8.18) @ 1900 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.10.2018
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

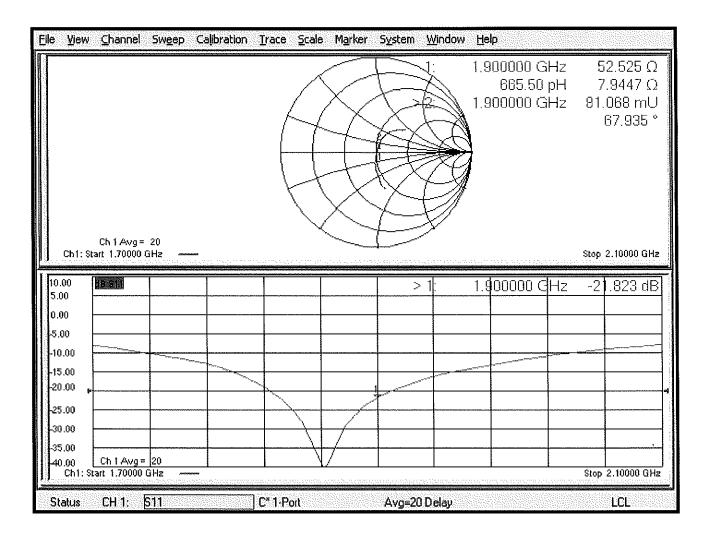
#### Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 110.0 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 18.7 W/kg SAR(1 g) = 9.93 W/kg; SAR(10 g) = 5.18 W/kg Maximum value of SAR (measured) = 15.6 W/kg



0 dB = 15.6 W/kg = 11.93 dBW/kg

## Impedance Measurement Plot for Head TSL



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

Date: 23.10.2018

Test Laboratory: SPEAG, Zurich, Switzerland

#### DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d080

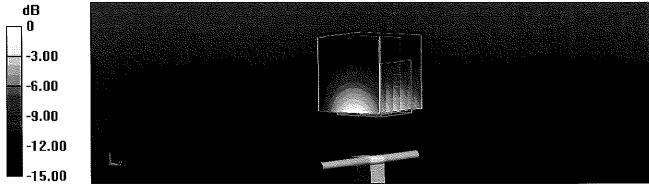
Communication System: UID 0 - CW; Frequency: 1900 MHz Medium parameters used: f = 1900 MHz;  $\sigma$  = 1.47 S/m;  $\epsilon_r$  = 52.9;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY52 Configuration:

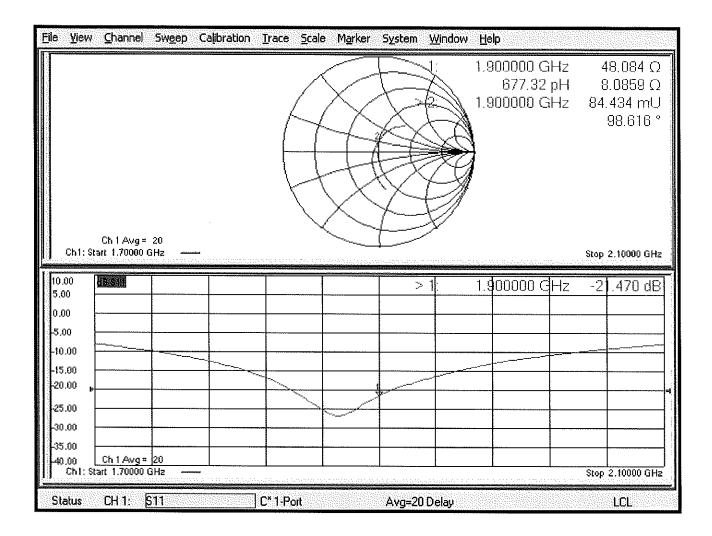
- Probe: EX3DV4 SN7349; ConvF(8.15, 8.15, 8.15) @ 1900 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.10.2018
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

#### 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 = 99.86 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 17.3 W/kg SAR(1 g) = 9.62 W/kg; SAR(10 g) = 5.09 W/kg Maximum value of SAR (measured) = 14.1 W/kg



0 dB = 14.1 W/kg = 11.49 dBW/kg





PCTEST ENGINEERING LABORATORY, INC. 7185 Oakland Mills Road, Columbia, MD 21046 USA Tel. +1.410.290.6652 / Fax +1.410.290.6654

http://www.pctest.com



# **Certification of Calibration**

Object

D1900V2 - SN:5d080

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

October 18, 2019

Extended Calibration date:

Description:

SAR Validation Dipole at 1900 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291470
Control Company	4352	Ultra Long Stem Thermometer	8/2/2018	Biennial	8/2/2020	181334684
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433971
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	7/2/2019	Annual	7/2/2020	MY53401181
Rohde & Schwarz	ZNLE6	Vector Network Analyzer	10/11/2019	Annual	10/11/2020	101307
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/13/2019	Annual	8/13/2020	1041
Anritsu	MA2411B	Pulse Power Sensor	8/14/2019	Annual	8/14/2020	1315051
Anritsu	MA2411B	Pulse Power Sensor	8/8/2019	Annual	8/8/2020	1339008
Anritsu	ML2495A	Power Meter	11/20/2018	Annual	11/20/2019	1039008
Agilent	N5182A	MXG Vector Signal Generator	8/19/2019	Annual	8/19/2020	MY47420837
Seekonk	NC-100	Torque Wrench	5/9/2018	Biennial	5/9/2020	22217
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
MiniCircuits	ZHDC-16-63-S+	Bidirectional Coupler	CBT	N/A	CBT	N/A
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
SPEAG	EX3DV4	SAR Probe	2/19/2019	Annual	2/19/2020	3914
SPEAG	EX3DV4	SAR Probe	5/16/2019	Annual	5/16/2020	7406
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/8/2019	Annual	5/8/2020	859
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/14/2019	Annual	2/14/2020	1272

Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path.

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

	Name	Function	Signature
Calibrated By:	Brodie Halbfoster	Team Lead Engineer	BRODIE HALBFOSTER
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	XOK

Object:	Date Issued:	Page 1 of 4
D1900V2 – SN: 5d080	10/18/2019	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:

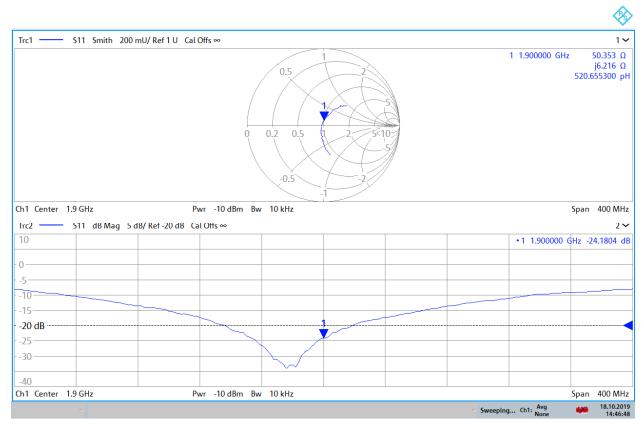
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance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

The following dipole was checked to pass the above 3 requirements to have 2-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	(96)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	Measured Head SAR (10g) W/kg @ 20.0 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	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
10/23/2018	10/18/2019	1.193	3.98	4.16	4.52%	2.07	2.13	2.90%	52.5	50.4	2.1	7.9	6.2	1.7	-21.8	-24.2	-10.90%	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/)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	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
10/23/2018	10/18/2019	1.193	3.92	4.21	7.40%	2.06	2.16	4.85%	48.1	46.5	1.6	8.1	6.6	1.5	-21.5	-22.2	-3.40%	PASS

Object:	Date Issued:	Dogo 2 of 4
D1900V2 – SN: 5d080	10/18/2019	Page 2 of 4

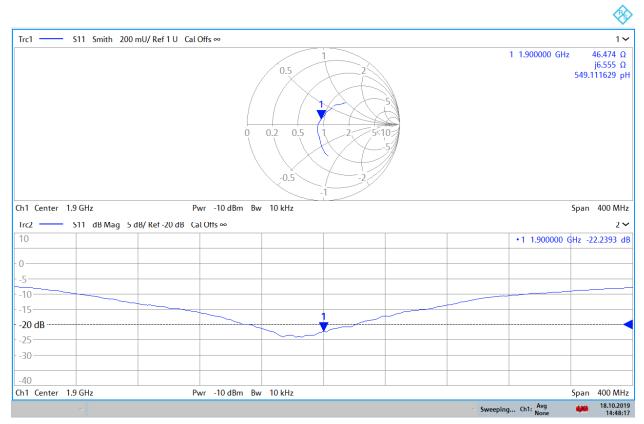
#### Impedance & Return-Loss Measurement Plot for Head TSL



14:46:49 18.10.2019

Object:	Date Issued:	Page 3 of 4
D1900V2 – SN: 5d080	10/18/2019	Fage 5 01 4

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



14:48:18 18.10.2019

Object:	Date Issued:	Page 4 of 4
D1900V2 – SN: 5d080	10/18/2019	Fage 4 01 4

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

PC Test

Client





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Certificate No: D1900V2-5d148\_Feb19

Accreditation No.: SCS 0108

CALIBRATIONEC	ERIFICAT		
Object	D1900V2 - SN:5	d148	
Calibration procedure(s)	QA CAL-05 v11 Calibration Proc	edure for SAR Validation Source	
Calibration date:	February 21, 20	9	inits of measurements (SI). $02-26^{-23}$
This calibration certificate docume	ots the traceability to pat	ional standarda which makes the short start	m2-26/2
The measurements and the uncert	tainties with confidence r	ional standards, which realize the physical u probability are given on the following pages a	Inits of measurements (SI).
		ry facility: environment temperature ( $22 \pm 3$ )	
Calibration Equipment used (M&T		,	
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: 5058 (20k)	04-Apr-18 (No. 217-02682)	Apr~19
Type-N mlsmatch combination	SN: 5047.2 / 06327	04-Apr-18 (No. 217-02683)	Apr-19
Reference Probe EX3DV4	SN: 7349	31-Dec-18 (No. EX3-7349 Dec18)	Dec-19
DAE4	SN: 601	04-Oct-18 (No. DAE4-601_Oct18)	Oct-19
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	07-Oct-15 (in house check Feb-19)	In house check; Oct-20
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-18)	In house check: Oct-20
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (In house check Oct-18)	In house check: Oct-20
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-18)	In house check: Oct-20
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19
	Name	Function	Simeture
Calibrated by:	Manu Seltz	สพิทธิสิทธิสติสติสติสติสติสติสติสติสติสติสติสติสติ	Signature
		Laboratory Technician	ALL
Approved by:	Kalja Pokovic	Technical Manager	
			to to the
			Issued: February 21, 2019

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

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#### Glossary:

TSL	tissue simulating liquid
IOL	<b>U</b>
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

## Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

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- 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.
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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%.

Accreditation No.: SCS 0108

### **Measurement Conditions**

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

DASY Version	DASY5	V52.10.2
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

### Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.9 ± 6 %	1.38 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	9.65 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	39.1 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	5.05 W/kg

#### **Body TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	53.6 ± 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	9.56 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	39.1 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	5.05 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.5 W/kg ± 16.5 % (k=2)

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

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.8 Ω + 6.8 jΩ
Return Loss	- 23.2 dB

#### Antenna Parameters with Body TSL

Impedance, transformed to feed point	48.4 Ω + 7.8 jΩ
Return Loss	- 21.9 dB

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

Electrical Delay (one direction)	
	1.170 ns
	1370115

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
	JEAG

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

Date: 21.02.2019

Test Laboratory: SPEAG, Zurich, Switzerland

## DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d148

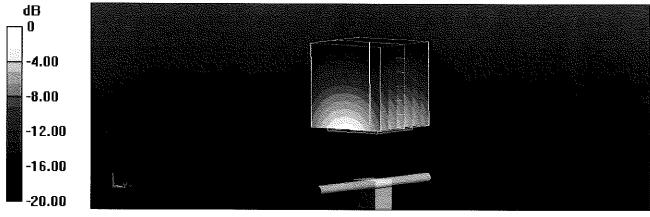
Communication System: UID 0 - CW; Frequency: 1900 MHz Medium parameters used: f = 1900 MHz;  $\sigma = 1.38$  S/m;  $\varepsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.26, 8.26, 8.26) @ 1900 MHz; Calibrated: 31.12.2018
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.10.2018
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 109.4 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 17.8 W/kg **SAR(1 g) = 9.65 W/kg; SAR(10 g) = 5.05 W/kg** Maximum value of SAR (measured) = 15.0 W/kg



0 dB = 15.0 W/kg = 11.76 dBW/kg

# Impedance Measurement Plot for Head TSL

<u>File Viev</u>	v <u>C</u> hannel Sw <u>e</u> e	ep Calibration <u>T</u> r	ace <u>S</u> cale M <u>a</u> r	'ker S <u>y</u> stem <u>Wi</u> ni	dow Help	
Ch1::	Ch 1 Awg = 20 Start 1.70000 GHz				1.900000 GHz 573.82 pH 1.900000 GHz	51.822 Ω 6.8503 Ω 69.458 mU 71.260 °
10.00 5.00 -5.00 -10.00 -15.00 -20.00 -25.00 -30.00 -35.00 -40.00 Ch1: 5	Ch 1 Avg = 20 3tart 1.70000 GHz				1.900000 GHz	-23.166 dB
Status	CH 1: <u>811</u>	C*-	1-Port	Avg=20 Delay		Stop 2.10000 GHz

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

Date: 21.02.2019

Test Laboratory: SPEAG, Zurich, Switzerland

## DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d148

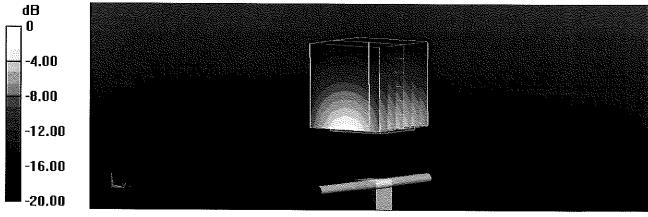
Communication System: UID 0 - CW; Frequency: 1900 MHz Medium parameters used: f = 1900 MHz;  $\sigma = 1.47$  S/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.23, 8.23, 8.23) @ 1900 MHz; Calibrated: 31.12.2018
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.10.2018
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 103.7 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 17.0 W/kg SAR(1 g) = 9.56 W/kg; SAR(10 g) = 5.05 W/kg Maximum value of SAR (measured) = 14.4 W/kg



0 dB = 14.4 W/kg = 11.58 dBW/kg

## Impedance Measurement Plot for Body TSL

File	View	Channel	Sweep	Calibration	<u>Trace</u> <u>S</u> c.	ale M <u>a</u> rker	System	Window	Help			
		Ch1Avg=				XXX			1.900000 G 652.32 1.900000 G	pН	48.446 Ω 7.7874 Ω 80.412 mU 96.762 °	
		rt 1.70000 (					-4			S	top 2,10000 GHz	
10.0	no 16	THE REAL PROPERTY OF THE PROPERTY OF THE REAL PROPE	7			Contraction of the second s		The second se	The second s			
5.0 0.0 -5.0 -10. -15. -20. -25. -30. -35. -40. (		Ch 1 Awg = rt 1.70000 c	20 3Hz								-21.894 dB	





# **Certification of Calibration**

Object

D1900V2 - SN: 5d148

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

2/21/2020

Extension Calibration date:

Description:

SAR Validation Dipole at 1900 MHz.

#### Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291470
Control Company	4352	Ultra Long Stem Thermometer	8/2/2018	Biennial	8/2/2020	181334684
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433971
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	7/2/2019	Annual	7/2/2020	MY53401181
Rohde & Schwarz	ZNLE6	Vector Network Analyzer	10/11/2019	Annual	10/11/2020	101307
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
SPEAG	DAKS-3.5	Portable DAK	9/10/2019	Annual	9/10/2020	1045
Anritsu	MA2411B	Pulse Power Sensor	8/14/2019	Annual	8/14/2020	1315051
Anritsu	MA2411B	Pulse Power Sensor	8/8/2019	Annual	8/8/2020	1339008
Anritsu	ML2495A	Power Meter	12/17/2019	Annual	12/17/2020	941001
Agilent	N5182A	MXG Vector Signal Generator	8/19/2019	Annual	8/19/2020	MY47420837
Seekonk	NC-100	Torque Wrench	5/9/2018	Biennial	5/9/2020	22217
MiniCircuits	ZHDC-16-63-S+	Bidirectional Coupler	CBT	N/A	CBT	N/A
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
SPEAG	EX3DV4	SAR Probe	9/19/2019	Annual	9/19/2020	7551
SPEAG	EX3DV4	SAR Probe	7/16/2019	Annual	7/16/2020	7410
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/17/2019	Annual	9/17/2020	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/11/2019	Annual	7/11/2020	1322

Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Brodie Halbfoster	Test Engineer	BRODIE HALBFOSTER
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	XOK

Object:	Date Issued:	Page 1 of 4
D1900V2 – SN: 5d148	02/21/2020	Fage 1014

## **DIPOLE CALIBRATION EXTENSION**

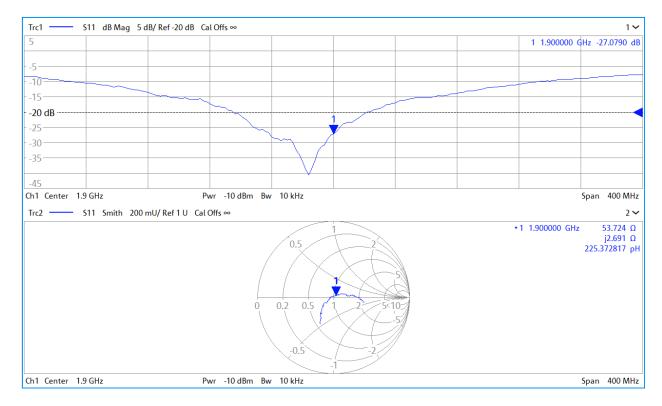
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- 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 2-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	(0/)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	(40-) 10/0	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	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
2/21/2019	2/21/2020	1.17	3.91	4.15	6.14%	2.04	2.13	4.41%	51.8	53.7	1.9	6.8	2.7	4.1	-23.2	-27.1	-16.70%	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/)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	(40-) 1000-0	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
2/21/2019	2/21/2020	1.17	3.91	4.06	3.84%	2.05	2.08	1.46%	48.4	50.9	2.5	7.8	5.4	2.4	-21.9	-25.3	-15.60%	PASS

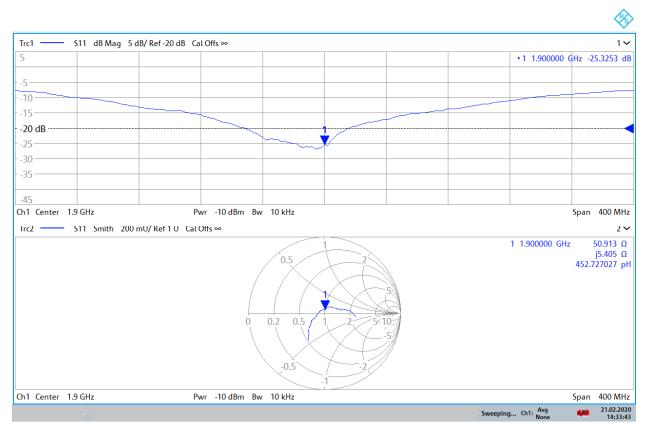
Object:	Date Issued:	Page 2 of 4
D1900V2 – SN: 5d148	02/21/2020	Faye 2 01 4



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

Object:	Date Issued:	Daga 2 of 4
D1900V2 – SN: 5d148	02/21/2020	Page 3 of 4

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



14:33:44 21.02.2020

Object:	Date Issued:	Page 4 of 4
D1900V2 – SN: 5d148	02/21/2020	Fage 4 01 4

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





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S 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

Accreditation No.: SCS 0108

PC Test Client Certificate No: D2450V2-797\_Sep17 . . **CALIBRATION CERTIFICATE** 

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Object	D2450V2 - SN:7	97	
Calibration procedure(s)	QA CAL-05.v9 Calibration proce	edure for dipole validation kits ab	10 05 150 01
Calibration date:	September 11, 2	017	Extended PMV J/20/2018
The measurements and the unce	rtainties with confidence p	ional standards, which realize the physical u probability are given on the following pages a ny facility: environment temperature (22 $\pm$ 3)	nits of measurements (SI). $BN^{4}$ are part of the certificate. $00 1_{0} 2_{0} 20^{19}$
Calibration Equipment used (M&T	E critical for calibration)		
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meier NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02522)	Apr-18 a Apr-18
Reference 20 dB Attenuator	SN: 505B (20k)	07-Apr-17 (No. 217-02528)	Apr-18
Type-N mismatch combination	SN: 5047.2 / 06327	07-Apr-17 (No. 217-02529)	Apr-18
Reference Probe EX3DV4	SN: 7349	31-May-17 (No. EX3-7349_May17)	May-18
DAE4	SN: 601	28-Mar-17 (No. DAE4-601_Mar17)	Mar-18
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17
	Name .	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technickan	Miller
Approved by:	Katja Pokovic	Technical Manager	Cliff
			Issued: September 11, 2017

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

#### **Calibration Laboratory of**

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





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- Service suisse d'étalonnage
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- S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

#### 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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

## Additional Documentation:

e) DASY4/5 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 ٠ nominal SAR result.

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

## **Measurement Conditions**

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

DASY Version	DASY5	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

## Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.8 ± 6 %	1.86 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

## SAR result with Head TSL

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SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.5 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.7 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	6.28 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.8 W/kg ± 16.5 % (k=2)

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## **Body TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.9 ± 6 %	2.04 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	13.1 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	51.1 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	6.14 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.2 W/kg ± 16.5 % (k=2)

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

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	53.8 Ω + 7.4 jΩ
Return Loss	~ 21.9 dB

#### Antenna Parameters with Body TSL

Impedance, transformed to feed point	49.7 Ω + 9.1 jΩ
Return Loss	- 20.9 dB

#### General Antenna Parameters and Design

Electrical Delay (one direction)	1.152 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
Manufactured on	January 24, 2006

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

Date: 11.09.2017

Test Laboratory: SPEAG, Zurich, Switzerland

#### DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 797

Communication System: UID 0 - CW; Frequency: 2450 MHz Medium parameters used: f = 2450 MHz;  $\sigma$  = 1.86 S/m;  $\epsilon_r$  = 37.8;  $\rho$  = 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(8.12, 8.12, 8.12); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

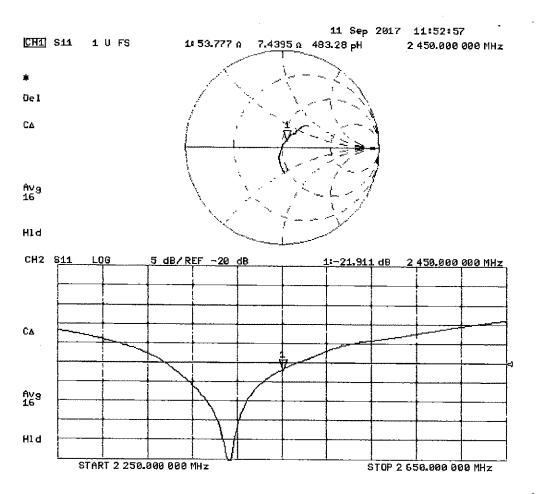
## Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 113.5 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 26.9 W/kg SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.28 W/kg Maximum value of SAR (measured) = 21.6 W/kg



#### 0 dB = 21.6 W/kg = 13.34 dBW/kg

Impedance Measurement Plot for Head TSL



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

Date: 11.09.2017

Test Laboratory: SPEAG, Zurich, Switzerland

#### DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 797

Communication System: UID 0 - CW; Frequency: 2450 MHz Medium parameters used: f = 2450 MHz;  $\sigma$  = 2.04 S/m;  $\epsilon_r$  = 51.9;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

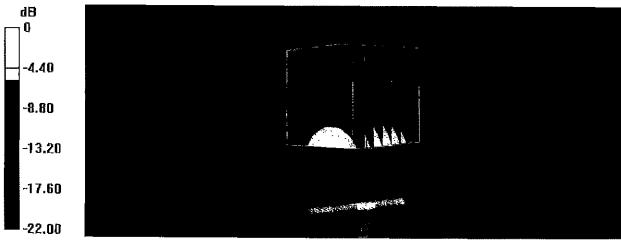
#### DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.1, 8.1, 8.1); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

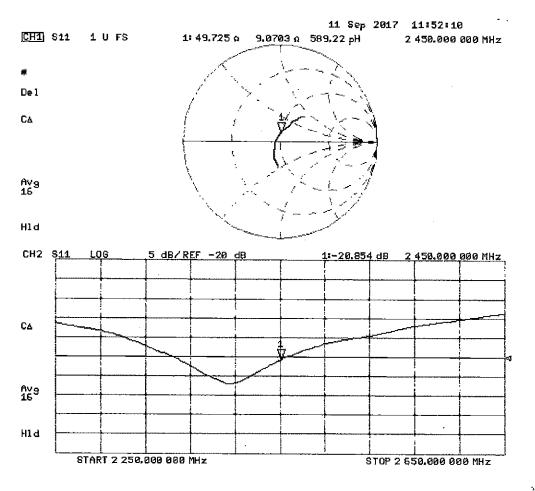
Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 105.4 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 25.6 W/kg SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.14 W/kg

Maximum value of SAR (measured) = 20.3 W/kg



 $0 \, dB = 20.3 \, W/kg = 13.07 \, dBW/kg$ 

Impedance Measurement Plot for Body TSL



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. . . . . . PCTEST ENGINEERING LABORATORY, INC. 7185 Oakland Mills Road, Columbia, MD

7185 Oakland Mills Road, Columbia, MD 21046 USA Tel. +1.410.290.6652 / Fax +1.410.290.6654 http://www.pctest.com



# **Certification of Calibration**

Object

D2450V2 - SN: 797

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

Extended Calibration date: September 11, 2018

Description:

SAR Validation Dipole at 2450 MHz.

#### Calibration Equipment used:

			n Kananananan		120000222000	
Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Control Company	4040	Therm./Clock/Humidity Monitor	3/31/2017	Blennial	3/31/2019	170232394
Control Company	4352	Ultra Long Stem Thermometer	5/2/2017	8iennial	5/2/2019	170330156
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433971
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Keysight	7720	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	85033E	Standard Mechanical Callbration Kit (DC to 9GHz, 3.5mm)	6/4/2018	Annual	6/4/2019	MY53401181
Agilent	8753ES	S-Parameter Vector Network Analyzer	8/30/2018	Annuai	8/30/2019	MY40003841
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/15/2018	Annual	5/15/2019	1070
SPEAG	EX3DV4	SAR Probe	7/20/2018	Annual	7/20/2019	7410
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/11/2018	Annual	7/11/2019	1322
SPEAG	ES3DV3	SAR Probe	3/13/2018	Annual	3/13/2019	3319
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/7/2018	Annual	3/7/2019	1368
Anritsu	MA2411B	Puise Power Sensor	3/2/2018	Annual	3/2/2019	1207364
Anritsu	MA2411B	Puise Power Sensor	3/2/2018	Annual	3/2/2019	1339018
Anritsu	ML2495A	Power Meter	10/22/2017	Annuəl	10/22/2018	1328004
Agllent	N5182A	MXG Vector Signal Generator	4/18/2018	Annual	4/18/2019	MY47420800
Seekonk	NC-100	Torque Wrench	7/11/2018	Annual	7/11/2019	N/A
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	Свт	N/A
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A

Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path.

#### Measurement Uncertainty = $\pm 23\%$ (k=2)

	Name	Function	Signature
Calibrated By:	Brodie Halbfoster	Team Lead Engineer	BRODIE HALBFOSTER
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	3XDK

Object:	Date Issued:	Page 1 of 4
D2450V2 - SN: 797	09/11/2018	rage rur4

## **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:

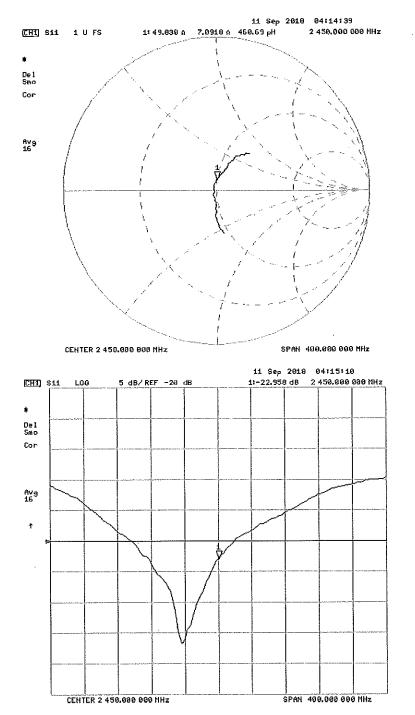
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance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

Calibration Date	Extension Date		Certificate SAR Target Head (1g) W/kg @ 20.0 dBm			Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	Head SAR		Certificate Impedance Head (Ohm) Real		Difference (Ohm) Real		Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
9/11/2017	9/11/2018	1.152	5.27	5.52	4.74%	2.48	2.54	2.42%	53.8	49.8	4	7.4	7.1	0.3	-21.9	-23	-4.80%	PASS

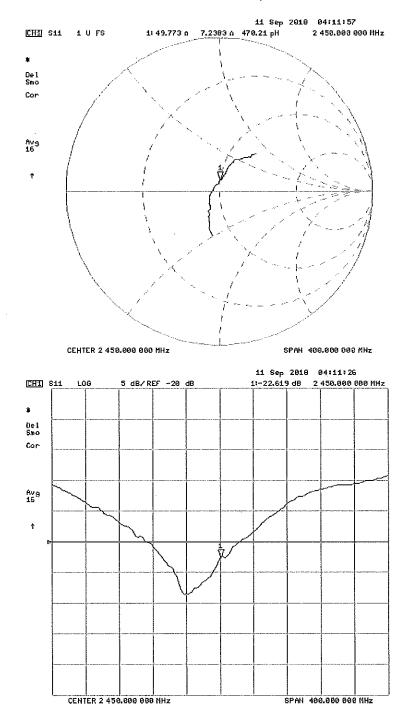
Calibration Date	Extension Date		Certificate SAR Target Body (1g) W/kg @ 20.0 dBm			Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	(10a) W/ka @	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real		Certificate Impedance Body (Ohm) Imaginary		Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
9/11/2017	9/11/2018	1.152	5.11	5.17	1.17%	2.42	2.37	-2.07%	49.7	49.8	0.1	9.1	7.2	1.9	-20.9	-22.6	-8.20%	PASS

Object:	Date Issued:	Dogo 2 of 4
D2450V2 – SN: 797	09/11/2018	Page 2 of 4



Impedance & Return-Loss Measurement Plot for Head TSL

Object:	Date Issued:	Page 3 of 4
D2450V2 SN: 797	09/11/2018	



Impedance & Return-Loss Measurement Plot for Body TSL

Object:	Date Issued:	Page 4 of 4
D2450V2 – SN: 797	09/11/2018	



PCTEST ENGINEERING LABORATORY, INC. 7185 Oakland Mills Road, Columbia, MD 21046 USA Tel. +1.410.290.6652 / Fax +1.410.290.6654

http://www.pctest.com



# **Certification of Calibration**

Object

D2450V2 - SN: 797

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

September 9, 2019

Extended Calibration date:

Description:

SAR Validation Dipole at 2450 MHz.

#### Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	10/2/2018	Annual	10/2/2019	US39170118
Agilent	N5182A	MXG Vector Signal Generator	6/27/2019	Annual	6/27/2020	US46240505
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	ML2495A	Power Meter	10/21/2018	Annual	10/21/2019	941001
Anritsu	MA2411B	Pulse Power Sensor	10/30/2018	Annual	10/30/2019	1207470
Anritsu	MA2411B	Pulse Power Sensor	11/20/2018	Annual	11/20/2019	1339007
Control Company	4040	Temperature / Humidity Monitor	2/28/2018	Biennial	2/28/2020	150761911
Control Company	4352	Ultra Long Stem Thermometer	2/28/2018	Biennial	2/28/2020	170330160
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	7/2/2019	Annual	7/2/2020	MY53401181
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	5/23/2018	Biennial	5/23/2020	N/A
SPEAG	EX3DV4	SAR Probe	2/19/2019	Annual	2/19/2020	7417
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/13/2019	Annual	2/13/2020	665
SPEAG	EX3DV4	SAR Probe	7/15/2019	Annual	7/15/2020	7547
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/11/2019	Annual	7/11/2020	1323
SPEAG	DAK-3.5	Dielectric Assessment Kit	9/11/2018	Annual	9/11/2019	1091

Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path.

#### Measurement Uncertainty = $\pm 23\%$ (k=2)

	Name	Function	Signature
Calibrated By:	Brodie Halbfoster	Team Lead Engineer	BRODIE HALBFOSTER
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	XOK

Object:	Date Issued:	Dogo 1 of 4
D2450V2 – SN: 797	09/9/2019	Page 1 of 4

## **DIPOLE CALIBRATION EXTENSION**

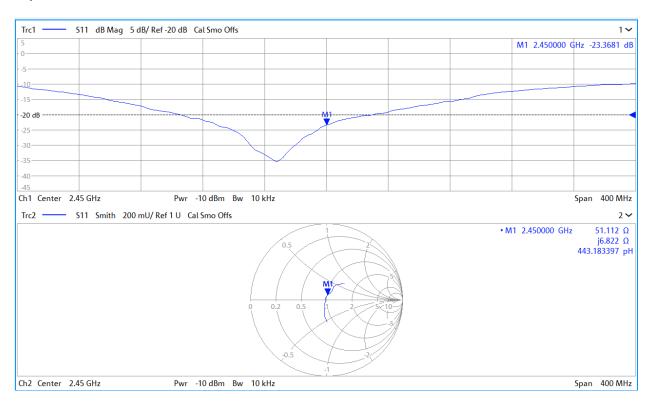
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- 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:

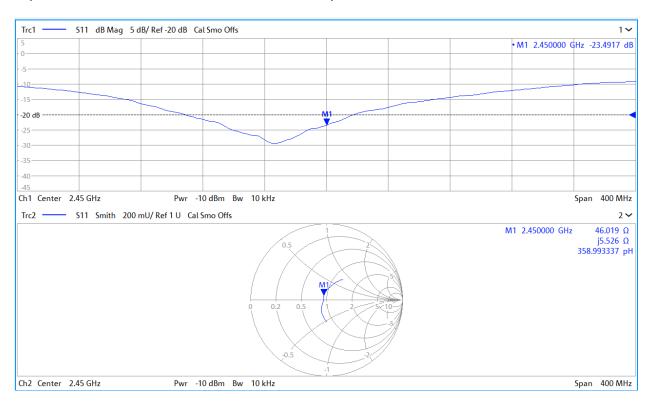
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 20.0 dBm	Measured Head SAR (1g) W/kg @ 20.0 dBm	(96)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	Measured Head SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
9/11/2017	9/9/2019	1.152	5.27	5.19	-1.52%	2.48	2.41	-2.82%	53.8	51.1	2.7	7.4	6.8	0.6	-21.9	-23.4	-6.70%	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/)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	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
9/11/2017	9/9/2019	1.152	5.11	5.17	1.17%	2.42	2.38	-1.65%	49.7	46	3.7	9.1	5.5	3.6	-20.9	-23.5	-12.40%	PASS

Object:	Date Issued:	Dogo 2 of 4
D2450V2 – SN: 797	09/9/2019	Page 2 of 4



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

Object:	Date Issued:	Dogo 2 of 4
D2450V2 – SN: 797	09/9/2019	Page 3 of 4



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

Object:	Date Issued:	Dege 4 of 4
D2450V2 – SN: 797	09/9/2019	Page 4 of 4

## **Calibration Laboratory of**

PC Test

Client

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



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S Swiss Calibration Service

Accreditation No.: SCS 0108

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

Certificate No: D2450V2-981\_Aug18

## CALIBRATION CERTIFICATE

Object	D2450V2 - SN:98	31. · · ·	
Calibration procedure(s)	QA CAL-05.v10	·	
	Calibration proce	dure for dipole validation kits ab	ove 700 MHz
		· · · · · · · · · · · · · · · · · · ·	BNV 09-26/2012 BNV 08/10/201
	••••	the second s	09-06/2012
Calibration date:	August 16, 2018	· · · · · · ·	01-01-
			RNV
This calibration certificate docume	nts the traceability to pati	onal standards, which realize the physical un	08/10/24
The measurements and the uncert	ainties with contidence p	robobility or given an the falls in	
	andes with competice p	robability are given on the following pages a	nd are part of the certificate.
All calibrations have been conduct	and for the second s	-	
An canonations have been conduct	ed in the closed laborator	y facility: environment temperature (22 $\pm$ 3)°	C and humidity < 70%.
Calibration Equipment used (M&TE	E critical for calibration)		
	1		
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: 5058 (20k)	04-Apr-18 (No. 217-02682)	Apr-19
Type-N mismatch combination	SN: 5047.2 / 06327	04-Apr-18 (No. 217-02683)	Apr-19
Reference Probe EX3DV4	SN: 7349	30-Dec-17 (No. EX3-7349_Dec17)	Dec-18
DAE4	SN: 601	26-Oct-17 (No. DAE4-601_Oct17)	Oct-18
	•		
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-16)	
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18 In house check: Oct-18
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-17)	In house check: Oct-18
			In nouse check, Ock-18
	Name	Function	Signature
Calibrated by:	Leif Klysner	Laboratory Technician	
	- 		Sel The
	•••••••••••••••••••••••••••••••••••••••	•	TIT
Approved by:	Katja Pokovic	Technical Manager	111
			Coldan 1
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			included Automation Constant
			Issued: August 23, 2018

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

S Service suisse d'étalonnage С

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

## Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

## Additional Documentation:

e) DASY4/5 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	DASY5	
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5.0 mm	
Frequency	2450 MHz ± 1 MHz	

### Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.7 ± 6 %	1.86 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	13.4 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.3 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	6.20 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.4 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	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.8 ± 6 %	2.02 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	13.0 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.9 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	6.11 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.2 W/kg ± 16.5 % (k=2)

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

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	55.0 Ω + 2.3 jΩ
Return Loss	- 25.6 dB

#### Antenna Parameters with Body TSL

Impedance, transformed to feed point	50.2 Ω + 4.7 jΩ
Return Loss	- 26.6 dB

#### General Antenna Parameters and Design

Electrical Delay (one direction)	1.162 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	
Manufactured on	December 30, 2014	

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

## **Measurement Conditions**

DASY system configuration, as far as not given on page 1 and 3.

Phantom		
Filantom	SAM Head Phantom	For usage with cSAR3DV2-R/L
		TO USAGE WILL COARSDYZ-R/L

## SAR result with SAM Head (Top)

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.6 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	54.0 W/kg ± 17.5 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	25.2 W/kg ± 16.9 % (k=2)

## SAR result with SAM Head (Mouth)

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.6 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	54.0 W/kg ± 17.5 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.35 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	25.3 W/kg ± 16.9 % (k=2)

## SAR result with SAM Head (Neck)

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	12.9 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	51.2 W/kg ± 17.5 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.11 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.4 W/kg ± 16.9 % (k=2)

## SAR result with SAM Head (Ear)

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	8.74 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	34.7 W/kg ± 17.5 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	4.40 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	17.5 W/kg ± 16.9 % (k=2)

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

Date: 13.08.2018

Test Laboratory: SPEAG, Zurich, Switzerland

## DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:981

Communication System: UID 0 - CW; Frequency: 2450 MHz Medium parameters used: f = 2450 MHz;  $\sigma$  = 1.86 S/m;  $\epsilon_r$  = 37.7;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

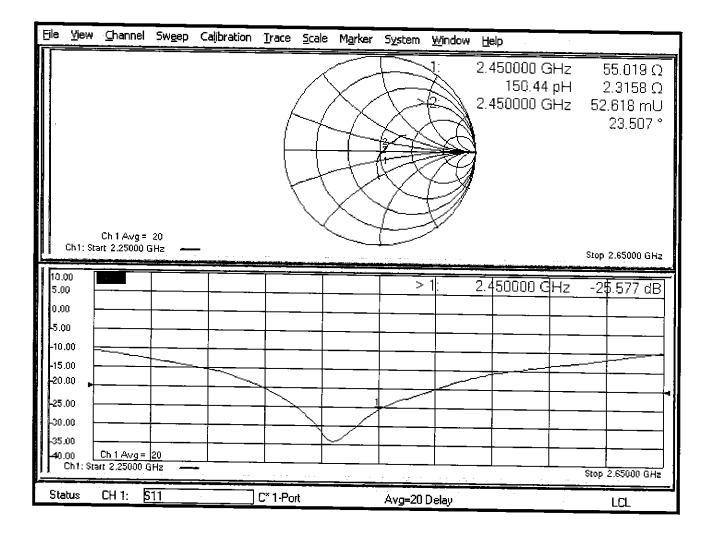
- Probe: EX3DV4 SN7349; ConvF(7.88, 7.88, 7.88) @ 2450 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 116.6 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 26.7 W/kg SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.2 W/kg Maximum value of SAR (measured) = 22.1 W/kg



0 dB = 22.1 W/kg = 13.44 dBW/kg



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

Date: 13.08.2018

Test Laboratory: SPEAG, Zurich, Switzerland

## DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:981

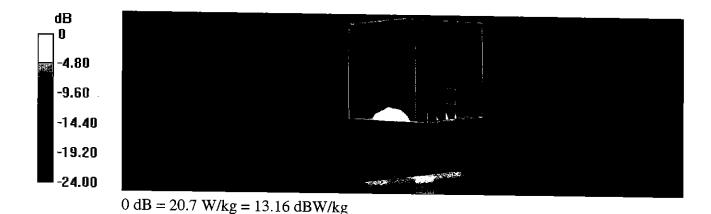
Communication System: UID 0 - CW; Frequency: 2450 MHz Medium parameters used: f = 2450 MHz;  $\sigma$  = 2.02 S/m;  $\epsilon_r$  = 51.8;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY52 Configuration:

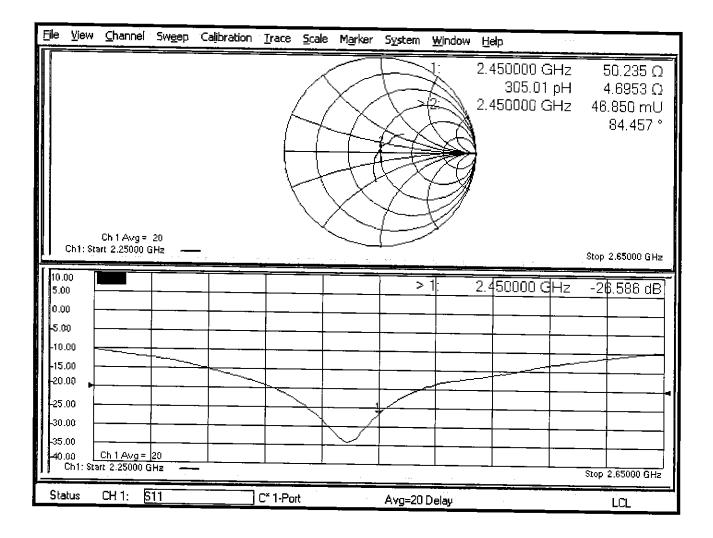
- Probe: EX3DV4 SN7349; ConvF(8.01, 8.01, 8.01) @ 2450 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 107.0 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 25.3 W/kg SAR(1 g) = 13 W/kg; SAR(10 g) = 6.11 W/kg Maximum value of SAR (measured) = 20.7 W/kg



## Impedance Measurement Plot for Body TSL



Date: 16.08.2018

Test Laboratory: SPEAG, Zurich, Switzerland

## DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:981

Communication System: UID 0 - CW ; Frequency: 2450 MHz Medium parameters used: f = 2450 MHz;  $\sigma$  = 1.85 S/m;  $\epsilon_r$  = 40.2;  $\rho$  = 1000 kg/m<sup>3</sup> Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

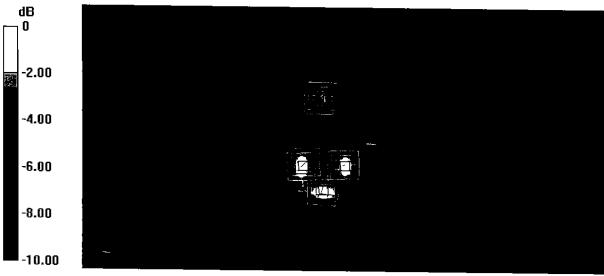
- Probe: EX3DV4 SN7349; ConvF(7.88, 7.88, 7.88) @ 2450 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: SAM Head
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

SAM Head Top/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 116.2 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 26.4 W/kg SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.33 W/kg Maximum value of SAR (measured) = 22.0 W/kg

SAM Head Mouth/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 116.9 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 26.3 W/kg SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.35 W/kg Maximum value of SAR (measured) = 21.7 W/kg

SAM Head Neck/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 112.0 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 24.1 W/kg SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.11 W/kg Maximum value of SAR (measured) = 20.5 W/kg

SAM Head Ear/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 91.03 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 15.8 W/kg SAR(1 g) = 8.74 W/kg; SAR(10 g) = 4.4 W/kg Maximum value of SAR (measured) = 13.5 W/kg



0 dB = 22.0 W/kg = 13.42 dBW/kg



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# **Certification of Calibration**

Object

D2450V2 - SN: 981

08/09/2019

Calibration procedure(s)

Procedure for Calibration Extension for SAR Dipoles.

Calibration date:

Description:

SAR Validation Dipole at 2450 MHz.

#### Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	10/2/2018	Annual	10/2/2019	US39170118
Agilent	N5182A	MXG Vector Signal Generator	6/27/2019	Annual	6/27/2020	US46240505
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	ML2495A	Power Meter	10/21/2018	Annual	10/21/2019	941001
Anritsu	MA2411B	Pulse Power Sensor	10/30/2018	Annual	10/30/2019	1207470
Anritsu	MA2411B	Pulse Power Sensor	11/20/2018	Annual	11/20/2019	1339007
Control Company	4040	Temperature / Humidity Monitor	2/28/2018	Biennial	2/28/2020	150761911
Control Company	4352	Ultra Long Stem Thermometer	2/28/2018	Biennial	2/28/2020	170330160
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	7/2/2019	Annual	7/2/2020	MY53401181
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	5/23/2018	Biennial	5/23/2020	N/A
SPEAG	EX3DV4	SAR Probe	2/19/2019	Annual	2/19/2020	7417
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/13/2019	Annual	2/13/2020	665
SPEAG	EX3DV4	SAR Probe	7/15/2019	Annual	7/15/2020	7547
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/11/2019	Annual	7/11/2020	1323
SPEAG	DAK-3.5	Dielectric Assessment Kit	9/11/2018	Annual	9/11/2019	1091

Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Brodie Halbfoster	Test Engineer	BRODIE HALBFOSTER
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	ROK

Object:	Date Issued:	Page 1 of 4
D2450V2 – SN: 981	08/09/2019	Page 1 of 4

## **DIPOLE CALIBRATION EXTENSION**

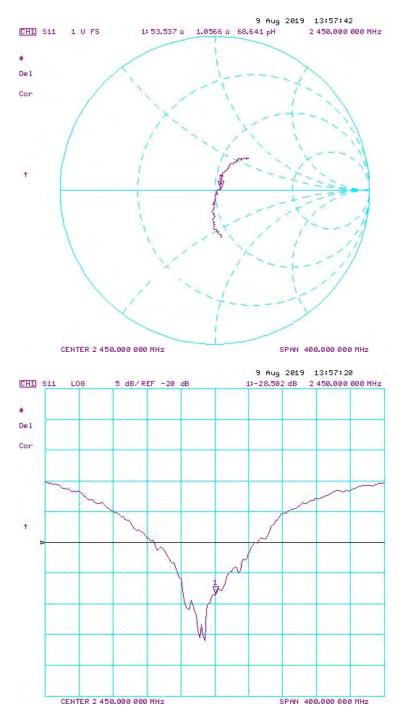
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- 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 2-year calibration period from the calibration date:

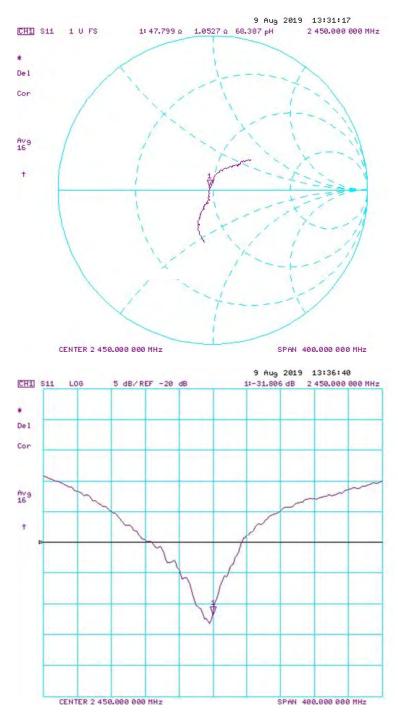
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Head (1g) W/kg @ 20.0 dBm	ubiii	(%)	dBm	(10g) W/kg @ 20.0 dBm		Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Head (dB)	Deviation (%)	
8/16/2018	8/9/2019	1.162	5.23	5.53	5.74%	2.44	2.56	4.92%	55	53.5	1.5	2.3	1.1	1.2	-25.6	-28.5	-11.30%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)		Measured Body SAR (1g) W/kg @ 20.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	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
8/16/2018	8/9/2019	1.162	5.09	4.98	-2.16%	2.42	2.28	-5.79%	50.2	47.8	2.4	4.7	1.1	3.6	-26.6	-31.8	-19.60%	PASS

Object:	Date Issued:	Page 2 of 4
D2450V2 – SN: 981	08/09/2019	Page 2 of 4



Impedance & Return-Loss Measurement Plot for Head TSL

Object:	Date Issued:	Daga 2 of 4
D2450V2 – SN: 981	08/09/2019	Page 3 of 4



Impedance & Return-Loss Measurement Plot for Body TSL

Object:	Date Issued:	Daga 4 of 4
D2450V2 – SN: 981	08/09/2019	Page 4 of 4

Calibration Laboratory Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich				C	Schweizerischer Kalibrierdienst Service suïsse d'étalonnage Servizio svizzero di taratura Swiss Callbration Service	
Accredited by the Swiss Accreditat The Swiss Accreditation Service Multilateral Agreement for the re	is one of the signatorie	s to the EA certificates		Acc	reditation No.: SCS 0108	
Client PC Test			Certificate	No:	D2600V2=1004_Apr18	
CAMERATIONIC	FRIEGAT					
Object	D2600V2-SN:10	004				
Calibration procedure(s)	OF CALOBIER Celbrator fince	A STOLED AN OWNER	imen ille d		BN <sup>-/</sup>	018
Calibration date:	April 11, 2018				BM BM	018 Extended -20-2019
This calibration certificate docume The measurements and the uncert All calibrations have been conduct	ternaes wan contidence pr	obability are given on the	following pages :	and :	of measurements (SI). are part of the certificate.	
Calibration Equipment used (M&T)	E critical for calibration)					
Primary Standards	ID #	Cal Date (Certificate No	• `		• · · · · · · ·	
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-026			Scheduled Calibration	
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-026			Apr-19	
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-026			Apr-19	
Reference 20 dB Attenuator	SN: 5058 (20K)	04-Apr-18 (No. 217-026			Apr-19	
Type-N mismatch combination	SN: 5047.2 / 06327	04-Apr-18 (No. 217-026			Apr-19	
Reference Probe EX3DV4	SN: 7349	30-Dec-17 (No. EX3-73			Apr-19	
DAE4	SN: 601	26-Oct-17 (No. DAE4-6			Dec-18 Oct-18	
Secondary Standards	ID #	Check Date (in house)			`	
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (in house che			Scheduled Check	
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house che			In house check: Oct-18	
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house che			In house check: Oct-18	
RF generator R&S SMT-06	SN: 100972				In house check: Oct-18	
Network Analyzer HP 8753E	SN: US37390585	15-Jun-15 (in house cho			In house check: Oct-18	
		18-Oct-01 (in house che	eck Oct-17)		In house check: Oct-18	
Calibrated by:	Name Michael Weber	Function Laboratory	Technician		Signature	
Approved by:	Katja Pokovic	Technical N	Aanager		fl ll g	· ·
This calibration certificate shall not	be reproduced except in f	ull without written approva	al of the laborator	ŋ.	issued: April 12, 2018	

Certificate No: D2600V2-1004\_Apr18

## **Calibration Laboratory of**

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





S

Schweizerischer Kalibrierdienst

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

Accreditation No.: SCS 0108

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

#### Glossary:

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

## Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

## Additional Documentation:

e) DASY4/5 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	DASY5	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2600 MHz ± 1 MHz	

#### **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.8 ± 6 %	2.03 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	14.3 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	55.9 W/kg ± 17.0 % (k=2)
	F	······································
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.35 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	25.1 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	52.5	2.16 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.1 ± 6 %	2.19 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	13.8 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	54.8 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	6.20 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.7 W/kg ± 16.5 % (k=2)

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

### Antenna Parameters with Head TSL

Impedance, transformed to feed point	47.7 Ω - 5.7 jΩ
Return Loss	- 24.1 dB

#### Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.0 Ω - 3.8 jΩ
Return Loss	- 24.9 dB

#### General Antenna Parameters and Design

Electrical Delay (one direction)	<b>A I I I I I I I I I I</b>
	1.149 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
Manufactured on	December 23, 2006

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

Date: 11.04.2018

Test Laboratory: SPEAG, Zurich, Switzerland

### DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1004

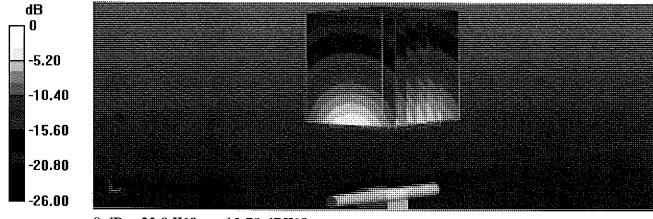
Communication System: UID 0 - CW; Frequency: 2600 MHz Medium parameters used: f = 2600 MHz;  $\sigma = 2.03$  S/m;  $\epsilon_r = 37.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY52 Configuration:

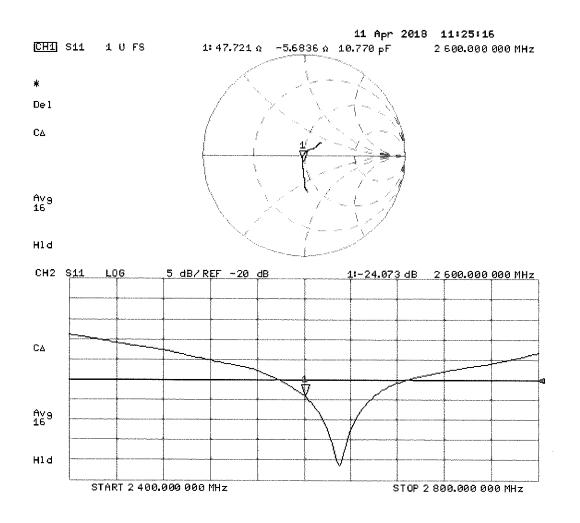
- Probe: EX3DV4 SN7349; ConvF(7.7, 7.7, 7.7); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 118.5 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 28.6 W/kg SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.35 W/kg Maximum value of SAR (measured) = 23.9 W/kg



0 dB = 23.9 W/kg = 13.78 dBW/kg



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

Date: 11.04.2018

Test Laboratory: SPEAG, Zurich, Switzerland

### DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1004

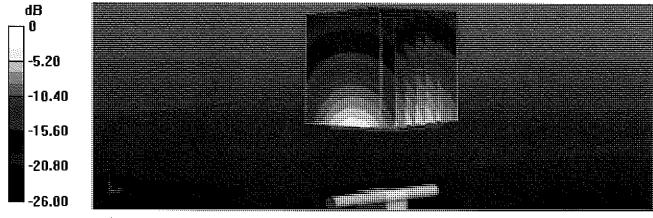
Communication System: UID 0 - CW; Frequency: 2600 MHz Medium parameters used: f = 2600 MHz;  $\sigma$  = 2.19 S/m;  $\epsilon_r$  = 52.1;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY52 Configuration:

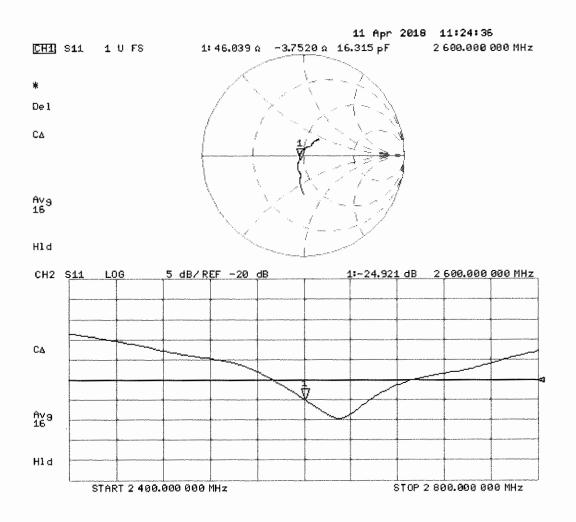
- Probe: EX3DV4 SN7349; ConvF(7.81, 7.81, 7.81); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 108.5 V/m; Power Drift = -0.09 dB Peak SAR (extrapolated) = 28.3 W/kg SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.2 W/kg Maximum value of SAR (measured) = 22.9 W/kg



0 dB = 22.9 W/kg = 13.60 dBW/kg





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# **Certification of Calibration**

Object

D2600V2 - SN: 1004

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

Extension Calibration date: 4/11/2019

Description:

SAR Validation Dipole at 2600 MHz.

#### Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	3/11/2019	Annual	3/11/2020	US39170122
Agilent	N5182A	MXG Vector Signal Generator	4/18/2018	Annual	4/18/2019	MY47420800
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433971
Anritsu	MA2411B	Pulse Power Sensor	11/20/2018	Annual	11/20/2019	1027293
Anritsu	MA2411B	Pulse Power Sensor	10/30/2018	Annual	10/30/2019	1126066
Anritsu	ML2495A	Power Meter	10/21/2018	Annual	10/21/2019	941001
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/9/2018	Biennial	10/9/2020	181647811
Control Company	4352	Ultra Long Stem Thermometer	5/2/2017	Biennial	5/2/2019	170330156
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	6/4/2018	Annual	6/4/2019	MY53401181
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Seekonk	NC-100	Torque Wrench	7/11/2018	Annual	7/11/2019	N/A
SPEAG	EX3DV4	SAR Probe	6/25/2018	Annual	6/25/2019	7409
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/18/2018	Annual	6/18/2019	1334
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/13/2019	Annual	2/13/2020	665
SPEAG	EX3DV4	SAR Probe	2/19/2019	Annual	2/19/2020	7417
SPEAG	DAK-3.5	Dielectric Assessment Kit	9/11/2018	Annual	9/11/2019	1091

Measurement Uncertainty =  $\pm 23\%$  (k=2)

	Name	Function	Signature
Calibrated By:	Brodie Halbfoster	Test Engineer	BRODIE HALBFOSTER
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	XOK-

Object:	Date Issued:	Page 1 of 4
D2600V2 – SN: 1004	04/11/2019	Fage 1014

## **DIPOLE CALIBRATION EXTENSION**

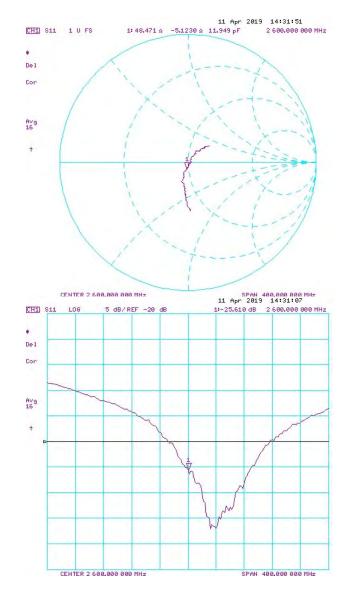
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- 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 2-year calibration period from the calibration date:

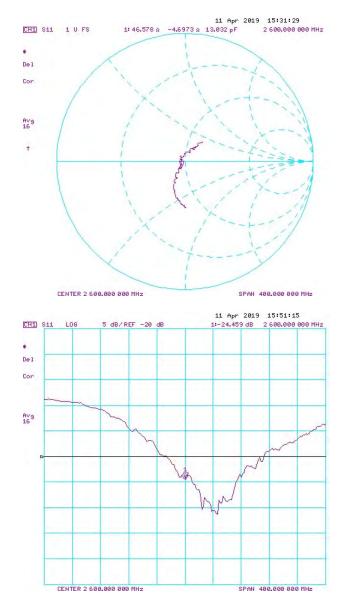
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 20.0 dBm	Measured Head SAR (1g) W/kg @ 20.0 dBm	(0/)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	Measured Head SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
4/11/2018	4/11/2019	1.149	5.59	5.51	-1.43%	2.51	2.47	-1.59%	47.7	48.5	0.8	-5.7	-5.1	0.6	-24.1	-25.6	-6.30%	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/)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	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
4/11/2018	4/11/2019	1.149	5.48	5.65	3.10%	2.47	2.48	0.40%	46	46.6	0.6	-3.8	-4.7	0.9	-24.9	-24.5	1.80%	PASS

Object:	Date Issued:	Dogo 2 of 4
D2600V2 – SN: 1004	04/11/2019	Page 2 of 4



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

Object:	Date Issued:	Page 3 of 4
D2600V2 – SN: 1004	04/11/2019	Page 5 01 4



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

Object:	Date Issued:	Dogo 4 of 4
D2600V2 – SN: 1004	04/11/2019	Page 4 of 4

### **Calibration Laboratory of**

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





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**PC Test** Client

Certificate No: EX3-3589\_Jan20

# CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:3589
Calibration procedure(s)	QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v7 Calibration procedure for dosimetric E-field probes
Calibration date:	January 21, 2020
	ents the traceability to national standards, which realize the physical units of measurements (SI). rtainties with confidence probability are given on the following pages and are part of the certificate.
All calibrations have been conduc	ted in the closed laboratory facility: environment temperature (22 $\pm$ 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	27-Dec-19 (No. DAE4-660_Dec19)	Dec-20
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec19)	Dec-20
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-19)	In house check: Oct-20

	Name	Function	Signature
Calibrated by:	Leif Klysner	Laboratory Technician	Sod Illy 10-
			St My -
Approved by:	Katja Pokovic	Technical Manager	<u> UNE</u>
			part of
			Issued: January 21, 2020
This calibration certificat	e shall not be reproduced except in fu	Il without written approval of the lab	oratory.

#### 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 φ	φ rotation around probe axis
Polarization 9	9 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

**Connector Angle** 

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

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Methods Applied and Interpretation of Parameters:

- NORMx, y, z: Assessed for E-field polarization  $\vartheta = 0$  (f  $\leq 900$  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 E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx, y, z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax, y, z; Bx, y, z; Cx, y, z; 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  $f \le 800$  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).

# DASY/EASY - Parameters of Probe: EX3DV4 - SN:3589

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.44	0.40	0.39	± 10.1 %
DCP (mV) <sup>B</sup>	101.5	97.7	97.9	

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

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> (k=2)
0	CW	X	0.00	0.00	1.00	0,00	138.1	± 3.5 %	±4.7 %
0		Y	0.00	0.00	1.00		148.9		
		Z	0.00	0.00	1.00		137.1		
10352-	Pulse Waveform (200Hz, 10%)	X	20.00	93.40	23.88	10.00	60.0	± 1.9 %	± 9.6 %
AAA		Y	20.00	90.04	21.55		60.0		
		Z	20.00	93.40	23.50		60.0		
10353-	Pulse Waveform (200Hz, 20%)	X	20.00	93.53	22.66	6.99	80.0	± 1.0 %	± 9.6 %
AAA		Y	20.00	90.11	20.16		80.0		
		Z	20.00	93.36	22.20		80.0		
10354- Pulse	Pulse Waveform (200Hz, 40%)	X	20.00	95.38	22.01	3.98	95.0	± 1.0 %	± 9.6 %
AAA		Y	20.00	88.87	17.82		95.0		
		Z	20.00	94.79	21.35		95.0		
10355- Pulse	Pulse Waveform (200Hz, 60%)	X	20.00	102.43	23.98	2.22	120.0	±1.1%	± 9.6 %
AAA		Y	20.00	86.64	15.26		120.0		
		Z	20.00	97.99	21.51		120.0		
10387-	QPSK Waveform, 1 MHz	X	0.93	64.33	11.56	0.00	150.0	± 3.3 %	± 9.6 %
AAA		Y	0.54	60.00	7.11		150.0		
		Z	0.68	61.48	9.17		150.0		ļ
10388-	QPSK Waveform, 10 MHz	X	2.38	69.01	16.27	0.00	150.0	± 1.3 %	± 9.6 %
AAA		Y	2.02	66.96	14.92		150.0		
		Z	2.15	67.54	15.53		150.0		
10396-	64-QAM Waveform, 100 kHz	Х	3.79	73.46	20.06	3.01	150.0	± 0.6 %	± 9.6 %
AAA		Y	3.12	69.91	18.24	j	150.0		
		Z	4.11	75.05	20.59		150.0		
10399-	64-QAM Waveform, 40 MHz	X	3.59	67.56	16.03	0.00	150.0	± 2.5 %	± 9.6 %
AAA		Y	3.37	66.67	15.43		150.0		1
		Z	3.46	66.93	15.67	<u> </u>	150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.95	65.82	15.63	0.00	150.0	± 4.6 %	± 9.6 %
AAA		Y	4.77	65.46	15.41	1	150.0	1	
		Z	4.80	65.52	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%.

 <sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6).
 <sup>B</sup> Numerical linearization parameter: uncertainty not required.
 <sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

# DASY/EASY - Parameters of Probe: EX3DV4 - SN:3589

#### Sensor Model Parameters

	C1 fF	C2 fF	α V <sup>-1</sup>	T1 ms.V⁻²	T2 ms.V⁻¹	T3 ms	T4 V⁻²	T5 V <sup>-1</sup>	Т6
Х	52.5	386.65	34.73	26.61	1.15	5.10	1.30	0.45	1.01
Y	44.4	339.10	36.93	20.74	1.47	5.06	0.00	0.71	1.01
Z	44.1	325.90	34.85	22.88	1.09	5.07	1.71	0.36	1.01

#### **Other Probe Parameters**

riangular
-32.6
enabled
disabled
337 mm
10 mm
9 mm
2.5 mm
1 mm
1 mm
1 mm
1.4 mm
-

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	41.9	0.89	8.70	8.70	8.70	0.38	1.00	± 12.0 %
835	41.5	0.90	8.58	8.58	8.58	0.47	0.80	± 12.0 %
1750	40.1	1.37	7.55	7.55	7.55	0.52	0.87	± 12.0 %
1900	40.0	1.40	7.25	7.25	7.25	0.43	0.87	± 12.0 %
2300	39.5	1.67	7.11	7.11	7.11	0.45	0.86	± 12.0 %
2450	39.2	1.80	6.85	6.85	6.85	0.47	0.85	± 12.0 %
2600	39.0	1.96	6.60	6.60	6.60	0.41	0.86	± 12.0 %

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

<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. <sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm$  10% if liquid compensation formula is applied to

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\varepsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\varepsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. <sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

<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.

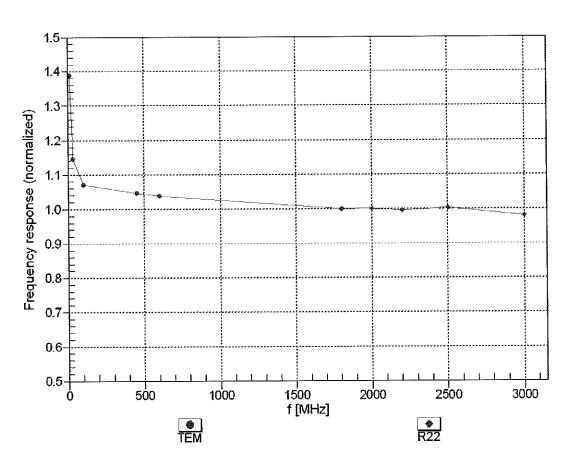
f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	55.5	0.96	8.49	8.49	8.49	0.49	0.81	± 12.0 %
835	55.2	0.97	8.27	8.27	8.27	0.29	1.03	± 12.0 %
1750	53.4	1.49	6.93	6.93	6.93	0.41	0.87	± 12.0 %
1900	53.3	1.52	6.72	6.72	6.72	0.35	0.87	± 12.0 %
2300	52.9	1.81	6.62	6.62	6.62	0.34	0.86	± 12.0 %
2450	52.7	1.95	6.60	6.60	6.60	0.40	0.86	± 12.0 %
2600	52.5	2.16	6.35	6.35	6.35	0.37	0.90	± 12.0 %

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

<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. <sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm$  10% if liquid compensation formula is applied to

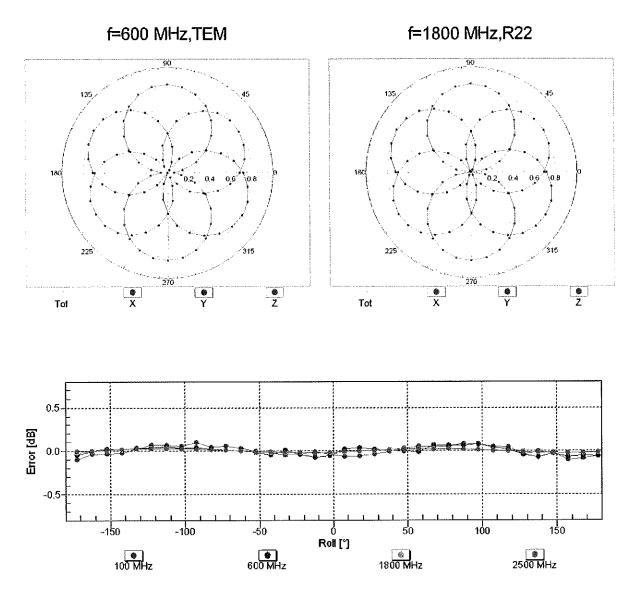
measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of

The ConvE uncertainty for indicated target tissue parameters. <sup>6</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than  $\pm$  1% for frequencies below 3 GHz and below  $\pm$  2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



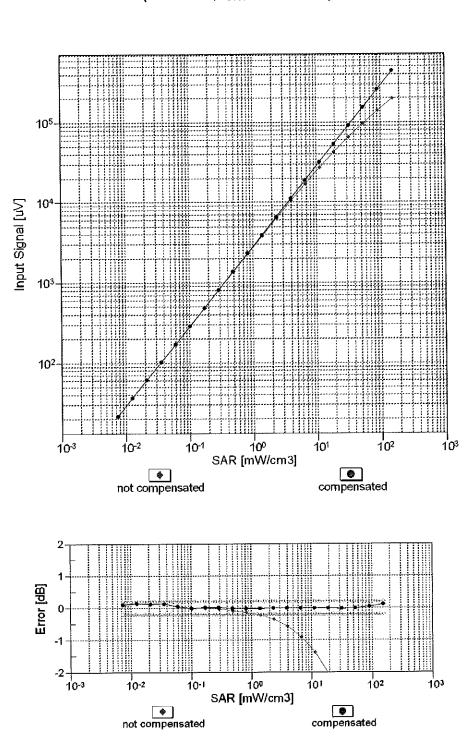
## Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

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



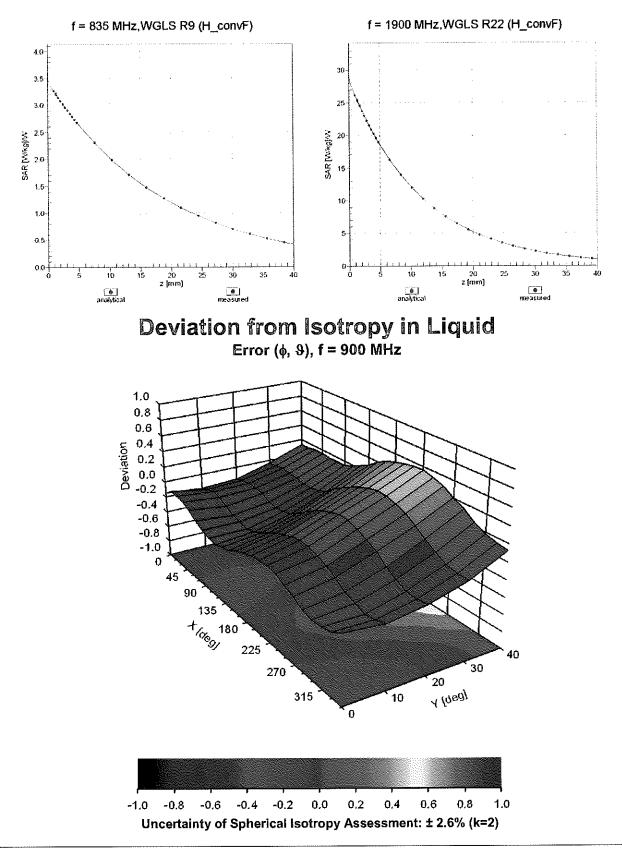
# Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

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



## Dynamic Range f(SAR<sub>head</sub>) (TEM ceil , f<sub>eval</sub>= 1900 MHz)

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



## **Conversion Factor Assessment**

## **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	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013		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		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	4.53	
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	· · · · · · · · · · · · · · · · · · ·	$\pm 9.6\%$
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	8.01	$\pm 9.6\%$
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)		4.77	±9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	Bluetooth	4.10	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	CDMA2000	4.57	±9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	7.78	± 9.6 %
10048	CAA	DECT (TOD. TDMA/EDM. OFOX Full Olich DA)	AMPS	0.00	±9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049		DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
		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	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	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	$\pm 9.6\%$
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	$\pm 9.6\%$
0090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM		
0097	CAB	UMTS-FDD (HSDPA)	WCDMA	6.56	$\pm 9.6\%$
0098	CAB	UMTS-FDD (HSUPA, Subtest 2)		3.98	$\pm 9.6\%$
0099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	WCDMA	3,98	± 9.6 %
0100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	GSM	9.55	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	5.67	± 9.6 %
0102	CAE	TEEDD (SC EDMA 400% RD, 20 MILE 04 OAM)	LTE-FDD	6.42	± 9.6 %
0102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
		LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
0104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
0105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
0108	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6 %

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10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	<u>± 9.6 %</u>
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6 %
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6 %
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6 %
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6 %
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6%
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6,52	± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	$\pm 9.6\%$
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	$\pm 9.6\%$
10193	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	$\pm 9.6\%$
10194	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	$\pm 9.6\%$
10195	CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	$\pm 9.6\%$
10196	CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	$\pm 9.6\%$
10197	CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	$\pm 9.6\%$
10198	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	$\pm 9.6\%$
10219	CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %

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10220	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.27	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.06	± 9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN WLAN	8.48 8.08	± 9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 % ± 9.6 %
10226	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10227	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10231	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6 %
10232	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10233	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10235	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10236	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10237	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6 %
10242 10243	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAB CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	9.46	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 04-QAM) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	10.06	± 9.6 % ± 9.6 %
10240	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD LTE-TDD	9.30 9.91	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	± 9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6 %
10258	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6 %
10260	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.6 %
10262		LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6%
10265 10266	CAG CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD LTE-TDD	9.92	$\pm 9.6\%$
10267	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 04-QAM)	LTE-TDD	10.07 9.30	± 9.6 %
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QFSR)	LTE-TDD	10.06	± 9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.00	± 9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAB	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 884MHz, Rolloff 0.5)	PHS	11.81	±9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, 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	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6 %
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10299	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %

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10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	12.03	± 9.6 %
10302	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL	WIMAX	12.57	± 9.6 %
		symbols)			
10303	AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	12.52	±9.6 %
10304	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	11.86	±9.6 %
10305	AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15	WIMAX	15.24	±9.6 %
		symbols)			
10306	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18	WIMAX	14.67	±9.6 %
		symbols)			
10307	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18	WIMAX	14.49	± 9.6 %
40000		symbols)			
10308	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WIMAX	14.46	± 9.6 %
10309	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18	WIMAX	14.58	± 9.6 %
10310	AAA	symbols) IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18	Wimax	14.57	± 9.6 %
10310		symbols)	VVIIVIPAX	14.07	± 9.0 %
10311	AAD	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	AAC	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	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
10410	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
	<u> </u>	Subframe=2,3,4,7,8,9, Subframe Conf=4)			
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	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		IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10417		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,	WLAN	8.19	± 9.6 %
10713		Short preambule)		0.19	± 0.0 70
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 51 SK)	WLAN	8.47	± 9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10424				8.41	± 9.6 %
		IEEE 802.11n (H1 Greenfield, 15 Mbps. BPSK)	I WLAN	0.41	
10425 10425 10426	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN WLAN		1
10425		IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10425 10426	AAB AAB				± 9.6 % ± 9.6 %
10425 10426 10427	AAB AAB AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN WLAN	8.45 8.41	± 9.6 %
10425 10426 10427 10430 10431 10432	AAB AAB AAB AAD AAD AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	WLAN WLAN LTE-FDD	8.45 8.41 8.28	± 9.6 % ± 9.6 % ± 9.6 %
10425 10426 10427 10430 10431 10432 10433	AAB AAB AAB AAD AAD AAC AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	WLAN WLAN LTE-FDD LTE-FDD LTE-FDD LTE-FDD	8.45 8.41 8.28 8.38	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10425 10426 10427 10430 10431 10432 10433 10434	AAB AAB AAD AAD AAD AAC AAC AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) W-CDMA (BS Test Model 1, 64 DPCH)	WLAN WLAN LTE-FDD LTE-FDD LTE-FDD	8.45 8.41 8.28 8.38 8.34	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10425 10426 10427 10430 10431 10432 10433	AAB AAB AAB AAD AAD AAC AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) W-CDMA (BS Test Model 1, 64 DPCH) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL	WLAN WLAN LTE-FDD LTE-FDD LTE-FDD LTE-FDD	8.45 8.41 8.28 8.38 8.34 8.34 8.34	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10425 10426 10427 10430 10431 10432 10433 10434 10435	AAB AAB AAD AAD AAC AAC AAC AAA AAF	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) W-CDMA (BS Test Model 1, 64 DPCH) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	WLAN WLAN LTE-FDD LTE-FDD LTE-FDD LTE-FDD WCDMA LTE-TDD	8.45 8.41 8.28 8.38 8.34 8.34 8.60 7.82	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10425 10426 10427 10430 10431 10432 10433 10434 10435 10447	AAB AAB AAD AAD AAC AAC AAA AAF AAD	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) W-CDMA (BS Test Model 1, 64 DPCH) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	WLAN WLAN LTE-FDD LTE-FDD LTE-FDD WCDMA LTE-TDD LTE-FDD	8.45 8.41 8.28 8.38 8.34 8.34 8.60 7.82 7.56	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10425 10426 10427 10430 10431 10432 10433 10434 10435 10447 10448	AAB AAB AAD AAD AAD AAC AAC AAA AAF AAD AAD	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)         IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)         LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)         LTE-FDD (OFDMA, 1 SMHz, E-TM 3.1)         U-CDMA (BS Test Model 1, 64 DPCH)         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL         Subframe=2,3,4,7,8,9)         LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	WLAN WLAN LTE-FDD LTE-FDD LTE-FDD WCDMA LTE-TDD LTE-FDD LTE-FDD	8.45 8.41 8.28 8.38 8.34 8.34 8.60 7.82 7.56 7.53	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10425 10426 10427 10430 10431 10432 10433 10434 10435 10447	AAB AAB AAD AAD AAC AAC AAA AAF AAD	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) W-CDMA (BS Test Model 1, 64 DPCH) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	WLAN WLAN LTE-FDD LTE-FDD LTE-FDD WCDMA LTE-TDD LTE-FDD	8.45 8.41 8.28 8.38 8.34 8.34 8.60 7.82 7.56	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$

10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAD	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	± 9.6 %
10457	AAA	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	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6 %
10461	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.82	±9.6 %
		Subframe=2,3,4,7,8,9)			
10462	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.30	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10463	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.56	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10464	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10465	-	Subframe=2,3,4,7,8,9)			
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
10466	AAC	Subframe=2,3,4,7,8,9)		0.57	
10400	AAC	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	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL		7.00	
10407		Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.32	±9.6 %
10100		Subframe=2,3,4,7,8,9)		0.52	1 9.0 %
10469	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.56	±9.6%
		Subframe=2,3,4,7,8,9)		0.00	20.070
10470	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	±9.6%
		Subframe=2,3,4,7,8,9)			
10471	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL	LTE-TDD	7.82	±9.6 %
	<u> </u>	Subframe=2,3,4,7,8,9)			
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.32	±9.6 %
40475		Subframe=2,3,4,7,8,9)			
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
10477	AAF	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL		0.00	
10477		Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.57	±9.6 %
10410		Subframe=2,3,4,7,8,9)		0.07	19.076
10479	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.74	±9.6 %
10410	10.0	Subframe=2,3,4,7,8,9)		1.14	1 5.0 %
10480	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.18	±9.6 %
		Subframe=2,3,4,7,8,9)		0110	
10481	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.45	±9.6 %
		Subframe=2,3,4,7,8,9)			
10482	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL	LTE-TDD	7.71	±9.6 %
		Subframe=2,3,4,7,8,9)			
10483	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.39	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10484	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.47	± 9.6 %
10.105		Subframe=2,3,4,7,8,9)			
10485	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL	LTE-TDD	7.59	± 9.6 %
10406		Subframe=2,3,4,7,8,9)		0.00	1000
10486	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.38	±9.6 %
10487	AAF	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.60	±9.6 %
10101		Subframe=2,3,4,7,8,9)		0.00	1 3.0 %
10488	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL	LTE-TDD	7.70	±9.6 %
,		Subframe=2,3,4,7,8,9)		1.10	- 0.0 /0
10489	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.31	± 9.6 %
V		Subframe=2,3,4,7,8,9)		5.01	
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.54	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10491	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL	LTE-TDD	7,74	±9.6 %

	1	Subframe=2,3,4,7,8,9)		T	
10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL	LTE-TDD	8,41	±9.6 %
		Subframe=2,3,4,7,8,9)			
10493	AAE	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	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL	LTE-TDD	7.74	±9.6 %
10495	AAF	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.37	±9.6 %
10433		Subframe=2,3,4,7,8,9)		0.37	2 3.0 %
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.54	±9.6 %
10497	AAB	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.67	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10498	AAB	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	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.68	±9.6 %
10500	AAC	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL	LTE-TDD	7.67	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10501	AAC	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	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.52	±9.6 %
10503	AAF	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL	LTE-TDD	7.72	± 9.6 %
10505	- AM	Subframe=2,3,4,7,8,9)	LIENDO	1.12	1 9.0 %
10504	AAF	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	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.54	±9.6 %
	=	Subframe=2,3,4,7,8,9)			
10506	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7,74	±9.6 %
10507	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.36	± 9.6 %
10508	AAF	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.55	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	±9.6 %
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.49	± 9.6 %
10511	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.51	± 9.6 %
		Subframe=2,3,4,7,8,9)		0.01	
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.42	±9.6 %
		Subframe=2,3,4,7,8,9)		0.45	
10514	AAF	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	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6 %
10524	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10527	AAB	IEEE 802.11ac WIFi (20MHz, MCS2, 99pc duty cycle)	WLAN	8.21	± 9.6 %
10528	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10531	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10533	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	WLAN	8.38	± 9.6 %

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10534	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	± 9.6 %
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8,55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8,47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, 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	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10586	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %

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10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6 %
10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	± 9.6 %
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8,64	± 9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	WLAN	8,72	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	± 9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	±9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.58	± 9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6 %
10623	AAB	IEEE 802.11ac WIFi (40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	9.11	± 9.6 %
10646	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	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	AAE	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAE	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
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10655         AAE         LTE-TDD         (CPEDMA, 20 MHz, E-TM 3.1, Clipping 44%)         LTE-TDD         (7.21         49.67           10688         AAA         Pulse Waveform (200Hz, 20%)         Test         10.89         49.65           10660         AAA         Pulse Waveform (200Hz, 20%)         Test         3.89         19.65           10661         AAA         Pulse Waveform (200Hz, 40%)         Test         2.22         19.65           10662         AAA         Pulse Waveform (200Hz, 40%)         Test         2.22         19.65           10672         AAA         ElEEB 602.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         9.07         4.56           10672         AAA         IEEEB 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.77         4.9.6           10674         AAA         IEEEB 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.77         4.9.6           10675         AAA         IEEEB 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.77         4.9.6           10676         AAA         IEEEB 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.78         4.9.6           10677         AAA         IEEEB 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.8.0	100-1					
10658         AAA         Pulse Waveform (200Hz, 10%).         Test         6.39         4.94.5           10680         AAA         Pulse Waveform (200Hz, 40%).         Test         5.39         4.96.5           10681         AAA         Pulse Waveform (200Hz, 40%).         Test         2.22         4.9.8           10682         AAA         Pulse Waveform (200Hz, 60%).         Test         2.22         4.9.8           10671         AAA         Bluedooth owe Fnergy         WiLAN         8.67         4.9.6         5           10673         AAA         IEEE 802.11ax (20MHz, MCS2, 90pc duty cycle)         WiLAN         8.74         4.9.6         5           10675         AAA         IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)         WiLAN         8.77         4.9.6         5         6.66         4.9.6         5         6.6         5         6         5         6         5         6         6         6         4.9.6         5         6         6         6         6         6         6         6         6         6         6         6         6	10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)			±9.6 %
10689         AAA         Pulse Waveform (200Hz, 20%).         Test         1         6.00         3.00         3.00           10680         AAA         Pulse Waveform (200Hz, 60%).         Test         2.02         8.60           10682         AAA         Pulse Waveform (200Hz, 60%).         Test         0.07         4.04         9.10         8.60           10671         AAA         Bitedorih Low Energy.         Bitedorih Low Energy.         10.80         9.00				LTE-TDD	7.21	±9.6 %
19660         AAA         Pulse Waveform (200Hz, 40%)         Test         2.22         49.63           19681         AAA         Pulse Waveform (200Hz, 80%)         Test         2.22         49.63           19670         AAA         Pulse Waveform (200Hz, 80%)         Test         2.22         49.63           19671         AAA         IEEE 802.114x (20MHz, MCS0, 90pc duty cycle)         WLAN         8.67         49.63           19673         AAA         IEEE 802.114x (20MHz, MCS2, 90pc duty cycle)         WLAN         8.77         49.65           19674         AAA         IEEE 802.114x (20MHz, MCS2, 90pc duty cycle)         WLAN         8.77         49.65           19676         AAA         IEEE 802.114x (20MHz, MCS5, 90pc duty cycle)         WLAN         8.77         49.65           19677         AAA         IEEE 802.114x (20MHz, MCS6, 90pc duty cycle)         WLAN         8.78         49.65           19678         AAA         IEEE 802.114x (20MHz, MCS10, 90pc duty cycle)         WLAN         8.78         49.66           19679         AAA         IEEE 802.114x (20MHz, MCS10, 90pc duty cycle)         WLAN         8.62         49.66           19679         AAA         IEEE 802.114x (20MHz, MCS10, 90pc duty cycle)         WLAN         8.62         4				Test	10.00	±9,6 %
10861         AAA         Pulse Waveform (200Hz, 00%)         Test         0.97         8.6           10862         AAA         Blueboth         0.97         8.6         9.6         0.97         9.6         0.97         9.6         0.97         9.6         0.97         9.6         0.97         9.6         0.97         9.6         0.97         9.6         0.97         9.6         0.97         9.6         0.97         9.6         0.97         9.6         0.97         9.6         9.6         9.6         9.6         9.6         9.6         9.6         9.6         9.6				Test	6.99	± 9.6 %
10662         AAA         Pulse Waveform (200Hz, 60%)         Test         0.67         5.6.3           10671         AAA         Bluetooth         2.19         2.00         3.6.3 <td></td> <td></td> <td></td> <td>Test</td> <td>3.98</td> <td>±9.6 %</td>				Test	3.98	±9.6 %
10670         AAA         Bluetooth Low Energy         Distort         216         250           10671         AAA         IEEE 902.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.67         29.68           10672         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.7         29.68           10674         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.7         29.68           10675         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.7         29.63           10676         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.7         29.63           10677         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.7         29.63           10678         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.63         9.60           10680         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.62         ± 9.63           10681         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.62         ± 9.63           10682         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.4				Test	2.22	± 9.6 %
10971         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.7         5.8.6           10972         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.75         5.8.6           10973         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.74         ± 9.6.5           10976         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.7         ± 9.6.5           10977         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.7         ± 9.6.5           10977         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.7         ± 9.6.5           10978         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.7         ± 9.6.5           10879         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.8         ± 9.6.5           10881         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.2         ± 9.6.5           10883         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.4         ± 9.6.5           10884         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)					0.97	± 9.6 %
10072         AAA         IEEE 802.11ax (20MHz, MCSL, 90pc duty cycle)         WLAN         8.77         25.67           10074         AAA         IEEE 802.11ax (20MHz, MCSL, 90pc duty cycle)         WLAN         8.74         4.9.63           10075         AAA         IEEE 802.11ax (20MHz, MCSL, 90pc duty cycle)         WLAN         8.74         4.9.63           10076         AAA         IEEE 802.11ax (20MHz, MCSL, 90pc duty cycle)         WLAN         8.77         4.9.63           10677         AAA         IEEE 802.11ax (20MHz, MCSL, 90pc duty cycle)         WLAN         8.77         4.9.63           10677         AAA         IEEE 802.11ax (20MHz, MCSL, 90pc duty cycle)         WLAN         8.74         4.9.63           10679         AAA         IEEE 802.11ax (20MHz, MCSL, 90pc duty cycle)         WLAN         8.74         9.6.75           10680         AAA         IEEE 802.11ax (20MHz, MCSL, 90pc duty cycle)         WLAN         8.62         4.9.63           10681         AAA         IEEE 802.11ax (20MHz, MCSL, 90pc duty cycle)         WLAN         8.42         4.9.63           10684         AAA         IEEE 802.11ax (20MHz, MCSL, 90pc duty cycle)         WLAN         8.42         4.9.63           10684         AAA         IEEE 802.11ax (20MHz, MCSL, 90pc duty cycle)		-		Bluetooth	2.19	± 9.6 %
10673         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.74         19.85           10075         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.75         19.85           10076         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.75         19.65           10077         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.73         19.66           10078         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.73         19.66           10679         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.60         ±9.65           10680         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.62         ±9.65           10882         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.42         ±9.65           10883         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.42         ±9.65           10884         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.24         ±9.65           10885         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         <			IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	WLAN	9.09	± 9.6 %
10075         AAA         IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)         WUAN         6.74         ± 9.6 5           10075         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WUAN         8.77         ± 9.6 5           10076         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WUAN         8.73         ± 9.6 5           10077         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WUAN         8.6 4           10079         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WUAN         8.6 4         ± 9.6 5           10680         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WUAN         8.62         ± 9.6 5           10842         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WUAN         8.62         ± 9.6 5           10843         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WUAN         8.42         ± 9.6 5           10864         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WUAN         8.42         ± 9.6 5           10868         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WUAN         8.29         ± 9.6 5           10888         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)			IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10677         AAA         IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)         WLAN         8,74         ± 9,6 5           10076         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WLAN         8,77         ± 9,6 5           10076         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WLAN         8,77         ± 9,6 5           10077         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WLAN         8,78         ± 9,6 5           10080         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WLAN         8,89         ± 9,6 5           10081         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8,82         ± 9,6 5           10824         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8,42         ± 9,6 5           10835         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8,42         ± 9,6 5           10846         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8,42         ± 9,6 5           10864         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8,24         ± 9,6 5           10864         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty c				WLAN	8.78	±9.6 %
10070         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WUAN         8.77         ± 9.6 5           10677         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WUAN         8.76         ± 9.6 5           10679         AAA         IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)         WUAN         8.89         ± 9.6 5           10679         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WUAN         8.80         ± 9.6 5           10680         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WUAN         8.62         ± 9.6 5           10681         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WUAN         8.42         ± 9.6 5           10684         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WUAN         8.33         ± 9.6 5           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WUAN         8.28         ± 9.6 5           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WUAN         8.25         ± 9.6 5           10687         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WUAN         8.25         ± 9.6 5           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty c		~	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)	WLAN	8,74	±9.6 %
10676         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WLAN         8.77         ± 9.6 5           10677         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WLAN         8.78         ± 9.6 5           10678         AAA         IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)         WLAN         8.89         ± 9.6 5           10680         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.6.2         ± 9.6 5           10681         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.6.2         ± 9.6 5           10682         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.42         ± 9.6 5           10684         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.42         ± 9.6 5           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.45         ± 9.6 5           10687         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.25         ± 9.6 5           10688         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.25         ± 9.6 5           10689         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty			IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10677         AAA         IEEE 802.11ax (20MHz, MCSR, 90pc duty cycle)         WLAN         8.73         ± 9.6 5           10678         AAA         IEEE 802.11ax (20MHz, MCSR, 90pc duty cycle)         WLAN         8.89         ± 9.6 5           10680         AAA         IEEE 802.11ax (20MHz, MCSR, 90pc duty cycle)         WLAN         8.80         ± 9.6 5           10681         AAA         IEEE 802.11ax (20MHz, MCS30, 90pc duty cycle)         WLAN         8.62         ± 9.6 5           10822         AAA         IEEE 802.11ax (20MHz, MCS30, 90pc duty cycle)         WLAN         8.62         ± 9.6 5           10864         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.24         ± 9.6 5           10865         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.28         ± 9.6 5           10867         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.28         ± 9.6 5           10868         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.28         ± 9.6 5           10869         AAA         IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)         WLAN         8.29         ± 9.6 5           10869         AAA         IEEE 802.11ax (20MHz, MCS4, 99pc duty	*****		IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 %
10678         AAA         LEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)         WLAN         8.78         ± 9.67           10680         AAA         IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle)         WLAN         8.80         ± 9.67           10681         AAA         IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)         WLAN         8.62         ± 9.67           10682         AAA         IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)         WLAN         8.42         ± 9.67           10683         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.42         ± 9.67           10684         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.28         ± 9.67           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.28         ± 9.67           10686         AAA         IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)         WLAN         8.25         ± 9.67           10689         AAA         IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)         WLAN         8.29         ± 9.67           10680         AAA         IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)         WLAN         8.29         ± 9.67           10681         AAA         IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle) <td></td> <td>AAA</td> <td>IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)</td> <td>WLAN</td> <td>8.73</td> <td>±9.6 %</td>		AAA	IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6 %
10679         AAA         IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle)         WLAN         8.80         ± 9.6 7           10680         AAA         IEEE 802.11ax (20MHz, MCS1), 90pc duty cycle)         WLAN         8.82         ± 9.6 7           10682         AAA         IEEE 802.11ax (20MHz, MCS1), 90pc duty cycle)         WLAN         8.83         ± 9.6 7           10683         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.24         ± 9.6 7           10684         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.24         ± 9.6 7           10685         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.28         ± 9.6 7           10686         AAA         IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)         WLAN         8.29         ± 9.6 7           10687         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.25         ± 9.6 7           10688         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.25         ± 9.6 7           10680         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WLAN         8.25         ± 9.6 7           10681         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty	10678	AAA	IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)	WLAN		±9.6 %
10680         AAA         IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)         WLAN         8.60         ± 9.6 5           10681         AAA         IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)         WLAN         8.62         ± 9.6 5           10683         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.42         ± 9.6 5           10684         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.24         ± 9.6 5           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.33         ± 9.6 5           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.42         ± 9.6 5           10687         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.25         ± 9.6 5           10689         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.25         ± 9.6 5           10690         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.25         ± 9.6 5           10691         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.24         ± 9.6 5           10692         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty		AAA	IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6 %
10081         AAA         IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)         WLAN         8.62         ± 9.6 5           10882         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.42         ± 9.6 5           10883         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.24         ± 9.6 5           10884         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.24         ± 9.6 5           10886         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.28         ± 9.6 5           10887         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.45         ± 9.6 5           10888         AAA         IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle)         WLAN         8.29         ± 9.6 5           10890         AAA         IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)         WLAN         8.25         ± 9.6 5           10891         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.25         ± 9.6 5           10892         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.25         ± 9.6 5           10894         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty	10680	AAA	IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle)			±9.6 %
10682         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WILAN         8.83         ± 9.6 9           10684         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WILAN         8.42         ± 9.6 9           10685         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WILAN         8.22         ± 9.6 9           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WILAN         8.23         ± 9.6 9           10686         AAA         IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)         WILAN         8.25         ± 9.6 9           10687         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WILAN         8.25         ± 9.6 9           10689         AAA         IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)         WILAN         8.25         ± 9.6 9           10691         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WILAN         8.25         ± 9.6 9           10692         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WILAN         8.25         ± 9.6 9           10693         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WILAN         8.27         ± 9.6 9           10693         AAA         IEEE 802.11ax (20MHz, MCS1, 9	10681	AAA	IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)			± 9.6 %
10683         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WILAN         8.42         ± 9.6 9           10684         AAA         IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle)         WILAN         8.28         ± 9.6 9           10685         AAA         IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle)         WILAN         8.28         ± 9.6 9           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WILAN         8.28         ± 9.6 9           10688         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WILAN         8.29         ± 9.6 9           10689         AAA         IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)         WILAN         8.25         ± 9.6 9           10690         AAA         IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)         WILAN         8.25         ± 9.6 9           10691         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WILAN         8.25         ± 9.6 9           10692         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WILAN         8.25         ± 9.6 9           10693         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WILAN         8.7 ± 9.6 9           10694         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle) <td>10682</td> <td>AAA</td> <td></td> <td></td> <td></td> <td>± 9.6 %</td>	10682	AAA				± 9.6 %
10684         AAA         IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle)         WLAN         8.26         ± 9.6 7           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.33         ± 9.6 7           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.45         ± 9.6 7           10687         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.45         ± 9.6 7           10688         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.25         ± 9.6 7           10690         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.22         ± 9.6 7           10691         AAA         IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)         WLAN         8.22         ± 9.6 7           10692         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.27         ± 9.6 7           10693         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.57         ± 9.6 7           10695         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.61         ± 9.6 7           10696         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty c			IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle)			
10885         AAA         IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle)         WLAN         8.33         ± 0.6 7           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 9pc duty cycle)         WLAN         8.42         ± 0.6 7           10687         AAA         IEEE 802.11ax (20MHz, MCS3, 9pc duty cycle)         WLAN         8.42         ± 0.6 7           10688         AAA         IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)         WLAN         8.25         ± 0.6 7           10689         AAA         IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)         WLAN         8.25         ± 0.6 7           10690         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.25         ± 0.6 7           10691         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.25         ± 0.6 7           10692         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.47         ± 0.6 7           10694         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.47         ± 0.6 7           10695         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.41         ± 0.6 7           10697         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cyc	10684	AAA				± 9.6 %
10686         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.28         ± 0.6 7           10687         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.45         ± 0.6 7           10688         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.29         ± 9.6 7           10690         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.22         ± 9.6 7           10690         AAA         IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)         WLAN         8.22         ± 9.6 7           10692         AAA         IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)         WLAN         8.22         ± 9.6 7           10693         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.27         ± 9.6 7           10694         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.7         ± 9.6 7           10695         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.61         ± 9.6 7           10696         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.61         ± 9.6 7           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cy						± 9.6 %
10687         AAA         IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)         WLAN         8.45         ± 0.6 7           10688         AAA         IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)         WLAN         8.25         ± 9.6 7           10689         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.25         ± 9.6 7           10690         AAA         IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)         WLAN         8.22         ± 9.6 7           10691         AAA         IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)         WLAN         8.25         ± 9.6 7           10692         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.27         ± 9.6 7           10693         AAA         IEEE 802.11ax (20MHz, MCS1, 9pc duty cycle)         WLAN         8.75         ± 9.6 7           10696         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.75         ± 9.6 7           10697         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.91         ± 9.6 7           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.42         ± 9.6 7           10699         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cy					-	
10688         AAA         IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)         WLAN         8.29         ± 9.6 9           10689         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.25         ± 9.6 9           10690         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.29         ± 9.6 9           10691         AAA         IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)         WLAN         8.25         ± 9.6 9           10693         AAA         IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)         WLAN         8.25         ± 9.6 9           10694         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.75         ± 9.6 9           10695         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.75         ± 9.6 9           10696         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.61         ± 9.6 9           10697         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.61         ± 9.6 9           10700         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10701         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty c			IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)			
10689         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.55         ± 9.6 9           10690         AAA         IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)         WLAN         8.25         ± 9.6 9           10692         AAA         IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)         WLAN         8.25         ± 9.6 9           10692         AAA         IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)         WLAN         8.25         ± 9.6 9           10693         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.57         ± 9.6 9           10696         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.76         ± 9.6 9           10697         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.61         ± 9.6 9           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.81         ± 9.6 9           10699         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10700         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.73         ± 9.6 9           10701         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty c			IEEE 802,11ax (20MHz, MCS5, 99pc duty cycle)			
10690         AAA         IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)         VILAN         8.29         ± 9.6 9           10691         AAA         IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)         VVLAN         8.29         ± 9.6 9           10692         AAA         IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)         VVLAN         8.29         ± 9.6 9           10693         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         VVLAN         8.25         ± 9.6 9           10694         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         VVLAN         8.75         ± 9.6 9           10696         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         VVLAN         8.78         ± 9.6 9           10697         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         VVLAN         8.81         ± 9.6 9           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         VVLAN         8.82         ± 9.6 9           10699         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         VVLAN         8.82         ± 9.6 9           10700         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         VVLAN         8.6 ± 9.6 9           10701         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle) <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
10691         AAA         IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)         WLAN         8.26         ± 9.6 9           10692         AAA         IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)         WLAN         8.29         ± 9.6 9           10693         AAA         IEEE 802.11ax (20MHz, MCS10, 99pc duty cycle)         WLAN         8.25         ± 9.6 9           10694         AAA         IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle)         WLAN         8.77         ± 9.6 9           10695         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.78         ± 9.6 9           10696         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.61         ± 9.6 9           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.89         ± 9.6 9           10699         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10700         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.86         ± 9.6 9           10701         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.86         ± 9.6 9           10704         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty				*		
10692         AAA         IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)         WLAN         8.29         ± 9.6 9           10693         AAA         IEEE 802.11ax (20MHz, MCS10, 99pc duty cycle)         WLAN         8.25         ± 9.6 9           10694         AAA         IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle)         WLAN         8.75         ± 9.6 9           10695         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.78         ± 9.6 9           10696         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.91         ± 9.6 9           10697         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.81         ± 9.6 9           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10700         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10701         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10702         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.86         ± 9.6 9           10704         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty			IEEE 802 11ax (20MHz, MCS8, 99pc duty cycle)			
10693         AAA         IEEE 802.11ax (20MHz, MCS10, 99pc duty cycle)         WLAN         8.22         ± 9.6.9           10694         AAA         IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)         WLAN         8.57         ± 9.6.9           10695         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.78         ± 9.6.9           10696         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.91         ± 9.6.9           10697         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.61         ± 9.6.9           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.82         ± 9.6.9           10699         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WLAN         8.82         ± 9.6.9           10700         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.82         ± 9.6.9           10701         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.70         ± 9.6.9           10703         AAA         IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)         WLAN         8.66         ± 9.6.9           10706         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc dut						
10694         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.57         ± 9.6 9           10695         AAA         IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle)         WLAN         8.78         ± 9.6 9           10696         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.61         ± 9.6 9           10697         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.61         ± 9.6 9           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.88         ± 9.6 9           10699         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.73         ± 9.6 9           10700         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.73         ± 9.6 9           10701         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.76         ± 9.6 9           10702         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.76         ± 9.6 9           10704         AAA         IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)         WLAN         8.66         ± 9.6 9           10706         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty		·f				
10695         AAA         IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle)         WLAN         8.78         ± 9.6 9           10696         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.61         ± 9.6 9           10697         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.61         ± 9.6 9           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10700         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10701         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10701         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10702         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)         WLAN         8.76 ± 9.6 9           10704         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)         WLAN         8.66 ± 9.6 9           10705         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.65 ± 9.6 9           10706         AAA         IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)         WLAN         8.65 ±		<u>,</u>	IEEE 802 11ax (20MHz, MOS11, 99pc duty cycle)			
10696         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.91         ±9.6 9           10697         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.61         ±9.6 9           10698         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.89         ±9.6 9           10699         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WLAN         8.82         ±9.6 9           10700         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.73         ±9.6 9           10710         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.70         ±9.6 9           10701         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.70         ±9.6 9           10702         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)         WLAN         8.82         ±9.6 9           10703         AAA         IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)         WLAN         8.65         ±9.6 9           10706         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.32         ±9.6 9           10707         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle) <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
10697         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.61         ± 9.6 9           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10699         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10700         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.73         ± 9.6 9           10701         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.66         ± 9.6 9           10702         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10703         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)         WLAN         8.66         ± 9.6 9           10704         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 9           10705         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 9           10707         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.55         ± 9.6 9           10708         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty c		+				
10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         VILAN         8.89         ± 9.6 %           10699         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WILAN         8.82         ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WILAN         8.82         ± 9.6 %           10701         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WILAN         8.73         ± 9.6 %           10702         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WILAN         8.82         ± 9.6 %           10703         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)         WILAN         8.36         ± 9.6 %           10704         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WILAN         8.66         ± 9.6 %           10705         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WILAN         8.35         ± 9.6 %           10706         AAA         IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)         WILAN         8.32         ± 9.6 %           10707         AAA         IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)         WILAN         8.33         ± 9.6 %           10710         AAA         IEEE 802.11ax (40MHz, MCS3, 9			IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)			
10699         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10700         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.73         ± 9.6 9           10701         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.73         ± 9.6 9           10702         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.86         ± 9.6 9           10703         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)         WLAN         8.82         ± 9.6 9           10704         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)         WLAN         8.66         ± 9.6 9           10705         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.69         ± 9.6 9           10706         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.65         ± 9.6 9           10707         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.32         ± 9.6 9           10708         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.33         ± 9.6 9           10710         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty c						
10700         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duly cycle)         WLAN         8.73         ± 9.6 9           10701         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duly cycle)         WLAN         8.70         ± 9.6 9           10702         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duly cycle)         WLAN         8.70         ± 9.6 9           10703         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duly cycle)         WLAN         8.86         ± 9.6 9           10704         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duly cycle)         WLAN         8.56         ± 9.6 9           10705         AAA         IEEE 802.11ax (40MHz, MCS10, 90pc duly cycle)         WLAN         8.69         ± 9.6 9           10706         AAA         IEEE 802.11ax (40MHz, MCS11, 90pc duly cycle)         WLAN         8.65         ± 9.6 9           10707         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duly cycle)         WLAN         8.35         ± 9.6 9           10709         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duly cycle)         WLAN         8.33         ± 9.6 9           10710         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duly cycle)         WLAN         8.33         ± 9.6 9           10711         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duly						
10701         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.86         ± 9.6 9           10702         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.70         ± 9.6 9           10703         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)         WLAN         8.86         ± 9.6 9           10704         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)         WLAN         8.66         ± 9.6 9           10705         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 9           10706         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 9           10707         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.32         ± 9.6 9           10708         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.33         ± 9.6 9           10710         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WLAN         8.33         ± 9.6 9           10710         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.39         ± 9.6 9           10711         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty c						
10702       AAA       IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)       WLAN       8.70       ± 9.6 9         10703       AAA       IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)       WLAN       8.82       ± 9.6 9         10704       AAA       IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)       WLAN       8.66       ± 9.6 9         10705       AAA       IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)       WLAN       8.69       ± 9.6 9         10706       AAA       IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)       WLAN       8.66       ± 9.6 9         10707       AAA       IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)       WLAN       8.32       ± 9.6 9         10708       AAA       IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10709       AAA       IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10711       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10711       AAA       IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10712       AAA       IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10714						
10703       AAA       IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)       WLAN       8.82       ± 9.6 ?         10704       AAA       IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)       WLAN       8.69       ± 9.6 ?         10705       AAA       IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)       WLAN       8.69       ± 9.6 ?         10706       AAA       IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)       WLAN       8.66       ± 9.6 ?         10707       AAA       IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)       WLAN       8.66       ± 9.6 ?         10708       AAA       IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)       WLAN       8.32       ± 9.6 ?         10709       AAA       IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)       WLAN       8.33       ± 9.6 ?         10710       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.33       ± 9.6 ?         10711       AAA       IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)       WLAN       8.39       ± 9.6 ?         10712       AAA       IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)       WLAN       8.39       ± 9.6 ?         10714       AAA       IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)       WLAN       8.33       ± 9.6 ?         10715						
10704         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)         WLAN         8.56         ± 9.6 9           10705         AAA         IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)         WLAN         8.69         ± 9.6 9           10706         AAA         IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)         WLAN         8.66         ± 9.6 9           10707         AAA         IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)         WLAN         8.32         ± 9.6 9           10708         AAA         IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)         WLAN         8.32         ± 9.6 9           10709         AAA         IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)         WLAN         8.33         ± 9.6 9           10710         AAA         IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)         WLAN         8.33         ± 9.6 9           10711         AAA         IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)         WLAN         8.33         ± 9.6 9           10712         AAA         IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)         WLAN         8.33         ± 9.6 9           10713         AAA         IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)         WLAN         8.33         ± 9.6 9           10714         AAA         IEEE 802.11ax (40MHz, MCS10, 99pc dut					<u> </u>	
10705       AAA       IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)       WLAN       8.69       ± 9.6 9         10706       AAA       IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)       WLAN       8.66       ± 9.6 9         10707       AAA       IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)       WLAN       8.32       ± 9.6 9         10708       AAA       IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)       WLAN       8.32       ± 9.6 9         10709       AAA       IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)       WLAN       8.33       ± 9.6 9         10710       AAA       IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)       WLAN       8.33       ± 9.6 9         10711       AAA       IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)       WLAN       8.39       ± 9.6 9         10712       AAA       IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)       WLAN       8.33       ± 9.6 9         10712       AAA       IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)       WLAN       8.33       ± 9.6 9         10713       AAA       IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)       WLAN       8.33       ± 9.6 9         10714       AAA       IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)       WLAN       8.45       ± 9.6 9         10716						
10706       AAA       IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)       WLAN       8.66       ± 9.6 9         10707       AAA       IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)       WLAN       8.32       ± 9.6 9         10708       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10709       AAA       IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10710       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10711       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.29       ± 9.6 9         10712       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.39       ± 9.6 9         10712       AAA       IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10713       AAA       IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10714       AAA       IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)       WLAN       8.26       ± 9.6 9         10715       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.45       ± 9.6 9         10716			IFEE 802 11ax (40MHz MOS10 9000 duty cycle)			
10707         AAA         IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)         WLAN         8.32         ± 9.6         9           10708         AAA         IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)         WLAN         8.33         ± 9.6         9           10709         AAA         IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)         WLAN         8.33         ± 9.6         9           10710         AAA         IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)         WLAN         8.33         ± 9.6         9           10711         AAA         IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)         WLAN         8.39         ± 9.6         9           10712         AAA         IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)         WLAN         8.33         ± 9.6         9           10711         AAA         IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)         WLAN         8.33         ± 9.6         9           10712         AAA         IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)         WLAN         8.33         ± 9.6         9           10714         AAA         IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)         WLAN         8.45         ± 9.6         9           10716         AAA         IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)         WLAN						
10708       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.55       ± 9.6 9         10709       AAA       IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10710       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10711       AAA       IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)       WLAN       8.39       ± 9.6 9         10712       AAA       IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10712       AAA       IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10713       AAA       IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10714       AAA       IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10715       AAA       IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)       WLAN       8.45       ± 9.6 9         10716       AAA       IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)       WLAN       8.30       ± 9.6 9         10717       AAA       IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)       WLAN       8.48       ± 9.6 9         10719						
10709         AAA         IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)         WLAN         8.33         ± 9.6 9           10710         AAA         IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)         WLAN         8.29         ± 9.6 9           10711         AAA         IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)         WLAN         8.39         ± 9.6 9           10712         AAA         IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)         WLAN         8.33         ± 9.6 9           10712         AAA         IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)         WLAN         8.33         ± 9.6 9           10713         AAA         IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)         WLAN         8.33         ± 9.6 9           10714         AAA         IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)         WLAN         8.33         ± 9.6 9           10715         AAA         IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)         WLAN         8.45         ± 9.6 9           10716         AAA         IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)         WLAN         8.48         ± 9.6 9           10717         AAA         IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)         WLAN         8.48         ± 9.6 9           10719         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty						
10710       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.29       ± 9.6 9         10711       AAA       IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)       WLAN       8.39       ± 9.6 9         10712       AAA       IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)       WLAN       8.39       ± 9.6 9         10712       AAA       IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)       WLAN       8.67       ± 9.6 9         10713       AAA       IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10714       AAA       IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)       WLAN       8.33       ± 9.6 9         10715       AAA       IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)       WLAN       8.30       ± 9.6 9         10716       AAA       IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)       WLAN       8.45       ± 9.6 9         10717       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.48       ± 9.6 9         10718       AAA       IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)       WLAN       8.81       ± 9.6 9         10719       AAA       IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)       WLAN       8.81       ± 9.6 9         10720			IEEE 802.11ax (40MHz, MCS2, 90pa duty availa)			
10711AAAIEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)WLAN8.39± 9.6 910712AAAIEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)WLAN8.67± 9.6 910713AAAIEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)WLAN8.33± 9.6 910714AAAIEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)WLAN8.33± 9.6 910715AAAIEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)WLAN8.26± 9.6 910716AAAIEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)WLAN8.45± 9.6 910716AAAIEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)WLAN8.45± 9.6 910717AAAIEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)WLAN8.48± 9.6 910718AAAIEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)WLAN8.48± 9.6 910719AAAIEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)WLAN8.74± 9.6 910720AAAIEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)WLAN8.81± 9.6 910720AAAIEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)WLAN8.76± 9.6 910721AAAIEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)WLAN8.76± 9.6 910722AAAIEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)WLAN8.76± 9.6 910723AAAIEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)WLAN8.70± 9.6 910724AAAIEEE 802.11ax (80MHz, MCS5, 90pc duty cycle) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
10712AAAIEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)WLAN8.67± 9.6 910713AAAIEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)WLAN8.33± 9.6 910714AAAIEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)WLAN8.26± 9.6 910715AAAIEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)WLAN8.26± 9.6 910716AAAIEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)WLAN8.45± 9.6 910716AAAIEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)WLAN8.45± 9.6 910717AAAIEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)WLAN8.48± 9.6 910718AAAIEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)WLAN8.48± 9.6 910719AAAIEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)WLAN8.81± 9.6 910720AAAIEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)WLAN8.87± 9.6 910721AAAIEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)WLAN8.76± 9.6 910722AAAIEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)WLAN8.76± 9.6 910723AAAIEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)WLAN8.70± 9.6 910724AAAIEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)WLAN8.74± 9.6 910725AAAIEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)WLAN8.74± 9.6 9						
10713AAAIEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)WLAN8.33± 9.6 910714AAAIEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)WLAN8.26± 9.6 910715AAAIEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)WLAN8.45± 9.6 910716AAAIEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)WLAN8.45± 9.6 910716AAAIEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)WLAN8.45± 9.6 910717AAAIEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)WLAN8.48± 9.6 910718AAAIEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)WLAN8.48± 9.6 910719AAAIEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)WLAN8.81± 9.6 910720AAAIEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)WLAN8.87± 9.6 910721AAAIEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)WLAN8.76± 9.6 910722AAAIEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)WLAN8.76± 9.6 910723AAAIEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)WLAN8.70± 9.6 910724AAAIEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)WLAN8.70± 9.6 910725AAAIEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)WLAN8.74± 9.6 9						
10714AAAIEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)WLAN8.26± 9.6 910715AAAIEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)WLAN8.45± 9.6 910716AAAIEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)WLAN8.45± 9.6 910717AAAIEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)WLAN8.30± 9.6 910717AAAIEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)WLAN8.48± 9.6 910718AAAIEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)WLAN8.48± 9.6 910719AAAIEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)WLAN8.81± 9.6 910720AAAIEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)WLAN8.87± 9.6 910721AAAIEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)WLAN8.76± 9.6 910722AAAIEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)WLAN8.76± 9.6 910723AAAIEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)WLAN8.70± 9.6 910724AAAIEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)WLAN8.70± 9.6 910725AAAIEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)WLAN8.74± 9.6 9						
10715         AAA         IEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)         WLAN         8.45         ± 9.6 9           10716         AAA         IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)         WLAN         8.30         ± 9.6 9           10717         AAA         IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)         WLAN         8.30         ± 9.6 9           10717         AAA         IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)         WLAN         8.48         ± 9.6 9           10718         AAA         IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)         WLAN         8.24         ± 9.6 9           10719         AAA         IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)         WLAN         8.81         ± 9.6 9           10720         AAA         IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)         WLAN         8.87         ± 9.6 9           10721         AAA         IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)         WLAN         8.76         ± 9.6 9           10722         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.76         ± 9.6 9           10723         AAA         IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)         WLAN         8.70         ± 9.6 9           10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty						
10716AAAIEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)WLAN $8.30$ $\pm 9.6$ $9$ 10717AAAIEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)WLAN $8.48$ $\pm 9.6$ $9$ 10718AAAIEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)WLAN $8.48$ $\pm 9.6$ $9$ 10719AAAIEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)WLAN $8.24$ $\pm 9.6$ $9$ 10719AAAIEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)WLAN $8.81$ $\pm 9.6$ $9$ 10720AAAIEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)WLAN $8.87$ $\pm 9.6$ $9$ 10721AAAIEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)WLAN $8.76$ $\pm 9.6$ $9$ 10722AAAIEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)WLAN $8.55$ $\pm 9.6$ $9$ 10723AAAIEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)WLAN $8.70$ $\pm 9.6$ $9$ 10724AAAIEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)WLAN $8.70$ $\pm 9.6$ $9$ 10725AAAIEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)WLAN $8.74$ $\pm 9.6$ $9$						
10717         AAA         IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)         WLAN         8.48         ± 9.6 9           10718         AAA         IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)         WLAN         8.24         ± 9.6 9           10719         AAA         IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)         WLAN         8.24         ± 9.6 9           10719         AAA         IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)         WLAN         8.81         ± 9.6 9           10720         AAA         IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)         WLAN         8.87         ± 9.6 9           10721         AAA         IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)         WLAN         8.76         ± 9.6 9           10722         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.75         ± 9.6 9           10722         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.55         ± 9.6 9           10723         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.70         ± 9.6 9           10724         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 9           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc dut						
10718         AAA         IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)         WLAN         8.24         ± 9.6 9           10719         AAA         IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)         WLAN         8.81         ± 9.6 9           10720         AAA         IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)         WLAN         8.81         ± 9.6 9           10720         AAA         IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)         WLAN         8.87         ± 9.6 9           10721         AAA         IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)         WLAN         8.76         ± 9.6 9           10722         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.55         ± 9.6 9           10723         AAA         IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)         WLAN         8.70         ± 9.6 9           10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.90         ± 9.6 9           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 9	10710					
10719         AAA         IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)         WLAN         8.81         ± 9.6 9           10720         AAA         IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)         WLAN         8.81         ± 9.6 9           10721         AAA         IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)         WLAN         8.76         ± 9.6 9           10722         AAA         IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)         WLAN         8.76         ± 9.6 9           10722         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.55         ± 9.6 9           10723         AAA         IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)         WLAN         8.70         ± 9.6 9           10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.90         ± 9.6 9           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 9						
10720         AAA         IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)         WLAN         8.87         ± 9.6 9           10721         AAA         IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)         WLAN         8.76         ± 9.6 9           10722         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.55         ± 9.6 9           10723         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.55         ± 9.6 9           10723         AAA         IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)         WLAN         8.70         ± 9.6 9           10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.90         ± 9.6 9           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 9						
10721         AAA         IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)         WLAN         8.76         ± 9.6 9           10722         AAA         IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)         WLAN         8.55         ± 9.6 9           10723         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.55         ± 9.6 9           10723         AAA         IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)         WLAN         8.70         ± 9.6 9           10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.90         ± 9.6 9           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 9						± 9.6 %
10722         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.55         ± 9.6 %           10723         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.90         ± 9.6 %           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 %						± 9.6 %
10723         AAA         IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)         WLAN         8.70         ± 9.6 9           10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.90         ± 9.6 9           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 9						
10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.90         ± 9.6 %           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 %						± 9.6 %
10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 9						±9.6 %
						±9.6 %
10726   AAA   IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)   WLAN   8.72   ± 9.6 %						±9.6 %
	10726	AAA	IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6 %

10727	AAA	IEEE 802.11ax (80MHz, MCS8, 90pc duty cycle)	WLAN	8.66	± 9.6 %
10728	AAA	IEEE 802.11ax (80MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6 %
10729	AAA	IEEE 802.11ax (80MHz, MCS10, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10730	AAA	IEEE 802.11ax (80MHz, MCS11, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10731	AAA	IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10732	AAA	IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle)	WLAN	8.46	± 9,6 %
10733	AAA	IEEE 802.11ax (80MHz, MCS2, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10733		IEEE 802.11ax (80MHz, MCS3, 99pc duty cycle)	WLAN	8.25	± 9.6 %
	AAA				
10735	AAA	IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10736	AAA	IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10737	AAA	IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10738	AAA	IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10739	AAA	IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10740	AAA	IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)	WLAN	8,48	± 9.6 %
10741	AAA	IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10742	AAA	IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10743	AAA	IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10744	AAA	IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)	WLAN	9.16	± 9.6 %
10745	AAA	IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)	WLAN	8.93	± 9.6 %
10746	AAA	IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9.6 %
10747	AAA	IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)	WLAN	9.04	± 9.6 %
10748	AAA	IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)	WLAN	8.93	± 9.6 %
10749	AAA	IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10750	AAA	IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10751	AAA	IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10752	AAA	IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10753	AAA	IEEE 802.11ax (160MHz, MCS3, 300c duty cycle)	WLAN	9.00	± 9.6 %
			WLAN		
10754	AAA	IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)		8.94	± 9.6 %
10755		IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)	WLAN	8.64	± 9.6 %
10756	AAA	IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10757	AAA	IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10758	AAA	IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10759	AAA	IEEE 802.11ax (160MHz, MCS4, 99pc duty cycle)	WLAN	8.58	± 9.6 %
10760	AAA	IEEE 802.11ax (160MHz, MCS5, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10761	AAA	IEEE 802.11ax (160MHz, MCS6, 99pc duty cycle)	WLAN	8.58	± 9.6 %
10762	AAA	IEEE 802.11ax (160MHz, MCS7, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10763	AAA	IEEE 802.11ax (160MHz, MCS8, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10764	AAA	IEEE 802.11ax (160MHz, MCS9, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10765	AAA	IEEE 802.11ax (160MHz, MCS10, 99pc duty cycle)	WLAN	8,54	± 9.6 %
10766	AAA	IEEE 802.11ax (160MHz, MCS11, 99pc duty cycle)	WLAN	8.51	± 9.6 %
10767	AAB	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1	7.99	± 9.6 %
			TDD		
10768	AAB	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1	8.01	± 9.6 %
			TDD		
10769	AAB	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1	8.01	± 9.6 %
			TDD	5.51	_ 0.0 ,0
10770	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1	8.02	± 9.6 %
10110	,		TDD	0.02	- 0.0 /0
10771	AAB	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1	8.02	± 9.6 %
10771		00 NIN (UF-UFDIVI, 1 ND, 20 WINZ, QFON, 10 KNZ)	TDD	0.02	1 2 3.0 %
40770		FOND (OD OFDM 4 DD 20 MU- ODOK 45 MU-		0.00	
10772	AAB	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1	8.23	± 9.6 %
40770				0.00	
10773	AAB	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1	8.03	± 9.6 %
10771				0.00	
10774	AAB	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1	8.02	± 9.6 %
10776	AAB	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1	8.30	± 9.6 %
			TDD		
10778	AAB	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1	8.34	± 9.6 %
			TDD		
10780	AAB	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1	8.38	± 9.6 %
		· · · · · · · · · · · · · · · · · · ·	TDD		
10781	AAB	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1	8.38	± 9.6 %
			TDD		
	AAB	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1	8.43	± 9.6 %

			TDD	·····	1
10783	AAB	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10784	AAB	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,29	± 9.6 %
10785	AAB	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAB	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAB	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAB	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAB	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAB	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAB	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAB	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAB	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAB	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAB	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAB	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAB	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1	7.89	± 9.6 %
10799	AAB	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1	7.93	± 9.6 %
10801	AAB	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	TDD 5G NR FR1	7.89	± 9.6 %
10802	AAB	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	TDD 5G NR FR1 TDD	7.87	± 9.6 %
10803	AAB	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAB	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1	8.34	± 9.6 %
10806	AAB	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1	8.37	± 9.6 %
10809	AAB	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAB	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAB	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1	8.35	± 9.6 %
10817	AAB	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAB	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1	8.34	± 9.6 %
10819	AAB	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	TDD 5G NR FR1	8.33	± 9.6 %
10820	AAB	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1	8.30	± 9.6 %
10821	AAB	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	TDD 5G NR FR1	8.41	± 9.6 %
10822	AAB	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1	8.41	± 9.6 %
10823	AAB	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	TDD 5G NR FR1	8.36	± 9.6 %
10824	AAB	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	TDD 5G NR FR1	8.39	± 9.6 %

	1		TDD		1
10825	AAB	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8,41	± 9.6 %
10827	AAB	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8,42	± 9.6 %
10828	AAB	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAB	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAB	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAB	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAB	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAB	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAB	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAB	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAB	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1	7.70	± 9.6 %
10840	AAB	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1	7.67	± 9.6 %
10841	AAB	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1	7.71	± 9.6 %
10843	AAB	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1	8.49	± 9.6 %
10844	AAB	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	TDD 5G NR FR1	8.34	± 9.6 %
10846	AAB	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	TDD 5G NR FR1	8.41	± 9.6 %
10854	AAB	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	TDD 5G NR FR1 TDD	8.34	± 9.6 %
10855	ААВ	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1	8.36	± 9.6 %
10856	AAB	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	TDD 5G NR FR1 TDD	8.37	± 9.6 %
10857	AAB	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1	8,35	± 9.6 %
10858	AAB	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	TDD 5G NR FR1	8,36	± 9.6 %
10859	AAB	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1	8.34	± 9.6 %
10860	AAB	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1	8.41	± 9.6 %
10861	AAB	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	TDD 5G NR FR1	8.40	± 9.6 %
10863	ААВ	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1	8.41	± 9.6 %
10864	AAB	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1	8.37	± 9.6 %
10865	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1	8.41	± 9.6 %
10866	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	TDD 5G NR FR1	5.68	± 9.6 %
10868	AAB	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	TDD 5G NR FR1	5.89	± 9.6 %
10869	AAC	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	TDD 5G NR FR2	5.75	± 9.6 %
10870	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	TDD 5G NR FR2	5.86	± 9.6 %

10871	AAC		TDD		
		5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAC	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2	6.65	± 9.6 %
10875	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	TDD 5G NR FR2	7.78	± 9.6 %
10876	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2	8.39	± 9.6 %
10877	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	TDD 5G NR FR2	7.95	± 9.6 %
10878	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	TDD 5G NR FR2	8.41	± 9.6 %
10879	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	TDD 5G NR FR2	8.12	± 9.6 %
10880	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	TDD		
10881	AAC		5G NR FR2 TDD	8.38	± 9.6 %
		5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6 %
10883	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6 %
10884	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2	6.61	± 9.6 %
10886	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	TDD 5G NR FR2	6.65	± 9.6 %
10887	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	TDD 5G NR FR2	7.78	± 9.6 %
10888	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2	8.35	± 9.6 %
10889	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	TDD 5G NR FR2	8.02	± 9.6 %
10890	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	TDD 5G NR FR2	8.40	± 9.6 %
10891	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	TDD		
10892	AAC		5G NR FR2 TDD	8.13	± 9.6 %
10092		5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %

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

# Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland BC MRA



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

Client PC Test

Certificate No: EX3-7357\_Apr19

## CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:7357	
Calibration procedure(s)	QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7 Calibration procedure for dosimetric E-field probes	۹
Calibration date:	April 24, 2019	
	nents the traceability to national standards, which realize the physical units of measurements (SI). ertainties 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	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	19-Dec-18 (No. DAE4-660_Dec18)	Dec-19
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec18)	Dec-19
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19

	Name	Function	Signature
Calibrated by:	Claudio Leubler	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	AV K (-
			10 16 <del>30</del>
			Issued: April 24, 2019
This calibration certificate	e shall not be reproduced except in full	without written approval of the labo	pratory.

### 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)

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### Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivitý 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 φ	φ rotation around probe axis
Polarization 9	9 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 DACV surface to all successive and the surgery of the state of

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

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

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 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 E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx, y, z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- *PAR:* PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; 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).

### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) <sup>2</sup> ) <sup>A</sup>	0.37	0.48	0.41	± 10.1 %
DCP (mV) <sup>B</sup>	87.5	101.0	95.2	

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

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	175.5	± 2.7 %	± 4.7 %
		Y	0.00	0.00	1.00		162.7		
		Z	0.00	0.00	1.00		160.1	1	
10352-	Pulse Waveform (200Hz, 10%)	X	1.63	60.99	8.59	10.00	60.0	± 3.2 %	± 9.6 %
AAA		Y	15.00	88.78	20,10		60.0	1	
		Z	1.92	62,77	9.39	1	60.0	1	
10353-	Pulse Waveform (200Hz, 20%)	X	1.28	62.05	7.66	6.99	80.0	± 2,1 %	± 9.6 %
AAA		Y	15.00	92.12	20,60		80.0	1	
		Z	1.44	63.37	8.24		80.0	1	
10354-	Pulse Waveform (200Hz, 40%)	X	0.53	60.00	5.08	3.98	95.0	± 1.2 %	± 9.6 %
AAA		Y	15.00	98.74	22,38		95.0	1	
		Z	0.50	60.00	4.96		95.0	1	
10355-	Pulse Waveform (200Hz, 60%)	X	0.34	60.00	3.46	2.22	120.0	± 1.3 %	± 9.6 %
AAA		Y	15.00	122.09	31.59		120.0	1	
		Z	0.32	60.00	3.17		120.0		
10387-	QPSK Waveform, 1 MHz	X	0.47	60.00	5.85	0.00	150.0	± 3.4 %	± 9.6 %
AAA		Y	0.84	63.60	10,73		150.0	1	
		Z	0.47	60.00	5.64		150.0	1	
10388-	QPSK Waveform, 10 MHz	X	2.22	69.17	16.45	0.00	150.0	± 1.2 %	± 9.6 %
AAA		Y	2.39	69.28	16.48		150.0	1	
		Z	2.05	67.86	15.44		150.0	1	
10396-	64-QAM Waveform, 100 kHz	X	1.74	66.32	18.65	3.01	150.0	±6.4 %	±9.6 %
AAA		Y	3.21	72.13	19.45		150.0	1	
		Z	2.50	68.64	18.00		150.0		
10399-	64-QAM Waveform, 40 MHz	X	3.50	67.46	16.21	0.00	150.0	± 2.5 %	± 9.6 %
AAA		Y	3.59	67.57	16.11		150.0		
		Z	3.40	67.11	15.75		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.79	65.80	15.93	0.00	150.0	±4.6 %	± 9.6 %
AAA		Y	4.92	65.80	15.71		150.0		
		Z	4.73	65.72	15.66	1	150.0	Ì	]

Note: For details on UID parameters see Appendix

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

 <sup>&</sup>lt;sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6).
 <sup>B</sup> Numerical linearization parameter: uncertainty not required.
 <sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

	C1 fF	C2 fF	α V <sup>-1</sup>	T1 ms.V <sup>-2</sup>	T2 ms.V⁻¹	T3 ms	T4 V⁻²	T5 V <sup>-1</sup>	Т6
Х	37.3	299.85	40.64	5.98	0.77	5.00	0.00	0.00	1.02
Y	48.9	366.83	35.90	10.43	0.11	5.09	1.58	0.24	1.01
Z	37.8	294.77	38.42	5.12	0.55	5.04	0.00	0.43	1.01

### **Sensor Model Parameters**

### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	14.2
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

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
64	54.2	0.75	14.77	14.77	14.77	0.00	1.00	± 13.3 %
750	41.9	0.89	10.26	10.26	10.26	0.45	0.95	± 12.0 %
835	41.5	0.90	9.91	9.91	9.91	0.53	0.85	± 12.0 %
1750	40.1	1.37	8.69	8.69	8.69	0.35	0.80	± 12.0 %
1900	40.0	1.40	8.26	8.26	8.26	0.33	0.84	± 12.0 %
2300	39.5	1.67	7.70	7.70	7.70	0.33	0.85	± 12.0 %
2450	39.2	1.80	7.57	7.57	7.57	0.39	0.85	± 12.0 %
2600	39.0	1.96	7.31	7.31	7.31	0.40	0.80	± 12.0 %
5250	35.9	4.71	5.45	5.45	5.45	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.85	4.85	4.85	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.06	5.06	5.06	0.40	1.80	± 13.1 %

### Calibration Parameter Determined in Head Tissue Simulating Media

<sup>c</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz. <sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to

<sup>6</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\varepsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\varepsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. <sup>6</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

<sup>o</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.

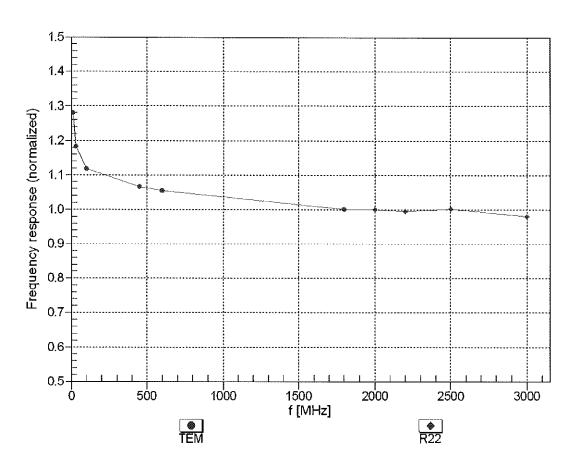
f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	55.5	0.96	10.19	10.19	10.19	0.37	0.96	± 12.0 %
835	55.2	0.97	9.95	9.95	9.95	0.47	0.80	± 12.0 %
1750	53.4	1.49	8.26	8.26	8.26	0.35	0.85	± 12.0 %
1900	53.3	1.52	7.93	7.93	7.93	0.32	0.90	± 12.0 %
2300	52.9	1.81	7.72	7.72	7.72	0.30	0.85	± 12.0 %
2450	52.7	1.95	7.59	7.59	7.59	0.35	0.86	± 12.0 %
2600	52.5	2.16	7.39	7.39	7.39	0.32	0.89	± 12.0 %
5250	48.9	5.36	4.61	4.61	4.61	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.03	4.03	4.03	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.15	4.15	4.15	0.50	1.90	± 13.1 %

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

<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.

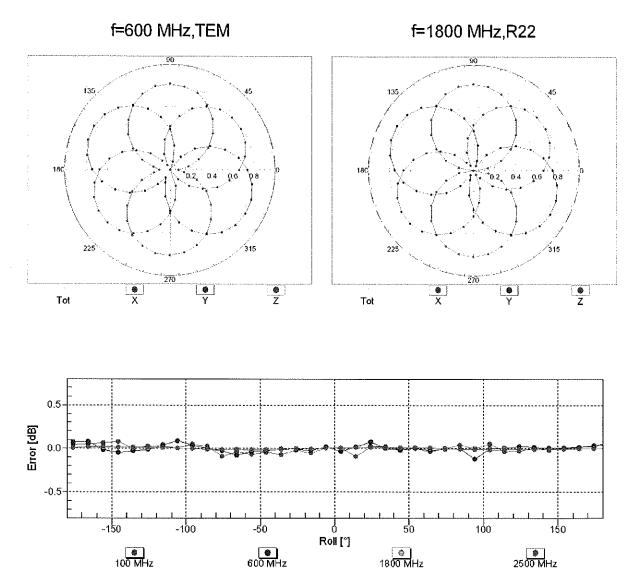
At frequencies below 3 GHz, the validity of tissue parameters (c and o) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (c and o) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. <sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

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



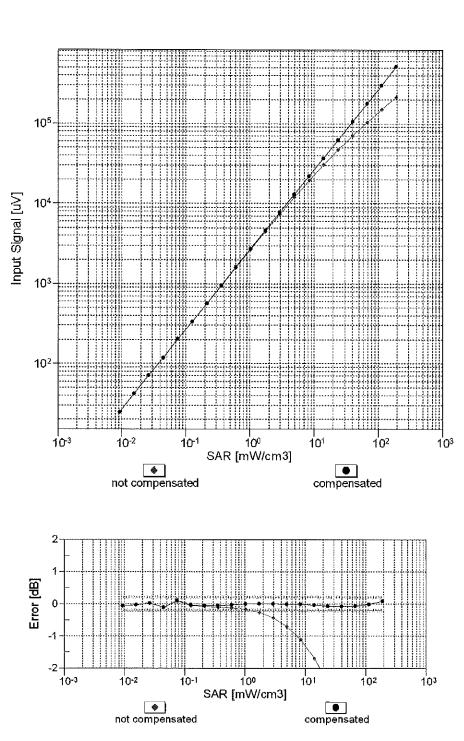
## Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

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



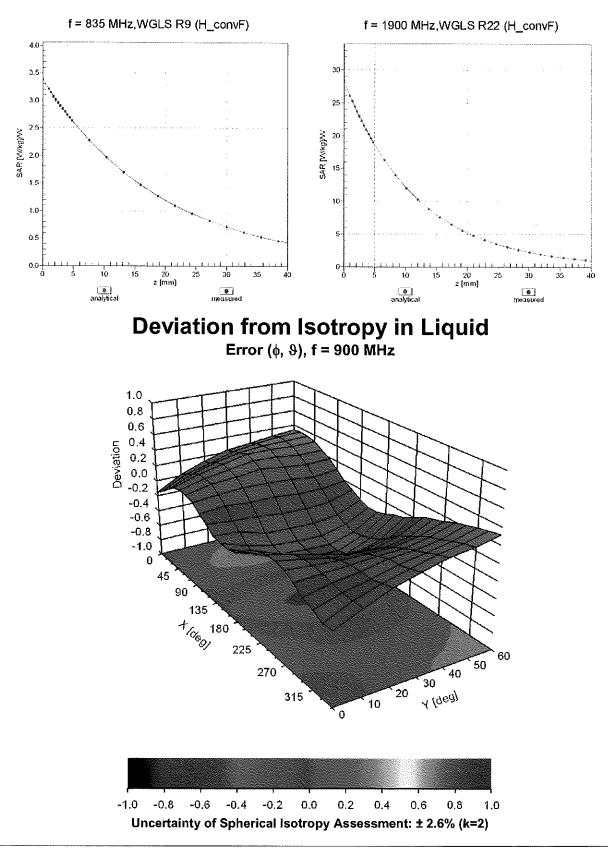
# Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

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**

### Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR	Unc <sup>E</sup>
				(dB)	(k=2)
0		CW	CW	0.00	±4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA WLAN	2.91 1.87	<u>±9.6 %</u> ±9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	9.46	
10013 10021	CAB DAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) GSM-FDD (TDMA, GMSK)	GSM	9.46	±9.6 % ±9.6 %
10021	DAC	GPRS-FDD (TDMA, GMSK) GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.59	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0) GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10024	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6 %
10020	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		IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6%
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth CDMA2000	4.10	±9.6 % ±9.6 %
10039 10042	CAB CAB	CDMA2000 (1xRTT, RC1) IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	4.57 7.78	±9.6 %
10042	CAB	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10044	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10045	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	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6 % ±9.6 %
10069	CAC CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps) IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN WLAN	10.56 9.83	±9.6 % ±9.6 %
10071		IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.63	$\pm 9.6\%$
10072		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, 10 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	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	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	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	$\pm 9.6\%$
10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %

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	1				
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)			± 9.6 %
10119	CAC	IEEE 802.11n (HT Mixed, 31 Mbps, 10-QAM)	WLAN	8.59	± 9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	WLAN	8.13	± 9.6 %
10140	CAE		LTE-FDD	6.49	± 9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
		LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)		\$	± 9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	5.79	± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.49	± 9,6 %
10159	CAG		LTE-FDD	6.62	± 9.6 %
10155	CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6%
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD		$\pm 9.6\%$ $\pm 9.6\%$
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	5.72	
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)		6.52	$\pm 9.6\%$
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	6.50	± 9.6 %
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	5.73	±9.6%
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6%
10186	CAF		LTE-FDD	6.50	± 9.6 %
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6%
		LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10193	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6 %
10194	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6 %
10195	CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6 %
10196	CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10197	CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8,13	±9.6%
10198	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10219	CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %

10220	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6 %
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA ·	5.97	±9.6 %
10226	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6 %
10227	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6 %
10228	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6 %
10229	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9,48	±9.6 %
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9,19	± 9.6 %
10232	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10233	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10234	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6%
10234	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6%
10235					± 9.6 %
	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	
10237	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10241	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6 %
10243	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6%
10245	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6 %
10247	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6 %
10248	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6 %
10249	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6 %
10250	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6 %
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6 %
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 10-QAM)	LTE-TDD	10.08	± 9.6 %
10257	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 04-0400)	LTE-TDD	9.34	± 9.6 %
			LTE-TDD	9.98	± 9.6 %
10259	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)			
10260	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	<u>±9.6%</u>
10262	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	$\pm 9.6\%$
10263	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAB	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 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, 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 %
10291	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.50	± 9.6 %
10293	AAB	CDMA2000, RC3, SO3, Pull Rate CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	$\pm 9.6\%$
			LTE-FDD	5.81	$\pm 9.6\%$
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)			
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	$\pm 9.6\%$
10299	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %

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10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	12.03	± 9.6 %
10302	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL	WIMAX	12.57	± 9.6 %
		symbols)		12.01	1 3.0 %
10303	AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15	WIMAX	15.24	± 9.6 %
		symbols)		13.24	1 3.0 %
10306	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18	WIMAX	14.67	± 9.6 %
		symbols)		14.07	1 0.0 %
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18	WIMAX	14.49	± 9.6 %
		symbols)		14.40	1 0.0 %
10308	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WIMAX	14.46	± 9.6 %
10309	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18	WIMAX	14.58	± 9.6 %
		symbols)		1-1.00	1 0.0 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18	WIMAX	14.57	± 9.6 %
		symbols)			10.0 %
10311	AAD	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	AAC	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	
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic		± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)		2.22	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	0.97	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.10	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	5.22	± 9.6 %
10390	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10399	AAD		Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10401		IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	± 9.6 %
10402	AAD AAB	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404		CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6 %
10410	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
40444	AAA	Subframe=2,3,4,7,8,9, Subframe Conf=4)			
10414	LAAA				
10415		WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	±9.6 %
	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	± 9.6 %
10416	AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN WLAN	1.54 8.23	± 9.6 % ± 9.6 %
10416 10417	AAA AAA AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN WLAN WLAN	1.54 8.23 8.23	± 9.6 % ± 9.6 % ± 9.6 %
10416	AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle,	WLAN WLAN	1.54 8.23	± 9.6 % ± 9.6 %
10416 10417 10418	AAA AAA AAB AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10416 10417	AAA AAA AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle,	WLAN WLAN WLAN	1.54 8.23 8.23	± 9.6 % ± 9.6 % ± 9.6 %
10416 10417 10418 10419	ААА ААА ААВ ААА ААА	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19	$\begin{array}{r} \pm 9.6 \% \\ \end{array}$
10416 10417 10418 10419 10422	AAA AAB AAA AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10416 10417 10418 10419 10422 10423	AAA AAB AAA AAA AAA AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32 8.32 8.47	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10416 10417 10418 10419 10422 10423 10424	AAA AAB AAA AAA AAA AAB AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 7.2 Mbps, 64-QAM)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32 8.47 8.40	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10416 10417 10418 10419 10422 10423 10424 10425	AAA AAB AAA AAA AAA AAB AAB AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32 8.32 8.47	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10416 10417 10418 10419 10422 10423 10423 10424 10425 10426	AAA AAB AAA AAA AAB AAB AAB AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32 8.47 8.40	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10416 10417 10418 10419 10422 10423 10424 10425 10426 10427	AAA AAB AAA AAA AAB AAB AAB AAB AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32 8.47 8.40 8.41	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10416           10417           10418           10419           10422           10423           10424           10425           10426           10427	AAA AAB AAA AAA AAB AAB AAB AAB AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32 8.47 8.40 8.41 8.45	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10416           10417           10418           10419           10422           10423           10424           10425           10426           10427           10430	AAA AAB AAA AAA AAB AAB AAB AAB AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32 8.47 8.40 8.41 8.45 8.41 8.28	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10416           10417           10418           10419           10422           10423           10424           10425           10426           10427           10430           10431	AAA AAB AAA AAA AAB AAB AAB AAB AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32 8.47 8.40 8.41 8.45 8.41 8.28 8.38	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10416           10417           10418           10419           10422           10423           10424           10425           10426           10427           10430           10431           10432	AAA AAB AAA AAA AAB AAB AAB AAB AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32 8.47 8.40 8.41 8.45 8.41 8.28	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10416           10417           10418           10419           10422           10423           10424           10425           10426           10427           10430           10431           10432	AAA AAB AAA AAA AAB AAB AAB AAB AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 15 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32 8.47 8.40 8.41 8.45 8.41 8.28 8.38 8.34 8.34	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10416           10417           10418           10419           10422           10423           10424           10425           10426           10427           10430           10431           10432	AAA AAB AAA AAB AAB AAB AAB AAB AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 7.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 15 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32 8.47 8.40 8.41 8.45 8.41 8.28 8.38 8.34 8.34 8.34 8.60	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10416           10417           10418           10419           10422           10423           10424           10425           10426           10427           10430           10431           10432	AAA AAB AAA AAB AAB AAB AAB AAB AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 7.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32 8.47 8.40 8.41 8.45 8.41 8.28 8.38 8.34 8.34	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10416           10417           10418           10419           10422           10423           10424           10425           10426           10427           10430           10431           10432	AAA AAB AAA AAB AAB AAB AAB AAB AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 15 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32 8.47 8.40 8.41 8.45 8.41 8.28 8.38 8.34 8.34 8.34 8.60 7.82	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \\$
10416           10417           10418           10419           10422           10423           10424           10425           10426           10427           10430           10431           10432           10433           10434	AAA AAB AAA AAB AAB AAB AAB AAB AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEE 70D (OFDMA, 5 MHz, E-TM 3.1) LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) UTE-FDD (OFDMA, 20 MHz, E-TM 3.1) LTE-FDD (OFDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.54         8.23         8.123         8.14         8.19         8.32         8.47         8.40         8.41         8.45         8.41         8.28         8.38         8.34         8.34         8.34         8.34         7.56	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10416           10417           10418           10419           10422           10423           10424           10425           10426           10427           10430           10431           10432           10433           10434           10435	AAA AAB AAA AAB AAB AAB AAB AAB AAB AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 15 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.54 8.23 8.23 8.14 8.19 8.32 8.47 8.40 8.41 8.45 8.41 8.28 8.38 8.34 8.34 8.34 8.60 7.82	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \\$

10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10451	AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	± 9.6 %
10455	AAA	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	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6 %
10461	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL	LTE-TDD	7,82	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10462	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.30	±9.6 %
		Subframe=2,3,4,7,8,9)			
10463	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.56	±9.6 %
		Subframe=2,3,4,7,8,9)			
10464	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL	LTE-TDD	7.82	±9.6 %
		Subframe=2,3,4,7,8,9)			
10465	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10466	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.57	±9.6 %
		Subframe=2,3,4,7,8,9)		L	
10467	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
		Subframe=2,3,4,7,8,9)		0.00	
10468	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL.	LTE-TDD	8.32	± 9.6 %
40400		Subframe=2,3,4,7,8,9)		0.50	1000
10469	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.56	±9.6 %
10470	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10470				1.02	I 9.0 %
10471	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
10471		Subframe=2,3,4,7,8,9)		0.02	1 3.0 %
10472	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
10472		Subframe=2,3,4,7,8,9)		0.01	20.070
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10110	, u	Subframe=2,3,4,7,8,9)			
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
	1	Subframe=2,3,4,7,8,9)			
10479	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.74	±9.6 %
		Subframe=2,3,4,7,8,9)		0.40	1000
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.18	± 9.6 %
40404		Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.45	± 9.6 %
10481	AAA	LTE-TDD (SC-FDWA, 50% KB, T.4 MHz, 64-QAM, 0L Subframe=2,3,4,7,8,9)		0.45	I 9.0 %
10482	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL	LTE-TDD	7.71	± 9.6 %
10402	INNU	Subframe=2,3,4,7,8,9)			1 0.0 /0
10483	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.39	± 9.6 %
10100	10.0	Subframe=2,3,4,7,8,9)			
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.47	±9.6 %
		Subframe=2,3,4,7,8,9)			
10485	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL	LTE-TDD	7.59	± 9.6 %
		Subframe=2.3.4.7.8.9)			
10486	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.38	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10487	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.60	±9.6 %
ļ		Subframe=2,3,4,7,8,9)			
10488	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL	LTE-TDD	7.70	± 9.6 %
		Subframe=2,3,4,7,8,9)		<u>.</u>	
10489	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.31	± 9.6 %
10	+=-	Subframe=2,3,4,7,8,9)		0.51	
10490	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.54	± 9.6 %
10404		Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
10491	AAE			'.14	1 9.0 %
L		Subframe=2,3,4,7,8,9)	<u> </u>	I	.1

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10492	AAE	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	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.55	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.37	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10496	AAF	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	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.67	± 9.6 %
		Subframe=2,3,4,7,8,9)		1.01	. 3.0 /0
10498	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.40	± 9.6 %
10499	AAA	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.68	±9.6 %
		Subframe=2,3,4,7,8,9)	ETENDO	0.00	1 0.0 70
10500	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL	LTE-TDD	7.67	± 9.6 %
10501	AAB	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.44	± 9.6 %
		Subframe=2,3,4,7,8,9)		0.44	± 9.0 %
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.52	± 9.6 %
10503	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL	LTE-TDD	7.72	± 9.6 %
10000		Subframe=2,3,4,7,8,9)		1.12	I9.0 %
10504	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.31	± 9.6 %
10505	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL		0.54	
10000		Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10506	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
10507	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL		0.00	1000
10001		Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	± 9.6 %
10508	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.55	±9.6 %
10509	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL	LTE-TDD	7.00	
	7.0.0	Subframe=2,3,4,7,8,9)		7.99	± 9.6 %
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.49	±9.6 %
10511	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.51	± 9.6 %
		Subframe=2,3,4,7,8,9)		0.01	I9.0 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL	LTE-TDD	7.74	±9.6 %
10513	AAF	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.42	1069/
10010	/04	Subframe=2,3,4,7,8,9)		0.42	± 9.6 %
10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.45	± 9.6 %
10515	AAA	Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	35/1 651	4.50	
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN WLAN	1.58 1.57	$\pm 9.6\%$
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.57	$\pm 9.6\%$
10518	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 % ± 9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	± 9.6 %
10524	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	WLAN	8.36	<u>±9.6 %</u> ±9.6 %
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	WLAN	8.42	$\pm 9.6\%$
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6 %
10528	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10531	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	WLAN	8.43	± 9.6 %
	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10532	1100				
10532 10533 10534	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	WLAN	8.38	± 9.6 %

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10535	1				
	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.6 %
10536	AAB	IEEE 802.11ac WIFi (40MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6 %
10537	AAB	IEEE 802.11ac WIFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	± 9.6 %
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±96%
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WIFI (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty	WLAN	8.25	± 9.6 %
10304		cycle)	VVL/AIN	0.25	1 9.0 %
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty	WLAN	8.45	± 9.6 %
10305	1 1111	cvcle)	VVL/AIN	0.40	1 5.0 %
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty	WLAN	8.13	± 9.6 %
10500	1000	cycle)	VVL/AIN	0.15	1 9.0 %
10567		IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty	WLAN	8.00	± 9.6 %
10307			VVLAIN	0.00	19.0%
10568		cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty	WLAN	8.37	± 9.6 %
10308			WLAN	0.37	± 9.0 %
40500		cycle)		0 10	+0.6.9/
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty	WLAN	8.10	± 9.6 %
40570		cycle)			
		IFFE 000 44+ WEE 0 4 OUH (DOOD OFDM 54 Mines 00ms duty			1000/
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty	WLAN	8.30	± 9.6 %
		cycle)			
10571	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10571 10572	AAA AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN WLAN	1.99 1.99	± 9.6 % ± 9.6 %
10571 10572 10573	AAA AAA AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN WLAN WLAN	1.99 1.99 1.98	± 9.6 % ± 9.6 % ± 9.6 %
10571 10572 10573 10574	AAA AAA AAA AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN	1.99 1.99 1.98 1.98	± 9.6 %           ± 9.6 %           ± 9.6 %           ± 9.6 %
10571 10572 10573	AAA AAA AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty	WLAN WLAN WLAN	1.99 1.99 1.98	± 9.6 % ± 9.6 % ± 9.6 %
10571 10572 10573 10574 10575	AAA AAA AAA AAA AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN	1.99 1.99 1.98 1.98 1.98 8.59	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10571 10572 10573 10574	AAA AAA AAA AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty	WLAN WLAN WLAN WLAN	1.99 1.99 1.98 1.98	± 9.6 %           ± 9.6 %           ± 9.6 %           ± 9.6 %
10571 10572 10573 10574 10575 10576	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN	1.99 1.99 1.98 1.98 8.59 8.60	± 9.6 %       ± 9.6 %       ± 9.6 %       ± 9.6 %       ± 9.6 %       ± 9.6 %
10571 10572 10573 10574 10575	AAA AAA AAA AAA AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty	WLAN WLAN WLAN WLAN WLAN	1.99 1.99 1.98 1.98 1.98 8.59	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10571 10572 10573 10574 10575 10576 10577	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN	1.99           1.99           1.98           1.98           8.59           8.60           8.70	
10571 10572 10573 10574 10575 10576	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN	1.99 1.99 1.98 1.98 8.59 8.60	± 9.6 %       ± 9.6 %       ± 9.6 %       ± 9.6 %       ± 9.6 %       ± 9.6 %
10571 10572 10573 10574 10575 10576 10577 10578	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99           1.99           1.98           1.98           8.59           8.60           8.70           8.49	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10571 10572 10573 10574 10575 10576 10577	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN	1.99           1.99           1.98           1.98           8.59           8.60           8.70	
10571 10572 10573 10574 10575 10576 10577 10578 10579	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99           1.99           1.98           1.98           8.59           8.60           8.70           8.49           8.36	
10571 10572 10573 10574 10575 10576 10577 10578	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99           1.99           1.98           1.98           8.59           8.60           8.70           8.49	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10571 10572 10573 10574 10575 10576 10577 10578 10579 10580	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99           1.99           1.98           1.98           8.59           8.60           8.70           8.49           8.36           8.76	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10571 10572 10573 10574 10575 10576 10577 10578 10579	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99           1.99           1.98           1.98           8.59           8.60           8.70           8.49           8.36	
10571 10572 10573 10574 10575 10576 10577 10578 10579 10580	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99           1.99           1.98           1.98           8.59           8.60           8.70           8.49           8.36           8.76	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10571 10572 10573 10574 10575 10576 10577 10577 10578 10579 10580	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99           1.99           1.98           1.98           8.59           8.60           8.70           8.49           8.36           8.76	
10571 10572 10573 10574 10575 10576 10577 10578 10579 10580 10581	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99           1.99           1.98           1.98           8.59           8.60           8.70           8.49           8.36           8.76           8.35	$\begin{array}{c} \pm 9.6 \% \\ \end{array}$
10571 10572 10573 10574 10575 10576 10577 10578 10579 10580 10581	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) 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 WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99           1.99           1.98           1.98           8.59           8.60           8.70           8.49           8.36           8.76           8.35	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10571 10572 10573 10574 10575 10576 10577 10578 10579 10580 10581 10582	AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) 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) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99           1.99           1.98           1.98           8.59           8.60           8.70           8.49           8.36           8.76           8.35           8.67	$\begin{array}{c} \pm 9.6 \% \\ \end{array}$
10571 10572 10573 10574 10575 10576 10577 10578 10578 10579 10580 10581 10582 10583	AAA         AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) 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) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99           1.99           1.98           1.98           8.59           8.60           8.70           8.49           8.36           8.76           8.35           8.67           8.59	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \\$
10571 10572 10573 10574 10575 10576 10577 10578 10579 10580 10581 10582 10583	AAA         AAA	cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) 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) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99           1.99           1.98           1.98           8.59           8.60           8.70           8.49           8.36           8.76           8.35           8.67           8.69	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \\$

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April 24, 2019

10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	± 9.6 %
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	± 9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	± 9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	± 9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10607	AAB	IEEE 802.11ac WiFI (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10615	AAB	IEEE 802.11ac WiFI (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.58	± 9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9,6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.68	± 9.6 %
10623	AAB	IEEE 802.11ac WiFI (40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WIFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10633	AAB	IEEE 802.11ac WIFI (80MHz, MCS7, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	WLAN	8,98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN		±9.6%
10646	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	9.11	$\pm 9.6\%$
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)		11.96	$\pm 9.6\%$
10648	AAA	CDMA2000 (1x Advanced)	LTE-TDD	11.96	±9.6 %
10652	AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	CDMA2000	3.45	±9.6%
10653	AAD	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±96%
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6%
	r + 15-2		LTE-TDD	6.96	± 9.6 %

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10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6 %
10671	AAA	IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6 %
10672	AAA	IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10673	AAA	IEEE 802.11ax (20MHz, MCS2, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10674	AAA	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6 %
10675	AAA	IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10676	AAA	IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 %
10677	AAA	IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)	WLAN	8.73	± 9.6 %
10678	AAA	IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10679	AAA	IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6 %
10680	AAA	IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6 %
10681	AAA	IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)	WLAN	8.62	± 9.6 %
10682	AAA	IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6 %
10684	AAA	IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)	WLAN	8.26	± 9.6 %
10685	AAA	IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10686	AAA	IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6%
10687	AAA	IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10688	AAA	IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10689	AAA	IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6 %
10690	AAA	IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6 %
10691	AAA	IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±96%
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)	WLAN	8.69	± 9.6 %
10706	AAA	IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)	WLAN	8.66	± 9.6 %
10707	AAA	IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10708	AAA	IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10709	AAA	IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10710	AAA	IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10711	AAA	IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10712	AAA	IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)	WLAN	8.67	± 9.6 %
10713	AAA	IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10714	AAA	IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)	WLAN	8.26	$\pm 9.6\%$
10715	AAA	IEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10716	AAA	IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±9.6 %
10717	AAA	IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)	WLAN	8.48	$\pm 9.6\%$
10718	AAA	IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)	WLAN	8.24	$\pm 9.6\%$
10719	AAA	IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10720	AAA	IEEE 802.11ax (80MHz, MCS0, 30pc duty cycle)	WLAN	8.87	± 9.6 %
10720	AAA	IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)	WLAN		
10722	AAA	IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10723	AAA	IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)		8.55	±9.6 %
10723	AAA	IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)	WLAN	8.70	$\pm 9.6\%$
10724	AAA	IEEE 802.11ax (80MHz, MCSS, 90pc duty cycle)	WLAN MILAN	8.90	± 9.6 %
10725	AAA		WLAN	8.74	±9.6%
10726	AAA	IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10/2/	_ ~~~A	IEEE 802.11ax (80MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6 %

10729         AAA         IEEE 802.11ax (80MHz, MCS10, 90pc duty cycle)         WLAN         8.64         ±           10730         AAA         IEEE 802.11ax (80MHz, MCS11, 90pc duty cycle)         WLAN         8.67         ±           10731         AAA         IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)         WLAN         8.42         ±           10732         AAA         IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle)         WLAN         8.46         ±	± 9.6 %         ± 9.6 %         ± 9.6 %         ± 9.6 %         ± 9.6 %         ± 9.6 %         ± 9.6 %         ± 9.6 %
10730         AAA         IEEE 802.11ax (80MHz, MCS11, 90pc duty cycle)         WLAN         8.67         ±           10731         AAA         IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)         WLAN         8.42         ±           10732         AAA         IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle)         WLAN         8.46         ±	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10731         AAA         IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)         WLAN         8.42         1           10732         AAA         IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle)         WLAN         8.46         1	29.6 % 29.6 % 29.6 % 29.6 %
10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle) WLAN 8.46 ±	± 9.6 % ± 9.6 % ± 9.6 %
	± 9.6 % ± 9.6 %
	:9.6 %
10733 AAA IEEE 802.11ax (80MHz, MCS2, 99pc duty cycle) WLAN 8.40 ±	
10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc duty cycle) WLAN 8.25 ±	
10735 AAA IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle) WLAN 8.33 ±	±9.6 % )
10736 AAA IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle) WLAN 8.27 d	£ 9.6 %
10737 AAA IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle) WLAN 8.36 ±	t 9.6 %
	£ 9.6 %
10739 AAA IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle) WLAN 8.29	£ 9.6 %
	£ 9.6 %
10741 AAA IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle) WLAN 8.40 d	£ 9.6 %
10742 AAA IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle) WLAN 8.43 4	£9.6 %
10743 AAA IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle) WLAN 8.94 ±	£ 9.6 %
10744 AAA IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle) WLAN 9.16	£ 9.6 %
10745 AAA IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle) WLAN 8.93 ±	£ 9.6 %
	£9.6 %
10747 AAA IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle) WLAN 9.04 ±	£ 9.6 %
10748 AAA IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle) WLAN 8.93 4	£9.6 %
10749 AAA IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle) WLAN 8.90 ±	£ 9.6 %
10750 AAA IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle) WLAN 8.79 ±	£ 9.6 %
10751 AAA IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle) WLAN 8.82 ±	£ 9.6 %
10752 AAA IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle) WLAN 8.81 4	£ 9.6 %
10753 AAA IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle) WLAN 9.00 3	£ 9.6 %
10754 AAA IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle) WLAN 8.94 4	£9.6 %
10755 AAA IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle) WLAN 8.64 ±	£9.6 %
10756 AAA IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle) WLAN 8.77 ±	±9.6 %
10757 AAA IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle) WLAN 8.77 4	± 9.6 %
10758 AAA IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle) WLAN 8.69 3	£ 9.6 %
	± 9.6 %
10760 AAA IEEE 802.11ax (160MHz, MCS5, 99pc duty cycle) WLAN 8.49	± 9.6 %
10761 AAA IEEE 802.11ax (160MHz, MCS6, 99pc duty cycle) WLAN 8.58	± 9.6 %
10762 AAA IEEE 802.11ax (160MHz, MCS7, 99pc duty cycle) WLAN 8.49	± 9.6 %
10763 AAA IEEE 802.11ax (160MHz, MCS8, 99pc duty cycle) WLAN 8.53	± 9.6 %
10764 AAA IEEE 802.11ax (160MHz, MCS9, 99pc duty cycle) WLAN 8.54 ±	± 9.6 %
	± 9.6 %
10766 AAA IEEE 802.11ax (160MHz, MCS11, 99pc duty cycle) WLAN 8.51	± 9.6 %

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

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





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

BN 2019

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

**PC** Test Client

Certif						

# **CALIBRATION CERTIFICATE**

Object
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EX3DV4 - SN:7406

Calibration procedure(s)

QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7 Calibration procedure for dosimetric E-field probes

Calibration date:

May 16, 2019

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	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	19-Dec-18 (No. DAE4-660_Dec18)	Dec-19
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec18)	Dec-19
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check; Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A SN: US41080477		31-Mar-14 (in house check Oct-18)	In house check: Oct-19

	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	
:			Millise
Approved by:	Katja Pokovic	Technical Manager	Carra
			Aut
			Issued: May 16, 2019
This calibration certificate	shall not be reproduced except in full	without written approval of the lab	oratory.

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





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Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: SCS 0108

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
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 φ	φ rotation around probe axis
Polarization 9	$\vartheta$ 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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement
- Techniques", June 2013 IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handb) held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices C) used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization  $\vartheta = 0$  (f  $\leq 900$  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 E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; 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).

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.46	0.43	0.45	± 10.1 %
DCP (mV) <sup>B</sup>	102.8	102.2	100.4	

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

UID	Communication System Name		A dB	B dBõV	C	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> (k=2)
0	CW	X	0.00	0.00	1.00	0.00	182.0	± 2.7 %	± 4.7 %
		Y	0.00	0.00	1.00	0.00	172.4	- 2.1 70	1 4.1 70
		Z	0.00	0.00	1.00		174.6	1	
10352-	Pulse Waveform (200Hz, 10%)	X	6.76	76.02	14.93	10.00	60.0	± 2,7 %	± 9.6 %
AAA		Y	6.25	75.48	14.76		60.0		1 2 0.0 70
		Z	15.00	84.32	17.62		60.0	-	
10353-	Pulse Waveform (200Hz, 20%)	X	15.00	85.05	16.36	6.99	80.0	± 1.9 %	± 9.6 %
AAA		Y	15.00	85.57	16.70		80.0		- 0.0 /0
		Z	15.00	85.96	16.90	1	80.0		
10354-	Pulse Waveform (200Hz, 40%)	X	15.00	83.48	13.87	3.98	95.0	± 1.3 %	± 9.6 %
AAA		Y	15.00	88.48	16.53		95.0		- 0.0 %
		Z	15.00	85.80	15.05		95.0	1	
10355-	Pulse Waveform (200Hz, 60%)	Х	0.28	60.00	4.49	2.22	120.0	± 1.3 %	± 9.6 %
AAA		Y	15.00	95.23	18.20		120.0	,•	
		Z	0.39	62.12	5.82	ĺ	120.0		
10387-	QPSK Waveform, 1 MHz	X	0.46	60.00	5.77	0.00	150.0	± 3.7 %	± 9.6 %
AAA		Y	14.25	443.18	61,66		150.0		
		Z	0.48	60.00	6.06	1	150.0		
10388-	QPSK Waveform, 10 MHz	Х	2.03	67.70	15.44	0.00	150.0	± 1.2 %	± 9.6 %
AAA		Y	2.30	72.35	18.27		150.0		
		Z	2.07	67.89	15.68		150.0		
10396-	64-QAM Waveform, 100 kHz	X	2.49	68.06	17.57	3.01	150.0	± 1.6 %	± 9.6 %
AAA		Y	1.98	66.67	17.49		150.0		
		Z	2.52	68.32	17.86		150.0		
10399-	64-QAM Waveform, 40 MHz	Х	3.39	67.06	15.71	0.00	150.0	± 2.2 %	±9.6 %
AAA		Y	3.39	68.23	16.67		150.0		
1		Z	3.40	67.01	15.79		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	Х	4.70	65.74	15.61	0.00	150.0	± 4.1 %	± 9.6 %
AAA		Υ	4.47	66.54	16.20		150.0		
		Z	4.70	65.63	15.63		150.0		

Note: For details on UID parameters see Appendix

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

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

<sup>&</sup>lt;sup>B</sup> Numerical linearization parameter: uncertainty not required. <sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the

	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⁻²	T5 V <sup>-1</sup>	T6
<u>X</u>	34.8	265.14	36.82	6.17	0.37	5.06	0.00	0.44	1.01
Υ	19.8	147.90	35.69	7.11	0.37	5.03	0.00	0.19	1.00
Ζ	35.4	271.85	37.42	5.60	0.38	5.06	0.15	0.41	1.00

#### **Sensor Model Parameters**

#### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	27.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
30	55.0	0.75	16.10	16.10	16.10	0.00	1.00	± 13.3 %
750	41.9	0.89	10.26	10.26	10.26	0.44	0.93	± 12.0 %
835	41.5	0.90	9.78	9.78	9.78	0.44	0.91	± 12.0 %
1750	40.1	1.37	8.57	8.57	8.57	0.39	0.80	± 12.0 %
1900	40.0	1.40	8.18	8.18	8.18	0.39	0.80	± 12.0 %
2300	39.5	1.67	8.06	8.06	8.06	0.33	0.87	± 12.0 %
2450	39.2	1.80	7.67	7.67	7.67	0.37	0.87	± 12.0 %
2600	39.0	1.96	7.44	7.44	7.44	0.40	0.88	± 12.0 %
5250	35.9	4.71	5.54	5.54	5.54	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.94	4.94	4.94	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.23	5.23	5.23	0.40	1.80	± 13.1 %

### Calibration Parameter Determined in Head Tissue Simulating Media

<sup>c</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to  $\pm$  110 MHz. <sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm$  10% if liquid compensation formula is applied to

measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of

the ConvF uncertainty for indicated target tissue parameters. <sup>6</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is <sup>6</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.

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	55.5	0.96	10.05	10.05	10.05	0.50	0.80	± 12.0 %
835	55.2	0.97	9.78	9.78	9.78	0.40	0.93	± 12.0 %
1750	53.4	1.49	8.13	8.13	8.13	0.43	0.80	± 12.0 %
1900	53.3	1.52	7.95	7.95	7.95	0.38	0.85	± 12.0 %
2300	52.9	1.81	7.76	7.76	7.76	0.44	0.85	± 12.0 %
2450	52.7	1.95	7.54	7.54	7.54	0.37	0.88	± 12.0 %
2600	52.5	2.16	7.47	7.47	7.47	0.25	1.05	± 12.0 %
5250	48.9	5.36	5.08	5.08	5.08	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.37	4.37	4.37	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.53	4.53	4.53	0.50	1.90	± 13.1 %

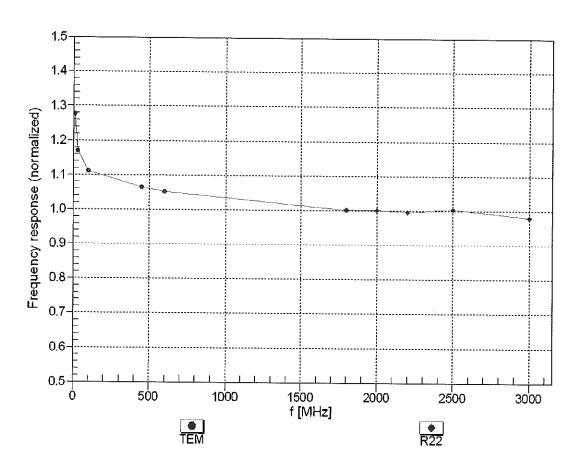
### Calibration Parameter Determined in Body Tissue Simulating Media

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

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

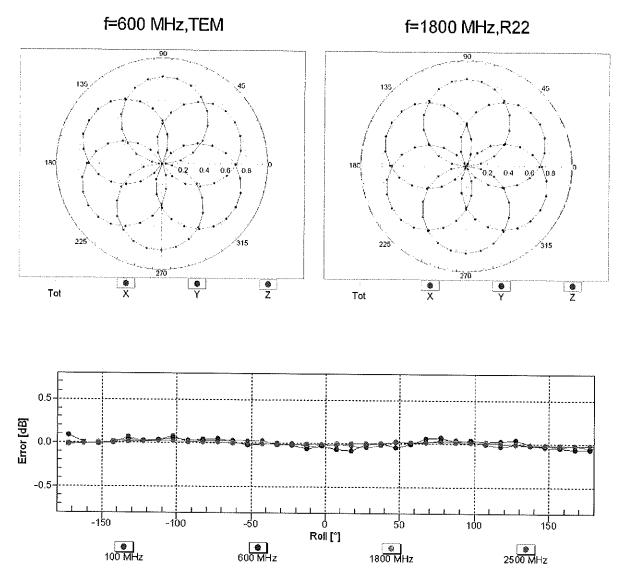
the ConvF uncertainty for indicated target tissue parameters. <sup>6</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than  $\pm$  1% for frequencies below 3 GHz and below  $\pm$  2% for frequencies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

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

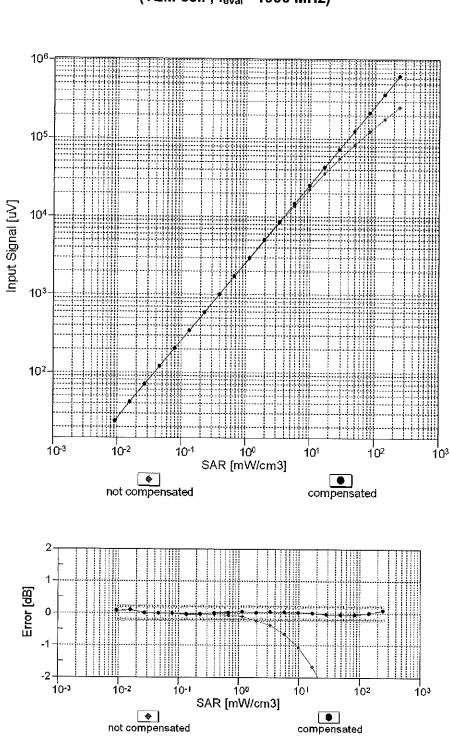
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)



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

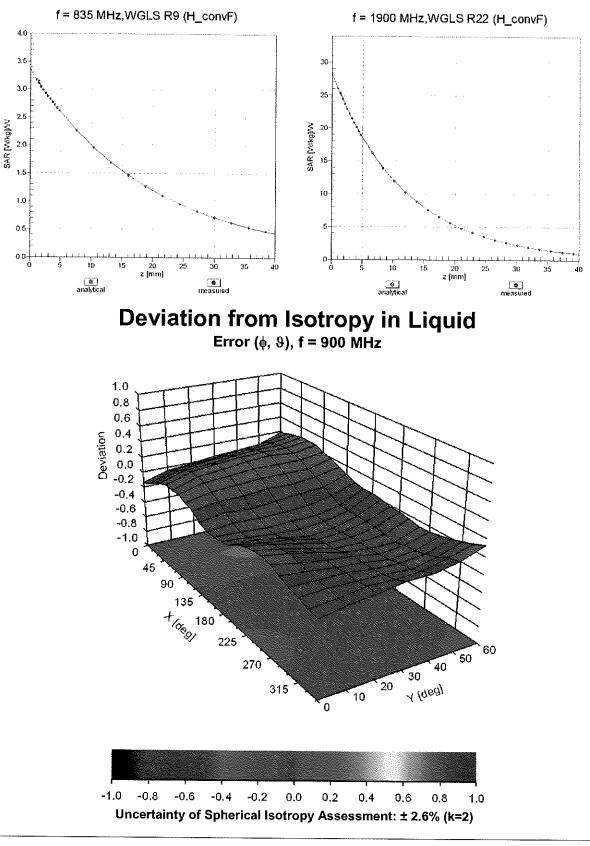
Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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### 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**

### Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR	Unct
				(dB)	(k=2)
0		CW	CW	0.00	±4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30 1.87	± 9.6 % ± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth		$\pm 9.6\%$ $\pm 9.6\%$
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5) IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth Bluetooth	1.16 7.74	± 9.6 %
10033			Bluetooth	4.53	± 9.6 %
10034		IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3) IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10035 10036	CAA CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	8.01	± 9.6 %
10036		IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	4.77	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10038	CAA	CDMA2000 (1xRTT, RC1)	CDMA2000	4.10	± 9.6 %
10039	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10042	CAB	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10044	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10040	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	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6 %
10063	CAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	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)		9.62	$\pm 9.6\%$
10073		IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 18 Mbps)		9.94	$\pm 9.6\%$
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	$\pm 9.6\%$
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN WLAN	10.77 10.94	± 9.6 % ± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN WLAN	11.00	$\pm 9.6\%$ $\pm 9.6\%$
10077	CAB CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10082	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10090	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10097	CAB	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	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10102	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
		LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10105	CAG				

10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN		
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)		8.46	± 9.6 %
10117	CAC	IEEE 002.11n (HT Greenmeid, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117		IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6 %
10141		LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD		
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)		6.72	± 9.6 %
10150	CAE	1 TE EDD (SC EDMA, 50% RB, 20 MHz, 10-QAM)	LTE-FDD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151		LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD		
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	1	5.82	± 9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.43	± 9.6 %
10166	CAF		LTE-FDD	6.58	±9.6 %
10167		LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6 %
	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)			±9.6%
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	6.52	± 9.6 %
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	5.73	±96%
	CAG		LTE-FDD	6.52	± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
		LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
10181					±9.6 %
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	
40400	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	5.72 6.52	± 9.6 %
	CAE AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.52	± 9.6 %
10184	CAE AAD CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD LTE-FDD	6.52 6.50	± 9.6 % ± 9.6 %
10184 10185	CAE AAD CAE CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD LTE-FDD LTE-FDD	6.52 6.50 5.73	<u>± 9.6 %</u> <u>± 9.6 %</u> ± 9.6 %
10184 10185	CAE AAD CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD LTE-FDD LTE-FDD LTE-FDD	6.52 6.50 5.73 6.51	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10184 10185 10186	CAE AAD CAE CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD	6.52 6.50 5.73 6.51 6.50	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10184 10185 10186 10187	CAE AAD CAE CAE AAE CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD	6.52 6.50 5.73 6.51 6.50 5.73	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10184       10185       10186       10187       10188	CAE AAD CAE CAE AAE CAF CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD	6.52 6.50 5.73 6.51 6.50 5.73 6.52	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10184         10185         10186         10187         10188         10189	CAE AAD CAE CAE AAE CAF CAF AAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD	6.52 6.50 5.73 6.51 6.50 5.73 6.52 6.50	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10184         10185         10186         10187         10188         10189         10193	CAE AAD CAE CAE AAE CAF CAF AAF CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD WLAN	6.52 6.50 5.73 6.51 6.50 5.73 6.52 6.50 8.09	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10184         10185         10186         10187         10188         10189         10193         10194	CAE AAD CAE CAE AAE CAF CAF AAF CAC CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD WLAN WLAN	6.52 6.50 5.73 6.51 6.50 5.73 6.52 6.50 8.09 8.12	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10184         10185         10186         10187         10188         10189         10193         10194         10195	CAE AAD CAE CAE AAE CAF CAF AAF CAC CAC CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD WLAN WLAN	6.52 6.50 5.73 6.51 6.50 5.73 6.52 6.50 8.09	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10184         10185         10186         10187         10188         10189         10193         10194         10195         10196	CAE AAD CAE CAE AAE CAF CAF AAF CAC CAC CAC CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD (SC-FDMA, 1 RB, 1 MHz, 0PSK)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 0PSK)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD WLAN WLAN	6.52 6.50 5.73 6.51 6.50 5.73 6.52 6.50 8.09 8.12	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10184         10185         10186         10187         10188         10193         10194         10195         10196         10197	CAE AAD CAE CAE AAE CAF CAF CAC CAC CAC CAC CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD WLAN WLAN	6.52 6.50 5.73 6.51 6.50 5.73 6.52 6.50 8.09 8.12 8.21	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10184         10185         10186         10187         10188         10189         10193         10194         10195         10196         10197         10198	CAE AAD CAE CAE AAE CAF CAF AAF CAC CAC CAC CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD (SC-FDMA, 1 RB, 1 MHz, 0PSK)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 0PSK)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD WLAN WLAN WLAN	6.52 6.50 5.73 6.51 6.50 5.73 6.52 6.50 8.09 8.12 8.21 8.21 8.10	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$

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10220	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
10226	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6 %
10227	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6 %
10228	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6 %
10229	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10233	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10236	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9,21	± 9.6 %
10241		LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6 %
10241	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10242	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10243		LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 4(-SR)	LTE-TDD	10.06	± 9.6 %
10244	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 10-QAM)	LTE-TDD	10.06	± 9.6 %
		LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10246	CAC		LTE-TDD	9.91	± 9.6 %
10247	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	10.09	± 9.6 %
10248	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)		a contraction of the second	$\pm 9.6\%$
10249	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	
10250	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257		LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	± 9.6 %
10259	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %
10260	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6 %
10261	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6 %
10263	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6 %
10265	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6 %
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
					± 9.6 %
		UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	
10275	CAB		PHS	11.81	± 9.6 %
10275 10277	CAB CAA	PHS (QPSK)			
10275 10277 10278	CAB CAA CAA	PHS (QPSK) PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS PHS	11.81 11.81	± 9.6 % ± 9.6 %
10275 10277 10278 10279	CAB CAA CAA CAA	PHS (QPSK) PHS (QPSK, BW 884MHz, Rolloff 0.5) PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS PHS PHS	11.81 11.81 12.18	± 9.6 %       ± 9.6 %       ± 9.6 %
10275 10277 10278 10279 10290	CAB CAA CAA CAA AAB	PHS (QPSK) PHS (QPSK, BW 884MHz, Rolloff 0.5) PHS (QPSK, BW 884MHz, Rolloff 0.38) CDMA2000, RC1, SO55, Full Rate	PHS PHS PHS CDMA2000	11.81 11.81 12.18 3.91	± 9.6 %         ± 9.6 %         ± 9.6 %         ± 9.6 %
10275 10277 10278 10279 10290 10291	CAB CAA CAA CAA AAB AAB	PHS (QPSK) PHS (QPSK, BW 884MHz, Rolloff 0.5) PHS (QPSK, BW 884MHz, Rolloff 0.38) CDMA2000, RC1, SO55, Full Rate CDMA2000, RC3, SO55, Full Rate	PHS PHS CDMA2000 CDMA2000	11.81 11.81 12.18 3.91 3.46	$\begin{array}{r} \pm \ 9.6 \ \% \\ \pm \ 9.6 \ \% \end{array}$
10275 10277 10278 10279 10290 10291 10292	CAB CAA CAA CAA AAB AAB AAB	PHS (QPSK) PHS (QPSK, BW 884MHz, Rolloff 0.5) PHS (QPSK, BW 884MHz, Rolloff 0.38) CDMA2000, RC1, SO55, Full Rate CDMA2000, RC3, SO55, Full Rate CDMA2000, RC3, SO32, Full Rate	PHS PHS CDMA2000 CDMA2000 CDMA2000	11.81 11.81 12.18 3.91 3.46 3.39	$\begin{array}{c} \pm \ 9.6 \ \% \\ \pm \ 9.6 \ \% \end{array}$
10275 10277 10278 10279 10290 10291 10292 10293	CAB CAA CAA CAA AAB AAB AAB	PHS (QPSK)           PHS (QPSK, BW 884MHz, Rolloff 0.5)           PHS (QPSK, BW 884MHz, Rolloff 0.38)           CDMA2000, RC1, SO55, Full Rate           CDMA2000, RC3, SO55, Full Rate           CDMA2000, RC3, SO32, Full Rate           CDMA2000, RC3, SO32, Full Rate	PHS PHS CDMA2000 CDMA2000 CDMA2000 CDMA2000	11.81 11.81 12.18 3.91 3.46 3.39 3.50	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10275 10277 10278 10279 10290 10291 10292 10293 10295	CAB CAA CAA CAA AAB AAB AAB AAB AAB	PHS (QPSK)           PHS (QPSK, BW 884MHz, Rolloff 0.5)           PHS (QPSK, BW 884MHz, Rolloff 0.38)           CDMA2000, RC1, SO55, Full Rate           CDMA2000, RC3, SO55, Full Rate           CDMA2000, RC3, SO32, Full Rate           CDMA2000, RC3, SO32, Full Rate           CDMA2000, RC3, SO3, Full Rate	PHS PHS CDMA2000 CDMA2000 CDMA2000 CDMA2000 CDMA2000	11.81 11.81 12.18 3.91 3.46 3.39 3.50 12.49	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10275 10277 10278 10279 10290 10291 10292 10293 10295 10297	CAB CAA CAA CAA AAB AAB AAB AAB AAB AAB	PHS (QPSK)           PHS (QPSK, BW 884MHz, Rolloff 0.5)           PHS (QPSK, BW 884MHz, Rolloff 0.38)           CDMA2000, RC1, SO55, Full Rate           CDMA2000, RC3, SO55, Full Rate           CDMA2000, RC3, SO32, Full Rate           CDMA2000, RC3, SO32, Full Rate           CDMA2000, RC3, SO3, Full Rate           LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	PHS PHS CDMA2000 CDMA2000 CDMA2000 CDMA2000 CDMA2000 LTE-FDD	11.81 11.81 12.18 3.91 3.46 3.39 3.50 12.49 5.81	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10275 10277 10278 10279 10290 10291 10292 10293 10295	CAB CAA CAA CAA AAB AAB AAB AAB AAB	PHS (QPSK)           PHS (QPSK, BW 884MHz, Rolloff 0.5)           PHS (QPSK, BW 884MHz, Rolloff 0.38)           CDMA2000, RC1, SO55, Full Rate           CDMA2000, RC3, SO55, Full Rate           CDMA2000, RC3, SO32, Full Rate           CDMA2000, RC3, SO32, Full Rate           CDMA2000, RC3, SO3, Full Rate	PHS PHS CDMA2000 CDMA2000 CDMA2000 CDMA2000 CDMA2000	11.81 11.81 12.18 3.91 3.46 3.39 3.50 12.49	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$

10200					
10300 10301	AAD AAA	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10302		IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	12.03	± 9.6 %
10002	1 ~~~~	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.57	± 9.6 %
10303	AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	10/10.0.0	40.50	
10304	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WIMAX WIMAX	12.52	± 9.6 %
10305	AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15	WIMAX	11.86	± 9.6 %
		symbols)		15.24	± 9.6 %
10306	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18	WIMAX	14.67	± 9.6 %
		symbols)		14.07	1 9.0 %
10307	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18	WIMAX	14.49	± 9.6 %
		symbols)		1	± 0.0 /0
10308	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WIMAX	14.46	±9.6 %
10309	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18	WIMAX	14.58	± 9.6 %
10010	+	symbols)			
10310	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18	WIMAX	14.57	± 9.6 %
10044		symbols)			
10311 10313	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313		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 %
10317	AAC	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10352	AAA	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle) Pulse Waveform (200Hz, 10%)	WLAN	8.36	±9.6 %
10353	AAA	Pulse Waveform (200Hz, 10%) Pulse Waveform (200Hz, 20%)	Generic	10.00	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 20%) Pulse Waveform (200Hz, 40%)	Generic	6.99	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	2.22	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	0.97	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.10	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	5.22	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WIFi (20MHz, 64-QAM, 99pc duty cycle)	Generic	6.27	± 9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	WLAN CDMA2000	8.53	± 9,6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000 CDMA2000	3.76	± 9.6 %
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate		3.77	± 9.6 %
10410	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	CDMA2000 LTE-TDD	5.22 7.82	± 9.6 %
		Subframe=2,3,4,7,8,9, Subframe Conf=4)		1.02	±9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	±9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	$\pm 9.6\%$
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10417	AAB	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,	WLAN	8.14	± 9.6 %
		Long preambule)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.14	10.070
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle,	WLAN	8.19	±9.6 %
1010-		Short preambule)			, 3
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	±9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433 10434	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10430	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10447	AAD	Subframe=2,3,4,7,8,9)			
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.6 %
10443	~~~	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %

10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6 %
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	± 9.6 %
10457	AAA	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	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
40460		Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.30	± 9.6 %
10462	AAA	Subframe=2,3,4,7,8,9)		0.50	± 9.0 %
10463	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.56	± 9.6 %
10400		Subframe=2,3,4,7,8,9)		0.00	20.070
10464	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10404	1,0,00	Subframe=2,3,4,7,8,9)			
10465	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
10100		Subframe=2,3,4,7,8,9)			
10466	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10467	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL	LTE-TDD	7.82	±9.6 %
		Subframe=2,3,4,7,8,9)			5
10468	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10469	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.56	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10470	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10.1001	<u> </u>	Subframe=2,3,4,7,8,9)		0.00	
10471	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
40470	-	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
10472	AAE	Subframe=2,3,4,7,8,9)		0,07	1 9.0 %
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10475		Subframe=2,3,4,7,8,9)		1.02	1 2 0.0 /0
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
		Subframe=2,3,4,7,8,9)			1
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10479	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
10.100		Subframe=2,3,4,7,8,9)		0.40	
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.18	± 9.6 %
10494	AAA	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.45	± 9.6 %
10481		Subframe=2,3,4,7,8,9)		0.40	± 9.0 %
10482	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL	LTE-TDD	7.71	± 9.6 %
10402	700	Subframe=2,3,4,7,8,9)			_ 0.0 %
10483	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.39	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.47	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10485	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL	LTE-TDD	7.59	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10486	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.38	± 9.6 %
	_	Subframe=2,3,4,7,8,9)		ļ	
	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.60	± 9.6 %
10487		Subframe=2,3,4,7,8,9)			1000
	–	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL	LTE-TDD	7.70	± 9.6 %
10487	AAE	0.0 + 6 = 0.0 + 7.0 = 0		1	1
10488		Subframe=2,3,4,7,8,9)		0.24	+060/
	AAE AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.31	± 9.6 %
10488 10489	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)			
10488		LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL	LTE-TDD LTE-TDD	8.31 8.54	± 9.6 % ± 9.6 %
10488 10489	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)			

10492	AAE	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	AAE	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	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10495	AAF	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	AAF	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	AAA	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	AAA	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	AAA	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	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6 %
10501	AAB	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	AAB	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	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	± 9.6 %
10504	AAE	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	AAE	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	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10507	AAE	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	AAE	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	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	± 9.6 %
10510	AAE	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	AAE	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	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10513	AAF	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	AAF	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	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	± 9.6 %
10524	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.6 %
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	WLAN	8.21	± 9.6 %
10528	AAB	IEEE 802.11ac WIFi (20MHz, MCS3, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10531	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10533	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)			
10534	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	WLAN	8.38	±9.6 %

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10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.6%
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6 %
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN WLAN	8.54 8.39	± 9.6 % ± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10542 10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle) IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.47	±9.6 %
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	±9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty	WLAN	8.25	± 9.6 %
		cycle)			
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty	WLAN	8.45	± 9.6 %
		cycle)			
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty	WLAN	8.13	± 9.6 %
		cycle)			
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty	WLAN	8.00	± 9.6 %
		cycle)			1000
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty	WLAN	8.37	± 9.6 %
10500			WLAN	8.10	± 9.6 %
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty	VYLAN	0.10	1 9.0 %
10570	AAA	cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty	WLAN	8.30	± 9.6 %
10570		cycle)		0.00	20.0 /0
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 %
10572	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		± 9.6 %
			I VVLPNN	1 1.90	1 2 0 0 70
10575		IEEE 802 11g WiEi 2 4 GHz (DSSS-OEDM, 6 Mbps, 90pc duty		<u>1.98</u> 8.59	
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty	WLAN		± 9.6 %
	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)			
10575 10576		IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty	WLAN	8.59	± 9.6 %
10576		IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN WLAN WLAN	8.59 8.60	± 9.6 % ± 9.6 % ± 9.6 %
10576		IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty	WLAN WLAN	8.59 8.60	± 9.6 % ± 9.6 %
10576 10577	AAA           AAA           AAA           AAA           AAA           AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN	8.59 8.60 8.70 8.49	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10576 10577	AAA           AAA           AAA           AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN WLAN WLAN	8.59 8.60 8.70	± 9.6 % ± 9.6 % ± 9.6 %
10576 10577 10578 10579	AAA           AAA           AAA           AAA           AAA           AAA           AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN	8.59           8.60           8.70           8.49           8.36	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10576 10577 10578	AAA           AAA           AAA           AAA           AAA           AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty	WLAN WLAN WLAN WLAN	8.59 8.60 8.70 8.49	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10576 10577 10578 10579 10580	AAA           AAA           AAA           AAA           AAA           AAA           AAA           AAA           AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN	8.59           8.60           8.70           8.49           8.36           8.76	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10576 10577 10578 10579	AAA           AAA           AAA           AAA           AAA           AAA           AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty	WLAN WLAN WLAN WLAN WLAN	8.59           8.60           8.70           8.49           8.36	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10576 10577 10578 10579 10580 10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.59           8.60           8.70           8.49           8.36           8.76	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10576 10577 10578 10579 10580	AAA           AAA           AAA           AAA           AAA           AAA           AAA           AAA           AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)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	WLAN WLAN WLAN WLAN WLAN WLAN	8.59           8.60           8.70           8.49           8.36           8.76	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10576 10577 10578 10579 10580 10581 10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.59           8.60           8.70           8.49           8.36           8.76           8.35           8.67	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10576 10577 10578 10579 10580 10581 10582 10583	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)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)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.59 8.60 8.70 8.49 8.36 8.76 8.35 8.67 8.59	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10576 10577 10578 10579 10580 10581 10582 10583 10584	AAA           AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) 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) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.59           8.60           8.70           8.49           8.36           8.76           8.35           8.67           8.59           8.60	± 9.6 % ± 9.6 %
10576 10577 10578 10579 10580 10581 10582 10583	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)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)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.59 8.60 8.70 8.49 8.36 8.76 8.35 8.67 8.59	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %

40500	1 4 4 5				
10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6 %
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	± 9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	± 9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	± 9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10613	AAB	IEEE 802.11ac WIFI (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.58	± 9.6 %
10619	AAB	IEEE 802.11ac WIFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.68	± 9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	$\pm 9.6\%$
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	<u>±9.6 %</u> ±9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN		
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.81	$\pm 9.6\%$
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.83	$\pm 9.6\%$
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)		8.80	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	WLAN WLAN	8.81	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.83	±9.6%
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	8.98	±9.6%
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6 %
10646	AAF	TE-TOD (SC-EDMA 1 PB 5 MHz ODOK HILO HILO HI	WLAN	9.11	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6 %
10648	AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) CDMA2000 (1x Advanced)	LTE-TDD	11.96	±9.6 %
10652	AAA		CDMA2000	3.45	±9.6 %
10653	AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10654	AAD	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
		$rac{1}{1}$	LTE-TDD	6.96	± 9.6 %

10055		LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)		7.04	1060/
10655 10658	AAE AAA	Pulse Waveform (200Hz, 10%)	LTE-TDD Test	7.21	± 9.6 % ± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6,99	± 9.6 %
10660	AAA	Pulse Waveform (200Hz, 20%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 40%)	Test	2.22	± 9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAA	IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	WLAN	9.09	± 9.6 %
10672	AAA	IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10673	AAA	IEEE 802.11ax (20MHz, MCS2, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10674	AAA	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6 %
10675	AAA	IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6 %
10676	AAA	IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10677	AAA	IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)	WLAN	8.73	± 9.6 %
10678	AAA	IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10679	AAA	IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10680	AAA	IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10681	AAA	IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6 %
10682	AAA	IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10684	AAA	IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)	WLAN	8.26	± 9.6 %
10685	AAA	IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10686	AAA	IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)	WLAN	8.28	± 9.6 %
10687	AAA	IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10688	AAA	IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6 %
10689	AAA	IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10690	AAA	IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10691	AAA	IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10694		IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle)	WLAN	8.57	± 9.6 %
10695 10696	AAA AAA	IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle) IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)	WLAN WLAN	8.78 8.91	± 9.6 % ± 9.6 %
10696		IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)	WLAN	8.73	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)	WLAN	8.69	± 9.6 %
10706	AAA	IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)	WLAN	8.66	± 9.6 %
10707	AAA	IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10708	AAA	IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10709	AAA	IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10710	AAA	IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10711	AAA	IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10712	AAA	IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)	WLAN	8.67	± 9.6 %
10713	AAA	IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10714	AAA	IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)	WLAN	8.26	± 9.6 %
10715	AAA	IEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10716	AAA	IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)	WLAN	8.30	± 9.6 %
10717	AAA	IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10718	AAA	IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)	WLAN	8.24	± 9.6 %
10719	AAA	IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10720	AAA	IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10721	AAA	IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10722	AAA	IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)	WLAN	8.55	± 9.6 %
10723	AAA	IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10724	AAA	IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)	WLAN	8.90	± 9.6 %
- AOZOE	1 A A A	IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10725	AAA				1000
10725 10726 10727	AAA AAA	IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle) IEEE 802.11ax (80MHz, MCS8, 90pc duty cycle)	WLAN WLAN	8.72 8.66	± 9.6 % ± 9.6 %

40700					
10728	AAA	IEEE 802.11ax (80MHz, MCS9, 90pc duty cycle)	WLAN	8.65	± 9.6 %
10729	AAA	IEEE 802.11ax (80MHz, MCS10, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10730	AAA	IEEE 802.11ax (80MHz, MCS11, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10731	AAA	IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10732	AAA	IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10733	AAA	IEEE 802.11ax (80MHz, MCS2, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10734	AAA	IEEE 802.11ax (80MHz, MCS3, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10735	AAA	IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10736	AAA	IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10737	AAA	IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10738	AAA	IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10739	AAA	IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10740	AAA	IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10741	AAA	IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10742	AAA	IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10743	AAA	IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10744	AAA	IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)	WLAN	9.16	± 9.6 %
10745	AAA	IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)	WLAN	8.93	± 9.6 %
10746	AAA	IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)	WLAN	9.11	± 9.6 %
10747	AAA	IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)	WLAN	9.04	± 9.6 %
10748	AAA	IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)	WLAN	8.93	± 9.6 %
10749	AAA	IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10750	AAA	IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10751	AAA	IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10752	AAA	IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10753	AAA	IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)	WLAN	9.00	± 9.6 %
10754	AAA	IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10755	AAA	IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)	WLAN	8.64	± 9.6 %
10756	AAA	IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10757	AAA	IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10758	AAA	IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10759	AAA	IEEE 802.11ax (160MHz, MCS4, 99pc duty cycle)	WLAN	8.58	± 9.6 %
10760	AAA	IEEE 802.11ax (160MHz, MCS5, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10761	AAA	IEEE 802.11ax (160MHz, MCS6, 99pc duty cycle)	WLAN	8.58	± 9.6 %
10762	AAA	IEEE 802.11ax (160MHz, MCS7, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10763	AAA	IEEE 802.11ax (160MHz, MCS8, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10764	AAA	IEEE 802.11ax (160MHz, MCS9, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10765	AAA	IEEE 802.11ax (160MHz, MCS10, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10766	AAA	IEEE 802.11ax (160MHz, MCS11, 99pc duty cycle)	WLAN	8.51	± 9.6 %

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

#### **Calibration Laboratory of**

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



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mannateral Agreement for the recognition of calibration of the

**PC Test** Client

Certificate No: EX3-7409\_Jun19

## CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:7409
Calibration procedure(s)	QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7 Calibration procedure for dosimetric E-field probes
Calibration date:	June 19, 2019
	uments the traceability to national standards, which realize the physical units of measurements (SI). ncertainties 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	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	19-Dec-18 (No. DAE4-660_Dec18)	Dec-19
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec18)	Dec-19
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19

	Name	Function	Signature
Calibrated by:	Leif Klysner	Laboratory Technician	Carall
			sig plg-
Approved by:	Katja Pokovic	Technical Manager	ANK .
			100 15
			Issued: June 20, 2019
This calibration certificate	e shall not be reproduced except in fu	II without written approval of the labo	pratory.

#### 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 φ	φ rotation around probe axis
Polarization 9	$\vartheta$ 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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 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 E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; 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).

#### **Basic Calibration Parameters**

<b></b>	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.38	0.33	0.38	± 10.1 %
DCP (mV) <sup>B</sup>	95.8	101.8	100.3	

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

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> (k=2)
0	CW	X	0.00	0.00	1.00	0.00	135.5	± 3.5 %	±4.7 %
-		Y	0.00	0.00	1.00		129.2		
		Z	0.00	0.00	1.00		130.6		
10352-	Pulse Waveform (200Hz, 10%)	X	1.32	60.00	6.76	10.00	60.0	± 2.3 %	± 9.6 %
AAA		Y	2.29	64.91	9.64		60.0		
		Z	1,81	63.07	9.49		60.0	1	
10353-	Pulse Waveform (200Hz, 20%)	X	0.80	60.00	5.37	6.99	80.0	± 1.9 %	± 9.6 %
AAA		Y	1.45	64.56	8.47		80.0		
		Z	1.57	65.00	8.98		80.0		
10354-	Pulse Waveform (200Hz, 40%)	X	0.42	60.00	3.77	3.98	95.0	± 1.3 %	± 9.6 %
AAA		Y	0.88	64.90	7.60		95.0	]	
		Z	0.42	60.00	5.26		95.0		
10355-	Pulse Waveform (200Hz, 60%)	X	0,16	179.15	25.80	2.22	120.0	± 1.4 %	± 9.6 %
AAA		Y	15.00	80.71	11.05		120.0		
		Z	0.26	60.00	3.66	1	120.0		
10387-	QPSK Waveform, 1 MHz	X	0.00	60.00	1.00	0.00	150.0	± 3.7 %	± 9.6 %
AAA		Y	0.42	60.00	5.25	1	150.0	]	
		Z	0.44	60.00	5.03		150.0		
10388-	QPSK Waveform, 10 MHz	X	1.68	67.97	15.54	0.00	150.0	± 1.2 %	± 9.6 %
AAA		Y	2.15	69.30	16.63		150.0		
		Z	1.92	66.86	15.11		150.0		
10396-	64-QAM Waveform, 100 kHz	X	1.88	65.71	16.62	3.01	150.0	± 3.3 %	± 9.6 %
AAA		Y	2.51	70.30	18.83		150.0		
		Z	1.94	66.57	18.18	]	150.0		
10399-	64-QAM Waveform, 40 MHz	X	3.08	66.90	15.71	0.00	150.0	± 2.7 %	± 9.6 %
AAA		Y	3.43	67.58	16.15	]	150.0		
		Z	3.31	66.58	15.55		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.19	66.11	15.73	0.00	150.0	± 4.7 %	± 9.6 %
AAA		Y	4.64	66.08	15.84		150.0	_	
		Z	4.60	65.42	15.52	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%.

.

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

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

	C1 fF	C2 fF	α V <sup>-1</sup>	T1 ms.V⁻²	T2 ms.V <sup>-1</sup>	T3 ms	T4 V⁻²	T5 V⁻¹	Т6
X	15.1	114.89	36.52	2.59	0.12	4.98	0.18	0.16	1.00
- <u>Y</u>	27.6	203.75	34,94	3.93	0.05	4.99	1.59	0.00	1.00
Z	31.2	243.42	38.43	3.81	0.30	5.03	0.00	0.11	1.02

#### **Sensor Model Parameters**

#### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	40.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	41.9	0.89	9.96	9.96	9.96	0.50	0.81	± 12.0 %
835	41.5	0.90	9.70	9.70	9.70	0.40	0.94	± 12.0 %
1750	40.1	1.37	8.32	8.32	8.32	0.37	0.85	± 12.0 %
1900	40.0	1.40	8.01	8.01	8.01	0.35	0.85	± 12.0 %
2300	39.5	1.67	7.55	7.55	7.55	0.32	0.90	± 12.0 %
2450	39.2	1.80	7.30	7.30	7.30	0.39	0.90	± 12.0 %
2600	39.0	1.96	7.12	7.12	7.12	0.36	0.90	± 12.0 %
5250	35.9	4.71	5.20	5.20	5.20	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.80	4.80	4.80	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.78	4.78	4.78	0.40	1.80	± 13.1 %

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

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

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm$  10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to  $\pm$  5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. <sup>6</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

<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.

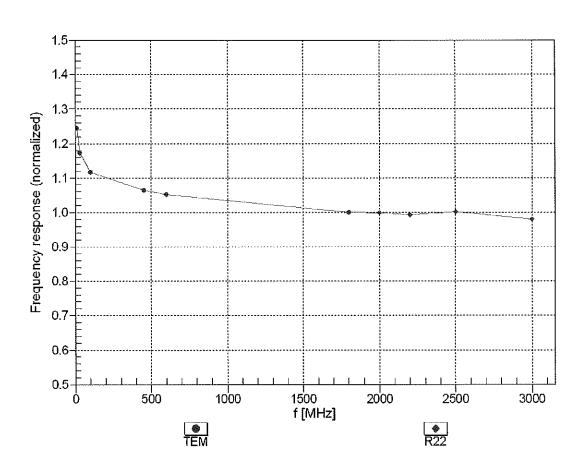
f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	55.5	0.96	9.96	9.96	9.96	0.48	0.80	± 12.0 %
835	55.2	0.97	9.74	9.74	9.74	0.52	0.81	± 12.0 %
1750	53.4	1.49	7.85	7.85	7.85	0.35	0.85	± 12.0 %
1900	53.3	1.52	7.67	7.67	7.67	0.43	0.85	± 12.0 %
2300	52.9	1.81	7.41	7.41	7.41	0.39	0.90	± 12.0 %
2450	52.7	1.95	7.18	7.18	7.18	0.37	0.90	± 12.0 %
2600	52.5	2.16	7.18	7.18	7.18	0.38	0.90	± 12.0 %
5250	48.9	5.36	4.70	4.70	4.70	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.22	4.22	4.22	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.23	4.23	4.23	0.50	1.90	± 13.1 %

<b>Calibration Parameter Determ</b>	nined in Body	y Tissue Simulating N	/ledia
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<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. <sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm$  10% if liquid compensation formula is applied to

<sup>6</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\varepsilon$  and  $\sigma$ ) can be relaxed to  $\pm$  10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\varepsilon$  and  $\sigma$ ) is restricted to  $\pm$  5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. <sup>6</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

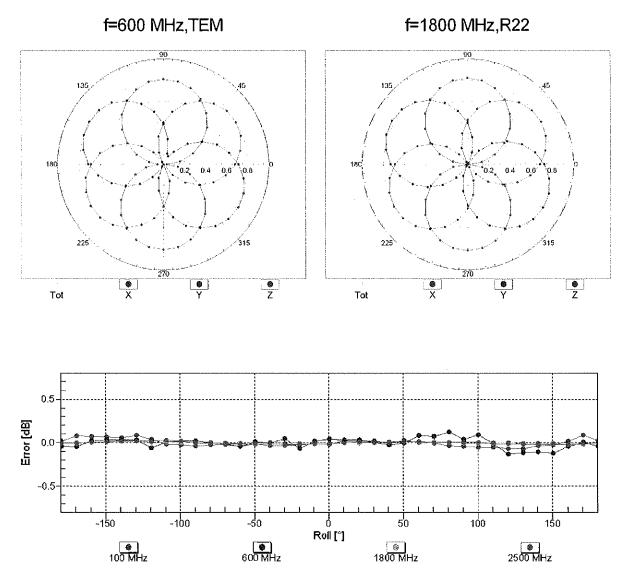
<sup>3</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than  $\pm$  1% for frequencies below 3 GHz and below  $\pm$  2% for frequencies between 3-6 GHz at any distance larger than half the probe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



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

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

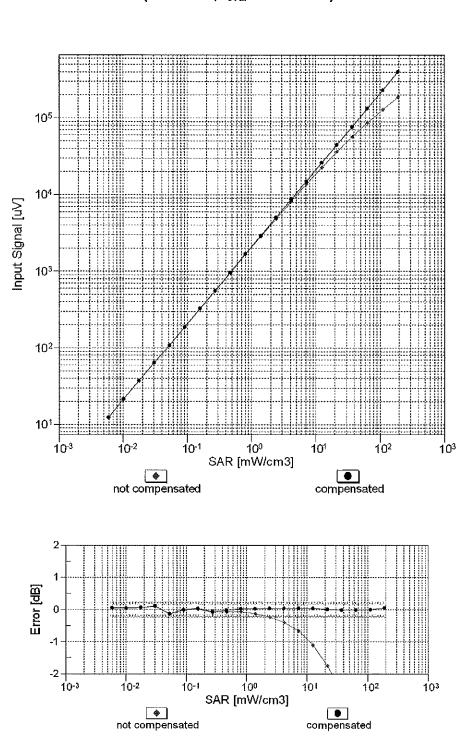
Certificate No: EX3-7409\_Jun19



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

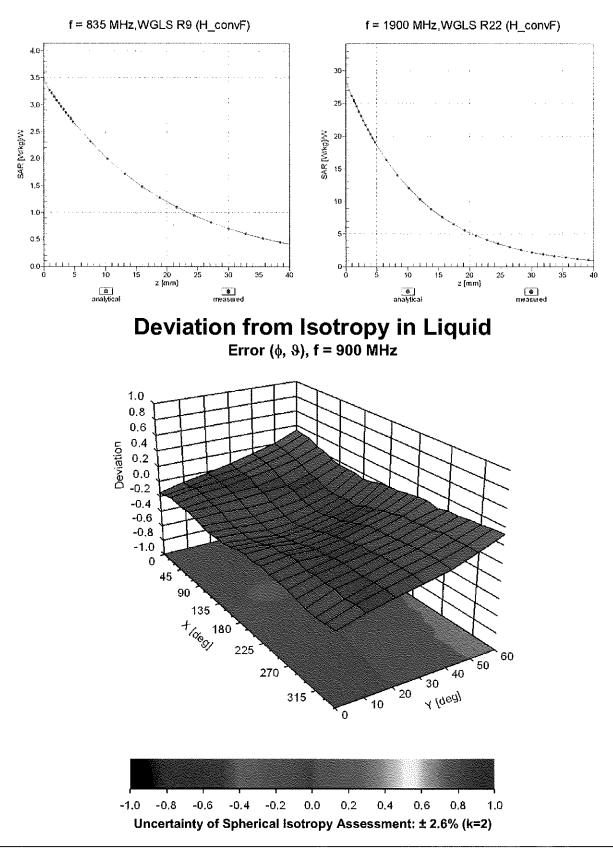
Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

June 19, 2019



### 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**

### **Appendix: Modulation Calibration Parameters**

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>±</sup> (k=2)
0		CW	CW	0.00	±4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	±9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6%
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	±9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6%
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6%
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6%
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	$\pm 9.6\%$
10037		IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	$\pm 9.6\%$
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.10	± 9.6 %
10039		IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)			
	CAB		AMPS	7.78	$\pm 9.6\%$
10044		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		UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058		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	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	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	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	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	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6 %
10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6 %
10108	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %

19109         CAG         LTE-FDD (SC-FDMA, 100%, RB, 5 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 100%, RB, 5 MHz, 16-QAM)         LTE-FDD (SC-FDMA, 100%, RB, 10 MHz, 16-QAM)         WLAN         8.10         19.6 %           10111         CAG         LEEE B02.11n (HT Greenelick, 315 Mbps, 16-QAM)         WLAN         8.16         19.6 %           10116         CAG         LEEE B02.11n (HT Mixed, 135 Mbps, 16-QAM)         WLAN         8.16         14.9 G %           10111         CAG         LEEE B02.11n (HT Mixed, 135 Mbps, 16-QAM)         WLAN         8.59         4.9 G %           10112         CAG         LEEE B02.11n (HT Mixed, 138 Mbps, 16-QAM)         WLAN         8.59         4.9 G %           10141         CAG         LEEE B02.11n (HT Mixed, 138 Mbps, 16-QAM)         LTE-FDD         6.43         4.9 G %           10142         CAE         LTE-FDD (SC-FDMA, 100%, RB, 10 MHz, 16-QAM)         LTE-FDD         5.73         4.9 G %           10142         CAE         LTE-FDD (SC-FDMA, 100%, RB, 10 MHz, 16-QAM)         LTE-FDD						
10111         CAG         LTE-FDD         SC+TDMA, 100%, RB, 10 MHz, 46-CAM)         LTE-FDD         6.59         19.6 %           10112         CAG         LTE-FDD (SC-TDMA, 100%, RB, 10 MHz, 64-CAM)         LTE-FDD         6.59         19.6 %           10113         CAG         LEEE B02.11n (HT Greenelidal, 31 Mbps, 16-CAM)         WLAN         8.10         1.96 %           10116         CAG         LEEE B02.11n (HT Greenelidal, 31 Mbps, 61-CAM)         WLAN         8.15         1.96 %           10117         CAG         LEEE B02.11n (HT Mixed, 135 Mbps, 16-CAM)         WLAN         8.59         1.96 %           10119         CAG         LEEE B02.11n (HT Mixed, 135 Mbps, 16-CAM)         WLAN         8.59         1.96 %           10119         CAG         LEEE B02.11n (HT Mixed, 138 Mbps, 16-CAM)         WLAN         8.59         1.96 %           10140         CAE         LTE-FDD (SC-TDMA, 100%, RB, 15 MHz, 16-CAM)         LTE-FDD         6.43         1.96 %           10141         CAE         LTE-FDD (SC-TDMA, 100%, RB, 3 MHz, 16-CAM)         LTE-FDD         6.45         1.96 %           10142         CAE         LTE-FDD (SC-TDMA, 100%, RB, 3 MHz, 16-CAM)         LTE-FDD         6.47         1.96 %           10142         CAE         LTE-FDD (SC-TDMA, 100%, RB, 14	10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6,43	± 9.6 %
10112         CAG         LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-OAM)         LTE-FDD (S.62         19.6 %           10113         CAG         LTE-FDD (SC-FDMA, 100% RB, 51 MHz, 64-OAM)         WLAN         8.16         19.6 %           10114         CAG         LEEE B02.11n (HT Greenfield, 13.6 Mbps, 16-OAM)         WLAN         8.16         19.6 %           10116         CAG         LEEE B02.11n (HT Greenfield, 13.6 Mbps, 16-OAM)         WLAN         8.16         19.6 %           10117         CAG         LEEE B02.11n (HT Mixed, 13.6 Mbps, 16-OAM)         WLAN         8.13         19.6 %           10118         CAG         LEEE B02.11n (HT Mixed, 15.6 Mbps, 16-OAM)         WLAN         8.13         19.6 %           10119         CAG         LTE-FDD (SC-FDMA, 100% RB, 15.6 MHz, 16-OAM)         LTE-FDD         6.53         19.6 %           10141         CAE         LTE-FDD (SC-FDMA, 100% RB, 15.4 MHz, 16-OAM)         LTE-FDD         6.53         19.6 %           10142         CAE         LTE-FDD (SC-FDMA, 100% RB, 14.4 MHz, 16-OAM)         LTE-FDD         6.56         19.6 %           10143         CAE         LTE-FDD (SC-FDMA, 100% RB, 14.4 MHz, 16-OAM)         LTE-FDD         6.57         19.6 %           10143         CAE         LTE-FDD (SC-FDMA, 100% RB, 14.4 MHz, 16-OAM)			LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)		5.75	± 9.6 %
10113         CAG         LITE-FDD         5:2: 2:0:5: 2:0:0:5: 2:0:5: 2:0:5: 2:0:5: 2:0:5:					6.44	± 9.6 %
10114         CAC         IEEE 802.11n (HT Greenfield, 315 Mbps, BPSK)         WLAN         8.40         19.6 %           10115         CAC         IEEE 802.11n (HT Greenfield, 35 Mbps, BPSK)         WLAN         8.61         19.6 %           10116         CAC         IEEE 802.11n (HT Greenfield, 35 Mbps, BPSK)         WLAN         8.71         19.6 %           10117         CAC         IEEE 802.11n (HT Mixed, 81 Mbps, 16-OAM)         WLAN         8.13         19.6 %           10118         CAC         IEEE 802.11n (HT Mixed, 81 Mbps, 16-OAM)         WLAN         8.13         19.6 %           10140         CAE         LTEF-FDD (SC-FDMA, 100% RB, 15 MHz, 16-OAM)         LTE-FDD 6.42         19.6 %           10141         CAE         LTEF-FDD (SC-FDMA, 100% RB, 3 MHz, 64-OAM)         LTE-FDD 6.57         19.6 %           10144         CAE         LTEF-FDD (SC-FDMA, 100% RB, 14 MHz, 16-OAM)         LTE-FDD 6.64         19.6 %           10146         CAF         LTEF-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM)         LTE-FDD 6.42         19.6 %           10147         CAE         LTEF-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM)         LTE-FDD 6.42         19.6 %           10146         CAF         LTEF-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM)         LTE-FDD 6.42         19.6 %           1014			LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	
10115         CAC         IEEE 802.1 In (HT Greenfeld, 15 Mbps, 64-GAM)         WIAN         8.46         ± 9.6 %           10117         CAC         IEEE 802.1 In (HT Mixed, 13.5 Mbps, BPSK)         WIAN         8.67         ± 9.6 %           10118         CAC         IEEE 802.1 In (HT Mixed, 13.5 Mbps, BP-GAM)         WIAN         8.67         ± 9.6 %           10119         CAC         IEEE 802.1 In (HT Mixed, 135 Mbps, B4-GAM)         WIAN         8.51         ± 9.6 %           10140         CAE         ITE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-GAM)         ITE-FDD 6.53         ± 9.6 %           10141         CAE         ITE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-GAM)         ITE-FDD 6.53         ± 9.6 %           10142         CAE         ITE-FDD (SC-FDMA, 100% RB, 13 MHz, 16-GAM)         ITE-FDD 6.53         ± 9.6 %           10144         CAE         ITE-FDD (SC-FDMA, 100% RB, 14 MHz, 46-GAM)         ITE-FDD 6.64         ± 9.8 %           10146         CAF         ITE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-GAM)         ITE-FDD 6.64         ± 9.8 %           10146         CAF         ITE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-GAM)         ITE-FDD 6.64         ± 9.8 %           10146         CAF         ITE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-GAM)         ITE-FDD 6.64         ± 9.8 %           10146 <td></td> <td></td> <td></td> <td>LTE-FDD</td> <td>6.62</td> <td>± 9.6 %</td>				LTE-FDD	6.62	± 9.6 %
10110         CAC         LEE 802.11n (HT Greenfield, 135 Mbps, 64-CAM)         WUAN         8.15         ±9.6 %           10111         CAC         LEEE 802.11n (HT Mixed, 61 Mbps, 16-CAM)         WUAN         8.59         ±9.6 %           10119         CAC         LEEE 802.11n (HT Mixed, 61 Mbps, 16-CAM)         WUAN         8.13         ±9.6 %           10140         CAE         LEEE 802.11n (HT Mixed, 51 Mbps, 16-CAM)         UTE-FDD         6.49         ±9.6 %           10141         CAE         LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-CAM)         UTE-FDD         6.73         ±9.6 %           10142         CAE         LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-CAM)         UTE-FDD         6.78         ±9.8 %           10144         CAE         LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-CAM)         LTE-FDD         6.78         ±9.8 %           10145         CAF         LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-CAM)         LTE-FDD         6.72         ±9.8 %           10146         CAF         LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-CAM)         LTE-FDD         6.42         ±9.8 %           10147         CAF         LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-CAM)         LTE-FDD         6.42         ±9.8 %           10146         CAE         LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-CAM)				WLAN	8.10	±9.6 %
10117         CAC         LEEE 802.11n (HT Mixed, 13.5 Mbps, BFSK)         WLAN         8.67         19.6 %           10118         CAC         LEEE 902.11n (HT Mixed, 130 Mbps, 64-OAM)         WLAN         8.69         9.8 %           10140         CAC         LEEE 402.11n (HT Mixed, 130 Mbps, 64-OAM)         WLAN         8.13         19.6 %           10141         CAE         LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 44-OAM)         LTE-FDD         6.53         19.8 %           10142         CAE         LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 42-OAM)         LTE-FDD         6.53         19.8 %           10143         CAE         LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 42-OAM)         LTE-FDD         6.66         9.8 %           10144         CAE         LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-OAM)         LTE-FDD         6.76         9.8 %           10145         CAE         LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-OAM)         LTE-FDD         6.72         9.8 %           10146         CAE         LTE-FDD (SC-FDMA, 60% RB, 20 MHz, 16-OAM)         LTE-FDD         6.72         9.8 %           10147         CAE         LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM)         LTE-FDD         6.72         9.8 %           10147         CAE         LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM)         L				WLAN	8.46	
10118         CAC         LEEE 802.11n (HT Missel, 81 Mbps, 16-CAM)         WLAN         8.15         1.9.6 %           10140         CAC         LEEE 802.11n (HT Missel, 31 Mbps, 16-CAM)         UTA         8.13         1.9.6 %           10141         CAE         LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-CAM)         LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 0PSK)         LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 0PSK)         LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 0CPSK)         LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-CAM)         LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-CAM)         LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-CAM)         LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-CAM)         LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-CAM)         LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-CAM)         LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-CAM)         LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-CAM)         L	10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10110         CAC         IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)         WLAN         8.13         # 9.6 %           10141         CAE         LTE-FDD         (5.47)MA, 100% RB, 15 MHz, 46-QAM)         LTE-FDD         6.53         # 9.6 %           10141         CAE         LTE-FDD         (5.57)MA, 100% RB, 31 MHz, 46-QAM)         LTE-FDD         6.53         # 9.6 %           10142         CAE         LTE-FDD (SC-FDMA, 100% RB, 31 MHz, 46-QAM)         LTE-FDD         6.65         # 9.6 %           10143         CAE         LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-QAM)         LTE-FDD         6.76         # 9.6 %           10146         CAF         LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-QAM)         LTE-FDD         6.76         # 9.6 %           10147         CAF         LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-CAM)         LTE-FDD         6.42         # 9.6 %           10150         CAE         LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-CAM)         LTE-FDD         8.6 %         9.6 %           10151         CAG         LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-CAM)         LTE-FDD         8.6 %         9.6 %         9.6 %         9.6 %         9.6 %         9.6 %         9.6 %         9.6 %         9.6 %         9.6 %         9.6 %         9.6 %         9.6 %         9.6 % <td>10117</td> <td>CAC</td> <td></td> <td>WLAN</td> <td>8.07</td> <td>± 9.6 %</td>	10117	CAC		WLAN	8.07	± 9.6 %
10140         CAE         LTE-FDD         6.6.49         ± 9.6 %.           10141         CAE         LTE-FDD         6.5.7         ± 9.6 %.           10142         CAE         LTE-FDD         6.5.7         ± 9.6 %.           10142         CAE         LTE-FDD         6.5.7         ± 9.6 %.           10143         CAE         LTE-FDD         6.5.7         ± 9.6 %.           10144         CAE         LTE-FDD         6.5.7         ± 9.6 %.           10145         CAF         LTE-FDD         6.5.7         ± 9.6 %.           10146         CAF         LTE-FDD         1.6.7         ± 9.6 %.           10147         CAF         LTE-FDD         1.6.7         ± 9.6 %.           10147         CAF         LTE-FDD         1.6.7         ± 9.6 %.           10140         CAE         LTE-FDD         6.6.7         ± 9.6 %.           10151         CAG         LTE-FDD         1.6.7         ± 9.6 %.           10152         CAG         LTE-FDD         1.6.7         ± 9.6 %.           10152         CAG         LTE-FDD         1.6.7         ± 9.6 %.           10152         CAG         LTE-FDD         1.6.7         ± 9.6 %. <td>10118</td> <td>CAC</td> <td></td> <td>WLAN</td> <td>8.59</td> <td>± 9.6 %</td>	10118	CAC		WLAN	8.59	± 9.6 %
10141         CAE         LTE-FDD         65.3         19.6 %           10142         CAE         LTE-FDD         65.3         19.6 %           10143         CAE         LTE-FDD         65.3         19.6 %           10144         CAE         LTE-FDD         65.3         19.6 %           10145         CAE         LTE-FDD         65.7         19.6 %           10146         CAF         LTE-FDD         15.7         19.6 %           10146         CAF         LTE-FDD         15.7         19.6 %           10146         CAF         LTE-FDD         15.7         19.6 %           10147         CAF         LTE-FDD         15.7         19.6 %           10147         CAF         LTE-FDD         15.7         19.6 %           10150         CAE         LTE-FDD         15.7         19.8 %           10151         CAG         LTE-FDD         15.7         19.8 %           10152         CAG         LTE-FDD         19.6 %         19.6 %           10152         CAG         LTE-FDD         19.6 %         19.6 %           10155         CAG         LTE-FDD         19.6 %         19.6 %           10156 </td <td>10119</td> <td>CAC</td> <td>IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)</td> <td>WLAN</td> <td>8.13</td> <td>± 9.6 %</td>	10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10141         CAE         LTE-FDD         65.3         ± 9.6 %           10142         CAE         LTE-FDD         55.3         ± 9.6 %           10143         CAE         LTE-FDD         55.3         ± 9.6 %           10143         CAE         LTE-FDD         55.7         ± 9.6 %           10143         CAE         LTE-FDD         55.6         ± 9.6 %           10145         CAF         LTE-FDD         55.7         ± 9.6 %           10146         CAF         LTE-FDD         55.7         ± 9.6 %           10147         CAF         LTE-FDD         55.7         ± 9.6 %           10147         CAF         LTE-FDD         55.7         ± 9.6 %           10147         CAF         LTE-FDD         55.7         ± 9.6 %           10150         CAE         LTE-FDD         55.7         ± 9.6 %           10151         CAG         LTE-FDD         105.7         ± 9.6 %           10152         CAG         LTE-FDD         105.7         ± 9.6 %           10153         CAG         LTE-FDD         105.7         ± 9.6 %           10154         CAG         LTE-FDD         105.7         ± 9.6 %	10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10142         CAE         LTE-FDD         57.3         \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)		6.53	
10143         CAE         LTE-FDD         (6.35)         \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD		
10144         CAE         LTE-FDD         (6.65)         ± 9.6 %           10145         CAF         LTE-FDD         (6.76)         ± 9.6 %           10146         CAF         LTE-FDD         (6.72)         ± 9.6 %           10147         CAF         LTE-FDD         (6.72)         ± 9.6 %           10147         CAF         LTE-FDD         (6.72)         ± 9.6 %           10149         CAE         LTE-FDD         (6.72)         ± 9.6 %           10150         CAE         LTE-FDD         (6.76)         ± 9.8 %           10151         CAG         LTE-FDD         (6.76)         ± 9.8 %           10152         CAG         LTE-FDD         (6.76)         ± 9.6 %           10153         CAG         LTE-FDD         (5.76)         ± 9.6 %           10154         CAG         LTE-FDD         (5.76)         ± 9.6 %           10155         CAG         LTE-FDD         (5.76)         ± 9.6 %           10156         CAG         LTE-FDD         (5.76)         ± 9.6 %           10157         CAG         LTE-FDD         (5.76)         ± 9.6 %           10158         CAG         LTE-FDD         (5.76)         ± 9.6 %	10143	CAE				
10145         CAF         LTE-FDD         5.76         \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10144	CAE			t	
10146         CAF         LTE-FDD         64.1         ±9.6 %           10147         CAF         LTE-FDD         65.72         ±9.6 %           10149         CAE         LTE-FDD         16C-FDMA, 50% RB, 20 MHz, 16-CAM)         LTE-FDD         6.42         ±9.6 %           10150         CAE         LTE-FDD         16C-FDMA, 50% RB, 20 MHz, 16-CAM)         LTE-FDD         6.60         ±9.6 %           10151         CAG         LTE-TDD         16C-FDMA, 50% RB, 20 MHz, 0FCAM)         LTE-TDD         9.92         ±9.6 %           10152         CAG         LTE-TDD         16C-FDMA, 50% RB, 20 MHz, 16-CAM)         LTE-TDD         9.92         ±9.6 %           10154         CAG         LTE-FDD         16C-FDMA, 50% RB, 10 MHz, 64-CAM)         LTE-FDD         6.43         ±9.6 %           10155         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-CAM)         LTE-FDD         6.49         ±9.6 %           10156         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-CAM)         LTE-FDD         6.49         ±9.6 %           10159         CAG         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-CAM)         LTE-FDD         6.42         ±9.6 %           10160         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-CAM)         LTE-FDD	10145	*********			+	
10147         CAF         LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)         LTE-FDD         8.72         ±9.6 %           10149         CAE         LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)         LTE-FDD         6.60         ±9.6 %           10150         CAE         LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)         LTE-FDD         9.28         ±9.6 %           10151         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)         LTE-FDD         9.92         ±9.8 %           10152         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)         LTE-FDD         10.05         ±9.8 %           10153         CAG         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 0PSK)         LTE-FDD         5.75         ±9.6 %           10155         CAG         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 0PSK)         LTE-FDD         6.43         ±9.6 %           10156         CAG         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 0PSK)         LTE-FDD         6.43         ±9.6 %           10158         CAG         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 0PSK)         LTE-FDD         6.43         ±9.6 %           10160         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 0CAM)         LTE-FDD         6.58         ±9.6 %           10161         CAE         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 0CAM)						
10149         CAE         LTE-FDD         6.42         ± 9.6 %           10150         CAE         LTE-FDD         6.60         ± 9.6 %           10151         CAG         LTE-FDD         (SC-FDMA, 50% RB, 20 MHz, 0FSK)         LTE-FDD         9.28         ± 9.6 %           10152         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)         LTE-TDD         9.92         ± 9.6 %           10153         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)         LTE-FDD         9.75         ± 9.6 %           10154         CAG         LTE-FDD (SC-FDMA, 50% RB, 50 MHz, 0FSK)         LTE-FDD         5.75         ± 9.6 %           10155         CAG         LTE-FDD (SC-FDMA, 50% RB, 50 MHz, 0F2K)         LTE-FDD         6.49         ± 9.6 %           10156         CAG         LTE-FDD (SC-FDMA, 50% RB, 50 MHz, 0F2K)         LTE-FDD         6.62         ± 9.6 %           10157         CAG         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 0F2K)         LTE-FDD         6.62         ± 9.6 %           10158         CAG         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 0F2K)         LTE-FDD         6.62         ± 9.6 %           10160         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 0F2K)         LTE-FDD         5.61         ± 9.6 %           1016					-	
10150         CAE         LTE-FDD         (SOC FDMA, 50%, RB, 20 MHz, G4-OAM)         LTE-FDD         6.80         ± 9.8           10151         CAG         LTE-TDD         (SC-FDMA, 50%, RB, 20 MHz, G4-OAM)         LTE-TDD         9.92         ± 9.8         %           10152         CAG         LTE-TDD         (SC-FDMA, 50%, RB, 20 MHz, G4-OAM)         LTE-TDD         9.92         ± 9.8         %           10153         CAG         LTE-TDD         (SC-FDMA, 50%, RB, 80 MHz, G4-OAM)         LTE-FDD         10.05         ± 9.8         %           10154         CAG         LTE-FDD         (SC-FDMA, 50%, RB, 5 MHz, G4-OAM)         LTE-FDD         6.43         ± 9.6         %           10155         CAG         LTE-FDD         (SC-FDMA, 50%, RB, 5 MHz, 16-OAM)         LTE-FDD         6.43         ± 9.6         %           10156         CAG         LTE-FDD         (SC-FDMA, 50%, RB, 16 MHz, G4-OAM)         LTE-FDD         6.56         ± 9.6         %           10161         CAE         LTE-FDD         (SC-FDMA, 50%, RB, 15 MHz, 64-OAM)         LTE-FDD         6.58         ± 9.6         %           10161         CAE         LTE-FDD         (SC-FDMA, 50%, RB, 14 MHz, 16-OAM)         LTE-FDD         5.78         ± 9.6         %						
10151         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 0PSK)         LTE-TDD         9.28         ± 9.6 %           10152         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 04-QAM)         LTE-TDD         9.92         ± 9.6 %           10153         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 04-QAM)         LTE-FDD         5.75         ± 9.8 %           10154         CAG         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 0-QPSK)         LTE-FDD         5.75         ± 9.8 %           10156         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 0-QAM)         LTE-FDD         6.42         ± 9.6 %           10157         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)         LTE-FDD         6.62         ± 9.6 %           10158         CAG         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 0-QAM)         LTE-FDD         6.62         ± 9.6 %           10160         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 0-QAM)         LTE-FDD         5.82         ± 9.6 %           10161         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 0-QAM)         LTE-FDD         5.86         ± 9.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 16-QAM)         LTE-FDD         6.43         ± 9.6 %           10166         CAF         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 16-QAM)					· · · · · · · · · · · · · · · · · · ·	
10152         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)         LTE-TDD         9.92         ± 9.6 %           10153         CAG         LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)         LTE-TDD         5.7 ± 9.6 %           10154         CAG         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)         LTE-FDD         5.7 ± 9.6 %           10155         CAG         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)         LTE-FDD         5.7 ± 9.6 %           10156         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)         LTE-FDD         6.49 ± 9.6 %           10158         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)         LTE-FDD         6.62 ± 9.6 %           10168         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)         LTE-FDD         6.62 ± 9.6 %           10160         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)         LTE-FDD         6.43 ± 9.6 %           10161         CAE         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, QPSK)         LTE-FDD         6.49 ± 9.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, QPSK)         LTE-FDD         6.49 ± 9.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, QPSK)         LTE-FDD         6.52 ± 9.6 %           10163         CAF         LTE-FDD (SC-FDMA, 50% RB, 14						
10153         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)         LTE-FDD         5.75         ± 9.6 %,           10154         CAG         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %,           10165         CAG         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)         LTE-FDD         6.43         ± 9.6 %,           10167         CAG         LTE-FDD (SC-FDMA, 50% RB, 50 MHz, 16-QAM)         LTE-FDD         6.62         ± 9.6 %,           10158         CAG         LTE-FDD (SC-FDMA, 50% RB, 50 MHz, 16-QAM)         LTE-FDD         6.62         ± 9.6 %,           10158         CAG         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 40-QAM)         LTE-FDD         6.62         ± 9.6 %,           10160         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 40-QAM)         LTE-FDD         6.62         ± 9.6 %,           10161         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 40-QAM)         LTE-FDD         6.43         ± 9.6 %,           10162         CAE         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, QPSK)         LTE-FDD         6.43         ± 9.6 %,           10162         CAE         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, QPSK)         LTE-FDD         6.73         ± 9.6 %,           10163         CAF         LTE-FDD (SC-FDMA, 18% 20 MHz, 46-QAM) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
19154       CAG       LTE-FDD       5.75       ±9.6 %         19155       CAG       LTE-FDD       SC-FDMA, 50% RB, 5 MHz, QPSK)       LTE-FDD       6.43       ±9.6 %         10156       CAG       LTE-FDD       SC-FDMA, 50% RB, 5 MHz, QPSK)       LTE-FDD       6.49       ±9.6 %         10157       CAG       LTE-FDD       SC-FDMA, 50% RB, 5 MHz, 16-QAM)       LTE-FDD       6.49       ±9.6 %         10158       CAG       LTE-FDD       SC-FDMA, 50% RB, 15 MHz, 46-QAM)       LTE-FDD       6.62       ±9.6 %         10160       CAE       LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 46-QAM)       LTE-FDD       6.43       ±9.6 %         10161       CAE       LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 40-QAM)       LTE-FDD       6.43       ±9.6 %         10162       CAE       LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 04-QAM)       LTE-FDD       6.48       ±9.6 %         10166       CAF       LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 16-QAM)       LTE-FDD       6.71       ±9.6 %         10168       CAF       LTE-FDD (SC-FDMA, 178, 20 MHz, 04-QAM)       LTE-FDD       6.72       ±9.6 %         10170       CAE       LTE-FDD (SC-FDMA, 178, 20 MHz, 04-QAM)       LTE-FDD       6.73       ±9.6 %         10171       CAE <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
10155         CAG         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)         LTE-FDD         6.43         ± 9.6 %           10166         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)         LTE-FDD         6.49         ± 9.6 %           10158         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)         LTE-FDD         6.62         ± 9.6 %           10158         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)         LTE-FDD         6.62         ± 9.6 %           10160         CAE         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)         LTE-FDD         6.62         ± 9.6 %           10161         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 40-QAM)         LTE-FDD         6.43         ± 9.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, QPSK)         LTE-FDD         6.46         ± 9.6 %           10166         CAF         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 0PSK)         LTE-FDD         6.79         ± 9.6 %           10168         CAF         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 0PSK)         LTE-FDD         6.79         ± 9.6 %           10169         CAE         LTE-FDD (SC-FDMA, 10% DM+z, 04-QAM)         LTE-FDD         6.79         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 178,20 MHz, 04-QAM)         LT			LTE-EDD (SC-EDMA 50% RB 10 MHz OPSK)			
10156       CAG       LTE-FDD       S.79       ±9.6 %         10157       CAG       LTE-FDD       S.79       ±9.6 %         10158       CAG       LTE-FDD       S.49       ±9.6 %         10158       CAG       LTE-FDD       S.679       ±9.6 %         10159       CAG       LTE-FDD       S.62       ±9.6 %         10160       CAE       LTE-FDD       S.62       ±9.6 %         10161       CAG       LTE-FDD       S.62       ±9.6 %         10161       CAE       LTE-FDD       S.62       ±9.6 %         10161       CAE       LTE-FDD       S.62       ±9.6 %         10162       CAE       LTE-FDD       S.62       ±9.6 %         10166       CAF       LTE-FDD       S.679 MA, 50% RB, 14 MHz, QPSK)       LTE-FDD       S.64       ±9.6 %         10168       CAF       LTE-FDD       SC-FDMA, 50% RB, 14 MHz, QPSK)       LTE-FDD       S.73       ±9.6 %         10170       CAE       LTE-FDD       SC-FDMA, 108 20 MHz, QPSK)       LTE-FDD       S.73       ±9.6 %         10171       AAE       LTE-FDD       SC-FDMA, 178 20 MHz, GA-QAM)       LTE-FDD       S.73       ±9.6 %         10172 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
10157         CAG         LTE-FDD         66.49         ± 9.6 %           10158         CAG         LTE-FDD         (SC-FDMA, 50% RB, 5 MHz, 64-QAM)         LTE-FDD         6.62         ± 9.6 %           10169         CAG         LTE-FDD         (SC-FDMA, 50% RB, 5 MHz, 64-QAM)         LTE-FDD         5.82         ± 9.6 %           10160         CAE         LTE-FDD         (SC-FDMA, 50% RB, 5 MHz, 64-QAM)         LTE-FDD         5.82         ± 9.6 %           10161         CAE         LTE-FDD         (SC-FDMA, 50% RB, 15 MHz, 64-QAM)         LTE-FDD         6.43         ± 9.6 %           10162         CAE         LTE-FDD         (SC-FDMA, 50% RB, 14 MHz, 16-QAM)         LTE-FDD         5.46         ± 9.6 %           10162         CAF         LTE-FDD         (SC-FDMA, 50% RB, 14 MHz, 16-QAM)         LTE-FDD         6.79         ± 9.6 %           10168         CAF         LTE-FDD         (SC-FDMA, 18B, 20 MHz, 16-QAM)         LTE-FDD         6.79         ± 9.6 %           10170         CAE         LTE-FDD         (SC-FDMA, 18B, 20 MHz, 16-QAM)         LTE-FDD         6.49         ± 9.6 %           10172         CAG         LTE-FDD         (SC-FDMA, 18B, 20 MHz, 20 FSK)         LTE-FDD         6.49         ± 9.6 %						
10158         CAG         LTE-FDD         (S.C.FDMA, 50% RB, 5 MHz, 64-QAM)         LTE-FDD         (S.6.2)         ± 9.6 %           10159         CAG         LTE-FDD         (S.C.FDMA, 50% RB, 15 MHz, 64-QAM)         LTE-FDD         (S.A.S.K.S.K.S.K.S.K.S.K.S.K.S.K.S.K.S.K.						
10159         CAG         LTE-FDD         6.56         1 9.6 %           10160         CAE         LTE-FDD         S.22         1 9.6 %           10161         CAE         LTE-FDD         S.22         1 9.6 %           10162         CAE         LTE-FDD         S.27         1 9.6 %           10162         CAE         LTE-FDD         S.27         1 9.6 %           10162         CAE         LTE-FDD         S.46         1 9.6 %           10166         CAF         LTE-FDD         S.46         1 9.6 %           10167         CAE         LTE-FDD         S.46         1 9.6 %           10168         CAF         LTE-FDD         S.47         1 9.6 %           10169         CAE         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 0F-QAM)         LTE-FDD         6.79         1 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0F-QAM)         LTE-FDD         6.49         1 9.6 %           10171         AAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0F-QAM)         LTE-FDD         9.48         9.6 %           10172         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0F-QAM)         LTE-FDD         9.21         1 9.6 %           10174         CAG						
10160         CAE         LTE-FDD         5.82         ± 9.6 %           10161         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)         LTE-FDD         6.43         ± 9.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)         LTE-FDD         6.58         ± 9.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, GPSK)         LTE-FDD         6.64         ± 9.6 %           10168         CAF         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 64-QAM)         LTE-FDD         6.71         ± 9.6 %           10169         CAE         LTE-FDD (SC-FDMA, 18B, 20 MHz, 64-QAM)         LTE-FDD         5.73         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 1RB, 20 MHz, 64-QAM)         LTE-FDD         6.49         ± 9.6 %           10171         CAE         LTE-FDD (SC-FDMA, 1RB, 20 MHz, 64-QAM)         LTE-FDD         9.21         ± 9.6 %           10172         CAG         LTE-FDD (SC-FDMA, 1RB, 20 MHz, 64-QAM)         LTE-FDD         9.21         ± 9.6 %           10174         CAG         LTE-FDD (SC-FDMA, 1RB, 20 MHz, 64-QAM)         LTE-FDD         9.21         ± 9.6 %           10175         CAG         LTE-FDD (SC-FDMA, 1RB, 20 MHz, 64-QAM)         LTE-FDD         9.27         ± 9.6 %		1				
10161         CAE         LTE-FDD         6.43         ± 9.6 %           10162         CAE         LTE-FDD         (SC-FDMA, 50% RB, 15 MHz, G4-QAM)         LTE-FDD         6.68         ± 9.6 %           10166         CAF         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, QPSK)         LTE-FDD         6.61         ± 9.6 %           10167         CAF         LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)         LTE-FDD         6.21         ± 9.6 %           10168         CAF         LTE-FDD (SC-FDMA, 60% RB, 1.4 MHz, G4-QAM)         LTE-FDD         6.73         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 1RB, 20 MHz, QPSK)         LTE-FDD         6.62         ± 9.6 %           10171         AAE         LTE-FDD (SC-FDMA, 1RB, 20 MHz, G4-QAM)         LTE-FDD         6.49         ± 9.6 %           10172         CAG         LTE-TDD (SC-FDMA, 1RB, 20 MHz, G4-QAM)         LTE-FDD         9.21         ± 9.6 %           10173         CAG         LTE-TDD (SC-FDMA, 1RB, 20 MHz, G4-QAM)         LTE-FDD         9.72         ± 9.6 %           10174         CAG         LTE-FDD (SC-FDMA, 1RB, 20 MHz, G4-QAM)         LTE-FDD         5.72         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1RB, 10 MHz, G4-QAM)         LTE-FDD         6.52         <		<u> </u>		****		
10162         CAE         LTE-FDD         6.58         ± 9.6 %           10166         CAF         LTE-FDD         (SC-FDMA, 50% RB, 1.4 MHz, QPSK)         LTE-FDD         5.46         ± 9.6 %           10167         CAF         LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.79         ± 9.6 %           10168         CAF         LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.79         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10171         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, GPSK)         LTE-FDD         6.49         ± 9.6 %           10172         CAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, GPSK)         LTE-TDD         9.21         ± 9.6 %           10173         CAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, GA-QAM)         LTE-TDD         10.25         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, GA-QAM)         LTE-FDD         5.72         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, GPSK)         LTE-FDD         5.72         ± 9.6 %           10177         CAI         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         5.72         <						
10166         CAF         LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)         LTE-FDD         5.46         19.6 %           10167         CAF         LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.21         ±9.6 %           10168         CAF         LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.79         ±9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)         LTE-FDD         6.52         ±9.6 %           10171         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0PSK)         LTE-FDD         6.49         ±9.6 %           10172         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0PSK)         LTE-FDD         6.49         ±9.6 %           10173         CAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 0PSK)         LTE-FDD         9.21         ±9.6 %           10174         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0PSK)         LTE-FDD         5.72         ±9.6 %           10175         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         5.72         ±9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 0AM)         LTE-FDD         5.72         ±9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 0AM)         LTE-FDD <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
10167         CAF         LTE-FDD         6.21         ±9.6 %           10168         CAF         LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.79         ±9.6 %           10169         CAE         LTE-FDD (SC-FDMA, 1RB, 20 MHz, QPSK)         LTE-FDD         6.52         ±9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 1RB, 20 MHz, 64-QAM)         LTE-FDD         6.52         ±9.6 %           10171         AAE         LTE-FDD (SC-FDMA, 1RB, 20 MHz, 64-QAM)         LTE-FDD         6.49         ±9.6 %           10172         CAG         LTE-TDD (SC-FDMA, 1RB, 20 MHz, 16-QAM)         LTE-TDD         9.21         ±9.6 %           10173         CAG         LTE-TDD (SC-FDMA, 1RB, 20 MHz, 16-QAM)         LTE-TDD         9.48         ±9.6 %           10174         CAG         LTE-FDD (SC-FDMA, 1RB, 20 MHz, QPSK)         LTE-FDD         5.72         ±9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1RB, 10 MHz, QPSK)         LTE-FDD         5.72         ±9.6 %           10177         CAI         LTE-FDD (SC-FDMA, 1RB, 5 MHz, 16-QAM)         LTE-FDD         5.72         ±9.6 %           10178         CAG         LTE-FDD (SC-FDMA, 1RB, 5 MHz, 0PSK)         LTE-FDD         5.52         ±9.6 %						
10168         CAF         LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.79         ± 9.6 %           10169         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10171         AAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)         LTE-FDD         6.49         ± 9.6 %           10172         CAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)         LTE-TDD         9.48         ± 9.6 %           10173         CAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)         LTE-TDD         10.25         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10177         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10178         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, G4-QAM)         LTE-FDD						
10169         CAE         LTE-FDD         SC-FDMA, 1 RB, 20 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10170         CAE         LTE-FDD         (SC-FDMA, 1 RB, 20 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10171         AAE         LTE-FDD         (SC-FDMA, 1 RB, 20 MHz, QPSK)         LTE-FDD         9.21         ± 9.6 %           10172         CAG         LTE-TDD         (SC-FDMA, 1 RB, 20 MHz, QPSK)         LTE-TDD         9.21         ± 9.6 %           10173         CAG         LTE-TDD         (SC-FDMA, 1 RB, 20 MHz, QPSK)         LTE-TDD         9.48         ± 9.6 %           10175         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10177         CAI         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10179         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, G4-QAM)         LTE-FDD         5.57         ± 9.6 %           10179         CAG						
10170       CAE       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)       LTE-FDD       6.52       ± 9.6 %         10171       AAE       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)       LTE-FDD       6.49       ± 9.6 %         10172       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)       LTE-TDD       9.21       ± 9.6 %         10173       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-TDD       9.48       ± 9.6 %         10174       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-TDD       9.48       ± 9.6 %         10175       CAG       LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)       LTE-FDD       5.72       ± 9.6 %         10176       CAG       LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)       LTE-FDD       5.72       ± 9.6 %         10177       CAI       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 40-QAM)       LTE-FDD       5.73       ± 9.6 %         10178       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)       LTE-FDD       6.50       ± 9.6 %         10179       CAG       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0PSK)       LTE-FDD       6.50       ± 9.6 %         10180       CAE       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0PSK)       LTE-FDD       5.72       ± 9.6 %         10182       CAE       LTE-FDD (						
10171       AAE       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM)       LTE-FDD       6.49       ± 9.6 %         10172       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)       LTE-TDD       9.21       ± 9.6 %         10173       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM)       LTE-TDD       9.48       ± 9.6 %         10174       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)       LTE-FDD       5.72       ± 9.6 %         10175       CAG       LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)       LTE-FDD       5.72       ± 9.6 %         10176       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)       LTE-FDD       6.52       ± 9.6 %         10177       CAI       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)       LTE-FDD       6.52       ± 9.6 %         10178       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 04-QAM)       LTE-FDD       6.50       ± 9.6 %         10180       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 04-QAM)       LTE-FDD       6.50       ± 9.6 %         10181       CAE       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 04-QAM)       LTE-FDD       6.50       ± 9.6 %         10182       CAE       LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)       LTE-FDD       6.50       ± 9.6 %         10183       AAD       LTE-						
10172         CAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)         LTE-TDD         9.21         ± 9.6 %           10173         CAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)         LTE-TDD         9.48         ± 9.6 %           10174         CAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)         LTE-TDD         10.25         ± 9.6 %           10175         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10177         CAI         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10178         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, GA-QAM)         LTE-FDD         6.50         ± 9.6 %           10179         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, G4-QAM)         LTE-FDD         6.50         ± 9.6 %           10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, GPSK)         LTE-FDD         6.52         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, GPSK)         LTE-FDD			LTE EDD (SC EDMA, 1 RB, 20 MHz, 64 OAM)		*************	
10173         CAG         LTE-TDD         S.48         ± 9.6 %           10174         CAG         LTE-TDD         (SC-FDMA, 1 RB, 20 MHz, 64-QAM)         LTE-TDD         10.25         ± 9.6 %           10175         CAG         LTE-TDD         (SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10177         CAI         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10178         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10180         CAG         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, G4-QAM)         LTE-FDD         6.51						
10174         CAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)         LTE-TDD         10.25         ± 9.6 %           10175         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10177         CAI         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10178         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10179         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10180         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0-QAM)         LTE-FDD         6.50         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 0-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 0-QAM)         LTE-FDD						
10175         CAG         LTE-FDD         SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10177         CAI         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10178         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10179         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10180         CAG         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 44-QAM)         LTE-FDD         5.72         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 04-QAM)         LTE-FDD         5.72         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 04-QAM)         LTE-FDD         5.73         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 04-QAM)         LTE-FDD         6.50         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 04-QAM)						
10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10177         CAI         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10178         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10179         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10180         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         6.51         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD						
10177         CAI         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10178         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10179         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10180         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD         5.72         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0PSK)         LTE-FDD         6.52         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD						**************************************
10178         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10179         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10180         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         6.51         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         6.51         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 14 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10186         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD		*****				
10179         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10180         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         6.51         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         LTE-FDD         6.51         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 04-QAM)         LTE-FDD         6.50         ± 9.6 %           10186         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 04-QAM)         LTE-FDD         5.73         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD <td></td> <td></td> <td></td> <td></td> <td></td> <td>f</td>						f
10180         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, G4-QAM)         LTE-FDD         5.73         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, G4-QAM)         LTE-FDD         5.73         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD         5.73         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WL						
10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
10182CAELTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)LTE-FDD6.52± 9.6 %10183AADLTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)LTE-FDD6.50± 9.6 %10184CAELTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)LTE-FDD5.73± 9.6 %10185CAELTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)LTE-FDD6.51± 9.6 %10186AAELTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)LTE-FDD6.50± 9.6 %10187CAFLTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)LTE-FDD5.73± 9.6 %10188CAFLTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)LTE-FDD5.73± 9.6 %10188CAFLTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)LTE-FDD6.52± 9.6 %10189AAFLTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)LTE-FDD6.50± 9.6 %10193CACIEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)WLAN8.09± 9.6 %10194CACIEEE 802.11n (HT Greenfield, 6.5 Mbps, 64-QAM)WLAN8.12± 9.6 %10196CACIEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)WLAN8.10± 9.6 %10196CACIEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)WLAN8.13± 9.6 %10196CACIEEE 802.11n (HT Mixed, 6.5 Mbps, 64-QAM)WLAN8.13± 9.6 %10198CACIEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)WLAN8.13± 9.6 %						
10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         6.51         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN						
10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         LTE-FDD         6.51         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN<						
10185CAELTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)LTE-FDD6.51± 9.6 %10186AAELTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)LTE-FDD6.50± 9.6 %10187CAFLTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)LTE-FDD5.73± 9.6 %10188CAFLTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)LTE-FDD6.52± 9.6 %10189AAFLTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)LTE-FDD6.50± 9.6 %10193CACIEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)WLAN8.09± 9.6 %10194CACIEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)WLAN8.12± 9.6 %10195CACIEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)WLAN8.11± 9.6 %10196CACIEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)WLAN8.10± 9.6 %10198CACIEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)WLAN8.13± 9.6 %10198CACIEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)WLAN8.13± 9.6 %						
10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.10         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.13         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         <						
10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.10         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 16-QAM)         WLAN         8.13         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)						
10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.10         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.13         ± 9.6 %						
10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.10         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.13         ± 9.6 %						
10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.21         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.27         ± 9.6 %						
10194         CAC         IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.21         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.10         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.27         ± 9.6 %						
10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.21         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.27         ± 9.6 %						
10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.27         ± 9.6 %				**************************************		
10197         CAC         IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.27         ± 9.6 %						
10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.27         ± 9.6 %						
10219   CAC   IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) WLAN 8.03 ± 9.6 %						
	10219		IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %

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10220	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±96%
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6 %
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6%
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6 %
10226	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6 %
10227	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6 %
10228	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6 %
10229	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6%
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6 %
10232	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10233	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10235	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10236	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10237	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10240	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10241	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10242	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10243	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QFSK)	LTE-TDD	9.46	± 9.6 %
				10.06	± 9.6 %
10245	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD		
10246	CAC		LTE-TDD	9.30	$\pm 9.6\%$
10247	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6%
10248	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	± 9.6 %
10249	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6%
10250	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6 %
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6 %
10256	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6%
10257	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6 %
10259	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6 %
10260	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6 %
10261	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.6 %
10262	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6 %
10263	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6 %
10265	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	±9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAB	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 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10290	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10291	AAB	CDMA2000, RC3, SO30, Full Rate	CDMA2000	3.39	± 9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000 CDMA2000	3.59	± 9.6 %
			CDMA2000	12.49	± 9.6 %
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	LTE-FDD		$\pm 9.6\%$ $\pm 9.6\%$
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)		5.81	
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	$\pm 9.6\%$
10299	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %

10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	12.03	± 9.6 %
10302	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL	WIMAX	12.57	± 9.6 %
		symbols)			
10303	AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	Wimax	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	WIMAX	15.24	± 9.6 %
10306	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	WIMAX	14.67	± 9.6 %
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	WIMAX	14.49	± 9.6 %
10308	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WIMAX	14,46	±9.6 %
10309	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	Wimax	14.58	± 9.6 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	WIMAX	14.57	± 9.6 %
10311	AAD	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	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10352 10353	AAA AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA AAA	Pulse Waveform (200Hz, 20%) Pulse Waveform (200Hz, 40%)	Generic Generic	6.99	$\pm 9.6\%$
10355	AAA	Pulse Waveform (200Hz, 60%)		3.98	$\pm 9.6\%$
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic Generic	2.22 0.97	±9.6 % ±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	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	± 9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6 %
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6 %
10410	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	±9.6 %
		Subframe=2,3,4,7,8,9, Subframe Conf=4)	·····		
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	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	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10418		IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle,	WLAN	8.14	± 9.6 %
10419	AAA	Short preambule)	WLAN	8.19	± 9.6 %
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	±9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	±9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6 %
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	±9.6%
10427 10430	AAB AAD	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6%
10433	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	LTE-FDD WCDMA	8.34	±9.6%
10434	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL	LTE-TDD	8.60 7.82	± 9.6 % ± 9.6 %
		Subframe=2,3,4,7,8,9)			
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.6 %
10449 10450	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	± 9.6 %
10400	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %

10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6 %
10456	AAB	IEEE 802.11ac WIFi (160MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6 %
<u>10459</u> 10460	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA AAA	UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL	WCDMA LTE-TDD	2.39	±9.6 % ±9.6 %
10401		Subframe=2,3,4,7,8,9)	LICIDD	1.02	19.0 %
10462	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.30	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10463	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.56	± 9.6 %
10464	AAB	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL	LTE-TDD	7.82	1000
10404		Subframe=2,3,4,7,8,9)	LIE-IDD	7.82	± 9.6 %
10465	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.32	±9.6%
10100	1,2,0	Subframe=2,3,4,7,8,9)		0.02	10.0 %
10466	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10467	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
40400		Subframe=2,3,4,7,8,9)	5 AUGUI MAAA ANNAA DIMA, MAA,	0.00	
10468	AAE	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	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.56	± 9.6 %
10400		Subframe=2,3,4,7,8,9)		0.00	1 0.0 %
10470	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10471	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10472	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
10473	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10415		Subframe=2,3,4,7,8,9)	LIC-IDD	1.02	1 9.0 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.32	±9.6 %
10478	AAF	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
10470		Subframe=2,3,4,7,8,9)		0.57	1 9.0 %
10479	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8,18	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.45	± 9.6 %
10482	AAB	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL	LTE-TDD	7.71	± 9.6 %
10402		Subframe=2,3,4,7,8,9)		1.11	1 9.0 %
10483	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.39	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.47	±9.6 %
		Subframe=2,3,4,7,8,9)			
10485	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL	LTE-TDD	7.59	±9.6 %
10486		Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL	LTE-TDD	0.00	+069/
10400	AAE	Subframe=2,3,4,7,8,9)	LIE-IDD	8.38	± 9.6 %
10487	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.60	±9.6 %
		Subframe=2,3,4,7,8,9)		0.00	
10488	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL	LTE-TDD	7.70	±9.6 %
		Subframe=2,3,4,7,8,9)			
10489	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.31	± 9.6 %
		Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL			
40.455		I FIE TOD (SC-EDMA 50% RB 10 MHz 64-0AM HI	LTE-TDD	8.54	±9.6 %
10490	AAE				,.
10490	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %

10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.41	± 9,6 %
10493	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.55	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.37	±9.6 %
		Subframe=2,3,4,7,8,9)			
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.54	±9.6 %
10497	AAA	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.67	±9.6 %
	,,,,,,	Subframe=2,3,4,7,8,9)		1.07	10.0 %
10498	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.40	±9.6 %
10499	AAA	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.68	± 9.6 %
10400	/	Subframe=2,3,4,7,8,9)		0.00	1 0.0 %
10500	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL	LTE-TDD	7.67	±9.6 %
10501	AAB	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.44	± 9.6 %
10001		Subframe=2,3,4,7,8,9)		0.44	I9.070
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.52	± 9.6 %
10503	0.0F	Subframe=2,3,4,7,8,9)			1000
10503	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6 %
10504	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.31	±9.6 %
40505	<u></u>	Subframe=2,3,4,7,8,9)			
10505	AAE	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	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10507	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.36	±9.6 %
10508	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.55	±9.6 %
		Subframe=2,3,4,7,8,9)		0.00	20.0 /0
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL	LTE-TDD	7.99	±9.6 %
10510	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.49	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10511	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.51	±9.6 %
10512	AAF	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
		Subframe=2,3,4,7,8,9)		1.1-4	2.0.0 /0
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.42	±9.6 %
				1	
1051/		Subframe=2,3,4,7,8,9)			
10514	AAF	Subframe=2,3,4,7,8,9) 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	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	LTE-TDD WLAN	8.45 1.58	
10515 10516	AAA AAA	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	UTE-TDD WLAN WLAN	8.45 1.58 1.57	± 9.6 % ± 9.6 % ± 9.6 %
10515 10516 10517	AAA AAA AAA	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN	8.45 1.58 1.57 1.58	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10515 10516 10517 10518	AAA AAA AAA AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN WLAN	8.45 1.58 1.57 1.58 8.23	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10515 10516 10517 10518 10519	AAA AAA AAA AAB AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN WLAN WLAN	8.45 1.58 1.57 1.58 8.23 8.39	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10515 10516 10517 10518 10519 10520	AAA AAA AAA AAB AAB AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.45           1.58           1.57           1.58           8.23           8.39           8.12	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10515 10516 10517 10518 10519 10520 10521	AAA AAA AAA AAB AAB AAB AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.45 1.58 1.57 1.58 8.23 8.39 8.12 7.97	$\begin{array}{c} \pm \ 9.6 \ \% \\ \pm \ 9.6 \ \% \end{array}$
10515 10516 10517 10518 10519 10520 10521 10522	AAA AAA AAA AAB AAB AAB AAB AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.45 1.58 1.57 1.58 8.23 8.39 8.12 7.97 8.45	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10515           10516           10517           10518           10519           10520           10521           10522           10523	AAA AAA AAA AAB AAB AAB AAB AAB AAB AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.45 1.58 1.57 1.58 8.23 8.39 8.12 7.97 8.45 8.08	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10515           10516           10517           10518           10519           10520           10521           10522           10523	AAA AAA AAA AAB AAB AAB AAB AAB AAB AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.45 1.58 1.57 1.58 8.23 8.39 8.12 7.97 8.45 8.08 8.27	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10515           10516           10517           10518           10519           10520           10521           10522           10523           10524	AAA AAA AAB AAB AAB AAB AAB AAB AAB AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.45           1.58           1.57           1.58           8.23           8.39           8.12           7.97           8.45           8.08           8.27           8.36	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10515           10516           10517           10518           10519           10520           10521           10522           10523           10524           10525	AAA AAA AAB AAB AAB AAB AAB AAB AAB AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.45 1.58 1.57 1.58 8.23 8.39 8.12 7.97 8.45 8.08 8.27 8.36 8.42	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10515           10516           10517           10518           10519           10520           10521           10522           10523           10524           10525           10526	AAA AAA AAB AAB AAB AAB AAB AAB AAB AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.45           1.58           1.57           1.58           8.23           8.39           8.12           7.97           8.45           8.08           8.27           8.36           8.42	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10515           10516           10517           10518           10519           10520           10521           10522           10523           10524           10525           10526           10527	AAA AAA AAB AAB AAB AAB AAB AAB AAB AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.45           1.58           1.57           1.58           8.23           8.39           8.12           7.97           8.45           8.08           8.27           8.36           8.42           8.36	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10515           10516           10517           10518           10519           10520           10521           10522           10523           10524           10525           10526           10527           10528           10529	AAA AAA AAB AAB AAB AAB AAB AAB AAB AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.45           1.58           1.57           1.58           8.23           8.39           8.12           7.97           8.45           8.08           8.27           8.36           8.42           8.36	$\begin{array}{c} \pm \ 9.6 \ \% \\ \end{array}$
10515           10516           10517           10518           10519           10520           10521           10522           10523           10524           10525           10526           10527           10528           10529	AAA AAA AAB AAB AAB AAB AAB AAB AAB AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.45           1.58           1.57           1.58           8.23           8.39           8.12           7.97           8.45           8.08           8.27           8.36           8.42           8.36           8.42           8.36           8.36           8.36	$\begin{array}{c} \pm \ 9.6\ \% \\ \end{array}$
10515           10516           10517           10518           10519           10520           10521           10522           10523           10524           10525           10526           10527           10528           10529	AAA AAA AAB AAB AAB AAB AAB AAB AAB AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	UTE-TDD WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.45           1.58           1.57           1.58           8.23           8.39           8.12           7.97           8.45           8.08           8.27           8.36           8.42           8.36	$\begin{array}{c} \pm \ 9.6 \ \% \\ \end{array}$

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40207					
10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6%
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	WLAN	8.39	±9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6%
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8,69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty	WLAN	8.25	± 9.6 %
		cycle)		0,20	
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty	WLAN	8.45	± 9.6 %
		cycle)		0.10	_ 0.0 /0
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty	WLAN	8.13	± 9.6 %
		cycle)		0.70	10.0 %
10567	ААА	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty	WLAN	8.00	± 9.6 %
	,	cycle)		0.00	20.070
10568	ААА	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty	WLAN	8.37	± 9.6 %
	,	cycle)		0.07	
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty	WLAN	8.10	± 9.6 %
					20.0 /0
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty	WLAN	8.30	± 9.6 %
		cycle)	T T had to t	0.00	20.0 %
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 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 3.5 Mips, 90pc duty cycle)	WLAN	1.98	±9.6%
10574	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6 %
10010		cycle)	VV LPUN	0.59	1 3.0 %
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty	WLAN	8.60	± 9.6 %
10070	1000			0.00	1 3.0 %
10577	AAA	cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty	WLAN	8.70	± 9.6 %
10577			VVLAIN	0.70	19.0 %
10578		cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty	WLAN	04.0	1060
10070	AAA	cycle)	VVLAIN	8.49	± 9.6 %
40570	A A A		34/1-481	0.00	1069/
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty	WLAN	8.36	±9.6 %
10580	٨٨٨	cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty		0.70	± 9.6 %
10000	AAA		WLAN	8.76	19.0%
10504			14/1 4 5 1	0.05	
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty	WLAN	8.35	± 9.6 %
40500	A A A	cycle)	10/1 0.51	0.07	+0.00
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty	WLAN	8.67	± 9.6 %
10500	445	cycle)		1 0 00	
10583	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6%
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10586	AAB AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN WLAN	8.49	± 9.6 % ± 9.6 %
10587		LIERE AUX TIG/D WHELD GET (CEDM. 24 Mbbs. 900c duty cycle)		8.36	1 + U K %

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10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	± 9.6 %
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	± 9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6 %
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	±9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6 %
10616	AAB	IEEE 802.11ac WIFI (40MHz, MCS0, 90pc duty cycle)	WLAN	8,82	±9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6%
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6 %
10632	AAB	IEEE 802.11ac WiFI (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	9.11	± 9.6 %
10646	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6 %
10647	AAF	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	AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6 %
10653	AAD	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6 %
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6 %

Labelso         AAKE         LTE-TUD         // 14         24.84           Labelso         AAAA         Pulse Waveform (2001+z, 20%)         Test         10.00         4.9.6 %           Labelso         AAA         Pulse Waveform (2001+z, 20%)         Test         3.9.8         4.9.6 %           Labelso         AAA         Pulse Waveform (2001+z, 20%)         Test         3.9.8         4.9.6 %           Labelso         AAA         Pulse Waveform (2001+z, 20%)         Test         3.9.8         4.9.6 %           Labelso         AAA         Pulse Waveform (2001+z, 20%)         Test         3.9.7         4.9.6 %           Labelso         AAA         Pulse Waveform (2001+z, 20%)         Test         3.9.7         4.9.6 %           Labelso         Lisz (20011-z)         Labelso         S.9.6 duty cycle)         WLAN         8.0.6 %           Labelso         Lisz (20011-z)         Lisz (20011-z)         S.9.6 duty cycle)         WLAN         8.7.7         4.9.6 %           L0773         AAA         LEEE 802.1 tax (20014-z)         CS6.9 Spoc duty cycle)         WLAN         8.7.7         4.9.6 %           L0777         AAA         LEEE 802.1 tax (20014-z)         CS6.9 Spoc duty cycle)         WLAN         8.7.7         4.9.6 %	40055					
10669         AAA         Pulse Waveform (2001z, 20%)         Test         3.98         ± 9.6 %           10661         AAA         Pulse Waveform (2001z, 60%)         Test         2.22         ± 9.6 %           10662         AAA         Pulse Waveform (2001z, 60%)         Test         0.97         ± 9.6 %           10671         AAA         Bluetooth Low Energy         Bluetooth         2.1 ± 9.6 %           10672         AAA         IEEE 802.11ax (2001tz, MCS0, Sopc duty cycle)         WLAN         8.70         ± 9.6 %           10673         AAA         IEEE 802.11ax (2001tz, MCS0, Sopc duty cycle)         WLAN         8.70         ± 9.6 %           10674         AAA         IEEE 802.11ax (2001tz, MCS0, Sopc duty cycle)         WLAN         8.70         ± 9.6 %           10676         AAA         IEEE 802.11ax (2001tz, MCS0, Sopc duty cycle)         WLAN         8.77         ± 9.6 %           10676         AAA         IEEE 802.11ax (2001tz, MCS0, Sopc duty cycle)         WLAN         8.73         ± 9.6 %           10677         AAA         IEEE 802.11ax (2001tz, MCS0, Sopc duty cycle)         WLAN         8.73         ± 9.6 %           10678         AAA         IEEE 802.11ax (2001tz, MCS0, Sopc duty cycle)         WLAN         8.62         ± 9.6 %	10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10660         AAA         Pulse Waveform (2001z, 20%).         Test         3.28         ± 9.6 %.           10661         AAA         Pulse Waveform (2001z, 20%).         Test         0.22         ± 9.6 %.           10670         AAA         Pulse Waveform (2001z, 20%).         Test         0.23         ± 9.6 %.           10671         AAA         IEEE B02.11ax (20M1z, MCS0, S0pc duty cycle)         WLAN         9.6 %.           10671         AAA         IEEE B02.11ax (20M1z, MCS3, S0pc duty cycle)         WLAN         8.77         ± 9.6 %.           10673         AAA         IEEE B02.11ax (20M1z, MCS3, S0pc duty cycle)         WLAN         8.77         ± 9.6 %.           10676         AAA         IEEE B02.11ax (20M1z, MCS3, S0pc duty cycle)         WLAN         8.77         ± 9.6 %.           10677         AAA         IEEE B02.11ax (20M1z, MCS4, S0pc duty cycle)         WLAN         8.78         ± 9.6 %.           10677         AAA         IEEE B02.11ax (20M1z, MCS1, S0pc duty cycle)         WLAN         8.78         ± 9.6 %.           10678         AAA         IEEE B02.11ax (20M1z, MCS1, S0pc duty cycle)         WLAN         8.83         ± 9.6 %.           10680         AAA         IEEE B02.11ax (20M1z, MCS1, S0pc duty cycle)         WLAN         8.83						
10681         AAA         Pulse Waveform (20014; 60%)         Test         2.27         ± 9.6 %           10662         AAA         Bluehodh. Low Energy         Bluehodh         9.9 %         9.9 %           10671         AAA         IEEE 602.11ax (20M14; MCS0, 90pc duly cycle)         WLAN         9.0 %         + 9.6 %           10672         AAA         IEEE 802.11ax (20M14; MCS0, 90pc duly cycle)         WLAN         8.76         + 9.6 %           10673         AAA         IEEE 802.11ax (20M14; MCS0, 90pc duly cycle)         WLAN         8.76         + 9.6 %           10674         AAA         IEEE 802.11ax (20M14; MCS3, 90pc duly cycle)         WLAN         8.77         + 9.6 %           10875         AAA         IEEE 802.11ax (20M14; MCS3, 90pc duly cycle)         WLAN         8.77         + 9.6 %           10976         AAA         IEEE 802.11ax (20M14; MCS3, 90pc duly cycle)         WLAN         8.78         + 9.6 %           10979         AAA         IEEE 802.11ax (20M14; MCS1, 90pc duly cycle)         WLAN         8.89         + 9.6 %           10881         AAA         IEEE 802.11ax (20M14; MCS1, 90pc duly cycle)         WLAN         8.82         + 9.6 %           10882         AAA         IEEE 802.11ax (20M14; MCS1, 90pc duly cycle)         WLAN		· · · · · · · · · · · · · · · · · · ·				
10662         AAA         Pulse Waveform (2001b), 80%)         Test         0.97         ± 9.65%           10670         AAA         IEEE 802:11ax (200Hz, 80%)         WiLAN         9.09         ± 9.65%           10071         AAA         IEEE 802:11ax (200Hz, MCS1, 30pc duty cycle)         WILAN         8.67         ± 9.65%           10073         AAA         IEEE 802:11ax (200Hz, MCS1, 30pc duty cycle)         WILAN         8.77         ± 9.65%           10073         AAA         IEEE 802:11ax (200Hz, MCS3, 30pc duty cycle)         WILAN         8.74         ± 9.65%           10075         AAA         IEEE 802:11ax (200Hz, MCS3, 50pc duty cycle)         WILAN         8.77         ± 9.65%           10076         AAA         IEEE 802:11ax (200Hz, MCS3, 90pc duty cycle)         WILAN         8.73         ± 9.65%           10077         AAA         IEEE 802:11ax (200Hz, MCS3, 90pc duty cycle)         WILAN         8.62         ± 9.65%           10678         AAA         IEEE 802:11ax (200Hz, MCS1, 90pc duty cycle)         WILAN         8.62         ± 9.65%           10680         AAA         IEEE 802:11ax (200Hz, MCS1, 90pc duty cycle)         WILAN         8.62         ± 9.65%           10681         AAA         IEEE 802:11ax (200Hz, MCS1, 90pc duty cycle)         WI	5					
10670         AAA         Bluetooth Low Energy         Bluetooth         2,19         ± 9,6 %           10071         AAA         IEEE 602.11ax (20MHz, MCS1, 00pc duly cycle)         WLAN         9,6 %           10072         AAA         IEEE 602.11ax (20MHz, MCS3, 00pc duly cycle)         WLAN         8,7 d         ± 9,6 %           10074         AAA         IEEE 602.11ax (20MHz, MCS3, 00pc duly cycle)         WLAN         8,7 d         ± 9,6 %           10075         AAA         IEEE 602.11ax (20MHz, MCS3, 00pc duly cycle)         WLAN         8,7 d         ± 9,6 %           10076         AAA         IEEE 602.11ax (20MHz, MCS5, 00pc duly cycle)         WLAN         8,7 d         ± 9,6 %           10077         AAA         IEEE 602.11ax (20MHz, MCS1, 00pc duly cycle)         WLAN         8,8 d         ± 9,6 %           10678         AAA         IEEE 602.11ax (20MHz, MCS1, 00pc duly cycle)         WLAN         6,8 d         ± 9,6 %           10681         AAA         IEEE 602.11ax (20MHz, MCS1, 00pc duly cycle)         WLAN         6,8 d         ± 9,6 %           10682         AAA         IEEE 602.11ax (20MHz, MCS1, 00pc duly cycle)         WLAN         6,2 d         ± 9,6 %           10684         AAA         IEEE 602.11ax (20MHz, MCS1, 00pc duly cycle)         WLAN						
10071         AAA         IEEE 802.118x (20MHz, MCS1, 90pc duly cycle)         WLAN         8,77         ± 9,6 %           10073         AAA         IEEE 802.118x (20MHz, MCS1, 90pc duly cycle)         WLAN         8,78         ± 9,6 %           10074         AAA         IEEE 802.118x (20MHz, MCS3, 90pc duly cycle)         WLAN         8,74         ± 9,6 %           10075         AAA         IEEE 802.118x (20MHz, MCS4, 90pc duly cycle)         WLAN         8,77         ± 9,6 %           10077         AAA         IEEE 802.118x (20MHz, MCS5, 90pc duly cycle)         WLAN         8,78         ± 9,6 %           10777         AAA         IEEE 802.118x (20MHz, MCS6, 90pc duly cycle)         WLAN         8,78         ± 9,6 %           10787         AAA         IEEE 802.118x (20MHz, MCS9, 90pc duly cycle)         WLAN         8,68         ± 9,6 %           10789         AAA         IEEE 802.118x (20MHz, MCS9, 90pc duly cycle)         WLAN         8,68         ± 9,6 %           10890         AAA         IEEE 802.118x (20MHz, MCS9, 90pc duly cycle)         WLAN         8,63         ± 9,6 %           10883         AAA         IEEE 802.118x (20MHz, MCS9, 90pc duly cycle)         WLAN         8,23         ± 9,6 %           10884         AAA         IEEE 802.118x (20MHz, MCS9, 90pc duly c						
10072         AAA         IEEE 802:118x (20MHz, MCS3, 90pc duty cycle)         WLAN         8,67         ± 9,6 %           10074         AAA         IEEE 802:118x (20MHz, MCS3, 90pc duty cycle)         WLAN         8,74         ± 9,6 %           10075         AAA         IEEE 802:118x (20MHz, MCS3, 90pc duty cycle)         WLAN         8,77         ± 9,6 %           10076         AAA         IEEE 802:118x (20MHz, MCS5, 80pc duty cycle)         WLAN         8,77         ± 9,6 %           10877         AAA         IEEE 802:118x (20MHz, MCS5, 80pc duty cycle)         WLAN         8,73         ± 9,6 %           10878         AAA         IEEE 802:118x (20MHz, MCS5, 80pc duty cycle)         WLAN         8,73         ± 9,6 %           10879         AAA         IEEE 802:118x (20MHz, MCS9, 80pc duty cycle)         WLAN         8,64         ± 9,6 %           10861         AAA         IEEE 802:118x (20MHz, MCS9, 90pc duty cycle)         WLAN         8,82         ± 9,6 %           10882         AAA         IEEE 802:118x (20MHz, MCS9, 90pc duty cycle)         WLAN         8,82         ± 9,6 %           10884         AAA         IEEE 802:118x (20MHz, MCS9, 90pc duty cycle)         WLAN         8,24         ± 9,6 %           10886         AAA         IEEE 802:118x (20MHz, MCS9, 90pc duty c						
10673         AAA         IEEE 802:11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.78         ± 9.8 %           10675         AAA         IEEE 802:11ax (20MHz, MCS4, 90pc duty cycle)         WLAN         8.77         ± 9.8 %           10675         AAA         IEEE 802:11ax (20MHz, MCS5, 90pc duty cycle)         WLAN         8.77         ± 9.8 %           10677         AAA         IEEE 802:11ax (20MHz, MCS5, 90pc duty cycle)         WLAN         8.73         ± 9.6 %           10678         AAA         IEEE 802:11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.69         ± 9.6 %           10780         AAA         IEEE 802:11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.69         ± 9.6 %           10801         AAA         IEEE 802:11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         6.62         ± 9.6 %           10802         AAA         IEEE 802:11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         6.42         ± 9.6 %           10804         AAA         IEEE 802:11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         6.42         ± 9.6 %           10804         AAA         IEEE 802:11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         6.26         ± 9.6 %           10804         AAA         IEEE 802:11ax (20MHz, MCS3, 90pc duty c						
10674         AAA         IEEE 802.11ax (20MHz, MCS4.90pc duty cycle)         WLAN         8.74         ± 9.6 %.           107675         AAA         IEEE 802.11ax (20MHz, MCS4.90pc duty cycle)         WLAN         8.77         ± 9.6 %.           10767         AAA         IEEE 802.11ax (20MHz, MCS6.90pc duty cycle)         WLAN         8.78         ± 9.6 %.           1077         AAA         IEEE 802.11ax (20MHz, MCS6.90pc duty cycle)         WLAN         8.78         ± 9.6 %.           10800         AAA         IEEE 802.11ax (20MHz, MCS6.90pc duty cycle)         WLAN         8.68         ± 9.6 %.           10801         AAA         IEEE 802.11ax (20MHz, MCS6.90pc duty cycle)         WLAN         8.68         ± 9.6 %.           10824         AAA         IEEE 802.11ax (20MHz, MCS6.90pc duty cycle)         WLAN         8.42         ± 9.6 %.           10845         AAA         IEEE 802.11ax (20MHz, MCS3.90pc duty cycle)         WLAN         8.42         ± 9.6 %.           10856         AAA         IEEE 802.11ax (20MHz, MCS3.90pc duty cycle)         WLAN         8.42         ± 9.6 %.           10864         AAA         IEEE 802.11ax (20MHz, MCS3.90pc duty cycle)         WLAN         8.25         ± 9.6 %.           10864         AAA         IEEE 802.11ax (20MHz, MCS3.90pc duty cy						
10075         AAA         IEEE 802.11ax (20MHz, MCS54.90pc duty cycle)         WIAN         8.70         ± 9.6 %.           10076         AAA         IEEE 802.11ax (20MHz, MCS54.90pc duty cycle)         WIAN         8.73         ± 9.6 %.           10077         AAA         IEEE 802.11ax (20MHz, MCS54.90pc duty cycle)         WIAN         8.78         ± 9.6 %.           10078         AAA         IEEE 802.11ax (20MHz, MCS54.90pc duty cycle)         WIAN         8.78         ± 9.6 %.           10861         AAA         IEEE 802.11ax (20MHz, MCS63.90pc duty cycle)         WIAN         8.60         ± 9.6 %.           10861         AAA         IEEE 802.11ax (20MHz, MCS63.90pc duty cycle)         WIAN         8.63         ± 9.6 %.           10862         AAA         IEEE 802.11ax (20MHz, MCS1.90pc duty cycle)         WIAN         8.42         ± 9.6 %.           10863         AAA         IEEE 802.11ax (20MHz, MCS3.99pc duty cycle)         WIAN         8.23         ± 9.6 %.           10864         AAA         IEEE 802.11ax (20MHz, MCS3.99pc duty cycle)         WIAN         8.23         ± 9.6 %.           10864         AAA         IEEE 802.11ax (20MHz, MCS3.99pc duty cycle)         WIAN         8.25         ± 9.6 %.           10869         AAA         IEEE 802.11ax (20MHz, MCS3.99pc d						
10076         AAA         IEEE 802.11ax (20MHz, MCS6.90pc duty cycle)         WLAN         8.77         ± 9.6 %.           10077         AAA         IEEE 802.11ax (20MHz, MCS6.90pc duty cycle)         WLAN         8.78         ± 9.6 %.           10679         AAA         IEEE 802.11ax (20MHz, MCS6.90pc duty cycle)         WLAN         8.89         ± 9.6 %.           10860         AAA         IEEE 802.11ax (20MHz, MCS6.90pc duty cycle)         WLAN         8.80         ± 9.6 %.           10860         AAA         IEEE 802.11ax (20MHz, MCS6.190pc duty cycle)         WLAN         8.62         ± 9.6 %.           10862         AAA         IEEE 802.11ax (20MHz, MCS6.90pc duty cycle)         WLAN         8.62         ± 9.6 %.           10864         AAA         IEEE 802.11ax (20MHz, MCS3.90pc duty cycle)         WLAN         8.24         ± 9.6 %.           10864         AAA         IEEE 802.11ax (20MHz, MCS3.90pc duty cycle)         WLAN         8.23         ± 9.6 %.           10864         AAA         IEEE 802.11ax (20MHz, MCS3.90pc duty cycle)         WLAN         8.26         ± 9.6 %.           10864         AAA         IEEE 802.11ax (20MHz, MCS3.90pc duty cycle)         WLAN         8.25         ± 9.6 %.           10864         AAA         IEEE 802.11ax (20MHz, MCS3.90pc duty c						
10077         AAA         IEEE 802.11ax (20MHz, MCSR.90pc duty cycle)         WLAN         8.73         ± 5.6 %.           10878         AAA         IEEE 802.11ax (20MHz, MCSR.90pc duty cycle)         WLAN         8.89         ± 9.6 %.           10870         AAA         IEEE 802.11ax (20MHz, MCSR.90pc duty cycle)         WLAN         8.80         ± 9.6 %.           10881         AAA         IEEE 802.11ax (20MHz, MCS1.90pc duty cycle)         WLAN         8.80         ± 9.6 %.           10882         AAA         IEEE 802.11ax (20MHz, MCS1.90pc duty cycle)         WLAN         8.42         ± 9.6 %.           10883         AAA         IEEE 802.11ax (20MHz, MCS1.90pc duty cycle)         WLAN         8.42         ± 9.6 %.           10884         AAA         IEEE 802.11ax (20MHz, MCS3.90pc duty cycle)         WLAN         8.42         ± 9.6 %.           10885         AAA         IEEE 802.11ax (20MHz, MCS3.90pc duty cycle)         WLAN         8.23         ± 9.6 %.           10886         AAA         IEEE 802.11ax (20MHz, MCS3.90pc duty cycle)         WLAN         8.25         ± 9.6 %.           10887         AAA         IEEE 802.11ax (20MHz, MCS5.90pc duty cycle)         WLAN         8.25         ± 9.6 %.           10889         AAA         IEEE 802.11ax (20MHz, MCS5.1, 90pc duty						
10678         AAA         IEEE 802.11ax (20MHz, MCSR, 90pc duty cycle)         WLAN         8.78         ± 9.6 %           10881         AAA         IEEE 802.11ax (20MHz, MCSR, 90pc duty cycle)         WLAN         8.89         ± 9.6 %           10881         AAA         IEEE 802.11ax (20MHz, MCSR, 90pc duty cycle)         WLAN         8.62         ± 9.6 %           10882         AAA         IEEE 802.11ax (20MHz, MCSR, 99pc duty cycle)         WLAN         8.62         ± 9.6 %           10883         AAA         IEEE 802.11ax (20MHz, MCSR, 99pc duty cycle)         WLAN         8.42         ± 9.6 %           10884         AAA         IEEE 802.11ax (20MHz, MCSR, 99pc duty cycle)         WLAN         8.28         ± 9.6 %           10885         AAA         IEEE 802.11ax (20MHz, MCSR, 99pc duty cycle)         WLAN         8.28         ± 9.6 %           10886         AAA         IEEE 802.11ax (20MHz, MCSR, 99pc duty cycle)         WLAN         8.45         ± 9.6 %           10888         AAA         IEEE 802.11ax (20MHz, MCSR, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10889         AAA         IEEE 802.11ax (20MHz, MCSR, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10890         AAA         IEEE 802.11ax (20MHz, MCSR, 99pc duty c						
10679         AAA         IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle)         WLAN         8.89         ± 9.6 %           10680         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.2         ± 9.6 %           10681         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.2         ± 9.6 %           10682         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.22         ± 9.6 %           10683         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.22         ± 9.6 %           10685         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.22         ± 9.6 %           10686         AAA         IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)         WLAN         8.23         ± 9.6 %           10687         AAA         IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10688         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10689         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10691         AAA         IEEE 802.11ax (20MHz, MCS9, 90pc duty cyc						
10680         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.80         ± 9.6 %           10681         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.83         ± 9.6 %           10682         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.42         ± 9.6 %           10684         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.42         ± 9.6 %           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.28         ± 9.6 %           10686         AAA         IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)         WLAN         8.45         ± 9.6 %           10688         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10689         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10692         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10692         AAA         IEEE 802.11ax (20MHz, MCS61, 90pc duty cycle)         WLAN         8.29         ± 9.6 %           10694         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty						
10881         AAA         IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)         WLAN         8.62         ± 9.6 %           10882         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.42         ± 9.6 %           10883         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.42         ± 9.6 %           10883         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.26         ± 9.6 %           10883         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.28         ± 9.6 %           10887         AAA         IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)         WLAN         8.42         ± 9.6 %           10889         AAA         IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)         WLAN         8.22         ± 9.6 %           10891         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.22         ± 9.6 %           10892         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10893         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.25         ± 9.6 %           10894         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty					***	
10882         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.43         ± 9.6 %           10883         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.26         ± 9.6 %           10884         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.33         ± 9.6 %           10886         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.28         ± 9.6 %           10887         AAA         IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)         WLAN         8.24         ± 9.6 %           10888         AAA         IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10890         AAA         IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10891         AAA         IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10892         AAA         IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10893         AAA         IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)         WLAN         8.71         ± 9.6 %           10893         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty c			IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle)			
1083         AAA         IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle)         WLAN         8.42         ± 9.6 %           1084         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.26         ± 9.6 %           1085         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.28         ± 9.6 %           10868         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.28         ± 9.6 %           10687         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10689         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10691         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10692         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10693         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.26         ± 9.6 %           10694         AAA         IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)         WLAN         8.75         ± 9.6 %           10696         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycl						
10684         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.26         ± 9.6 %           10685         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.33         ± 9.6 %           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.44         ± 9.6 %           10687         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.45         ± 9.6 %           10688         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10690         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10691         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.25         ± 9.6 %           10692         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.25         ± 9.6 %           10693         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.27         ± 9.6 %           10695         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.78         ± 9.6 %           10696         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty c	·					
10685         AAA         IEEE 802.11ax (20MHz, MCS2, 99p duty cycle)         WLAN         8.33         8.96 %           10686         AAA         IEEE 802.11ax (20MHz, MCS3, 99p duty cycle)         WLAN         8.42 ± 9.6 %           10686         AAA         IEEE 802.11ax (20MHz, MCS4, 99p duty cycle)         WLAN         8.42 ± 9.6 %           10688         AAA         IEEE 802.11ax (20MHz, MCS4, 99p duty cycle)         WLAN         8.29 ± 9.6 %           10689         AAA         IEEE 802.11ax (20MHz, MCS5, 99p duty cycle)         WLAN         8.25 ± 9.6 %           10690         AAA         IEEE 802.11ax (20MHz, MCS6, 99p duty cycle)         WLAN         8.25 ± 9.6 %           10691         AAA         IEEE 802.11ax (20MHz, MCS10, 99p duty cycle)         WLAN         8.25 ± 9.6 %           10693         AAA         IEEE 802.11ax (20MHz, MCS10, 99p duty cycle)         WLAN         8.25 ± 9.6 %           10694         AAA         IEEE 802.11ax (20MHz, MCS2, 90p duty cycle)         WLAN         8.7 ± 9.6 %           10695         AAA         IEEE 802.11ax (20MHz, MCS3, 90p duty cycle)         WLAN         8.7 ± 9.6 %           10698         AAA         IEEE 802.11ax (20MHz, MCS3, 90p duty cycle)         WLAN         8.6 ± 9.6 %           10700         AAA         IEEE 802.11ax (20MHz, MCS3,				· · · · · · · · · · · · · · · · · · ·		
10886         AAA         IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)         WLAN         8.28         ± 9.6 %           10687         AAA         IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10688         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10690         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10691         AAA         IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10692         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10693         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.27         ± 9.6 %           10694         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.7 ± 9.6 %           10695         AAA         IEEE 802.11ax (20MHz, MCS2, 90pc duty cycle)         WLAN         8.7 ± 9.6 %           10696         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.6 ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WLAN         8.6 ± 9.6						
10687         AAA         IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)         WLAN         8.45         ± 9.6 %           10688         AAA         IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10689         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10691         AAA         IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10692         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10693         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.57         ± 9.6 %           10694         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.7 ± 9.6 %           10696         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.7 ± 9.6 %           10697         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.61 ± 9.6 %           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.61 ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.62 ± 9.6 % <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td>	,					
10688         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WILAN         8.29         ± 9.6 %           10689         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WILAN         8.25         ± 9.6 %           10690         AAA         IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)         WILAN         8.29         ± 9.6 %           10691         AAA         IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)         WILAN         8.25         ± 9.6 %           10693         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WILAN         8.25         ± 9.6 %           10694         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WILAN         8.78         ± 9.6 %           10695         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WILAN         8.78         ± 9.6 %           10696         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WILAN         8.78         ± 9.6 %           10697         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WILAN         8.78         ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WILAN         8.73         ± 9.6 %           10701         AAA         IEEE 802.11ax (40MHz, MCS5, 9						
10689         AAA         IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)         WLAN         8.55         ± 9.6 %           10690         AAA         IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10691         AAA         IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10692         AAA         IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10694         AAA         IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)         WLAN         8.27         ± 9.6 %           10696         AAA         IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle)         WLAN         8.78         ± 9.6 %           10696         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.61         ± 9.6 %           10697         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.61         ± 9.6 %           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.81         ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WLAN         8.61         ± 9.6 %           10701         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty c						
10690         AAA         IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10691         AAA         IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10692         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10693         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10694         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.78         ± 9.6 %           10696         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.78         ± 9.6 %           10697         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.61         ± 9.6 %           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10701         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10704         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty c			IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)			
10691         AAA         IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10692         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10694         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10695         AAA         IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)         WLAN         8.77         ± 9.6 %           10696         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.78         ± 9.6 %           10697         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.61         ± 9.6 %           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WLAN         8.73         ± 9.6 %           10701         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10702         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.60         ± 9.6 %           10704         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty c						
10692         AAA         IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10693         AAA         IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10695         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.57         ± 9.6 %           10696         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.78         ± 9.6 %           10697         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.61         ± 9.6 %           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.81         ± 9.6 %           10699         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10701         AAA         IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10702         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10704         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty						
10693         AAA         IEEE 802.11ax (20MHz, MCS10, 99pc duty cycle)         WLAN         8.25         ± 9.6 %           10694         AAA         IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)         WLAN         8.77         ± 9.6 %           10695         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.73         ± 9.6 %           10696         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.61         ± 9.6 %           10697         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.61         ± 9.6 %           10698         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.73         ± 9.6 %           10701         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.62         ± 9.6 %           10702         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.62         ± 9.6 %           10704         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.68         ± 9.6 %           10705         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty						
10694         AAA         IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle)         WLAN         8.57         ± 9.6 %           10696         AAA         IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle)         WLAN         8.78         ± 9.6 %           10697         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.61         ± 9.6 %           10698         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.81         ± 9.6 %           10699         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10701         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10702         AAA         IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10704         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.62         ± 9.6 %           10705         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10706         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty						
10695         AAA         IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle)         WLAN         8.78         ± 9.6 %           10696         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.91         ± 9.6 %           10697         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.81         ± 9.6 %           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WLAN         8.73         ± 9.6 %           10701         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.76         ± 9.6 %           10701         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.76         ± 9.6 %           10702         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10703         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10705         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10708         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty c						
10696         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.91         ± 9.6 %           10697         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.61         ± 9.6 %           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.89         ± 9.6 %           10699         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.73         ± 9.6 %           10701         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10702         AAA         IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)         WLAN         8.62         ± 9.6 %           10703         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10704         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10706         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10707         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty c					******	
10697         AAA         IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)         WLAN         8.61         ± 9.6 %           10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.73         ± 9.6 %           10701         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10702         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.62         ± 9.6 %           10703         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.62         ± 9.6 %           10704         AAA         IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10707         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.65         ± 9.6 %           10708         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.33         ± 9.6 %           10710         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty	<u> </u>					
10698         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.89         ± 9.6 %           10699         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)         WLAN         8.73         ± 9.6 %           10701         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.73         ± 9.6 %           10702         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10704         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10705         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10706         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10707         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.32         ± 9.6 %           10708         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.33         ± 9.6 %           10710         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty c						
10699         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10700         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.73         ± 9.6 %           10701         AAA         IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)         WLAN         8.86         ± 9.6 %           10702         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10703         AAA         IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10704         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10705         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10706         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.32         ± 9.6 %           10707         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.32         ± 9.6 %           10708         AAA         IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)         WLAN         8.33         ± 9.6 %           10711         AAA         IEEE 802.11ax (40MHz, MCS4, 90pc duty c	\$					
10700       AAA       IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)       WLAN       8.73       ± 9.6 %         10701       AAA       IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)       WLAN       8.86       ± 9.6 %         10702       AAA       IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)       WLAN       8.70       ± 9.6 %         10703       AAA       IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)       WLAN       8.82       ± 9.6 %         10704       AAA       IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)       WLAN       8.66       ± 9.6 %         10705       AAA       IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)       WLAN       8.66       ± 9.6 %         10706       AAA       IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)       WLAN       8.66       ± 9.6 %         10707       AAA       IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)       WLAN       8.32       ± 9.6 %         10708       AAA       IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)       WLAN       8.33       ± 9.6 %         10710       AAA       IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)       WLAN       8.33       ± 9.6 %         10711       AAA       IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)       WLAN       8.33       ± 9.6 %         10712						
10701       AAA       IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)       WLAN       8.86       ± 9.6 %         10702       AAA       IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)       WLAN       8.70       ± 9.6 %         10703       AAA       IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)       WLAN       8.82       ± 9.6 %         10704       AAA       IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)       WLAN       8.66       ± 9.6 %         10705       AAA       IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)       WLAN       8.66       ± 9.6 %         10706       AAA       IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)       WLAN       8.66       ± 9.6 %         10707       AAA       IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)       WLAN       8.32       ± 9.6 %         10708       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10709       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10710       AAA       IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10711       AAA       IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10713		· · · · · · · · · · · · · · · · · · ·				
10702         AAA         IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10703         AAA         IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)         WLAN         8.82         ± 9.6 %           10704         AAA         IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)         WLAN         8.56         ± 9.6 %           10705         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10706         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.66         ± 9.6 %           10707         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.32         ± 9.6 %           10708         AAA         IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)         WLAN         8.33         ± 9.6 %           10710         AAA         IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)         WLAN         8.39         ± 9.6 %           10711         AAA         IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)         WLAN         8.39         ± 9.6 %           10712         AAA         IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)         WLAN         8.31         ± 9.6 %           10714         AAA         IEEE 802.11ax (40MHz, MCS7, 99pc duty c						
10703       AAA       IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)       WLAN       8.82       ± 9.6 %         10704       AAA       IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)       WLAN       8.56       ± 9.6 %         10705       AAA       IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)       WLAN       8.69       ± 9.6 %         10706       AAA       IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)       WLAN       8.66       ± 9.6 %         10707       AAA       IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)       WLAN       8.32       ± 9.6 %         10708       AAA       IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10709       AAA       IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10710       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.39       ± 9.6 %         10711       AAA       IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10712       AAA       IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10713       AAA       IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)       WLAN       8.45       ± 9.6 %         10714					1	
10704       AAA       IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)       WLAN       8.56       ± 9.6 %         10705       AAA       IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)       WLAN       8.69       ± 9.6 %         10706       AAA       IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)       WLAN       8.66       ± 9.6 %         10707       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.32       ± 9.6 %         10708       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10709       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10709       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10710       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.39       ± 9.6 %         10711       AAA       IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10712       AAA       IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10714       AAA       IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)       WLAN       8.45       ± 9.6 %         10715						
10705       AAA       IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)       WLAN       8.69       ± 9.6 %         10706       AAA       IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)       WLAN       8.66       ± 9.6 %         10707       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.32       ± 9.6 %         10708       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.32       ± 9.6 %         10709       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10710       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10711       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.39       ± 9.6 %         10712       AAA       IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10713       AAA       IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10714       AAA       IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)       WLAN       8.26       ± 9.6 %         10716       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.45       ± 9.6 %         10716						
10706       AAA       IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)       WLAN       8.66       ± 9.6 %         10707       AAA       IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)       WLAN       8.32       ± 9.6 %         10708       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.32       ± 9.6 %         10709       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10710       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10711       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10712       AAA       IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10712       AAA       IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10713       AAA       IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10714       AAA       IEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)       WLAN       8.45       ± 9.6 %         10715       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.45       ± 9.6 %         10716						
10707       AAA       IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)       WLAN       8.32       ± 9.6 %         10708       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.55       ± 9.6 %         10709       AAA       IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10710       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10711       AAA       IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)       WLAN       8.39       ± 9.6 %         10712       AAA       IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10713       AAA       IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)       WLAN       8.67       ± 9.6 %         10714       AAA       IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10715       AAA       IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)       WLAN       8.45       ± 9.6 %         10716       AAA       IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)       WLAN       8.48       ± 9.6 %         10718       AAA       IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)       WLAN       8.24       ± 9.6 %         10719	10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6 %
10708       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.55       ± 9.6 %         10709       AAA       IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10710       AAA       IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10711       AAA       IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)       WLAN       8.39       ± 9.6 %         10712       AAA       IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10713       AAA       IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)       WLAN       8.33       ± 9.6 %         10714       AAA       IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)       WLAN       8.26       ± 9.6 %         10715       AAA       IEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)       WLAN       8.45       ± 9.6 %         10716       AAA       IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)       WLAN       8.45       ± 9.6 %         10717       AAA       IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)       WLAN       8.48       ± 9.6 %         10718       AAA       IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)       WLAN       8.81       ± 9.6 %         10720		·				
10709         AAA         IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)         WLAN         8.33         ± 9.6 %           10710         AAA         IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)         WLAN         8.29         ± 9.6 %           10711         AAA         IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)         WLAN         8.39         ± 9.6 %           10712         AAA         IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)         WLAN         8.33         ± 9.6 %           10713         AAA         IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)         WLAN         8.33         ± 9.6 %           10714         AAA         IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)         WLAN         8.33         ± 9.6 %           10715         AAA         IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)         WLAN         8.45         ± 9.6 %           10716         AAA         IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)         WLAN         8.45         ± 9.6 %           10717         AAA         IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)         WLAN         8.48         ± 9.6 %           10718         AAA         IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)         WLAN         8.24         ± 9.6 %           10720         AAA         IEEE 802.11ax (80MHz, MCS2, 90pc duty c		····				
10710AAAIEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)WLAN8.29± 9.6 %10711AAAIEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)WLAN8.39± 9.6 %10712AAAIEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)WLAN8.67± 9.6 %10713AAAIEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)WLAN8.33± 9.6 %10714AAAIEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)WLAN8.33± 9.6 %10715AAAIEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)WLAN8.26± 9.6 %10716AAAIEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)WLAN8.45± 9.6 %10717AAAIEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)WLAN8.48± 9.6 %10718AAAIEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)WLAN8.48± 9.6 %10719AAAIEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)WLAN8.24± 9.6 %10720AAAIEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)WLAN8.81± 9.6 %10721AAAIEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)WLAN8.87± 9.6 %10722AAAIEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)WLAN8.76± 9.6 %10724AAAIEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)WLAN8.70± 9.6 %10724AAAIEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)WLAN8.70± 9.6 %10725AAAIEEE 802.11ax (80MHz, MCS6, 90pc duty cycle) <td< td=""><td></td><td>·</td><td></td><td></td><td>1</td><td></td></td<>		·			1	
10711AAAIEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)WLAN8.39± 9.6 %10712AAAIEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)WLAN8.67± 9.6 %10713AAAIEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)WLAN8.33± 9.6 %10714AAAIEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)WLAN8.26± 9.6 %10715AAAIEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)WLAN8.45± 9.6 %10716AAAIEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)WLAN8.45± 9.6 %10717AAAIEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)WLAN8.30± 9.6 %10718AAAIEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)WLAN8.48± 9.6 %10719AAAIEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)WLAN8.24± 9.6 %10719AAAIEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)WLAN8.81± 9.6 %10720AAAIEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)WLAN8.87± 9.6 %10721AAAIEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)WLAN8.76± 9.6 %10722AAAIEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)WLAN8.76± 9.6 %10723AAAIEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)WLAN8.70± 9.6 %10724AAAIEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)WLAN8.70± 9.6 %10725AAAIEEE 802.11ax (80MHz, MCS6, 90pc duty cycle) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
10712AAAIEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)WLAN8.67± 9.6 %10713AAAIEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)WLAN8.33± 9.6 %10714AAAIEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)WLAN8.26± 9.6 %10715AAAIEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)WLAN8.45± 9.6 %10716AAAIEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)WLAN8.45± 9.6 %10717AAAIEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)WLAN8.30± 9.6 %10717AAAIEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)WLAN8.48± 9.6 %10718AAAIEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)WLAN8.48± 9.6 %10719AAAIEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)WLAN8.24± 9.6 %10720AAAIEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)WLAN8.81± 9.6 %10721AAAIEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)WLAN8.76± 9.6 %10722AAAIEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)WLAN8.76± 9.6 %10723AAAIEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)WLAN8.70± 9.6 %10724AAAIEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)WLAN8.74± 9.6 %10724AAAIEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)WLAN8.74± 9.6 %10725AAAIEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)						
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10716         AAA         IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)         WLAN         8.30         ± 9.6 %           10717         AAA         IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)         WLAN         8.48         ± 9.6 %           10718         AAA         IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)         WLAN         8.24         ± 9.6 %           10719         AAA         IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)         WLAN         8.81         ± 9.6 %           10720         AAA         IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)         WLAN         8.87         ± 9.6 %           10720         AAA         IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)         WLAN         8.87         ± 9.6 %           10721         AAA         IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)         WLAN         8.76         ± 9.6 %           10722         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.76         ± 9.6 %           10723         AAA         IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.74         ± 9.6 %           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty						
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10718         AAA         IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)         WLAN         8.24         ± 9.6 %           10719         AAA         IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)         WLAN         8.81         ± 9.6 %           10720         AAA         IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)         WLAN         8.81         ± 9.6 %           10720         AAA         IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)         WLAN         8.87         ± 9.6 %           10721         AAA         IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)         WLAN         8.76         ± 9.6 %           10722         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.55         ± 9.6 %           10723         AAA         IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 %           10726         AAA         IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)         WLAN         8.72         ± 9.6 %		•				
10719         AAA         IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)         WLAN         8.81         ± 9.6 %           10720         AAA         IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)         WLAN         8.87         ± 9.6 %           10721         AAA         IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)         WLAN         8.76         ± 9.6 %           10722         AAA         IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)         WLAN         8.76         ± 9.6 %           10723         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10723         AAA         IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.90         ± 9.6 %           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 %           10726         AAA         IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)         WLAN         8.72         ± 9.6 %						
10720         AAA         IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)         WLAN         8.87         ± 9.6 %           10721         AAA         IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)         WLAN         8.76         ± 9.6 %           10722         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.55         ± 9.6 %           10723         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.90         ± 9.6 %           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 %           10726         AAA         IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)         WLAN         8.72         ± 9.6 %						
10721         AAA         IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)         WLAN         8.76         ± 9.6 %           10722         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.55         ± 9.6 %           10723         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.90         ± 9.6 %           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 %           10726         AAA         IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)         WLAN         8.72         ± 9.6 %						
10722         AAA         IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)         WLAN         8.55         ± 9.6 %           10723         AAA         IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)         WLAN         8.70         ± 9.6 %           10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.90         ± 9.6 %           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 %           10726         AAA         IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)         WLAN         8.72         ± 9.6 %		1				
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10724         AAA         IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)         WLAN         8.90         ± 9.6 %           10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 %           10726         AAA         IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)         WLAN         8.72         ± 9.6 %						
10725         AAA         IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)         WLAN         8.74         ± 9.6 %           10726         AAA         IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)         WLAN         8.72         ± 9.6 %		<u> </u>			£	
10726 AAA IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle) WLAN 8.72 ± 9.6 %						
10/2/ AAA   IEEE 802.11ax (80MHz, MCS8, 90pc duty cycle)   WLAN   8.66   ± 9.6 %						
	10/27	AAA	LEE 802.11ax (80MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6 %

#### EX3DV4- SN:7409

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10728	AAA	IEEE 802.11ax (80MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6 %
10729	AAA	IEEE 802.11ax (80MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6 %
10730	AAA	IEEE 802.11ax (80MHz, MCS11, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10731	AAA	IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6 %
10732	AAA	IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10733	AAA	IEEE 802.11ax (80MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6 %
10734	AAA	IEEE 802.11ax (80MHz, MCS3, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10735	AAA	IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9.6 %
10736	AAA	IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10737	AAA	IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6 %
10738	AAA	IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6 %
10739	AAA	IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle)	WLAN	8.29	±9.6 %
10740	AAA	IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6 %
10741	AAA	IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6 %
10742	AAA	IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6 %
10743	AAA	IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6 %
10744	AAA	IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6 %
10745	AAA	IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)	WLAN	8.93	±9.6 %
10746	AAA	IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9.6 %
10747	AAA	IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)	WLAN	9.04	±9.6 %
10748	AAA	IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)	WLAN	8.93	±9.6 %
10749	AAA	IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6 %
10750	AAA	IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6 %
10751	AAA	IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6 %
10752	AAA	IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6 %
10753	AAA	IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6 %
10754	AAA	IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.6 %
10755	AAA	IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6 %
10756	AAA	IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6 %
10757	AAA	IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)	WLAN	8.77	±9.6 %
10758	AAA	IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)	WLAN	8.69	±9.6 %
10759	AAA	IEEE 802.11ax (160MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6 %
10760	AAA	IEEE 802.11ax (160MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6 %
10761	AAA	IEEE 802.11ax (160MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6 %
10762	AAA	IEEE 802.11ax (160MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6 %
10763	AAA	IEEE 802.11ax (160MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6 %
10764	AAA	IEEE 802.11ax (160MHz, MCS9, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10765	AAA	IEEE 802.11ax (160MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6%
10766	AAA	IEEE 802.11ax (160MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6 %

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

### Calibration Laboratory of

Client

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

BC MRA



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

PC Test

Certificate No: EX3-7410\_Jul19

Accreditation No.: SCS 0108

## **CALIBRATION CERTIFICATE**

Object	EX3DV4 - SN:7410
Calibration procedure(s)	QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7 Calibration procedure for dosimetric E-field probes
Calibration date:	July 16, 2019
This calibration certificate doc The measurements and the ur	uments the traceability to national standards, which realize the physical units of measurements (SI). Incertainties 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	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	19-Dec-18 (No. DAE4-660_Dec18)	Dec-19
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec18)	Dec-19
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check; Oct-19

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	$\rightarrow - lb$
		ζ	-F-G-
Approved by:	Katja Pokovic	Technical Manager	V
			At 45
			Issued: July 16, 2019

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



S Schweizerischer Kalibrierdienst

- C Service suisse d'étalonnage
  - S 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
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 φ	φ rotation around probe axis
Polarization 9	$\vartheta$ 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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 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 E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is
  implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included
  in the stated uncertainty of ConvF.
- *DCPx,y,z*: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; 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).

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) <sup>2</sup> ) <sup>A</sup>	0.41	0.47	0.43	± 10.1 %
DCP (mV) <sup>B</sup>	95.0	98.5	98.3	

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

UID	Communication System Name		A dB	B dBõV	C	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> (k=2)
0	CW	X	0.00	0.00	1.00	0.00	143.3	± 3.3 %	± 4.7 %
		Y	0.00	0.00	1.00		136.3	1	
		Z	0.00	0.00	1.00		146.3	1	
10352-	Pulse Waveform (200Hz, 10%)	X	7.20	77.00	15.83	10.00	60.0	± 3.7 %	± 9,6 %
AAA		Y	15.00	89.41	20.45		60.0	1	
		Z	15.00	86.58	19,43		60.0	1	
10353-	Pulse Waveform (200Hz, 20%)	X	15.00	85.70	17.13	6.99	80.0	± 2.7 %	± 9.6 %
AAA		Y	15.00	94.26	21.82		80.0	1	
		Z	15.00	87.46	18.36		80.0	1	
10354-	Pulse Waveform (200Hz, 40%)	X	15.00	84.98	15.02	3.98	95.0	± 1.4 %	± 9.6 %
AAA		Y	15.00	105.63	25.93	1	95.0	1	
		Z	15.00	86.91	16.30		95.0		
10355-	Pulse Waveform (200Hz, 60%)	X	0.58	63.48	6.70	2.22	120.0	± 1.4 %	±9.6 %
AAA		Y	15.00	128.91	35.05		120.0		
		Z	1.67	69.27	9.07		120.0		
10387-	QPSK Waveform, 1 MHz	X	0.58	60.52	7.75	0.00	150.0	± 2.7 %	±9.6 %
AAA		Y	1.10	67.31	12.60		150.0		
		Z	0.65	60.71	8.42		150,0		
10388-	QPSK Waveform, 10 MHz	X	2.25	68.70	16.13	0.00	150.0	± 1.1 %	± 9.6 %
AAA		Y	2.69	71.62	17.77		150.0		
		Z	2.10	66.95	14.95		150.0		
10396-	64-QAM Waveform, 100 kHz	X	2.85	69.56	18.52	3.01	150.0	±0.7 %	± 9.6 %
AAA		Y	3.27	72.43	19.82		150.0		
		Z	2.96	69.30	18.13		150.0		
10399-	64-QAM Waveform, 40 MHz	X	3.51	67.28	15.99	0.00	150.0	± 2.2 %	± 9.6 %
AAA		Y	3.73	68.43	16.68		150.0		
		Z	3.45	66.65	15.48		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.86	65.74	15.76	0.00	150.0	± 4.2 %	± 9.6 %
AAA		Y	5.02	66.29	16.07		150.0		
		Z	4.91	65.47	15.50		150.0		

Note: For details on UID parameters see Appendix

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

<sup>&</sup>lt;sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6). <sup>B</sup> Numerical linearization parameter: uncertainty not required. <sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

#### **Sensor Model Parameters**

	C1 fF	C2 fF	a V <sup>-1</sup>	T1 ms.V <sup>-2</sup>	T2 ms.V⁻¹	T3 ms	T4 V <sup>-2</sup>	T5 V⁻1	Т6
Х	44.0	341.99	38.28	7.82	0.67	5.04	0.00	0.55	1.01
Y	48.3	362.63	36.17	12.06	0.12	5.10	0.87	0.38	1.01
Z	52.1	408.62	38.63	10.30	0.68	5.08	0.00	0.64	1.01

### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	0.7
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

					<b>J</b>			
f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	41.9	0.89	9.95	9.95	9.95	0.69	0.80	± 12.0 %
835	41.5	0.90	9.88	9.88	9.88	0.51	0.80	± 12.0 %
1750	40.1	1.37	8.46	8.46	8.46	0.33	0.86	± 12.0 %
1900	40.0	1.40	8.11	8.11	8.11	0.35	0.86	± 12.0 %
2300	39.5	1.67	7.91	7.91	7.91	0.34	0.90	± 12.0 %
2450	39.2	1.80	7.47	7.47	7.47	0.37	0.90	± 12.0 %
2600	39.0	1.96	7.33	7.33	7.33	0.39	0.90	± 12.0 %
5250	35.9	4.71	5.46	5.46	5.46	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.85	4.85	4.85	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.05	5.05	5.05	0.40	1.80	± 13.1 %

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

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

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

 $^{6}$  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.

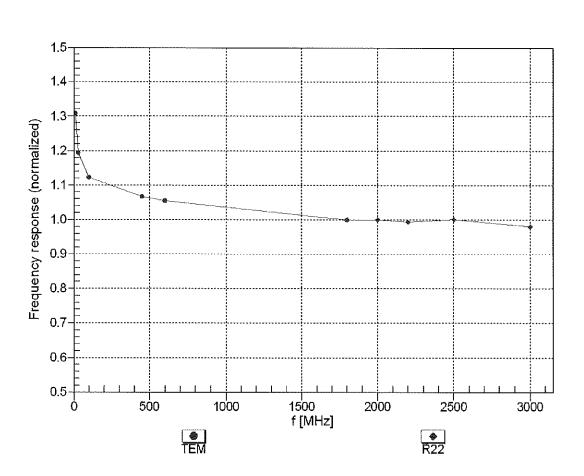
f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	55.5	0.96	10.01	10.01	10.01	0.48	0.84	± 12.0 %
835	55.2	0.97	9.79	9.79	9.79	0.48	0.80	± 12.0 %
1750	53.4	1.49	8.08	8.08	8.08	0.38	0.86	± 12.0 %
1900	53.3	1.52	7.78	7.78	7.78	0.42	0.86	± 12.0 %
2300	52.9	1.81	7.68	7.68	7.68	0.43	0.90	± 12.0 %
2450	52.7	1.95	7.44	7.44	7.44	0.33	0.90	± 12.0 %
2600	52.5	2.16	7.43	7.43	7.43	0.33	0.80	± 12.0 %
5250	48.9	5.36	4.95	4.95	4.95	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.42	4.42	4.42	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.60	4.60	4.60	0.50	1.90	± 13.1 %

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

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

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

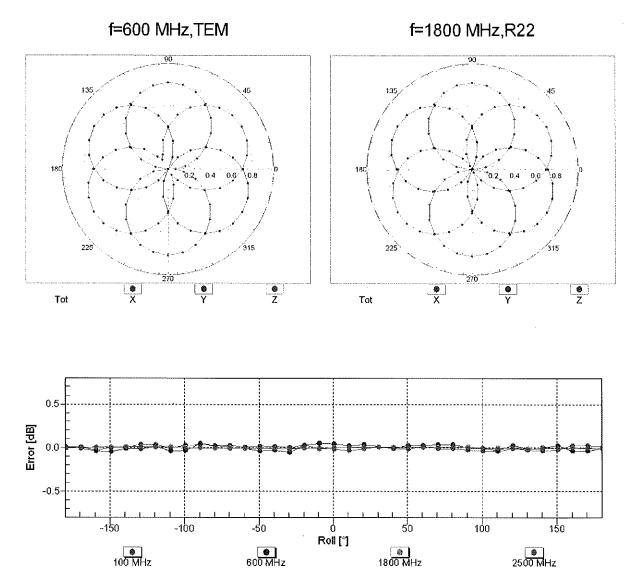
 $^{6}$  Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than  $\pm$  1% for frequencies below 3 GHz and below  $\pm$  2% for frequencies between 3-6 GHz at any distance larger than half the probe tip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



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

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

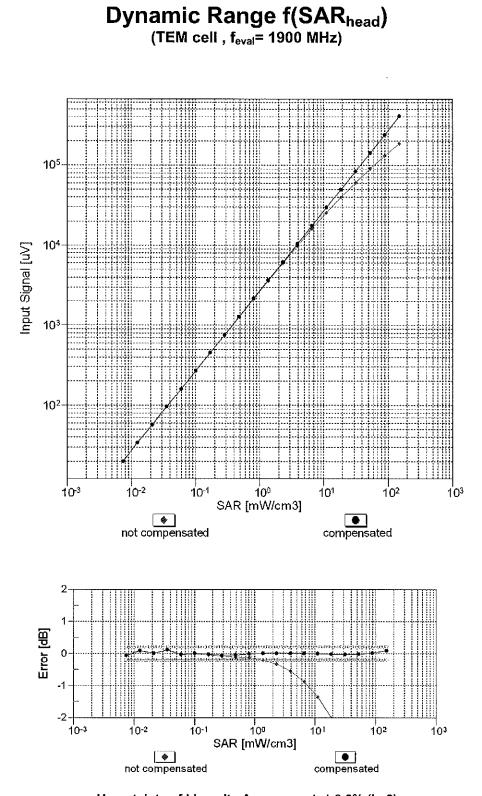
July 16, 2019



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

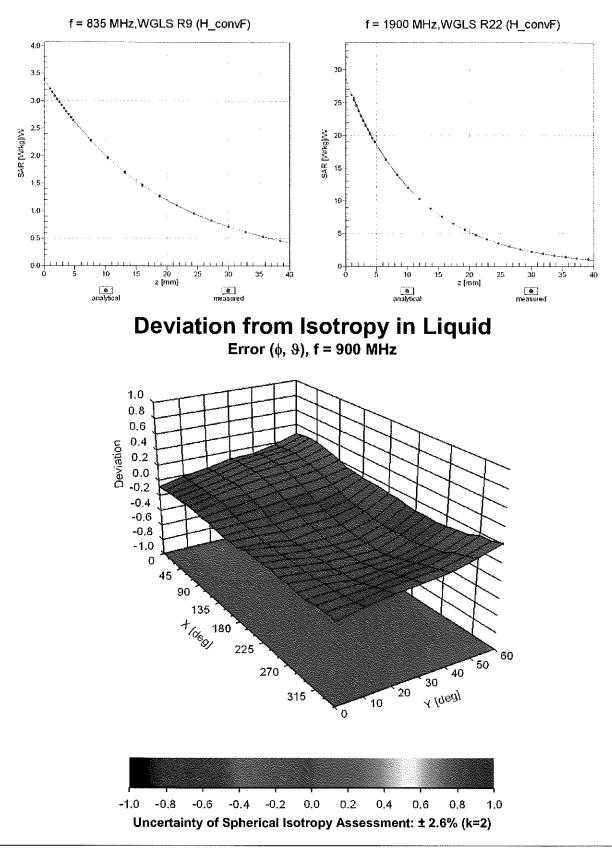
Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

July 16, 2019



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

#### Certificate No: EX3-7410\_Jul19



# **Conversion Factor Assessment**

### **Appendix: Modulation Calibration Parameters**

UID	Rev	Communication System Name	Group	PAR	Unc
		_		(dB)	(k=2)
0		CW	CW	0.00	±4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	±9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±96%
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	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	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 %
10072	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	CAB	UMTS-FDD (HSDPA)	WCDMA	3,98	±9.6 %
10098	CAB	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	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10102	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
1 10104					
10104 10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %

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10110         CAG         LTE-FDD         5.7.6         ±9.6 %           10111         CAG         LTE-FDD         6.7.4         ±9.6 %           10112         CAG         LTE-FDD         6.7.4         ±9.6 %           10112         CAG         LTE-FDD         6.7.4         ±9.6 %           10112         CAG         LTE-FDD         6.7.2         ±9.6 %           10114         CAC         LEEE 602.11n (HT Greenfield, 318 Mbps, BP-SK)         WLAN         8.4.6         ±9.6 %           10116         CAC         LEEE 602.11n (HT Greenfield, 61 Mbps, 16-GAM)         WLAN         8.4.6         ±9.6 %           10116         CAC         LEEE 602.11n (HT Moxed, 61 Mbps, 16-GAM)         WLAN         8.15         ±9.6 %           10116         CAC         LEEE 602.11n (HT Moxed, 61 Mbps, 16-GAM)         WLAN         8.15         ±9.6 %           10116         CAC         LEEE 602.11n (HT Moxed, 61 Mbps, 16-GAM)         UTE-FDD         6.63         ±9.6 %           10116         CAC         LEEE 602.11n (HT Moxed, 61 Mbps, 16-GAM)         LTE-FDD         6.73         ±9.6 %           10140         CAE         LTE-FDD (SC-FDM, 100% RB, 16 MHz, 46-GAM)         LTE-FDD         6.73         ±9.6 %           101	40100				-	
10111         CAG         LTE-FDD         6.49         19.6 %           10112         CAG         LTE-FDD (SC-FDMA, 100%, RB, 10 MHz, 64-OAM)         LTE-FDD         6.59         19.6 %           10113         CAG         LTE-FDD (SC-FDMA, 100%, RB, 10 MHz, 64-OAM)         LTE-FDD         6.50         19.6 %           10114         CAG         LTE-FDD (SC-FDMA, 100%, RB, 10 MHz, 64-OAM)         WLAN         8.46         19.6 %           10115         CAG         LEEE 602.11n (HT Greenfield, 31 Mbps, 64-OAM)         WLAN         8.46         19.6 %           10117         CAG         LEEE 602.11n (HT Mixed, 135 Mbps, 64-OAM)         WLAN         8.69         19.6 %           10118         CAG         LEEE 602.11n (HT Mixed, 135 Mbps, 64-OAM)         WLAN         8.69         19.6 %           10140         CAE         LTE-FDD (SC-FDMA, 100%, RB, 15 MHz, 16-OAM)         UTE-FDD         6.41         19.6 %           10141         CAE         LTE-FDD (SC-FDMA, 100%, RB, 13 MHz, 16-OAM)         LTE-FDD         5.73         19.6 %           10142         CAE         LTE-FDD (SC-FDMA, 100%, RB, 14 MHz, 16-OAM)         LTE-FDD         6.74         19.6 %           10142         CAE         LTE-FDD (SC-FDMA, 100%, RB, 14 MHz, 16-OAM)         LTE-FDD         6.72	10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6 %
19112         CAG         LTE-FDD         6.50         ±9.6 %           19113         CAG         LTE-FDD         6.52         ±9.6 %           19114         CAG         LEEE B02.1 fn (HT Greenfield, 13.6 Mbps, BPSK)         WLAN         8.16         ±9.6 %           19115         CAG         LEEE B02.1 fn (HT Greenfield, 13.6 Mbps, BP-CAM)         WLAN         8.16         ±9.6 %           19116         CAC         LEEE B02.1 fn (HT Meed, 81 Mbps, 16-CAM)         WLAN         8.16         ±9.6 %           19116         CAC         LEEE B02.1 fn (HT Meed, 81 Mbps, 16-CAM)         WLAN         8.13         ±9.6 %           19116         CAC         LEEE B02.1 fn (HT Meed, 81 Mbps, 16-CAM)         WLAN         8.13         ±9.6 %           19116         CAC         LEEE B02.1 fn (HT Meed, 81 Mbp, 16-CAM)         WLAN         8.13         ±9.6 %           19147         CAE         LTE-FDD (5C-FDMA, 100% RB, 15 MHz, 16-CAM)         LTE-FDD         6.53         ±9.6 %           19147         CAE         LTE-FDD (5C-FDMA, 100% RB, 14 MHz, 16-CAM)         LTE-FDD         6.57         ±9.6 %           19144         CAE         LTE-FDD (5C-FDMA, 100% RB, 14 MHz, 16-CAM)         LTE-FDD         6.62         ±9.6 %           19144         CAE			LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)		5.75	± 9.6 %
10113         CAG         LTE-FDD         672         1 = 6 + 70           10114         CAC         LEEE 602.11n (HT Greenfeld, 13 Mbps, 16-CAM)         WLAN         8.16         9.8 %,           10115         CAC         LEEE 602.11n (HT Greenfeld, 13 Mbps, 16-CAM)         WLAN         8.16         9.8 %,           10116         CAC         LEEE 602.11n (HT Mseed, 135 Mbps, 18-CAM)         WLAN         8.16         9.8 %,           10117         CAC         LEEE 602.11n (HT Mseed, 135 Mbps, 18-CAM)         WLAN         8.17         9.8 %,           10118         CAC         LEEE 602.11n (HT Mseed, 135 Mbps, 18-CAM)         WLAN         8.16         9.8 %,           10140         CAC         LEEE 602.11n (HT Mseed, 135 Mbps, 18-CAM)         WLAN         8.17         9.8 %,           10141         CAC         LEEF 602.57DM, 100%, RB, 15 MHz, 16-CAM)         LTE-FDD         6.53         19.6 %,           10142         CAE         LTE-FDD (SC-FDM, 100%, RB, 15 MHz, 16-CAM)         LTE-FDD         6.53         19.6 %,           10142         CAE         LTE-FDD (SC-FDM, 100%, RB, 14 MHz, 16-CAM)         LTE-FDD         6.36         19.6 %,           10142         CAE         LTE-FDD (SC-FDM, 400%, RB, 14 MHz, 16-CAM)         LTE-FDD         6.36         19.6 %		· • • • • • • • • • • • • • • • • • • •		LTE-FDD	6.44	± 9.6 %
10114         CAC         EEEE 802.11n (HT Greenfield, 31 Mpps, BPSK)         WLAN         8.40         19.85%           10115         CAC         EEEE 802.11n (HT Greenfield, 31 Mpps, BC-OAM)         WLAN         8.40         19.85%           10116         CAC         EEEE 802.11n (HT Greenfield, 135 Mbps, BC-OAM)         WLAN         8.07         2.96.5%           10116         CAC         EEEE 802.11n (HT Mixed, 81 Mbps, 16-OAM)         WLAN         8.13         2.96.5%           10116         CAC         EEEE 802.11n (HT Mixed, 81 Mbps, 16-OAM)         WLAN         8.13         2.96.5%           10140         CAC         EEEE 802.11n (HT Mixed, 81 Mbps, 16-OAM)         UTE+FDD         6.49         2.96.5%           10141         CAE         LTE+FDD (SC-FDMA, 100% RB, 3 MHz, 16-OAM)         UTE+FDD         6.57         3.96.5%           10142         CAE         LTE+FDD (SC-FDMA, 100% RB, 3 MHz, 16-OAM)         LTE+FDD         6.57         3.96.5%           10144         CAE         LTE+FDD (SC-FDMA, 100% RB, 3 MHz, 16-OAM)         LTE+FDD         6.65         3.96.5%           10145         CAF         LTE+FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM)         LTE+FDD (SC-FDMA, 50%         B.76         4.96.5%           10146         CAF         LTE+FDD (SC-FDMA, 50% RB, 20 MHz,			LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)		6.59	± 9.6 %
10116         CAC         LEEE 802.11n (HT Greenfield, 35 Mbps, 64-GAM)         WLAN         8.14         2.88 %           10117         CAC         LEEE 802.11n (HT Wared, 135 Mbps, 82-GAM)         WLAN         8.13         2.86 %           10118         CAC         LEEE 802.11n (HT Wared, 135 Mbps, 82-GAM)         WLAN         8.13         2.86 %           10119         CAC         LEEE 802.11n (HT Wared, 135 Mbps, 82-GAM)         WLAN         8.13         2.86 %           10140         CAC         LEEE 802.11n (HT Wared, 136 Mbps, 82-GAM)         WLAN         8.13         2.86 %           10141         CAC         LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-GAM)         UTE-FDD         6.33         2.86 %           10143         CAE         LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-GAM)         UTE-FDD         6.36         4.98 %           10144         CAE         LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 0FSK)         LTE-FDD         6.76         4.98 %         4.98 %           10144         CAE         LTE-FDD (SC-FDMA, 100% RB, 12 MHz, 16-GAM)         LTE-FDD         6.71         3.98 %         4.98 %           10145         CAE         LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-GAM)         LTE-FDD         6.72         4.86 %         5.96 %         5.96 %         5.96 %         5			LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10110         CAC         LEE 802.11n (HT Greenfield, 135 Mbps, 84-CAM)         WI AN         8.15         18.8 %           10117         CAC         LEEE 802.11n (HT Mixed, 81 Mbps, 46-CAM)         WI AN         8.59         13.8 %           10118         CAC         LEEE 802.11n (HT Mixed, 81 Mbps, 46-CAM)         WI AN         8.59         13.8 %           10140         CAE         LTE-FDD (SC-FDMA, 100% FB; 15 MHz, 18-CAM)         LTE-FDD (6.49         8.3 %           10141         CAE         LTE-FDD (SC-FDMA, 100% FB; 15 MHz, 18-CAM)         LTE-FDD (6.53         9.8 %           10142         CAE         LTE-FDD (SC-FDMA, 100% FB; 14 MHz, 18-CAM)         LTE-FDD (6.57         9.8 %           10144         CAE         LTE-FDD (SC-FDMA, 100% FB; 14 MHz, 18-CAM)         LTE-FDD (6.57         9.8 %           10145         CAF         LTE-FDD (SC-FDMA, 100% FB; 14 MHz, 18-CAM)         LTE-FDD (6.67         9.8 %           10147         CAF         LTE-FDD (SC-FDMA, 100% FB; 14 MHz, 18-CAM)         LTE-FDD (6.67         9.8 %           10147         CAF         LTE-FDD (SC-FDMA, 100% FB; 14 MHz, 18-CAM)         LTE-FDD (6.67         9.8 %           10147         CAF         LTE-FDD (SC-FDMA, 50% FB; 20 MHz, 18-CAM)         LTE-FDD (6.67         9.8 %           10160         CAE				WLAN	8.10	± 9.6 %
10112         CAC         IEEE 802.11n (HT Mixed, 13.5 MBps, 8F-SA)         WUAN         8.007         2.80 SK           10118         CAC         IEEE 802.11n (HT Mixed, 136 Mbps, 64-OAM)         WUAN         8.103         8.90 SK           10140         CAC         IEEE 802.11n (HT Mixed, 136 Mbps, 64-OAM)         ULAN         8.13 SK           10140         CAE         ITE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-OAM)         ITE-FDD 6.53         9.6 %           10141         CAE         ITE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-OAM)         ITE-FDD 6.53         9.6 %           10142         CAE         ITE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-OAM)         ITE-FDD 6.53         9.6 %           10144         CAE         ITE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-OAM)         ITE-FDD 6.65         9.6 %           10145         CAF         ITE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-OAM)         ITE-FDD 6.62         9.6 %           10147         CAF         ITE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM)         ITE-FDD 6.62         9.6 %           10147         CAF         ITE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM)         ITE-FDD 6.62         9.6 %           10147         CAF         ITE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM)         ITE-FDD 6.62         9.6 %           10147         CAF         ITE-FDD (SC-FDMA, 50% RB			IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10118         CAC         IEEE 802.11n (HT Mixed, 81 Mbps, 16-CAM)         WLAN         8.59         ± 9.6 %           10119         CAC         IEEE 802.11n (HT Mixed, 135 Mbps, 64-CAM)         LTE-FDD         6.40         ± 9.6 %           10141         CAE         LTE-FDD         (53C-FDM, 109% RB, 15 MHz, 16-CAM)         LTE-FDD         6.53         ± 9.6 %           10142         CAE         LTE-FDD         (53C-FDM, 109% RB, 3 MHz, 26-CAM)         LTE-FDD         6.53         ± 9.6 %           10143         CAE         LTE-FDD         (53C-FDM, 109% RB, 3 MHz, 26-CAM)         LTE-FDD         6.65         ± 9.6 %           10144         CAE         LTE-FDD         (53C-FDM, 109% RB, 14 MHz, 0FSA)         LTE-FDD         6.66         ± 9.6 %           10146         CAF         LTE-FDD         (53C-FDM, 109% RB, 14 MHz, 0FSA)         LTE-FDD         6.62         ± 9.6 %           10147         CAF         LTE-FDD         (53C-FDM, 50% RB, 20 MHz, 0FAAM)         LTE-FDD         6.62         ± 9.6 %           10150         CAG         LTE-FDD         (53C-FDM, 50% RB, 20 MHz, 0FAAM)         LTE-FDD         6.62         ± 9.6 %           10151         CAG         LTE-FDD (SC-FDM, 50% RB, 20 MHz, 0FAAM)         LTE-FDD         9.62         ± 9.6 %	a second s		IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10118         CAC         IEEE 802.11n (HT Mixed, 313 Mbps, 46-CAM)         WLAN         8.59         ± 9.6 %           10119         CAC         IEEE 802.11n (HT Mixed, 313 Mbps, 46-CAM)         LTE-FDD         6.49         ± 9.6 %           10141         CAE         LTE-FDD         (5.57         ± 9.6 %           10142         CAE         LTE-FDD         (5.57         ± 9.6 %           10142         CAE         LTE-FDD         (5.57         ± 9.6 %           10142         CAE         LTE-FDD         (5.57         ± 9.6 %           10144         CAE         LTE-FDD         (5.57         ± 9.6 %           10144         CAE         LTE-FDD         (5.57         ± 9.6 %           10146         CAF         LTE-FDD         (5.67 MA, 50% RB, 20 MHz, 0°SK)         LTE-FDD         6.41         ± 9.6 %           10147         CAF         LTE-FDD         (5.57 MA, 50% RB, 20 MHz, 0°SK)         LTE-FDD         6.42         ± 9.6 %           10149         CAE         LTE-FDD         (5.67 MA, 50% RB, 20 MHz, 0°SK)         LTE-FDD         6.42         ± 9.6 %           10147         CAE         LTE-FDD         (5.67 MA, 50% RB, 20 MHz, 0°SK)         LTE-FDD         6.42         ± 9.6 % <tr< td=""><td>and the second s</td><td></td><td>IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)</td><td>WLAN</td><td>8.07</td><td></td></tr<>	and the second s		IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	
10119         CAC         IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)         WLAN         8.13         ± 9.6 %.           10140         CAE         LTE-FDD         (6.57)         ± 9.6 %.           10141         CAE         LTE-FDD         (6.53)         ± 9.6 %.           10142         CAE         LTE-FDD         (6.53)         ± 9.6 %.           10143         CAE         LTE-FDD         (6.53)         ± 9.6 %.           10144         CAE         LTE-FDD         (6.56)         ± 9.6 %.           10144         CAE         LTE-FDD         (6.56)         ± 9.6 %.           10146         CAF         LTE-FDD         (6.57)         ± 9.6 %.           10146         CAF         LTE-FDD         (6.52)         ± 9.6 %.           10147         CAF         LTE-FDD         (6.52)         ± 9.6 %.           10149         CAE         LTE-FDD         (6.52)         ± 9.6 %.           10141         CAE         LTE-FDD         (6.22)         ± 9.6 %.           10151         CAG         LTE-FDD         (6.22)         ± 9.6 %.           10145         CAE         LTE-FDD         (6.72)         ± 9.6 %.           10152         CAG		CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)			
10140         CAE         LTE-FDD         66.49         ± 9 6 %           10141         CAE         LTE-FDD         65.73         ± 9 6 %           10142         CAE         LTE-FDD         65.73         ± 9 6 %           10143         CAE         LTE-FDD         65.73         ± 9 6 %           10144         CAE         LTE-FDD         65.73         ± 9 6 %           10144         CAE         LTE-FDD         65.75         ± 9 6 %           10144         CAE         LTE-FDD         65.75         ± 9 6 %           10146         CAF         LTE-FDD         65.75         ± 9 6 %           10146         CAF         LTE-FDD         10 7 %         R8.14 MHz, 64-QAM)         LTE-FDD         6.62         ± 9 6 %           10147         CAE         LTE-FDD         10 7 %         R8.14 MHz, 64-QAM)         LTE-FDD         6.62         ± 9 6 %           10150         CAG         LTE-FDD         10 7 %         R8.20 MHz, 64-QAM)         LTE-FDD         5.75         ± 9 6 %           10151         CAG         LTE-FDD         10 7 %         R8.20 MHz, 16-QAM)         LTE-FDD         5.75         ± 9 6 %           10152         CAG         LTE-FDD <td></td> <td>CAC</td> <td>IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)</td> <td></td> <td></td> <td></td>		CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)			
10141         CAE         LTE-FDD         65.3         = 59.6%           10142         CAE         LTE-FDD         65.3         = 59.6%           10143         CAE         LTE-FDD         65.3         = 59.6%           10144         CAE         LTE-FDD         65.3         # 96.%           10144         CAE         LTE-FDD         65.65         # 96.%           10144         CAE         LTE-FDD         65.76         ± 96.6%           10145         CAF         LTE-FDD         65.76         ± 96.6%           10146         CAF         LTE-FDD         65.72         ± 9.6 %           10147         CAF         LTE-FDD         (65.79M.A. 100% RB.1 4 MHz, 16-CAM)         LTE-FDD         6.42         ± 9.6 %           10149         CAE         LTE-FDD         (65.79M.A. 50% RB.2 0 MHz, 16-CAM)         LTE-FDD         6.42         ± 9.6 %           10151         CAG         LTE-FDD         (65.79M.A. 50% RB.2 0 MHz, 16-CAM)         LTE-FDD         5.72         ± 9.6 %           10152         CAG         LTE-FDD         (65.79M.A. 50% RB.2 0 MHz, 16-CAM)         LTE-FDD         5.73         ± 9.6 %           10156         CAG         LTE-FDD         (65.79M.A. 50% RB.2 0 M	10140	CAE				
10143         CAE         LITE-FDD         5.73         # 9.9 %           10143         CAE         LITE-FDD         65.73         # 9.9 %           10144         CAE         LITE-FDD         65.65         # 9.6 %           10145         CAF         LITE-FDD         65.76         # 9.6 %           10146         CAF         LITE-FDD         65.76         # 9.6 %           10146         CAF         LITE-FDD         65.77         # 9.6 %           10147         CAF         LITE-FDD         65.72         # 9.6 %           10149         CAE         LITE-FDD         65.72         # 9.6 %           10149         CAE         LITE-FDD         (65.70 M, 50% RB, 20 MHz, 04-CAM)         LITE-FDD         6.62         # 9.6 %           10151         CAG         LITE-FDD         (65.70 M, 50% RB, 20 MHz, 16-CAM)         LITE-FDD         9.02         # 9.6 %           10152         CAG         LITE-FDD         (65.70 M, 50% RB, 20 MHz, 16-CAM)         LITE-FDD         10.05 & 9.6 %           10153         CAG         LITE-FDD         (65.70 M, 50% RB, 10 MHz, 20 FSK)         LITE-FDD         5.79 & # 9.6 %           10155         CAG         LITE-FDD         (65.70 M, 50% RB, 5 MHz, 20 FSK)	10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)		· · · · · · · · · · · · · · · · · · ·	
10143         CAE         LTE-FDD         (56, 27)           10144         CAE         LTE-FDD         (56, 27)         (57)	10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)			
10144         CAE         LTE-FDD         6.65         9.9 %           10145         CAF         LTE-FDD         65.76         ± 9.6 %           10146         CAF         LTE-FDD         65.77         ± 9.6 %           10146         CAF         LTE-FDD         65.77         ± 9.6 %           10147         CAF         LTE-FDD         65.72         ± 9.6 %           10149         CAE         LTE-FDD         65.72         ± 9.6 %           10160         CAE         LTE-FDD         (65.70 MA, 50% RB, 20 MHz, 16-QAM)         LTE-FDD         6.60         ± 9.6 %           10151         CAG         LTE-TDD         (9.27 FDMA, 50% RB, 20 MHz, 40-QAM)         LTE-TDD         9.92         ± 9.6 %           10152         CAG         LTE-TDD         (9.5C-FDMA, 50% RB, 20 MHz, 16-QAM)         LTE-FDD         6.75         ± 9.6 %           10153         CAG         LTE-FDD         (5C-FDMA, 50% RB, 50 MHz, QPSK)         LTE-FDD         6.76         ± 9.6 %           10155         CAG         LTE-FDD         (5C-FDMA, 50% RB, 5 MHz, QPSK)         LTE-FDD         6.76         ± 9.6 %           10157         CAG         LTE-FDD         (5C-FDMA, 50% RB, 5 MHz, QPSK)         LTE-FDD         6.49 ± 9.6 %<	10143					
10146         CAF         LTE-FDD         (5.76         ±9.6 %           10146         CAF         LTE-FDD         (5.77         ±9.6 %           10147         CAF         LTE-FDD         (5.77         ±9.6 %           10149         CAF         LTE-FDD         (5.77         ±9.6 %           10149         CAF         LTE-FDD         (5.77         ±9.6 %           10151         CAG         LTE-TDD         (5.77         ±9.6 %           10152         CAG         LTE-TDD         (5.77         ±9.6 %           10153         CAG         LTE-TDD         (5.77         ±9.6 %           10154         CAG         LTE-TDD         (5.77         ±9.6 %           10155         CAG         LTE-TDD         (5.77         ±9.6 %           10156         CAG         LTE-FDD         (5.77         ±9.6 %           10156         CAG         LTE-FDD         (5.77         ±9.6 %           10157         CAG         LTE-FDD         (5.77         ±9.6 %           10157         CAG         LTE-FDD         (5.78         ±9.6 %           10156         CAG         LTE-FDD         (5.78         ±9.6 % <t< td=""><td>10144</td><td></td><td>LTE-FDD (SC-FDMA, 100% BB, 3 MHz, 64-OAM)</td><td></td><td></td><td></td></t<>	10144		LTE-FDD (SC-FDMA, 100% BB, 3 MHz, 64-OAM)			
10146         CAF         LTE-FDD         65.7         12.8         7           10147         CAF         LTE-FDD         65.7         12.8         6%           10149         CAE         LTE-FDD         65.7         19.6         6%         11.6         6%         19.6         6%         10.6         19.6         6%         11.6         6%         19.6         6%         11.6         6%         19.6         6%         11.6         6%         19.6         6%         11.6         6%         11.6         6%         11.6         6%         11.6         6%         11.6         6%         11.6         6%         11.6         6%         11.6         6%         11.6         6%         11.6	10145		LTE-EDD (SC-EDMA 100% BB 14 MHz OPSK)			
10147         CAF         LTE-FDD         SC-FDMA, 100% RB, 14 MHz, 16-GAM)         LTE-FDD         6.72         ±9.6 %           10149         CAE         LTE-FDD         (SC-FDMA, 50% RB, 20 MHz, 16-GAM)         LTE-FDD         6.42         ±9.6 %           10150         CAE         LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-GAM)         LTE-FDD         6.60         ±9.6 %           10151         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-GAM)         LTE-FDD         9.28         ±9.6 %           10152         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-GAM)         LTE-FDD         10.05         ±9.6 %           10154         CAG         LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-GAM)         LTE-FDD         5.76         ±9.6 %           10155         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 0PSK)         LTE-FDD         5.79         ±9.6 %           10157         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 0PSK)         LTE-FDD         6.43         ±9.6 %           10156         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 0-GAM)         LTE-FDD         6.42         ±9.6 %           10157         CAG         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 0-GAM)         LTE-FDD         6.43         ±9.6 %           10156         CAG         LTE-FDD (SC-FDMA, 50% R						
10149         CAE         LTE-FDD         (SC-FDMA, 50%, RB, 20 MHz, 16-QAM)         LTE-FDD         6.42         19.6 %           10150         CAE         LTE-FDD         (SC-FDMA, 50%, RB, 20 MHz, 04-QAM)         LTE-FDD         6.60         ±9.6 %           10151         CAG         LTE-TDD         (SC-FDMA, 50%, RB, 20 MHz, 16-QAM)         LTE-TDD         9.22         ±9.6 %           10152         CAG         LTE-TDD         (SC-FDMA, 50%, RB, 20 MHz, 16-QAM)         LTE-TDD         9.92         ±9.6 %           10154         CAG         LTE-TDD         (SC-FDMA, 50%, RB, 10 MHz, 04-QN)         LTE-FDD         6.75         ±9.6 %           10155         CAG         LTE-FDD         (SC-FDMA, 50%, RB, 5 MHz, 04-QAM)         LTE-FDD         6.43         ±9.6 %           10156         CAG         LTE-FDD         (SC-FDMA, 50%, RB, 5 MHz, 04-QAM)         LTE-FDD         6.62         ±9.6 %           10159         CAG         LTE-FDD         (SC-FDMA, 50%, RB, 15 MHz, 04-QAM)         LTE-FDD         6.56         ±9.6 %           10160         CAE         LTE-FDD         (SC-FDMA, 50%, RB, 15 MHz, 04-QAM)         LTE-FDD         6.56         ±9.6 %           10161         CAE         LTE-FDD         (SC-FDMA, 50%, RB, 16 MHz, 04-QAM)         LTE-FD						
10150         CAE         LTE-FDD         SC-FDMA, 50% RB, 20 MHz, GPSK)         LTE-FDD         6.66         ± 9.6 %           10151         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, GCAM)         LTE-TDD         9.28         ± 9.6 %           10152         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, GCAM)         LTE-TDD         10.05         ± 9.6 %           10153         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, G-GAM)         LTE-TDD         10.05         ± 9.6 %           10154         CAG         LTE-TDD (SC-FDMA, 50% RB, 50 MHz, G+GAM)         LTE-FDD         5.75         ± 9.6 %           10155         CAG         LTE-FDD (SC-FDMA, 50% RB, 50 MHz, G+GAM)         LTE-FDD         6.43         ± 9.6 %           10156         CAG         LTE-FDD (SC-FDMA, 50% RB, 50 MHz, G+GAM)         LTE-FDD         6.42         ± 9.6 %           10158         CAG         LTE-FDD (SC-FDMA, 50% RB, 50 MHz, G+GAM)         LTE-FDD         6.62         ± 9.6 %           10169         CAG         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, G+GAM)         LTE-FDD         6.82         ± 9.6 %           10161         CAE         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, G+GAM)         LTE-FDD         6.82         ± 9.6 %           10161         CAE         LTE-FDD (SC-FDMA, 50% RB, 14 MHz,			TE-EDD (SC-EDMA, 100% RB, 20 MHz, 16 OAM)			
10151       CAG       LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 60-AM)       LTE-TDD       9.28       ±0.6 %         10152       CAG       LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)       LTE-TDD       10.06       ±9.6 %         10154       CAG       LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)       LTE-FDD       5.75       ±9.6 %         10155       CAG       LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)       LTE-FDD       6.43       ±9.6 %         10156       CAG       LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)       LTE-FDD       6.49       ±9.6 %         10157       CAG       LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)       LTE-FDD       6.62       ±9.6 %         10158       CAG       LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)       LTE-FDD       6.62       ±9.6 %         10160       CAE       LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)       LTE-FDD       5.82       ±9.6 %         10161       CAE       LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)       LTE-FDD       6.43       ±9.6 %         10162       CAE       LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 0PSK)       LTE-FDD       6.48       ±9.6 %         10162       CAE       LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 0PSK)       LTE-FDD       6.48       ±9.6 %         10162       CAE			TE-EDD (SC-EDMA 50% PP 20 MUL- CA CAMA	1 · · · · · · · · · · · · · · · · · · ·		
10152         CAG         LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)         LTE-TDD         9.92         ± 9.6 %           10153         CAG         LTE-TDD (SC-FDMA, 50% RB, 10 MHz, Q-PSK)         LTE-FDD         5.7 ± 9.6 %           10155         CAG         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, Q-PSK)         LTE-FDD         5.7 ± 9.6 %           10156         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, Q-PSK)         LTE-FDD         5.7 ± 9.6 %           10157         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, Q-PSK)         LTE-FDD         5.6 ± 9.6 %           10158         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, Q-PSK)         LTE-FDD         6.62 ± 9.6 %           10158         CAG         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, Q-GAM)         LTE-FDD         6.62 ± 9.6 %           10160         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)         LTE-FDD         6.43 ± 9.6 %           10161         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)         LTE-FDD         6.48 ± 9.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, QPSK)         LTE-FDD         6.48 ± 9.6 %           10166         CAF         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, QPSK)         LTE-FDD         6.73 ± 9.6 %           10166         CAF         LTE-FDD (SC-FDMA, 17 KB, 20 MHz,			TE-TOD (00-10WA, 00% RD, 20 WH- 0000)			
10153         CAG         LTE-TDD (SC-FDMA, 50%, RB, 20 MHz, 64-0AM)         LTE-TDD         10.06         ±9.6 %           10154         CAG         LTE-FDD (SC-FDMA, 50%, RB, 10 MHz, QPSK)         LTE-FDD         6.75         ±9.6 %           10155         CAG         LTE-FDD (SC-FDMA, 50%, RB, 10 MHz, QPSK)         LTE-FDD         6.43         ±9.6 %           10156         CAG         LTE-FDD (SC-FDMA, 50%, RB, 10 MHz, 16-QAM)         LTE-FDD         6.43         ±9.6 %           10157         CAG         LTE-FDD (SC-FDMA, 50%, RB, 10 MHz, 64-QAM)         LTE-FDD         6.62         ±9.6 %           10160         CAG         LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, 64-QAM)         LTE-FDD         5.82         ±9.6 %           10161         CAE         LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, 64-QAM)         LTE-FDD         6.63         ±9.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, 64-QAM)         LTE-FDD         6.43         ±9.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, 64-QAM)         LTE-FDD         6.43         ±9.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50%, RB, 14 MHz, 0FSK)         LTE-FDD         6.48         ±9.6 %           10162         CAF         LTE-FDD (SC-FDMA, 50%, RB, 14 MHz, 0FSK) <td></td> <td></td> <td>TETETED (SC EDMA 50% BB 20 MUL 40 CAME</td> <td></td> <td></td> <td></td>			TETETED (SC EDMA 50% BB 20 MUL 40 CAME			
10154         CAG         LTE-FDD         SC:FDMA, 50%, RB, 10 MHz, GPSK)         LTE-FDD         5.75         ± 9.6 %           10155         CAG         LTE-FDD (SC-FDMA, 50%, RB, 10 MHz, 16-QAM)         LTE-FDD         6.43         ± 9.6 %           10156         CAG         LTE-FDD (SC-FDMA, 50%, RB, 5 MHz, 16-QAM)         LTE-FDD         6.49         ± 9.6 %           10157         CAG         LTE-FDD (SC-FDMA, 50%, RB, 5 MHz, 16-QAM)         LTE-FDD         6.49         ± 9.6 %           10158         CAG         LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, 64-QAM)         LTE-FDD         6.62         ± 9.6 %           10160         CAE         LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, 64-QAM)         LTE-FDD         6.64         ± 9.6 %           10161         CAE         LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, 64-QAM)         LTE-FDD         6.43         ± 9.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50%, RB, 14 MHz, QPSK)         LTE-FDD         6.44         ± 9.6 %           10166         CAF         LTE-FDD (SC-FDMA, 50%, RB, 14 MHz, GP-QAM)         LTE-FDD         6.21         ± 9.6 %           10167         CAF         LTE-FDD (SC-FDMA, 178, 20 MHz, 64-QAM)         LTE-FDD         6.73         ± 9.6 %           10168         CAF         LTE-FDD (SC-FDMA, 50%,			LTE TOD (SO FDMA 50% RB, 20 MHZ, 16-QAM)			
10155         CAG         LTE-FDD         Sci 200, NHz, 16-QAM)         LTE-FDD         6.43         ± 8.6 %           10156         CAG         LTE-FDD (SC-FDMA, 50%, RB, 5 MHz, QPSK)         LTE-FDD         5.79         ± 9.6 %           10157         CAG         LTE-FDD (SC-FDMA, 50%, RB, 5 MHz, 16-QAM)         LTE-FDD         6.62         ± 9.6 %           10158         CAG         LTE-FDD (SC-FDMA, 50%, RB, 5 MHz, 16-QAM)         LTE-FDD         6.62         ± 9.6 %           10159         CAG         LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, 16-QAM)         LTE-FDD         6.62         ± 9.6 %           10160         CAE         LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, 16-QAM)         LTE-FDD         6.43         ± 9.6 %           10161         CAE         LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, 16-QAM)         LTE-FDD         6.44         ± 9.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50%, RB, 14 MHz, 16-QAM)         LTE-FDD         6.74         ± 9.6 %           10166         CAF         LTE-FDD (SC-FDMA, 50%, RB, 14 MHz, 16-QAM)         LTE-FDD         6.73         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 17 MB, 20 MHz, 16-QAM)         LTE-FDD         6.73         ± 9.6 %           10171         CAG         LTE-FDD (SC-FDMA, 17 RB, 20 MHz,						
10156         CAG         LTE-FDD         SC.FDMA, 50%, RB, 5 MHz, QPSK)         LTE-FDD         5.79         ± 0.6 %           10157         CAG         LTE-FDD (SC-FDMA, 50%, RB, 5 MHz, 16-QAM)         LTE-FDD         6.49         ± 9.6 %           10158         CAG         LTE-FDD (SC-FDMA, 50%, RB, 5 MHz, 64-QAM)         LTE-FDD         6.62         ± 9.6 %           10160         CAE         LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, QCAM)         LTE-FDD         5.82         ± 9.6 %           10161         CAE         LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, QCAM)         LTE-FDD         6.43         ± 9.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50%, RB, 14 MHz, QCSK)         LTE-FDD         6.43         ± 9.6 %           10166         CAF         LTE-FDD (SC-FDMA, 50%, RB, 14 MHz, QCSK)         LTE-FDD         6.42         ± 9.6 %           10167         CAE         LTE-FDD (SC-FDMA, 50%, RB, 14 MHz, QCSK)         LTE-FDD         6.79         ± 9.6 %           10168         CAF         LTE-FDD (SC-FDMA, 10%, 20% RB, 14 MHz, QCSK)         LTE-FDD         6.79         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 10%, 20 MHz, QCSK)         LTE-FDD         6.73         ± 9.6 %           10171         CAE         LTE-FDD (SC-FDMA, 17 B, 20 MHz,			LIE-FUD (SU-FUMA, SU% KB, 10 MHZ, QPSK)		and the second se	
10157         CAG         LTE-FDD (SC-FDMA, 50% RB, 6 MHz, 16-QAM)         LTE-FDD         6.49         13.06 %           10158         CAG         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)         LTE-FDD         6.62         19.6 %           10169         CAC         LTE-FDD (SC-FDMA, 50% RB, 55 MHz, 26-QAM)         LTE-FDD         6.56         19.6 %           10161         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 26-QAM)         LTE-FDD         6.58         19.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)         LTE-FDD         6.58         19.6 %           10163         CAF         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 46-QAM)         LTE-FDD         6.46         19.6 %           10168         CAF         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 64-QAM)         LTE-FDD         6.41         19.6 %           10169         CAE         LTE-FDD (SC-FDMA, 10%, 20 MHz, 16-QAM)         LTE-FDD         5.73         19.6 %           10170         CAE         LTE-FDD (SC-FDMA, 178, 20 MHz, 64-QAM)         LTE-FDD         6.52         19.6 %           10171         AAE         LTE-FDD (SC-FDMA, 178, 20 MHz, 64-QAM)         LTE-FDD         6.52         19.6 %           10172         CAG         LTE-FDD (SC-FDMA, 178, 20 MHz, 64-QAM)         LT			LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)			
10158       CAG       LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)       LTE-FDD       6.62       ± 9.6 %         10159       CAG       LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)       LTE-FDD       6.56       ± 9.6 %         10160       CAE       LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)       LTE-FDD       6.43       ± 9.6 %         10161       CAE       LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)       LTE-FDD       6.43       ± 9.6 %         10162       CAE       LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 0FSK)       LTE-FDD       6.43       ± 9.6 %         10166       CAF       LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 0FSK)       LTE-FDD       6.79       ± 9.6 %         10168       CAF       LTE-FDD (SC-FDMA, 18, 20 MHz, 16-QAM)       LTE-FDD       6.79       ± 9.6 %         10170       CAE       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-FDD       6.52       ± 9.6 %         10171       CAG       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-FDD       6.49       ± 9.6 %         10172       CAG       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-FDD       6.49       ± 9.6 %         10172       CAG       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-FDD       9.21       ± 9.6 %         10176       CAG			LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)		5.79	
10159         CAG         LTE-FDD         6.56         ± 9.6 %           10160         CAE         LTE-FDD         (SC-FDMA, 50% RB, 15 MHz, QPSK)         LTE-FDD         5.82         ± 9.6 %           10161         CAE         LTE-FDD         (SC-FDMA, 50% RB, 15 MHz, 16-QAM)         LTE-FDD         6.43         ± 9.6 %           10162         CAE         LTE-FDD         (SC-FDMA, 50% RB, 15 MHz, 16-QAM)         LTE-FDD         6.43         ± 9.6 %           10166         CAF         LTE-FDD         (SC-FDMA, 50% RB, 14 MHz, QPSK)         LTE-FDD         6.21         ± 9.6 %           10169         CAF         LTE-FDD         (SC-FDMA, 50% RB, 14 MHz, QPSK)         LTE-FDD         6.79         ± 9.6 %           10169         CAE         LTE-FDD (SC-FDMA, 182, 20 MHz, 16-QAM)         LTE-FDD         6.73         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)         LTE-FDD         6.49         ± 9.6 %           10171         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)         LTE-FDD         9.48         ± 9.6 %           10172         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)         LTE-FDD         9.48         ± 9.6 %           10174         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 M			LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)		6.49	
10160         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)         LTE-FDD         5.82         ± 9.6 %           10161         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)         LTE-FDD         6.43         ± 9.6 %           10162         CAE         LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 04-QAM)         LTE-FDD         6.54         ± 9.6 %           10166         CAF         LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 04-QAM)         LTE-FDD         6.74         ± 9.6 %           10168         CAF         LTE-FDD (SC-FDMA, 18B, 20 MHz, 04-QAM)         LTE-FDD         6.71         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM)         LTE-FDD         6.52         ± 9.6 %           10171         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM)         LTE-FDD         6.49         ± 9.6 %           10172         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM)         LTE-FDD         9.21         ± 9.6 %           10173         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)         LTE-FDD         9.21         ± 9.6 %           10174         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)         LTE-FDD         9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)         LTE-FDD			LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)		6.62	± 9.6 %
10161         CAE         LTE-FDD         6.43         ± 9.6 %           10162         CAE         LTE-FDD         6.43         ± 9.6 %           10162         CAE         LTE-FDD         6.58         ± 9.6 %           10166         CAF         LTE-FDD         (5.67)         ± 9.6 %           10167         CAF         LTE-FDD         (5.67)         ± 9.6 %           10168         CAF         LTE-FDD         (5.71)         ± 9.6 %           10168         CAF         LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.73         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 178, 20 MHz, 0PSK)         LTE-FDD         6.73         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 178, 20 MHz, 04-QAM)         LTE-FDD         6.49         ± 9.6 %           10171         AAE         LTE-FDD (SC-FDMA, 178, 20 MHz, 16-QAM)         LTE-FDD         9.44         ± 9.6 %           10172         CAG         LTE-FDD (SC-FDMA, 178, 20 MHz, 16-QAM)         LTE-FDD         9.44         ± 9.6 %           10174         CAG         LTE-FDD (SC-FDMA, 178, 20 MHz, 16-QAM)         LTE-FDD         5.72         ± 9.6 %           10175         CAG         LTE-FDD (SC-FDM			LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)		6.56	±9.6 %
10162         CAE         LTE-FDD         6.53         ± 9.6 %           10166         CAF         LTE-FDD         6.53         ± 9.6 %           10166         CAF         LTE-FDD         (5.46         ± 9.6 %           10167         CAF         LTE-FDD         (5.21         ± 9.6 %           10168         CAF         LTE-FDD         (5.21         ± 9.6 %           10168         CAF         LTE-FDD         (5.73         ± 9.6 %           10169         CAE         LTE-FDD         (5.73         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0PSK)         LTE-FDD         6.52         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0PSK)         LTE-FDD         6.49         ± 9.6 %           10171         AAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0FAAM)         LTE-FDD         9.48         ± 9.6 %           10172         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0FAAM)         LTE-FDD         9.48         ± 9.6 %           10173         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0FAAM)         LTE-FDD         5.72         ± 9.6 %           10175         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 0PSK)         LTE-FDD				LTE-FDD	5.82	
10162         CAE         LTE-FDD         6.58         ± 9.6 %           10166         CAF         LTE-FDD         6.46         ± 9.6 %           10167         CAF         LTE-FDD         6.46         ± 9.6 %           10168         CAF         LTE-FDD         6.21         ± 9.6 %           10169         CAF         LTE-FDD         6.79         ± 9.6 %           10169         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)         LTE-FDD         6.73         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, G4-QAM)         LTE-FDD         6.44         ± 9.6 %           10171         AAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)         LTE-TDD         9.21         ± 9.6 %           10172         CAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)         LTE-TDD         9.21         ± 9.6 %           10173         CAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, G4-QAM)         LTE-TDD         10.25         ± 9.6 %           10174         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, G4-QAM)         LTE-FDD         5.72         ± 9.6 %           10175         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, GPSK)         LTE-FDD         5.72         ± 9.6 %           10176				LTE-FDD	6.43	± 9.6 %
10166       CAF       LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 0PSK)       LTE-FDD       6.46       ± 9.6 %         10167       CAF       LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)       LTE-FDD       6.79       ± 9.6 %         10168       CAF       LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)       LTE-FDD       6.79       ± 9.6 %         10170       CAE       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-FDD       6.52       ± 9.6 %         10171       AAE       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-FDD       6.48       ± 9.6 %         10172       CAG       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-FDD       9.21       ± 9.6 %         10173       CAG       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-FDD       9.48       ± 9.6 %         10173       CAG       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM)       LTE-FDD       9.48       ± 9.6 %         10175       CAG       LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 04-QAM)       LTE-FDD       5.72       ± 9.6 %         10176       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 04-QAM)       LTE-FDD       5.72       ± 9.6 %         10177       CAI       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 04-QAM)       LTE-FDD       5.73       ± 9.6 %         10178       CAG			LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	
10167         CAF         LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.21         ± 9.6 %           10168         CAF         LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.73         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0PSK)         LTE-FDD         6.52         ± 9.6 %           10171         AAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)         LTE-FDD         6.49         ± 9.6 %           10172         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)         LTE-FDD         9.21         ± 9.6 %           10173         CAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)         LTE-FDD         9.21         ± 9.6 %           10174         CAG         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM)         LTE-FDD         9.22         ± 9.6 %           10175         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)         LTE-FDD         5.72         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10177         CAI         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 04-QAM)         LTE-FDD         6.52         ± 9.6 %           10178         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         LTE			LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD		
10168       CAF       LTE-FDD (SC-FDMA, 10% RB, 1.4 MHz, 64-QAM)       LTE-FDD       6.79       ± 9.6 %         10169       CAE       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)       LTE-FDD       6.52       ± 9.6 %         10171       CAE       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-FDD       6.49       ± 9.6 %         10171       AAE       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-FDD       6.49       ± 9.6 %         10172       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-TDD       9.21       ± 9.6 %         10173       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-TDD       9.48       ± 9.6 %         10175       CAG       LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)       LTE-FDD       5.72       ± 9.6 %         10176       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       LTE-FDD       5.73       ± 9.6 %         10176       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       LTE-FDD       5.73       ± 9.6 %         10177       CAI       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       LTE-FDD       6.52       ± 9.6 %         10179       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)       LTE-FDD       6.50       ± 9.6 %         10180       CAE       LT		CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD		
10169         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10170         CAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10171         AAE         LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)         LTE-TDD         9.21         ± 9.6 %           10172         CAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)         LTE-TDD         9.21         ± 9.6 %           10173         CAG         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, G4-QAM)         LTE-TDD         9.48         ± 9.6 %           10174         CAG         LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10175         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10177         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QAM)         LTE-FDD         5.72         ± 9.6 %           10178         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QAM)         LTE-FDD         6.52         ± 9.6 %           10179         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QAM)         LTE-FDD         5.	10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD		
10170       CAE       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)       LTE-FDD       6.52       ± 9.6 %         10171       AAE       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)       LTE-FDD       6.49       ± 9.6 %         10172       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)       LTE-TDD       9.21       ± 9.6 %         10173       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)       LTE-TDD       9.48       ± 9.6 %         10174       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-TDD       9.48       ± 9.6 %         10175       CAG       LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)       LTE-FDD       5.72       ± 9.6 %         10176       CAG       LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)       LTE-FDD       5.73       ± 9.6 %         10177       CAI       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       LTE-FDD       5.73       ± 9.6 %         10178       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)       LTE-FDD       6.52       ± 9.6 %         10178       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)       LTE-FDD       6.50       ± 9.6 %         10180       CAG       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)       LTE-FDD       6.52       ± 9.6 %         10182       CAE       LTE-FDD (S	10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	and the second se		
10171       AAE       LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-FDD       6.49       ± 9.6 %         10172       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)       LTE-TDD       9.21       ± 9.6 %         10173       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)       LTE-TDD       9.48       ± 9.6 %         10174       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)       LTE-TDD       10.25       ± 9.6 %         10175       CAG       LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)       LTE-FDD       5.72       ± 9.6 %         10176       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)       LTE-FDD       6.52       ± 9.6 %         10177       CAI       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)       LTE-FDD       6.52       ± 9.6 %         10178       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 04-QAM)       LTE-FDD       6.52       ± 9.6 %         10179       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 04-QAM)       LTE-FDD       6.50       ± 9.6 %         10180       CAE       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 04-QAM)       LTE-FDD       6.52       ± 9.6 %         10181       CAE       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 04-QAM)       LTE-FDD       6.52       ± 9.6 %         10183       AAD       LTE	10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)			
10172       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)       LTE-TDD       9.21       ± 9.6 %         10173       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)       LTE-TDD       9.48       ± 9.6 %         10174       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-TDD       10.25       ± 9.6 %         10175       CAG       LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)       LTE-FDD       5.72       ± 9.6 %         10176       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)       LTE-FDD       6.52       ± 9.6 %         10177       CAI       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)       LTE-FDD       5.73       ± 9.6 %         10178       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)       LTE-FDD       6.52       ± 9.6 %         10178       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 04-QAM)       LTE-FDD       6.50       ± 9.6 %         10180       CAG       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0PSK)       LTE-FDD       6.50       ± 9.6 %         10181       CAE       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0PSK)       LTE-FDD       6.52       ± 9.6 %         10182       CAE       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0PSK)       LTE-FDD       6.52       ± 9.6 %         10182       CAE       LTE-FDD	10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)			
10173       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)       LTE-TDD       9.48       ± 9.6 %         10174       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-TDD       10.25       ± 9.6 %         10175       CAG       LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)       LTE-FDD       5.72       ± 9.6 %         10176       CAG       LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)       LTE-FDD       5.73       ± 9.6 %         10177       CAI       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)       LTE-FDD       5.73       ± 9.6 %         10178       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)       LTE-FDD       6.52       ± 9.6 %         10179       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)       LTE-FDD       6.50       ± 9.6 %         10180       CAG       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 20PSK)       LTE-FDD       5.72       ± 9.6 %         10181       CAE       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)       LTE-FDD       5.72       ± 9.6 %         10183       AAD       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 04-QAM)       LTE-FDD       6.50       ± 9.6 %         10183       CAE       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 04-QAM)       LTE-FDD       6.51       ± 9.6 %         10184       CAE       LT	10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)			
10174       CAG       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)       LTE-TDD       10.25       ± 9.6 %         10175       CAG       LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)       LTE-FDD       5.72       ± 9.6 %         10176       CAG       LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)       LTE-FDD       6.52       ± 9.6 %         10177       CAI       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       LTE-FDD       6.52       ± 9.6 %         10178       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       LTE-FDD       6.52       ± 9.6 %         10179       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)       LTE-FDD       6.50       ± 9.6 %         10180       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)       LTE-FDD       6.50       ± 9.6 %         10181       CAE       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0-QAM)       LTE-FDD       5.72       ± 9.6 %         10182       CAE       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0-QAM)       LTE-FDD       5.73       ± 9.6 %         10183       AAD       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0-QAM)       LTE-FDD       5.73       ± 9.6 %         10184       CAE       LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)       LTE-FDD       5.73       ± 9.6 %         10185       CAE       LTE-FDD (SC-	10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)			
10175         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10176         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10177         CAI         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10178         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10179         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10180         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 04-QAM)         LTE-FDD         5.72         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 04-QAM)         LTE-FDD         5.72         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 04-QAM)         LTE-FDD         5.73         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 04-QAM)         LTE-FDD	10174	CAG				
10176         CAG         LTE-FDD         (SC-FDMA, 1 RB, 10 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10177         CAI         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10178         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10179         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10180         CAG         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         6.51         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         6.51         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FD	10175	CAG				
10177       CAI       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       LTE-FDD       5.73       ±9.6 %         10178       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)       LTE-FDD       6.52       ±9.6 %         10179       CAG       LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)       LTE-FDD       6.50       ±9.6 %         10180       CAG       LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)       LTE-FDD       6.50       ±9.6 %         10181       CAE       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)       LTE-FDD       5.72       ±9.6 %         10182       CAE       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)       LTE-FDD       6.52       ±9.6 %         10182       CAE       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)       LTE-FDD       6.50       ±9.6 %         10183       AAD       LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)       LTE-FDD       5.73       ±9.6 %         10184       CAE       LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)       LTE-FDD       5.73       ±9.6 %         10185       CAE       LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)       LTE-FDD       5.73       ±9.6 %         10186       AAE       LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)       LTE-FDD       5.73       ±9.6 %         10187       CAF       LTE-FDD (SC-FDMA, 1 RB, 1						
10178         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10179         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10180         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD         5.73         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, G4-QAM)         LTE-FDD	jamma to containing and		LTE-FDD (SC-FDMA, 1 RB, 5 MHz, OPSK)			
10179         CAG         LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10180         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 0PSK)         LTE-FDD         5.73         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 0PSK)         LTE-FDD         6.50         ± 9.6 %           10186         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD			LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-0AM)			
10180         CAG         LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.51         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.52         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
10181         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)         LTE-FDD         5.72         ± 9.6 %           10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, G4-QAM)         LTE-FDD         6.51         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, G4-QAM)         LTE-FDD         6.51         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, G4-QAM)         LTE-FDD         6.52         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
10182         CAE         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN			1TE-EDD (SC-EDMA 1 RR 15 MHz ODCV)			
10183       AAD       LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)       LTE-FDD       6.50       ± 9.6 %         10184       CAE       LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)       LTE-FDD       5.73       ± 9.6 %         10185       CAE       LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)       LTE-FDD       5.73       ± 9.6 %         10185       CAE       LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)       LTE-FDD       6.51       ± 9.6 %         10186       AAE       LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)       LTE-FDD       6.50       ± 9.6 %         10187       CAF       LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)       LTE-FDD       5.73       ± 9.6 %         10188       CAF       LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)       LTE-FDD       6.52       ± 9.6 %         10189       AAF       LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, G4-QAM)       LTE-FDD       6.50       ± 9.6 %         10193       CAC       IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)       WLAN       8.09       ± 9.6 %         10194       CAC       IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)       WLAN       8.12       ± 9.6 %         10195       CAC       IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)       WLAN       8.12       ± 9.6 %         10196       CAC			$\frac{1}{1} = \frac{1}{100} \frac{1}$			
10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         LTE-FDD         6.51         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         LTE-FDD         6.51         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         6.52         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLA						
10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         LTE-FDD         6.51         ± 9.6 %           10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 14 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WL						
10186         AAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         6.50         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.10         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.13         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)						
10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         LTE-FDD         5.73         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD         5.73         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 16-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.10         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.13         ± 9.6 %						
10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 16-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.11         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.10         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.27         ± 9.6 %						
10189         AAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.11         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, 16-QAM)         WLAN         8.13         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.13         ± 9.6 %			LTE-FUD (SU-FUMA, 1 KB, 1.4 MHz, QPSK)			the second se
10193         CAC         IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)         WLAN         8.09         ± 9.6 %           10194         CAC         IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.12         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.21         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.27         ± 9.6 %			LTE-FDD (SC-FDMA, 1 KB, 1.4 MHz, 16-QAM)		******	
10194         CAC         IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.21         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.27         ± 9.6 %			LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)			± 9.6 %
10194         CAC         IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)         WLAN         8.12         ± 9.6 %           10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.21         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.27         ± 9.6 %			IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)		8.09	±9.6 %
10195         CAC         IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)         WLAN         8.21         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.27         ± 9.6 %			IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN		
10196         CAC         IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)         WLAN         8.10         ± 9.6 %           10197         CAC         IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.27         ± 9.6 %			IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN		
10197         CAC         IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)         WLAN         8.13         ± 9.6 %           10198         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLAN         8.27         ± 9.6 %			IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)			
10198 CAC IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.27 ± 9.6 %			IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)			
			IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)			
	10219	CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %

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10220	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	$\pm 9.6\%$
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 % ± 9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	*****	8.08	
10225	CAB	UMTS-FDD (HSPA+)		5.97	± 9.6 %
10226	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6%
10227	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	<u>±9.6 %</u> ±9.6 %
10232	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48 10.25	
10233	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD		± 9.6 %
10234	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6%
10235	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10236	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	$\pm 9.6\%$
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	$\pm 9.6\%$
10241	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	$\pm 9.6\%$
10245	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6%
10247	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6 %
10248	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	± 9.6 %
10249	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10250	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	± 9.6 %
10259	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %
10260	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	$\pm 9.6\%$
10263	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9,23	± 9.6 %
10265	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAB	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 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, 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 %
10000	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10295		LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10295	AAD				
	AAD AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD LTE-FDD	5.72 6.39	± 9.6 %

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10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	12.03	± 9.6 %
10302	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.57	± 9.6 %
10303	AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15	WIMAX	15.24	± 9.6 %
10306	AAA	symbols) IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18	WiMAX	14.67	± 9.6 %
10307	AAA	symbols) IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18	WIMAX	14.49	± 9.6 %
10308	AAA	symbols) IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	10/:00/	44.40	
10309	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, POSC)	WIMAX WIMAX	14.46 14.58	$\pm 9.6\%$
		symbols)	VVIIV/32	14.00	± 9.6 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	WiMAX	14.57	± 9.6 %
10311	AAD	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	AAC	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 9
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 9
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	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10401	AAD	IEEE 802.11ac WiFI (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	± 9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
10410	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
		Subframe=2,3,4,7,8,9, Subframe Conf=4)			
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	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	AAB	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	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6%
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)			- 0.0 /

10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	± 9.6 %
10457	AAA	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 WCDMA	8.25 2.39	±9.6 % ±9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL		7.82	$\pm 9.6\%$ $\pm 9.6\%$
10461	AAA	Subframe=2,3,4,7,8,9)		1.02	1 3.0 %
10462	AAA	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	AAA	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	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7,82	± 9.6 %
10465	AAB	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	AAB	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	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6 %
10468	AAE	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	AAE	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	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10471	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10472	AAE	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	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2.3.4.7.8.9)	LTE-TDD	7.82	± 9.6 %
10474	AAE	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	AAE	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	AAF	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	AAF	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	AAA	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	AAA	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	AAA	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	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	± 9.6 %
10483	AAB	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	AAB	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	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	± 9.6 %
10486	AAE	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	AAE	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	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2.3.4.7.8.9)	LTE-TDD	7.70	± 9.6 %
10489	AAE	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	AAE	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	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %

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10535 10536 10537 10538 10540 10541	AAB AAB AAB AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN WLAN WLAN	8.45 8.32	<u>±9.6 %</u> ±9.6 %
10537 10538 10540	AAB				
10538 10540				8.44	± 9.6 %
10540		IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.54	± 9.6 %
	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 95pc duty cycle)	WLAN	8.39	± 9.6 %
10041	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8,35	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8,49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac Will (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty	WLAN	8.25	± 9.6 %
10304	~~~	cvcle)	VVL/IN	0.20	1 2 3.0 /0
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 cvcle)	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	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN WLAN	8.70	<u>± 9.6 %</u> ± 9.6 %
10585 10586	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)			

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40500	1				
10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	± 9.6 %
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	± 9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	± 9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	± 9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.70	$\pm 9.6\%$ $\pm 9.6\%$
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	$\pm 9.6\%$ $\pm 9.6\%$
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN		± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)		8.59	± 9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10617	AAB		WLAN	8.82	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10619	AAB		WLAN	8.58	± 9.6 %
10620		IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	± 9.6 %
	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.68	± 9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9,6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	9.05	± 9.6 %
10646	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD		± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)		11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	LTE-TDD	11.96	± 9.6 %
10652	AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	CDMA2000	3.45	± 9.6 %
			LTE-TDD	6.91	± 9.6 %
	ΔΔΠ				
10653 10654	AAD AAD	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD LTE-TDD	7.42 6.96	±9.6 % ±9.6 %

40055		LTE TOD (OEDMA, OO MILE E TMO 4 Offening 449()		7.04	
10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD Test	7.21	±9.6 % ±9.6 %
10658 10659	AAA AAA	Pulse Waveform (200Hz, 10%) Pulse Waveform (200Hz, 20%)	Test	6.99	$\pm 9.6\%$
10659	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 40%)	Test	2.22	±9.6%
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAA	IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	WLAN	9.09	± 9.6 %
10672	AAA	IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6 %
10673	AAA	IEEE 802.11ax (20MHz, MCS2, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10674	AAA	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10675	AAA	IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6%
10676	AAA	IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6%
10677	AAA	IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)	WLAN	8.73	± 9.6 %
10678	AAA	IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6 %
10679	AAA	IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10680	AAA	IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6 %
10681	AAA	IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)	WLAN	8.62	± 9.6 %
10682	AAA	IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10684		IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6 %
10685	AAA	IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle)	WLAN	8.33	$\pm 9.6\%$
10686	AAA	IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)	WLAN	8.28	± 9.6 %
10687	AAA	IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)	WLAN	8.45	± 9.6 % ± 9.6 %
10688		IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)	WLAN WLAN	8.29	$\pm 9.6\%$ $\pm 9.6\%$
10689	AAA AAA	IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle) IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)	WLAN	8.55	$\pm 9.6\%$ $\pm 9.6\%$
10690	AAA	IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS3, 39pc duty cycle)	WLAN	8.25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6 %
10695	AAA	IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6%
10706	AAA	IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)	WLAN	8.66	± 9.6 %
10707	AAA	IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10708	AAA	IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10709	AAA	IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10710		IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10711	AAA	IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6%
10712	AAA	IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle) IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)	WLAN WLAN	8.67	<u>± 9.6 %</u> ± 9.6 %
10713		IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)	WLAN	8.26	$\pm 9.6\%$
10714	AAA AAA	IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10715	AAA	IEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)	WLAN	8.30	± 9.6 %
10716	AAA	IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10717		IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)	WLAN	8.24	± 9.6 %
10719	AAA	IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10713	AAA	IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)	WLAN	8.87	± 9.6 %
1	AAA	IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10721				8.55	± 9.6 %
10721		I LEEE 802.11ax (80MHZ, MCS3, 90DC QUIV CVCIE)	WLAN	1 0.00	
10722	AAA	IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10722 10723		IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)	WLAN WLAN		
10722	AAA AAA	IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10722 10723 10724	AAA AAA AAA	IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)	WLAN WLAN	8.70 8.90	± 9.6 % ± 9.6 %

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10728	AAA	IEEE 802.11ax (80MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6 %
10729	AAA	IEEE 802.11ax (80MHz, MCS10, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10730	AAA	IEEE 802.11ax (80MHz, MCS11, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10731	AAA	IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10732	AAA	IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10733	AAA	IEEE 802.11ax (80MHz, MCS2, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10734	AAA	IEEE 802.11ax (80MHz, MCS3, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10735	AAA	IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10736	AAA	IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10737	AAA	IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10738	AAA	IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10739	AAA	IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10740	AAA	IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10741	AAA	IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10742	AAA	IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10743	AAA	IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10744	AAA	IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)	WLAN	9.16	± 9.6 %
10745	AAA	IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)	WLAN	8.93	± 9.6 %
10746	AAA	IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)	WLAN	9.11	± 9.6 %
10747	AAA	IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)	WLAN	9.04	± 9.6 %
10748	AAA	IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)	WLAN	8.93	±9.6 %
10749	AAA	IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10750	AAA	IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6 %
10751	AAA	IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10752	AAA	IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6 %
10753	AAA	IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6 %
10754	AAA	IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.6 %
10755	AAA	IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6 %
10756	AAA	IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6 %
10757	AAA	IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)	WLAN	8.77	±9.6 %
10758	AAA	IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10759	AAA	IEEE 802.11ax (160MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6 %
10760	AAA	IEEE 802.11ax (160MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6 %
10761	AAA	IEEE 802.11ax (160MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6 %
10762	AAA	IEEE 802.11ax (160MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6 %
10763	AAA	IEEE 802.11ax (160MHz, MCS8, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10764	AAA	IEEE 802.11ax (160MHz, MCS9, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10765	AAA	IEEE 802.11ax (160MHz, MCS10, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10766	AAA	IEEE 802.11ax (160MHz, MCS11, 99pc duty cycle)	WLAN	8.51	± 9.6 %

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

### Calibration Laboratory of

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



S Schweizerischer Kalibrierdienst
 Service suisse d'étalonnage
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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

**PC Test** Client

Certificate No: EX3-7547\_Jul19

# **CALIBRATION CERTIFICATE**

Object	EX3DV4 - SN:7547
Calibration procedure(s)	QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v7 Calibration procedure for dosimetric E-field probes
Calibration date:	July 15, 2019
	nts the traceability to national standards, which realize the physical units of measurements (SI). ainties with confidence probability are given on the following pages and are part of the certificate.
All calibrations have been conducted	ed in the closed laboratory facility: environment temperature (22 $\pm$ 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Арг-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	19-Dec-18 (No. DAE4-660_Dec18)	Dec-19
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec18)	Dec-19
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19

	Name	Function	Signature
Calibrated by:	Claudio Leubler	Laboratory Technician	
			VAL -
Approved by:	Katja Pokovic	Technical Manager	Still
			Issued: July 16, 2019
This calibration certificate	e shall not be reproduced except in full	without written approval of the lab	oratory.

#### Calibration Laboratory of

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



S Schweizerischer Kalibrierdienst

- C Service suisse d'étalonnage
- S Servizio svizzero di taratura
- 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

#### 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 φ	φ rotation around probe axis
Polarization 8	9 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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Methods Applied and Interpretation of Parameters:

- 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 E<sup>2</sup>-field uncertainty inside TSL (see below *ConvF*).
- NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- *DCPx,y,z*: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; 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).

Accreditation No.: SCS 0108

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.59	0.63	0.61	± 10.1 %
DCP (mV) <sup>B</sup>	98.4	100.8	101.2	

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

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> (k=2)
0	CW	X	0.00	0.00	1.00	0.00	157.4	± 3.0 %	± 4.7 %
		Y	0.00	0.00	1.00		159.4	1	
		Z	0.00	0.00	1.00		160.6	1	
10352-	Pulse Waveform (200Hz, 10%)	X	15.00	88.58	20.42	10.00	60.0	± 3.5 %	± 9.6 %
AAA		Y	15.00	89.45	20.46		60.0		
		Z	15.00	88.70	20.44		60.0		
10353-	Pulse Waveform (200Hz, 20%)	X	15.00	89.81	19.82	6.99	80.0	±2.1 %	± 9.6 %
AAA		Y	15.00	91.92	20.74		80.0		
		Z	15.00	90.32	20.04		80.0	1	
10354-	Pulse Waveform (200Hz, 40%)	X	15.00	91.03	18.86	3.98	95.0	± 0.9 %	± 9.6 %
AAA		Y	15.00	96.09	21.49		95.0	1	
		Z	15.00	91.99	19.30	1	95.0	1	
10355-	Pulse Waveform (200Hz, 60%)	X	15.00	90.53	17.16	2.22	120.0	± 1.0 %	± 9.6 %
AAA		Y	15.00	100.76	22.40		120.0	1	
		Z	15.00	92.09	17.89		120.0	1	
10387-	QPSK Waveform, 1 MHz	X	0.62	60.63	7.84	0.00	150.0	± 2.7 %	± 9.6 %
AAA		Y	0.55	60.00	7.54		150.0	1	
		Z	0.56	60.00	7.41		150,0	1	
10388-	QPSK Waveform, 10 MHz	X	2.12	67.29	15.12	0.00	150.0	± 1.3 %	± 9.6 %
AAA		Y	2.04	66.92	15.14		150.0	1	
		Z	1.95	66.11	14.57		150.0	1	
10396-	64-QAM Waveform, 100 kHz	X	2.72	68.69	17.94	3.01	150.0	± 1.0 %	±9.6%
AAA		Y	2.50	67.90	17.50		150.0		
		Z	2.48	67.31	17.30		150.0		
10399-	64-QAM Waveform, 40 MHz	X	3.48	66.97	15.58	0.00	150.0	± 2.1 %	± 9.6 %
AAA		Y	3.38	66.64	15.46		150.0		
		Z	3.31	66.20	15.19		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.69	65.04	15.19	0.00	150.0	± 4.2 %	± 9.6 %
AAA		Y	4.71	65.39	15.34		150.0		
		Z	4.69	65.12	15.20		150.0		

Note: For details on UID parameters see Appendix

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

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

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

### Sensor Model Parameters

	C1	C2	α	T1	T2	Т3	T4	T5	T6
	fF	fF	V <sup>-1</sup>	ms.V <sup>-2</sup>	ms.V⁻¹	ms	V-2	V <sup>-1</sup>	
X	44.2	336.23	36.63	14.57	0.38	5.10	0.00	0.49	1.01
Y	39.2	289.50	34.84	14.48	0.00	5.10	0.68	0.28	1.01
Z	42.3	319.56	36.16	13.50	0.33	5.10	0.00	0.44	1.01

#### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	-29.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	. 337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	41. <del>9</del>	0.89	10.00	10.00	10.00	0.60	0.80	± 12.0 %
835	41.5	0.90	9.59	9.59	9.5 <del>9</del>	0.60	0.81	± 12.0 %
1750	40.1	1.37	8.25	8.25	8.25	0.31	0.86	± 12.0 %
1900	40.0	1.40	7.85	7.85	7.85	0.37	0.86	± 12.0 %
2300	39.5	1.67	7.57	7.57	7.57	0.31	0.93	± 12.0 %
2450	39.2	1.80	7.17	7.17	7.17	0.36	0.93	± 12.0 %
2600	39.0	1.96	6.99	6.99	6.99	0.39	0.93	± 12.0 %

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

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

<sup>6</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\varepsilon$  and  $\sigma$ ) can be relaxed to  $\pm$  10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\varepsilon$  and  $\sigma$ ) is restricted to  $\pm$  5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. <sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

<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.

			-		-			
f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	55.5	0.96	9.81	9.81	9.81	0.49	0.80	± 12.0 %
835	55.2	0.97	9.57	9.57	9.57	0.47	0.80	± 12.0 %
1750	53.4	1.49	7.81	7.81	7.81	0.46	0.86	± 12.0 %
1900	53.3	1.52	7.53	7.53	7.53	0.34	0.86	± 12.0 %
2300	52.9	1.81	7.47	7.47	7.47	0.36	0.93	± 12.0 %
2450	52.7	1.95	7.30	7.30	7.30	0.34	0.93	± 12.0 %
2600	52.5	2.16	7.18	7.18	7.18	0.30	0.93	± 12.0 %

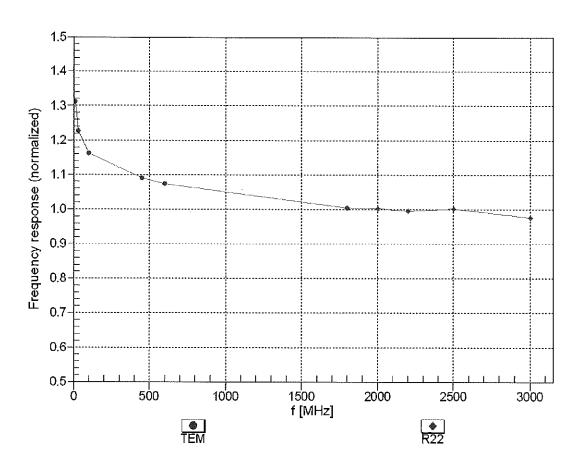
#### **Calibration Parameter Determined in Body Tissue Simulating Media**

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

At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of

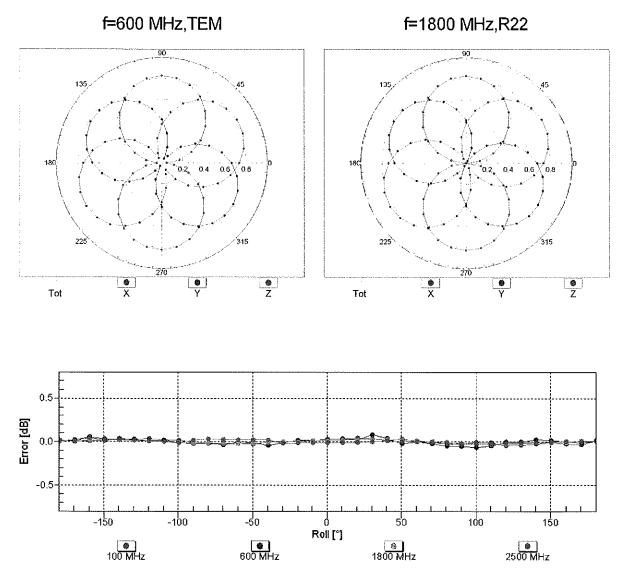
the ConvF uncertainty for indicated target tissue parameters. <sup>9</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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

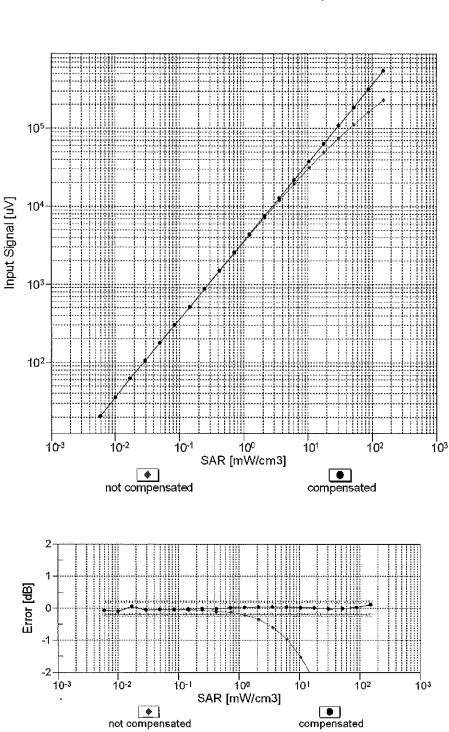
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)



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

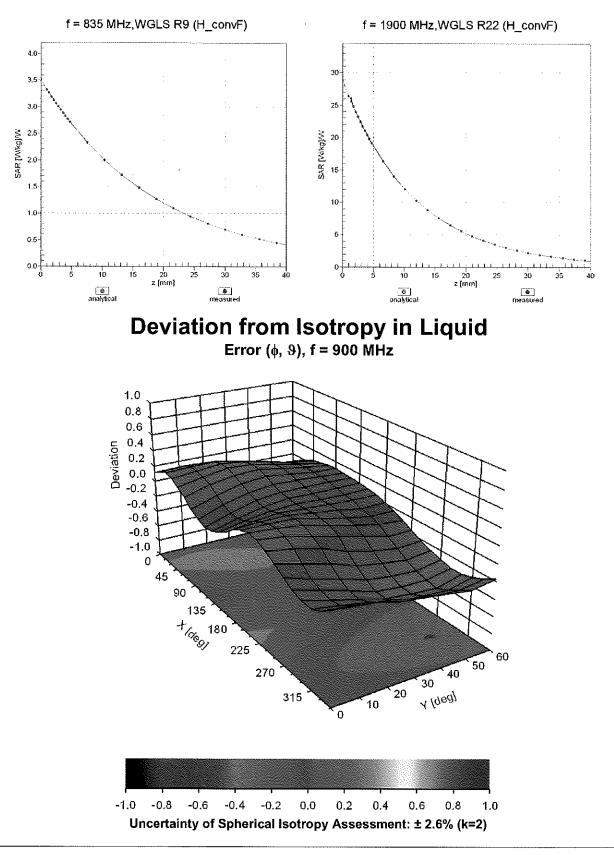
Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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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**

.

### **Appendix: Modulation Calibration Parameters**

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>±</sup> (k=2)
0		CW	CW	0.00	±4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	±9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6%
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6%
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.6%
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±96%
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±96%
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	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6%
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6%
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6%
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	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	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	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	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6%
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6%
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6%
1 40405	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6 %
10105 10108	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6 %

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10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6%
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6%
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9,6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8,46	± 9.6 %
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6%
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6 %
10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10143		LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6 %
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170		LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10171		LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176 10177	CAG CAI	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	5.73	± 9.6 %
10178	CAG		LTE-FDD	6.52	± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	$\pm 9.6\%$
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	6.50	±9.6%
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6%
10182	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 04-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)		6.50	± 9.6 %
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QFSK)	LTE-FDD	5.73	$\pm 9.6\%$
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51 6.50	$\pm 9.6\%$
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	$\pm 9.6\%$
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, GFSR)	LTE-FDD	6.52	±9.6%
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6%
10103	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	· · · · · · · · · · · · · · · · · · ·	±9.6%
10193	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.09	± 9.6 % ± 9.6 %
10195	CAC	IEEE 802.11n (HT Greenfield, 59 Mbps, 64-QAM)	WLAN	8.12 8.21	
10196	CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN		±9.6%
10190	CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.10 8.13	±9.6%
10197	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.13	±9.6%
10219	CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6 % ±9.6 %
	1 0/10			0.03	I 3.0 %