



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

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

MRT-CQC (Auden)

Certificate No: D850V2-1019\_May18

# **CALIBRATION CERTIFICATE**

Object D850V2 - SN:1019

Calibration procedure(s) QA CAL-05.v10

Calibration procedure for dipole validation kits above 700 MHz

Calibration date: May 23, 2018

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-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)	Арг-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)	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-17)	In house check: Oct-18
	Name	Function	Signature
Calibrated by:	Manu Seitz	Laboratory Technician	734
Approved by:	Katja Pokovic	Technical Manager	an and a second
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Issued: May 23, 2018

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#### Glossary:

TŞL

tissue simulating liquid

ConvF N/A

sensitivity in TSL / NORM x,y,z

not applicable or not measured

# Calibration is Performed According to the Following Standards:

- a) 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%.

Certificate No: D850V2-1019\_May18

#### **Measurement Conditions**

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

DASY Version	DASY5	V52.10.1
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, $dy$ , $dz = 5 mm$	-
Frequency	850 MHz ± 1 MHz	

# **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.92 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.7 ± 6 %	0.93 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	204E	

# **SAR** result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.46 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.72 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.58 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	6.26 W/kg ± 16.5 % (k=2)

# **Body TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.99 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.5 ± 6 %	1.00 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

# **SAR result with Body TSL**

SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.50 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	9.90 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.63 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	6.47 W/kg ± 16.5 % (k=2)

Certificate No: D850V2-1019\_May18

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

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

Impedance, transformed to feed point	52.3 Ω - 2.5 jΩ	
Return Loss	- 29.5 dB	

# **Antenna Parameters with Body TSL**

Impedance, transformed to feed point	47.6 Ω - 5.7 jΩ	
Return Loss	- 23.9 dB	

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

Electrical Delay (one direction)	1.432 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	October 21, 2015	

Certificate No: D850V2-1019\_May18

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

Date: 23.05.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 850 MHz; Type: D850V2; Serial: D850V2 - SN:1019

Communication System: UID 0 - CW; Frequency: 850 MHz

Medium parameters used: f = 850 MHz;  $\sigma = 0.93$  S/m;  $\varepsilon_r = 40.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

#### **DASY52 Configuration:**

Probe: EX3DV4 - SN7349; ConvF(9.78, 9.78, 9.78) @ 850 MHz; Calibrated: 30.12.2017

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

Electronics: DAE4 Sn601; Calibrated: 26.10.2017

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

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

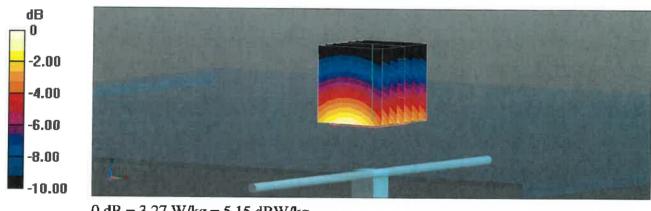
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 63.13 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.73 W/kg

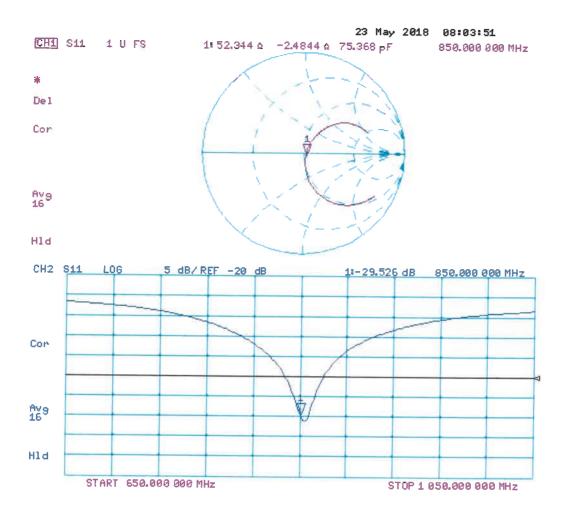
SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.58 W/kg

Maximum value of SAR (measured) = 3.27 W/kg



0 dB = 3.27 W/kg = 5.15 dBW/kg

# **Impedance Measurement Plot for Head TSL**



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

Date: 23.05.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 850 MHz; Type: D850V2; Serial: D850V2 - SN:1019

Communication System: UID 0 - CW; Frequency: 850 MHz

Medium parameters used: f = 850 MHz;  $\sigma = 1$  S/m;  $\varepsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

#### **DASY52 Configuration:**

Probe: EX3DV4 - SN7349; ConvF(9.95, 9.95, 9.95) @ 850 MHz; Calibrated: 30.12.2017

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 26.10.2017

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

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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

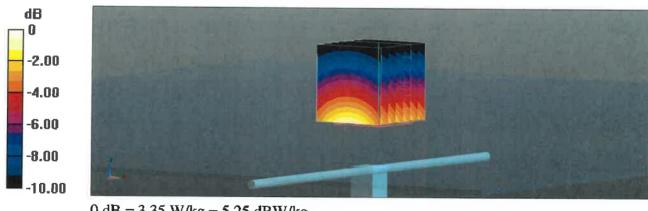
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 60.89 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.77 W/kg

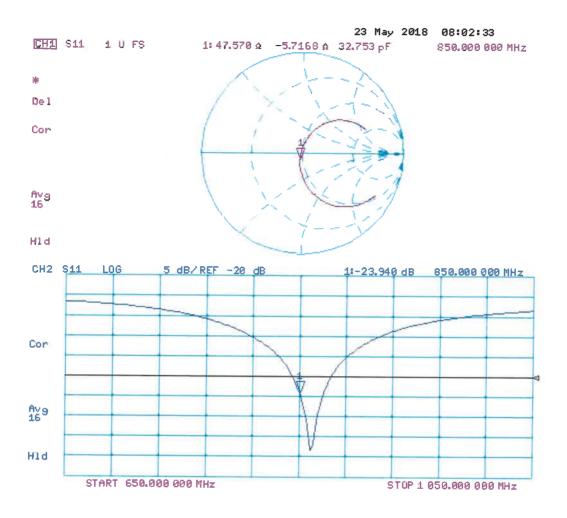
SAR(1 g) = 2.5 W/kg; SAR(10 g) = 1.63 W/kg

Maximum value of SAR (measured) = 3.35 W/kg



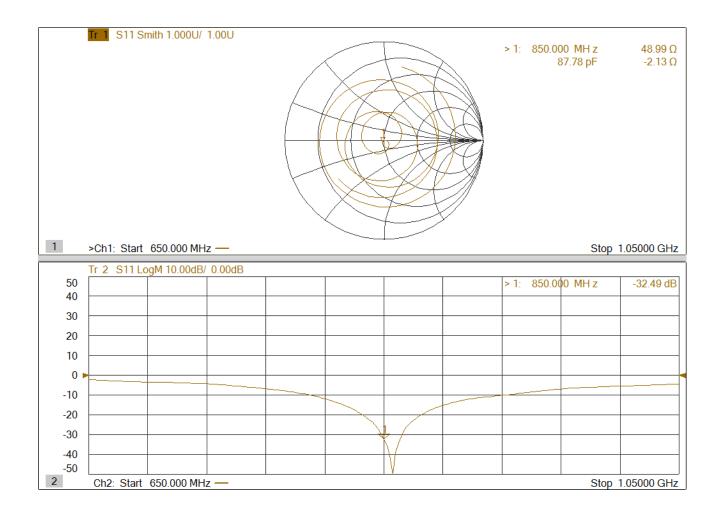
0 dB = 3.35 W/kg = 5.25 dBW/kg

# Impedance Measurement Plot for Body TSL



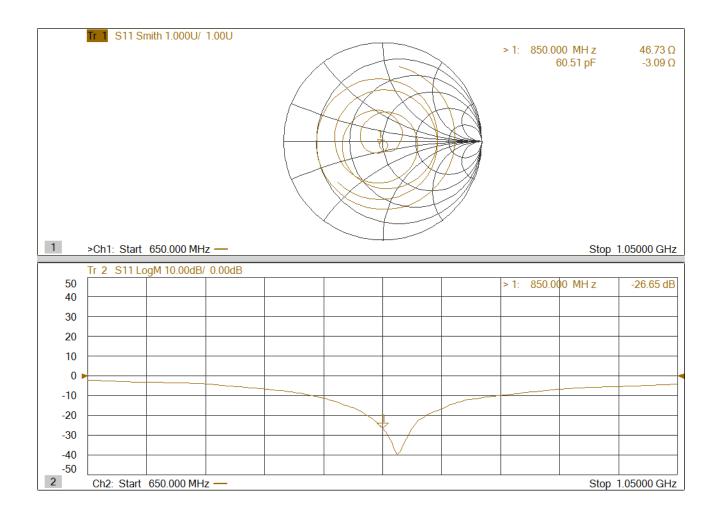


Return Loss and Impedance Indicated By Head Tissue				
Meas. Items	Original Value Current Value Deviation			
Return Loss(dB)	-29.526	-32.49	-10.0	04%
lmnadanaa	F2 2440 2 484i0	48.000 2.430	-3.354Ω	0.646Ω
Impedance	52.344Ω - 2.484jΩ	48.99Ω - 2.13jΩ	Real part	Imaginary part
Test Date:	2019/05/13			





Return Loss and Impedance Indicated By Body Tissue				
Meas. Items	Original Value Current Value Deviation			
Return Loss(dB)	-23.940	-26.65	-11.3	32%
Impedance	47 5700 5 7470	46 720 2 00:0	-0.84Ω	2.627Ω
Impedance	47.570Ω - 5.717jΩ	46.73Ω - 3.09jΩ	Real part	Imaginary part
Test Date:	2019/05/13			







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Client

MRT-CQC (Auden)

Certificate No: D1900V2-5d228\_May18

Issued: May 14, 2018

# **CALIBRATION CERTIFICATE**

Object D1900V2 - SN:5d228

Calibration procedure(s) QA CAL-05.v10

Calibration procedure for dipole validation kits above 700 MHz

Calibration date: May 14, 2018

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

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

Calibration Equipment used (M&TE critical for calibration)

ID#	Cal Date (Certificate No.)	Scheduled Calibration
SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
SN: 5058 (20k)	04-Apr-18 (No. 217-02682)	Apr-19
SN: 5047.2 / 06327	04-Apr-18 (No. 217-02683)	Apr-19
SN: 7349	30-Dec-17 (No. EX3-7349_Dec17)	Dec-18
SN: 601	26-Oct-17 (No. DAE4-601_Oct17)	Oct-18
ID#	Check Date (in house)	Scheduled Check
SN: GB37480704	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
SN: US37292783	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
SN: MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
SN: US37390585	18-Oct-01 (in house check Oct-17)	In house check: Oct-18
Name	Function	Signature
Jeton Kastrati	Laboratory Technician	Of gen
Katja Pokovic	Technical Manager	le as
	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 7349 SN: 601  ID # SN: GB37480704 SN: US37292783 SN: MY41092317 SN: 100972 SN: US37390585  Name Jeton Kastrati	SN: 104778

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# **Calibration Laboratory of**

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





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Glossarv:

TSL

tissue simulating liquid

ConvF sensitivity in TSL / NORM x.v.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
- 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%.

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#### **Measurement Conditions**

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

DASY Version	DASY5	V52.10.1
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	41.2 ± 6 %	1.35 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	9.73 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	40.0 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
SAR for nominal Head TSL parameters	normalized to 1W	21.1 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	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	55.3 ± 6 %	1.46 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	9.68 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	40.0 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	5.21 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.3 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	$52.9 \Omega + 4.9 j\Omega$
Return Loss	- 25.2 dB

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

Impedance, transformed to feed point	47.5 Ω + 5.4 jΩ
Return Loss	- 24.3 dB

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

Electrical Delay (one direction)	1.199 ns
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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	April 16, 2015

Certificate No: D1900V2-5d228\_May18

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

Date: 14.05.2018

Test Laboratory: SPEAG, Zurich, Switzerland

#### DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d228

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz;  $\sigma = 1.35 \text{ S/m}$ ;  $\varepsilon_r = 41.2$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### **DASY52 Configuration:**

Probe: EX3DV4 - SN7349; ConvF(8.18, 8.18, 8.18) @ 1900 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:

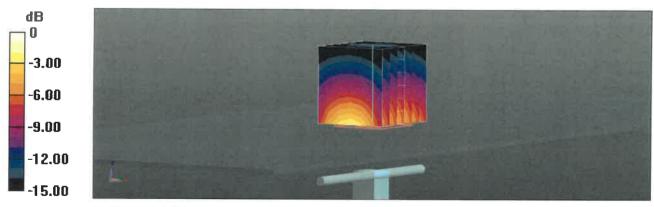
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 110.0 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 17.6 W/kg

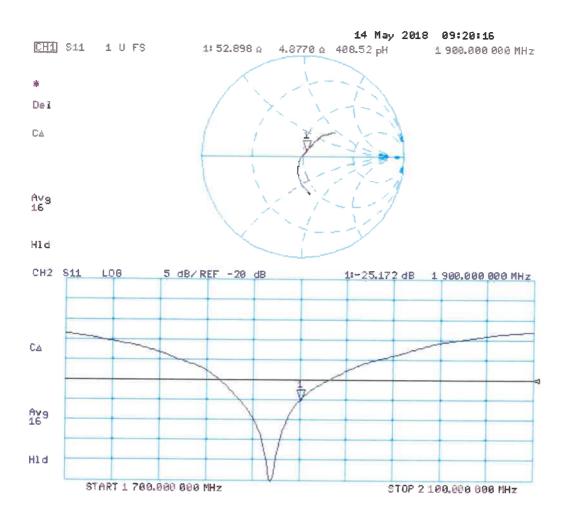
SAR(1 g) = 9.73 W/kg; SAR(10 g) = 5.18 W/kg

Maximum value of SAR (measured) = 14.9 W/kg



0 dB = 14.9 W/kg = 11.73 dBW/kg

# Impedance Measurement Plot for Head TSL



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

Date: 14.05.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d228

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz;  $\sigma = 1.46 \text{ S/m}$ ;  $\varepsilon_r = 55.3$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### **DASY52 Configuration:**

Probe: EX3DV4 - SN7349; ConvF(8.15, 8.15, 8.15) @ 1900 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:

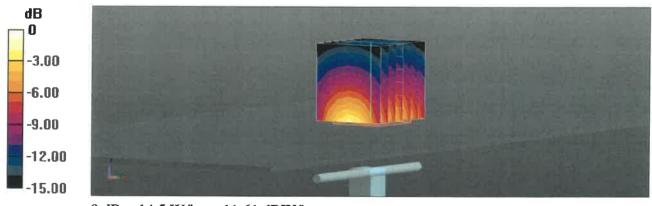
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 104.6 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 16.8 W/kg

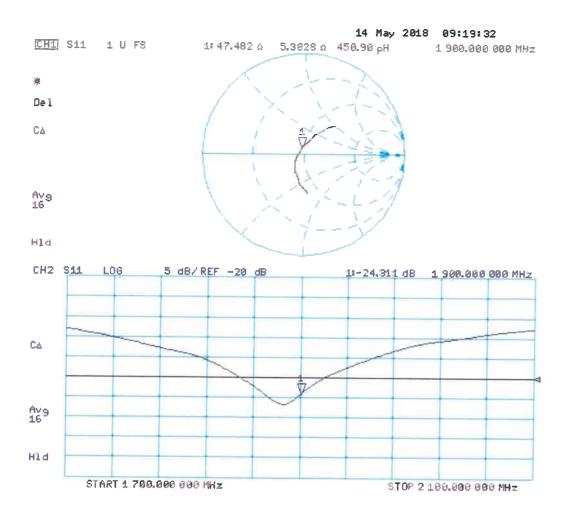
SAR(1 g) = 9.68 W/kg; SAR(10 g) = 5.21 W/kg

Maximum value of SAR (measured) = 14.5 W/kg



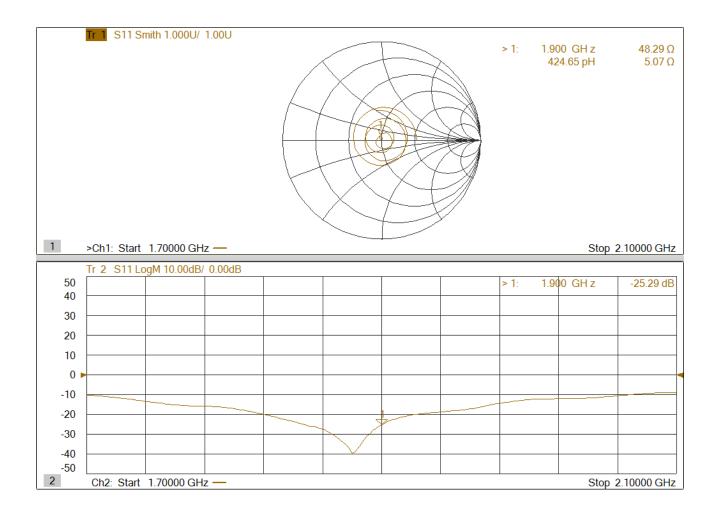
0 dB = 14.5 W/kg = 11.61 dBW/kg

# Impedance Measurement Plot for Body TSL



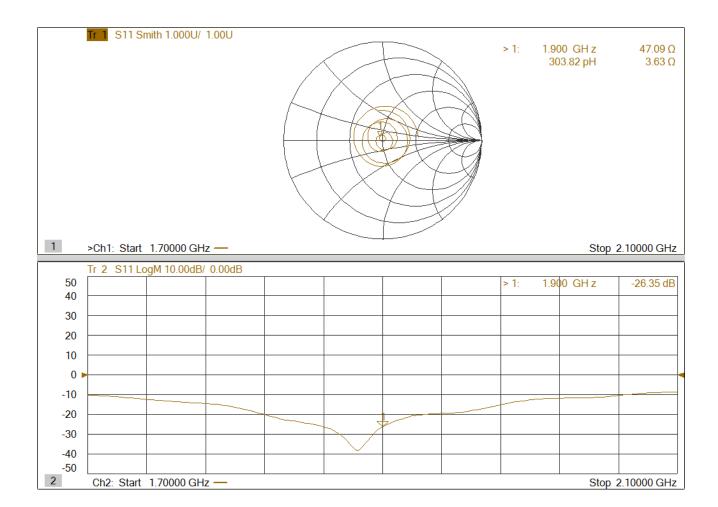


Return Loss and Impedance Indicated By Head Tissue					
Meas. Items	s. Items Original Value Current Value Deviation				
Return Loss(dB)	-25.172	-25.29	-0.47%		
Impedance	50,0000 . 4,077;0	40,000 . 5,07:0	-4.608Ω	0.193Ω	
Impedance	52.898Ω + 4.877jΩ	48.29Ω + 5.07jΩ	Real part	Imaginary part	
Test Date:	2019/05/13				





Return Loss and Impedance Indicated By Body Tissue					
Meas. Items	Original Value Current Value Deviation				
Return Loss(dB)	-24.311	-26.35	-8.39%		
lmnadanaa	47 4000 - 5 000:0	47.000 . 2.000	-0.392Ω	-1.753Ω	
Impedance	$47.482\Omega + 5.383j\Omega$	47.09Ω + 3.63jΩ	Real part	lmaginary part	
Test Date:	2019/05/13				







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Accreditation No.: SCS 0108

Client

MRT-CQC (Auden)

Certificate No: D2450V2-1013\_May18

# CALIBRATION CERTIFICATE

Object

D2450V2 - SN:1013

Calibration procedure(s)

QA CAL-05.v10

Calibration procedure for dipole validation kits above 700 MHz

Calibration date:

May 09, 2018

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-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)	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-17)	In house check: Oct-18
	Name	Function	Signature
Calibrated by:	Manu Seitz	Laboratory Technician	Enth.
Approved by:	Katja Pokovic	Taskminal Standard	Som
deleterated that	raija Forovic	Technical Manager	6814

Issued: May 9, 2018

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Certificate No: D2450V2-1013\_May18

# Calibration Laboratory of Schmid & Partner

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





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Swiss Calibration Service

Accreditation No.: SCS 0108

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Glossary:

TSL

tissue simulating liquid

ConvF N/A

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

Calibration is Performed According to the Following Standards:

 a) 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%.

Certificate No: D2450V2-1013\_May18

#### **Measurement Conditions**

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

DASY Version	DASY5	V52.10.1
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	38.3 ± 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	13.3 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.1 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	6.18 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	52.5 ± 6 %	2.01 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	12.8 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.4 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	5.96 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23.6 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	53.3 Ω + 2.4 jΩ	
Return Loss	- 28.0 dB	

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

Impedance, transformed to feed point	49.8 Ω + 3.9 jΩ	
Return Loss	- 28.2 dB	

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

Electrical Delay (one direction) 1.156 ns	Electrical Delay (one direction)	1.156 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	October 17, 2017	

Certificate No: D2450V2-1013\_May18

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

Date: 09.05.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:1013

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

Medium parameters used: f = 2450 MHz;  $\sigma = 1.86$  S/m;  $\epsilon_r = 38.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

#### **DASY52 Configuration:**

Probe: EX3DV4 - SN7349; ConvF(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:

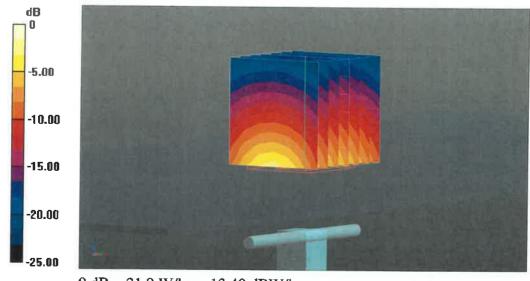
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 116.1 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 26.6 W/kg

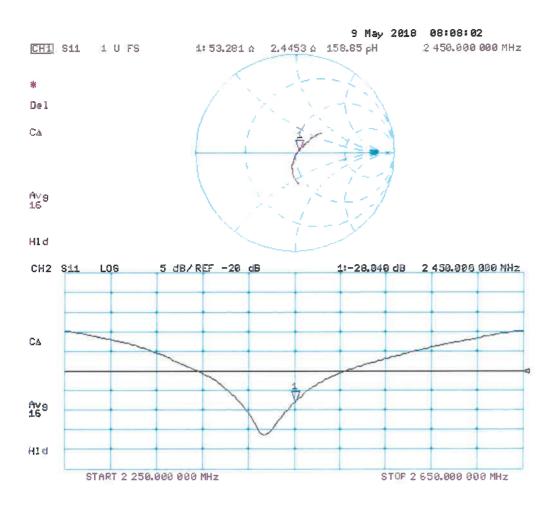
SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.18 W/kg

Maximum value of SAR (measured) = 21.9 W/kg



0 dB = 21.9 W/kg = 13.40 dBW/kg

# Impedance Measurement Plot for Head TSL



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

Date: 09.05.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:1013

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

Medium parameters used: f = 2450 MHz;  $\sigma$  = 2.01 S/m;  $\epsilon_r$  = 52.5;  $\rho$  = 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) @ 2450MHz; 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:

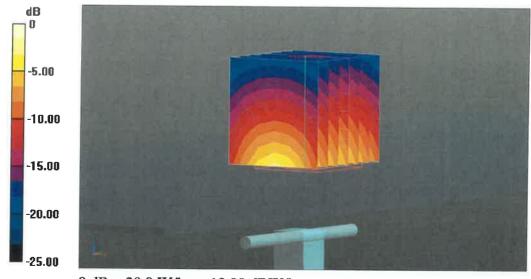
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 107.1 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 25.3 W/kg

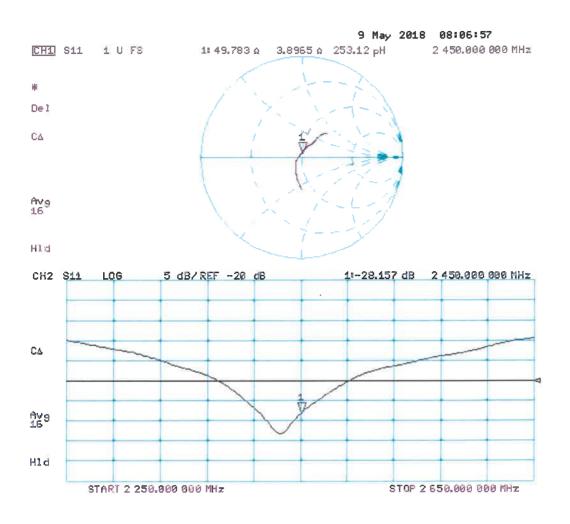
SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.96 W/kg

Maximum value of SAR (measured) = 20.9 W/kg



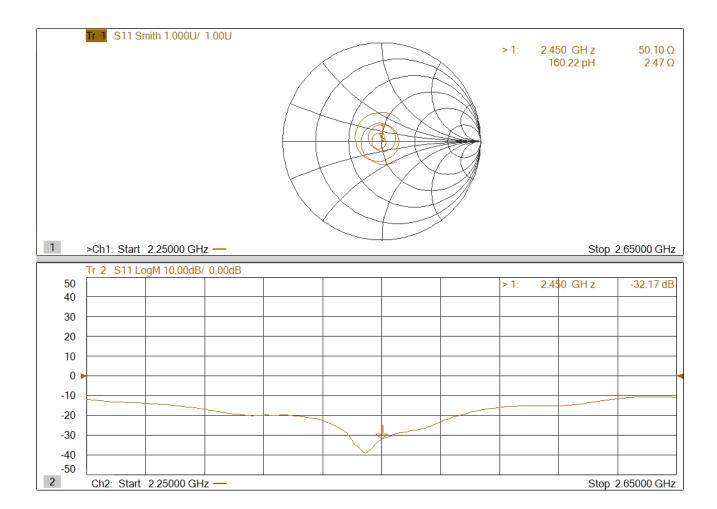
0 dB = 20.9 W/kg = 13.20 dBW/kg

# Impedance Measurement Plot for Body TSL



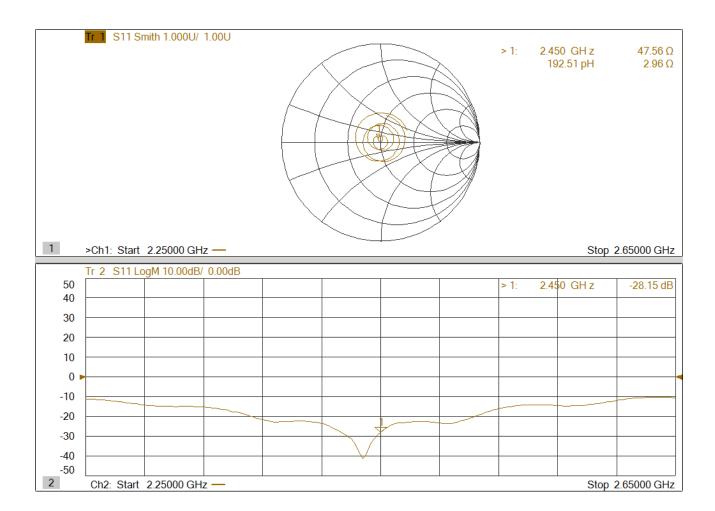


Return Loss and Impedance Indicated By Head Tissue				
Meas. Items	Original Value	Current Value	rrent Value Deviation	
Return Loss(dB)	-28.040	-32.17	-14.73%	
Impedance	52 204O + 2 445iO	50 400 + 0 4750	-3.181Ω	0.025Ω
Impedance	$53.281\Omega + 2.445j\Omega$	50.10Ω + 2.47jΩ	Real part	lmaginary part
Test Date:	2019/05/13			





Return Loss and Impedance Indicated By Body Tissue				
Meas. Items	Original Value	Current Value Deviation		
Return Loss(dB)	-28.157	-28.15	-0.01%	
Impodonos	40.7000 + 0.00710	47.500 0.000	-2.223Ω	-0.937Ω
Impedance	$49.783\Omega + 3.897j\Omega$	47.56Ω + 2.96jΩ	Real part	Imaginary part
Test Date:	2019/05/13			







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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

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Client

MRT (Auden)

Certificate No: DAE4-1552\_May19

# CALIBRATION CERTIFICATE

Object

DAE4 - SD 000 D04 BN - SN: 1552

Calibration procedure(s)

QA CAL-06.v29

Calibration procedure for the data acquisition electronics (DAE)

Calibration date:

May 23, 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 ( $22 \pm 3$ )°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	03-Sep-18 (No:23488)	Sep-19
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	07-Jan-19 (in house check)	In house check: Jan-20
Calibrator Box V2.1	SE UMS 006 AA 1002	07-Jan-19 (in house check)	In house check: Jan-20

Calibrated by:

Name

Function

Signature

Adrian Gehring

Laboratory Technician

Approved by:

Sven Kühn

Deputy Manager

Issued: May 23, 2019

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Certificate No: DAE4-1552\_May19

Page 1 of 5

#### **Calibration Laboratory of**

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Zeughausstrasse 43, 8004 Zurich, Switzerland





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Accreditation No.: SCS 0108

#### Glossary

DAE

data acquisition electronics

Connector angle

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

coordinate system.

#### Methods Applied and Interpretation of Parameters

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

# **DC Voltage Measurement**

A/D - Converter Resolution nominal

High Range:

1LSB =

 $\begin{array}{lll} \text{6.1}\mu\text{V} \;, & \text{full range} = & \text{-100...+300 mV} \\ \text{61nV} \;, & \text{full range} = & \text{-1......+3mV} \end{array}$ 

Low Range:

1LSB =

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

Calibration Factors	х	Y	Z
High Range	404.579 ± 0.02% (k=2)	404.484 ± 0.02% (k=2)	404.630 ± 0.02% (k=2)
Low Range	3.93628 ± 1.50% (k=2)	3.95953 ± 1.50% (k=2)	4.01222 ± 1.50% (k=2)

# **Connector Angle**

Connector Angle to be used in DASY system	26.5 ° ± 1 °
---	--------------

Certificate No: DAE4-1552\_May19

# Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	199995.13	0.12	0.00
Channel X	+ Input	20002.66	1.26	0.01
Channel X	- Input	-19996.23	5.48	-0.03
Channel Y	+ Input	199994.17	-0.76	-0.00
Channel Y	+ Input	19999.89	-1.47	-0.01
Channel Y	- Input	-20002.54	-0.69	0.00
Channel Z	+ Input	199993.54	-1.05	-0.00
Channel Z	+ Input	20000.66	-0.70	-0.00
Channel Z	- Input	-20001.69	0.25	-0.00

Low Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	2001.40	0.56	0.03
Channel X	+ Input	201.22	-0.04	-0.02
Channel X	- Input	-198.22	0.45	-0.23
Channel Y	+ Input	2000.75	-0.01	-0.00
Channel Y	+ Input	200.43	-0.70	-0.35
Channel Y	- Input	-199.89	-1.26	0.63
Channel Z	+ Input	2000.99	0.34	0.02
Channel Z	+ Input	199.89	-1.10	-0.55
Channel Z	- Input	-199.64	-0.85	0.43

2. Common mode sensitivity

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

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	14.99	12.84
	- 200	-10.83	-12.99
Channel Y	200	-9.36	-9.74
	- 200	8.80	8.10
Channel Z	200	5.14	4.71
	- 200	-5.91	-6.28

# 3. Channel separation

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

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	0.24	-3.62
Channel Y	200	8.27	-	2.69
Channel Z	200	9.81	5.20	-

4. AD-Converter Values with inputs shorted

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

	High Range (LSB)	Low Range (LSB)
Channel X	16462	15769
Channel Y	16050	16817
Channel Z	15875	17098

5. Input Offset Measurement

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

Input 10MΩ

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	1.03	-0.94	2.70	0.65
Channel Y	-0.72	-2.21	1.60	0.65
Channel Z	0.28	-1.43	2.03	0.69

6. Input Offset Current

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

7. Input Resistance (Typical values for information)

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

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

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

9. Power Consumption (Typical values for information)

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





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Client

MRT-CQC (Auden)

Certificate No: EX3-7524\_Apr19

# **CALIBRATION CERTIFICATE**

Object

EX3DV4 - SN:7524

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

Calibration date:

April 18, 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: Claudio Leubler Laboratory Technician

Approved by:

Katja Pokovic

Technical Manager

Issued: April 19, 2019

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Certificate No: EX3-7524\_Apr19

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Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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Glossary:

TSL NORMx,y,z

tissue simulating liquid sensitivity in free space

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

CF

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., 9 = 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 E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (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).

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# DASY/EASY - Parameters of Probe: EX3DV4 - SN:7524

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) <sup>2</sup> ) <sup>A</sup>	0.44	0.46	0.47	± 10.1 %
DCP (mV) <sup>B</sup>	97.0	98.1	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	X	0.00	0.00	1.00	0.00	148.6	± 3.5 %	± 4.7 %
	VS.	Y	0.00	0.00	1.00		131.3	1	
		Z	0.00	0.00	1.00		133.2	1	
10352-	Pulse Waveform (200Hz, 10%)	X	1.35	60.41	7.20	10.00	60.0	± 3.0 %	± 9.6 %
AAA		Y	2.07	63.89	8.74		60.0		
		Z	1.73	62.76	8.57		60.0		
10353-	Pulse Waveform (200Hz, 20%)	X	0.75	60.19	5.75	6.99	80.0	± 1.9 %	± 9.6 %
AAA		Y	0.87	60.77	6.30		80.0		
		Z	1.04	62.38	7.13		80.0		
10354-	Pulse Waveform (200Hz, 40%)	X	0.35	60.00	4.10	3.98	95.0	± 2.0 %	± 9.6 %
AAA		Y	0.40	60.00	4.89		95.0		
		Z	0.36	60.00	4.50		95.0		
10355-	Pulse Waveform (200Hz, 60%)	X	1.84	380.05	56.24	2.22	120.0	± 1.3 %	± 9.6 %
AAA		Y	0.23	60.00	4.09		120.0		
		Z	0.27	60.00	2.82		120.0		
10387-	QPSK Waveform, 1 MHz	X	0.41	60.00	5.01	0.00	150.0	± 3.7 %	± 9.6 %
AAA		Υ	0.42	60.00	5.21		150.0		
		Z	0.40	60.00	4.38		150.0		
10388-	QPSK Waveform, 10 MHz	X	2.19	69.79	16.89	0.00	150.0	± 1.0 %	± 9.6 %
AAA		Y	2.15	69.10	16.50		150.0		
		Z	1.93	67.28	15.30		150.0		
10396-	64-QAM Waveform, 100 kHz	X	2.06	66.40	17.09	3.01	150.0	± 1.7 %	± 9.6 %
AAA		Y	2.42	69.67	18.64		150.0		
		Z	2.13	66.48	17.02		150.0		
10399-	64-QAM Waveform, 40 MHz	X	3.44	67.69	16.26	0.00	150.0	± 2.2 %	± 9.6 %
AAA		Y	3.45	67.55	16.14		150.0		
		Z	3.32	66.78	15.64		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.63	66.01	15.88	0.00	150.0	± 4.0 %	± 9.6 %
AAA		Υ	4.68	66.13	15.89		150.0		
		Z	4.59	65.70	15.64		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%.

Numerical linearization parameter: uncertainty not required.

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

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

# DASY/EASY - Parameters of Probe: EX3DV4 - SN:7524

#### **Sensor Model Parameters**

	C1	C2	α	T1	T2	Т3	T4	T5	T6
	fF	fF	V-1	ms.V <sup>-2</sup>	ms.V⁻¹	ms	V-2	V-1	
X	28.5	214.24	36.07	0.92	0.00	4.99	0.00	0.25	1.00
Υ	28.0	210.24	35.90	4.46	0.00	4.98	1.30	0.03	1.00
Z	28.2	218.49	37.93	2.50	0.00	5.04	0.00	0.29	1.01

#### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	92.5
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

# DASY/EASY - Parameters of Probe: EX3DV4 - SN:7524

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

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
450	43.5	0.87	10.90	10.90	10.90	0.14	1.30	± 13.3 %
750	41.9	0.89	10.35	10.35	10.35	0.56	0.80	± 12.0 %
850	41.5	0.92	9.90	9.90	9.90	0.56	0.80	± 12.0 %
1750	40.1	1.37	8.60	8.60	8.60	0.31	0.85	± 12.0 %
1900	40.0	1.40	8.25	8.25	8.25	0.34	0.85	± 12.0 %
2450	39.2	1.80	7.50	7.50	7.50	0.41	0.90	± 12.0 %
2600	39.0	1.96	7.30	7.30	7.30	0.42	0.90	± 12.0 %
3500	37.9	2.91	7.15	7.15	7.15	0.25	1.20	± 13.1 %
3700	37.7	3.12	6.90	6.90	6.90	0.25	1.20	± 13.1 %
5250	35.9	4.71	5.19	5.19	5.19	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	4.95	4.95	4.95	0.40	1.80	± 13.1 %

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

F 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.

The Sure of Sara values. At frequencies above 3 of the first the ConvF uncertainty for indicated target tissue parameters, 

Galpha/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.

### DASY/EASY - Parameters of Probe: EX3DV4 - SN:7524

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

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
450	56.7	0.94	11.10	11.10	11.10	0.08	1.30	± 13.3 %
750	55.5	0.96	10.56	10.56	10.56	0.47	0.80	± 12.0 %
850	55.2	0.99	10.30	10.30	10.30	0.39	0.88	± 12.0 %
1750	53.4	1.49	8.25	8.25	8.25	0.37	0.86	± 12.0 %
1900	53.3	1.52	7.85	7.85	7.85	0.35	0.88	± 12.0 %
2450	52.7	1.95	7.52	7.52	7.52	0.31	0.95	± 12.0 %
2600	52.5	2.16	7.48	7.48	7.48	0.22	1.05	± 12.0 %
3500	51.3	3.31	6.98	6.98	6.98	0.25	1.20	± 13.1 %
3700	51.0	3.55	6.95	6.95	6.95	0.20	1.25	± 13.1 %
5250	48.9	5.36	5.05	5.05	5.05	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.40	4.40	4.40	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.45	4.45	4.45	0.50	1.90	± 13.1 %

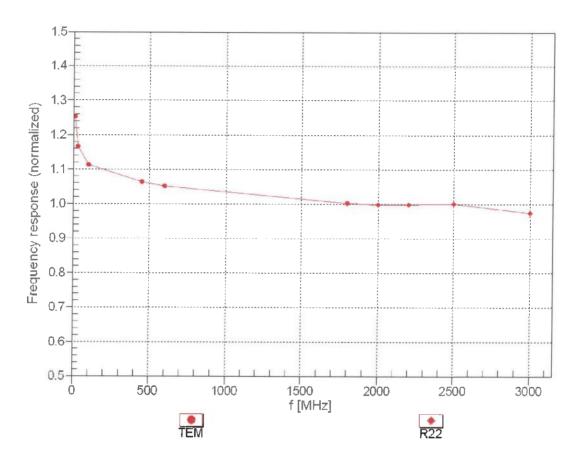
<sup>&</sup>lt;sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency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

F 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.

Galpha/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)

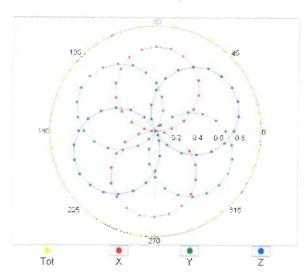


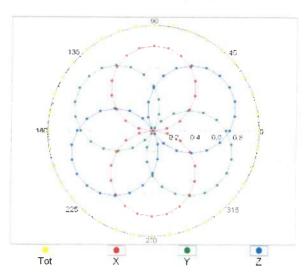
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

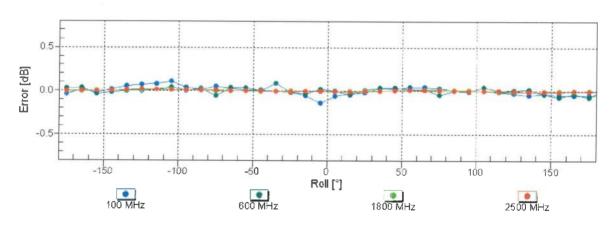
# Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

f=600 MHz,TEM

f=1800 MHz,R22

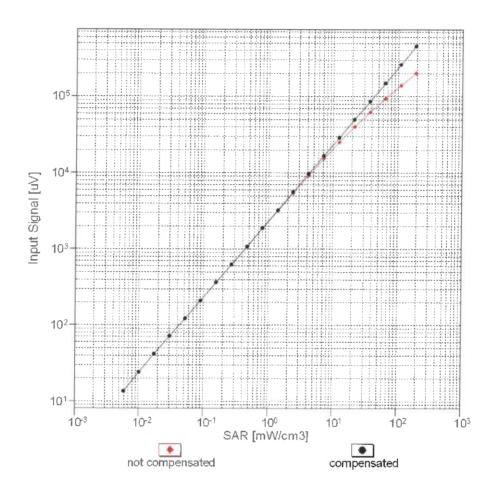


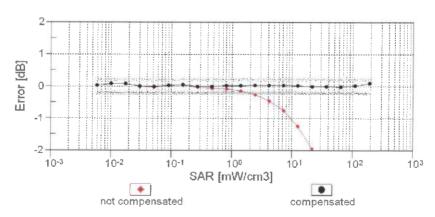




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

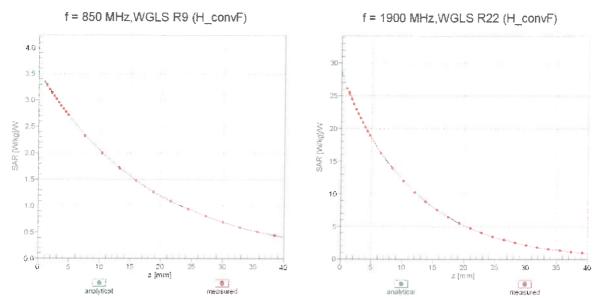
# Dynamic Range f(SAR<sub>head</sub>) (TEM cell , f<sub>eval</sub>= 1900 MHz)



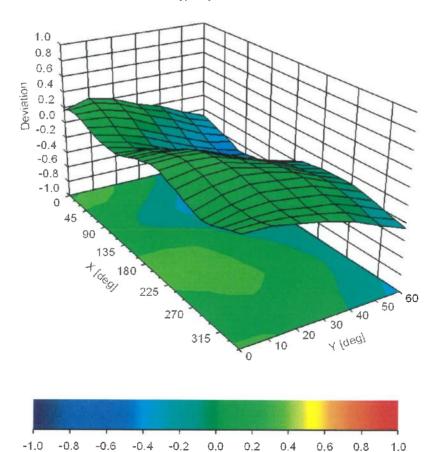


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

# **Conversion Factor Assessment**



**Deviation from Isotropy in Liquid** Error  $(\phi, \vartheta)$ , f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

0.6

0.8

EX3DV4-- SN:7524

# **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	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 (Pl/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 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.17	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.10	
10039	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)		7.78	± 9.6 %
10042	CAA		AMPS		± 9.6 %
10044		IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
	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 %
0077	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 %
0090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
0098	CAB	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %
0099	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)			
10102	ÇAE		LTE-FDD	6.42	± 9.6 %
10102	CAG	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-TOD	9.29	± 9.6 %
0104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TOD	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 %

10111	40400	0.40	LTE EDD (00 EDMA 4000/ DD 40 MH= 40 0444)	LTEEDD	0.40	1000/
10111	10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
101112   CAG   LTE-FDD (SC-FDMA, 100% RB, 50 MHz, 64-CAM)   LTE-FDD   6.69   ±9.6%						
10113						
10115   CAC   IEEE 802.11n (HT Greenfield, 315 Mbps, BPSK)						
10116   CAC   IEEE 802.11n (HT Greenfield, 131 Mbps, 16-CAM)						_
10111						
10111		+				
10119						
10149						
10141						
10141   CAE   LTE-FDD   (SC-FDMA 100% RB, 15 MHz, 64-CAM)   LTE-FDD   6.53   ±9.6 %   10143   CAE   LTE-FDD   (SC-FDMA 100% RB, 3 MHz, 16-CAM)   LTE-FDD   6.35   ±9.6 %   10143   CAE   LTE-FDD   (SC-FDMA 100% RB, 3 MHz, 64-CAM)   LTE-FDD   6.35   ±9.6 %   10144   CAE   LTE-FDD   (SC-FDMA 100% RB, 3 MHz, 64-CAM)   LTE-FDD   6.55   ±9.6 %   10145   CAF   LTE-FDD   (SC-FDMA 100% RB, 14 MHz, 6PSK)   LTE-FDD   6.41   ±9.6 %   10146   CAF   LTE-FDD   (SC-FDMA 100% RB, 14 MHz, 6PSK)   LTE-FDD   6.41   ±9.6 %   10149   CAE   LTE-FDD   (SC-FDMA 100% RB, 14 MHz, 64-CAM)   LTE-FDD   6.41   ±9.6 %   10149   CAE   LTE-FDD   (SC-FDMA 50% RB, 20 MHz, 64-CAM)   LTE-FDD   6.42   ±9.6 %   10149   CAE   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   6.42   ±9.6 %   10151   CAG   LTE-FDD   (SC-FDMA 50% RB, 20 MHz, 64-CAM)   LTE-FDD   6.42   ±9.6 %   10151   CAG   LTE-FDD   (SC-FDMA 50% RB, 20 MHz, 16-CAM)   LTE-FDD   9.28   ±9.6 %   10153   CAG   LTE-FDD   (SC-FDMA 50% RB, 20 MHz, 16-CAM)   LTE-TDD   9.28   ±9.6 %   10153   CAG   LTE-FDD   (SC-FDMA 50% RB, 20 MHz, 16-CAM)   LTE-TDD   9.28   ±9.6 %   10155   CAG   LTE-FDD   (SC-FDMA 50% RB, 20 MHz, 16-CAM)   LTE-FDD   10.05   ±9.6 %   10155   CAG   LTE-FDD   (SC-FDMA 50% RB, 10 MHz, 16-CAM)   LTE-FDD   10.05   ±9.6 %   10155   CAG   LTE-FDD   (SC-FDMA 50% RB, 10 MHz, 16-CAM)   LTE-FDD   6.43   ±9.6 %   10156   CAG   LTE-FDD   (SC-FDMA 50% RB, 10 MHz, 16-CAM)   LTE-FDD   6.43   ±9.6 %   10156   CAG   LTE-FDD   (SC-FDMA 50% RB, 10 MHz, 16-CAM)   LTE-FDD   6.42   ±9.6 %   10156   CAG   LTE-FDD   (SC-FDMA 50% RB, 15 MHz, 16-CAM)   LTE-FDD   6.42   ±9.6 %   10156   CAG   LTE-FDD   (SC-FDMA 50% RB, 15 MHz, 16-CAM)   LTE-FDD   6.42   ±9.6 %   10156   CAG   LTE-FDD   (SC-FDMA 50% RB, 15 MHz, 16-CAM)   LTE-FDD   6.49   ±9.6 %   10156   CAG   LTE-FDD   (SC-FDMA 50% RB, 15 MHz, 16-CAM)   LTE-FDD   6.52   ±9.6 %   10156   CAG   LTE-FDD   (SC-FDMA 50% RB, 15 MHz, 16-CAM)   LTE-FDD   6.52   ±9.6 %   10					_	
10143   CAE   LTE-FDD   (SC-FDMA 100% RB, 3 MHz, QPSK)   LTE-FDD   5.73   ±9.6 %   10144   CAE   LTE-FDD   (SC-FDMA 100% RB, 3 MHz, GPSK)   LTE-FDD   6.65   ±9.6 %   10145   CAE   LTE-FDD   (SC-FDMA 100% RB, 3 MHz, G4-CAM)   LTE-FDD   6.65   ±9.6 %   10146   CAF   LTE-FDD   (SC-FDMA 100% RB, 14 MHz, QPSK)   LTE-FDD   6.65   ±9.6 %   10147   CAF   LTE-FDD   (SC-FDMA 100% RB, 1.4 MHz, QPSK)   LTE-FDD   6.41   ±9.6 %   10147   CAF   LTE-FDD   (SC-FDMA 100% RB, 1.4 MHz, G4-CAM)   LTE-FDD   6.41   ±9.6 %   10147   CAF   LTE-FDD   (SC-FDMA, SO% RB, 2.0 MHz, 16-CAM)   LTE-FDD   6.42   ±9.6 %   10150   CAE   LTE-FDD   (SC-FDMA, SO% RB, 2.0 MHz, 64-CAM)   LTE-FDD   6.42   ±9.6 %   10150   CAE   LTE-FDD   (SC-FDMA, SO% RB, 2.0 MHz, C. OSK)   LTE-FDD   6.50   ±9.6 %   10151   CAG   LTE-TDD   (SC-FDMA, SO% RB, 2.0 MHz, C. OSK)   LTE-TDD   9.22   ±9.6 %   10152   CAG   LTE-TDD   (SC-FDMA, SO% RB, 2.0 MHz, C. OSK)   LTE-TDD   9.22   ±9.6 %   10153   CAG   LTE-TDD   (SC-FDMA, SO% RB, 2.0 MHz, L. OSK)   LTE-TDD   9.22   ±9.6 %   10154   CAG   LTE-TDD   (SC-FDMA, SO% RB, 2.0 MHz, L. G-AMM)   LTE-TDD   9.22   ±9.6 %   10155   CAG   LTE-FDD   (SC-FDMA, SO% RB, 2.0 MHz, L. G-AMM)   LTE-FDD   5.75   ±9.6 %   10156   CAG   LTE-FDD   (SC-FDMA, SO% RB, 1.0 MHz, L. G-AMM)   LTE-FDD   5.75   ±9.6 %   10155   CAG   LTE-FDD   (SC-FDMA, SO% RB, 1.0 MHz, L. G-AMM)   LTE-FDD   5.75   ±9.6 %   10156   CAG   LTE-FDD   (SC-FDMA, SO% RB, 5.0 MHz, L. G-AMM)   LTE-FDD   5.79   ±9.6 %   10157   CAG   LTE-FDD   (SC-FDMA, SO% RB, 5.0 MHz, L. G-AMM)   LTE-FDD   5.79   ±9.6 %   10158   CAG   LTE-FDD   (SC-FDMA, SO% RB, 5.0 MHz, L. G-AMM)   LTE-FDD   5.79   ±9.6 %   10159   CAG   LTE-FDD   (SC-FDMA, SO% RB, 5.0 MHz, L. G-AMM)   LTE-FDD   5.79   ±9.6 %   10159   CAG   LTE-FDD   (SC-FDMA, SO% RB, 5.0 MHz, L. G-AMM)   LTE-FDD   5.62   ±9.6 %   10160   CAE   LTE-FDD   (SC-FDMA, SO% RB, 5.0 MHz, L. G-AMM)   LTE-FDD   5.62   ±9.6 %   10160   CAE   LTE-FDD   (SC-FDMA, SO% RB, 5.0 MHz, C. GAMM)   LTE-FDD   5.62   ±9.6 %   10160   CAE   LTE-FDD   (SC-FDMA, SO%						
10144   CAE   LTE-FDD   (SC-FDMA, 100% RB, 3 MHz, 16-QAM)						
10144   CAE   LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-OAM)						
10146   CAF						
10146   CAF   LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-QAM)						
10147   CAF   LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)						
10149   CAE						
10150   CAE   LTE-FDD (SC-FDMA, 50% RB, 20 MHz, GPSK)   LTE-FDD   9.28   9.6 %						
10151   CAG   LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM)   LTE-TDD   9.28   ±9.6 %   10152   CAG   LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM)   LTE-TDD   10.05   ±9.6 %   10154   CAG   LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-OAM)   LTE-TDD   10.05   ±9.6 %   10154   CAG   LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-OAM)   LTE-FDD   5.75   ±9.6 %   10155   CAG   LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-OAM)   LTE-FDD   5.75   ±9.6 %   10156   CAG   LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-OAM)   LTE-FDD   5.79   ±9.6 %   10157   CAG   LTE-FDD (SC-FDMA, 50% RB, 50 MHz, 64-OAM)   LTE-FDD   5.79   ±9.6 %   10158   CAG   LTE-FDD (SC-FDMA, 50% RB, 50 MHz, 64-OAM)   LTE-FDD   6.49   ±9.6 %   10159   CAG   LTE-FDD (SC-FDMA, 50% RB, 50 MHz, 64-OAM)   LTE-FDD   6.49   ±9.6 %   10159   CAG   LTE-FDD (SC-FDMA, 50% RB, 50 MHz, 64-OAM)   LTE-FDD   6.50   ±9.6 %   10160   CAE   LTE-FDD (SC-FDMA, 50% RB, 50 MHz, 64-OAM)   LTE-FDD   5.79   ±9.6 %   101610   CAE   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-OAM)   LTE-FDD   5.80   ±9.6 %   10162   CAE   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-OAM)   LTE-FDD   5.80   ±9.6 %   10166   CAF   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-OAM)   LTE-FDD   6.56   ±9.6 %   10166   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 0PSK)   LTE-FDD   5.86   ±9.6 %   10166   CAF   LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 0PSK)   LTE-FDD   5.86   ±9.6 %   10168   CAF   LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-OAM)   LTE-FDD   5.73   ±9.6 %   10169   CAE   LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-OAM)   LTE-FDD   5.73   ±9.6 %   10169   CAE   LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-OAM)   LTE-FDD   5.73   ±9.6 %   10169   CAE   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0PSK)   LTE-FDD   5.73   ±9.6 %   10170   CAG   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0PSK)   LTE-FDD   5.73   ±9.6 %   10170   CAG   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0PSK)   LTE-FDD   5.73   ±9.6 %   10170   CAG   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0PSK)   LTE-FDD   5.73   ±9.6 %   10170   CAG   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 0PSK)   LTE-FDD   5.73   ±9.6 %   10170   CAG   LTE-FDD (SC-FDMA, 1 RB, 50 MHz,						
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, 20 MHz, 64-QAM)   LTE-FDD   10.05   ± 9.6 %   10155   CAG   LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-FDD   6.73   ± 9.6 %   10155   CAG   LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-FDD   6.79   ± 9.6 %   10156   CAG   LTE-FDD (SC-FDMA, 50% RB, 50 MHz, 04-QAM)   LTE-FDD   6.79   ± 9.6 %   10157   CAG   LTE-FDD (SC-FDMA, 50% RB, 50 MHz, 04-QAM)   LTE-FDD   6.40   ± 9.6 %   10158   CAG   LTE-FDD (SC-FDMA, 50% RB, 50 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   CAG   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 04-QAM)   LTE-FDD   6.56   ± 9.6 %   101610   CAG   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 04-QAM)   LTE-FDD   6.56   ± 9.6 %   101610   CAE   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 04-QAM)   LTE-FDD   6.56   ± 9.6 %   101610   CAE   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 04-QAM)   LTE-FDD   6.58   ± 9.6 %   10166   CAE   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 04-QAM)   LTE-FDD   6.58   ± 9.6 %   10166   CAF   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 04-QAM)   LTE-FDD   6.58   ± 9.6 %   10166   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 04-QAM)   LTE-FDD   6.58   ± 9.6 %   10166   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 04-QAM)   LTE-FDD   6.79   ± 9.6 %   10167   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 04-QAM)   LTE-FDD   6.79   ± 9.6 %   10170   CAE   LTE-FDD (SC-FDMA, 17 RB, 20 MHz, 04-QAM)   LTE-FDD   6.79   ± 9.6 %   10171   CAG   LTE-FDD (SC-FDMA, 17 RB, 20 MHz, 04-QAM)   LTE-FDD   6.79   ± 9.6 %   10171   CAG   LTE-FDD (SC-FDMA, 17 RB, 20 MHz, 04-QAM)   LTE-FDD   6.52   ± 9.6 %   10171   CAG   LTE-FDD (SC-FDMA, 17 RB, 20 MHz, 04-QAM)   LTE-FDD   6.52   ± 9.6 %   10172   CAG   LTE-FDD (SC-FDMA, 17 RB, 20 MHz, 04-QAM)   LTE-FDD   6.52   ± 9.6 %   10173   CAG   LTE-FDD (SC-FDMA, 17 RB, 20 MHz, 04-QAM)   LTE-FDD   6.52   ± 9.6 %   10173   CAG   LTE-FDD (SC-FDMA, 17 RB, 10 MHz, 04-QAM)   LTE-FDD   6.52   ± 9.6 %   10174						
10153   CAG   LTE-TDD (SC-FDMA, 50% RB, 20 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, 10 MHz, 16-QAM)   LTE-FDD   5.79   ±9.6 %   10156   CAG   LTE-FDD (SC-FDMA, 50% RB, 50 MHz, QPSK)   LTE-FDD   5.79   ±9.6 %   10157   CAG   LTE-FDD (SC-FDMA, 50% RB, 50 MHz, 16-QAM)   LTE-FDD   5.79   ±9.6 %   10158   CAG   LTE-FDD (SC-FDMA, 50% RB, 50 MHz, 16-QAM)   LTE-FDD   6.49   ±9.6 %   10159   CAG   LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-FDD   6.50   ±9.6 %   10159   CAG   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)   LTE-FDD   6.50   ±9.6 %   10160   CAE   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)   LTE-FDD   5.72   ±9.6 %   10161   CAE   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-FDD   6.54   ±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, 15 MHz, 64-QAM)   LTE-FDD   6.58   ±9.6 %   10166   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 64-QAM)   LTE-FDD   6.58   ±9.6 %   10166   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 64-QAM)   LTE-FDD   5.73   ±9.6 %   10169   CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 16-QAM)   LTE-FDD   5.74   ±9.6 %   10169   CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 16-QAM)   LTE-FDD   5.73   ±9.6 %   10170   CAE   LTE-FDD (SC-FDMA, 15 MRz, QPSK)   LTE-FDD   5.73   ±9.6 %   10171   CAE   LTE-FDD (SC-FDMA, 15 MRz, QPSK)   LTE-FDD   5.73   ±9.6 %   10171   CAE   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)   LTE-FDD   5.73   ±9.6 %   10173   CAG   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)   LTE-FDD   5.73   ±9.6 %   10173   CAG   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)   LTE-FDD   5.72   ±9.6 %   10173   CAG   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)   LTE-FDD   5.72   ±9.6 %   10173   CAG   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)   LTE-FDD   5.72   ±9.6 %   10173   CAG   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)   LTE-FDD   5.72   ±9.6 %   10173   CAG   LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 10-QAM)   LTE-FDD					+	
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 %   10157   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, QPSK)   LTE-FDD   6.49   ±9.6 %   10158   CAG   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-FDD   6.49   ±9.6 %   10159   CAG   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-FDD   6.56   ±9.6 %   10160   CAE   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 26+QAM)   LTE-FDD   6.56   ±9.6 %   10161   CAE   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 26+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, 15 MHz, 64-QAM)   LTE-FDD   6.58   ±9.6 %   10166   CAF   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-FDD   6.58   ±9.6 %   10166   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 64-QAM)   LTE-FDD   6.58   ±9.6 %   10166   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 64-QAM)   LTE-FDD   6.59   ±9.6 %   10168   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 64-QAM)   LTE-FDD   6.21   ±9.6 %   10168   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 64-QAM)   LTE-FDD   6.21   ±9.6 %   10169   CAE   LTE-FDD (SC-FDMA, 16% RB, 20 MHz, QPSK)   LTE-FDD   6.79   ±9.6 %   10171   CAE   LTE-FDD (SC-FDMA, 17 RB, 20 MHz, GPSK)   LTE-FDD   6.79   ±9.6 %   10173   CAG   LTE-FDD (SC-FDMA, 17 RB, 20 MHz, QPSK)   LTE-FDD   6.52   ±9.6 %   10173   CAG   LTE-FDD (SC-FDMA, 17 RB, 20 MHz, QPSK)   LTE-TDD   9.21   ±9.6 %   10173   CAG   LTE-FDD (SC-FDMA, 17 RB, 20 MHz, QPSK)   LTE-TDD   9.21   ±9.6 %   10173   CAG   LTE-FDD (SC-FDMA, 17 RB, 20 MHz, QPSK)   LTE-FDD   6.52   ±9.6 %   10174   CAG   LTE-FDD (SC-FDMA, 17 RB, 20 MHz, QPSK)   LTE-FDD   6.52   ±9.6 %   10175   CAG   LTE-FDD (SC-FDMA, 17 RB, 20 MHz, QPSK)   LTE-FDD   6.52   ±9.6 %   10176   CAG   LTE-FDD (SC-FDMA, 17 RB, 10 MHz, QPSK)   LTE-FDD   6.52   ±9.6 %   10176   CAG   LTE-FDD (SC-FDMA, 17 RB, 10 MHz, QPSK)   LTE-FDD						± 9.6 %
10155   CAG   LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-FDD   5.79   ±9.6 %   10156   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, 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 %   10160   CAE   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 40-QAM)   LTE-FDD   5.82   ±9.6 %   10161   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   5.40   ±9.6 %   10162   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, 1.4 MHz, 0PSK)   LTE-FDD   5.46   ±9.6 %   10167   CAE   LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 0PSK)   LTE-FDD   5.46   ±9.6 %   10168   CAF   LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)   LTE-FDD   6.21   ±9.6 %   10169   CAE   LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)   LTE-FDD   6.79   ±9.6 %   10169   CAE   LTE-FDD (SC-FDMA, 18R, 20 MHz, 16-QAM)   LTE-FDD   6.79   ±9.6 %   10170   CAE   LTE-FDD (SC-FDMA, 18R, 20 MHz, 16-QAM)   LTE-FDD   6.52   ±9.6 %   10171   AAE   LTE-FDD (SC-FDMA, 1RB, 20 MHz, 16-QAM)   LTE-FDD   6.52   ±9.6 %   10172   CAG   LTE-TDD (SC-FDMA, 1RB, 20 MHz, 16-QAM)   LTE-FDD   6.52   ±9.6 %   10173   CAG   LTE-TDD (SC-FDMA, 1RB, 20 MHz, 16-QAM)   LTE-FDD   9.21   ±9.6 %   10173   CAG   LTE-TDD (SC-FDMA, 1RB, 20 MHz, 16-QAM)   LTE-FDD   5.73   ±9.6 %   10175   CAG   LTE-TDD (SC-FDMA, 1RB, 20 MHz, 16-QAM)   LTE-FDD   5.73   ±9.6 %   10175   CAG   LTE-FDD (SC-FDMA, 1RB, 10 MHz, 16-QAM)   LTE-FDD   5.73   ±9.6 %   10175   CAG   LTE-FDD (SC-FDMA, 1RB, 10 MHz, 16-QAM)   LTE-FDD   5.73   ±9.6 %   10180   CAG   LTE-FDD (SC-FDMA, 1RB, 10 MHz, 16-QAM)   LTE-FDD   5.72   ±9.6 %   10183   CAC   LTE-FDD (SC-FDMA, 1RB, 5 MHz, 40-QAM)   LTE-FDD   6.52   ±9.6 %   10183   CAC   LTE-FDD (SC-FDMA, 1RB, 5 MHz, 40-QAM)   LTE-FDD		+		_		
10156   CAG   LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)   LTE-FDD   6.79   ±9.6 %   10157   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, 10 MHz, 64-QAM)   LTE-FDD   6.62   ±9.6 %   10159   CAG   LTE-FDD (SC-FDMA, 50% RB, 15 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, QPSK)   LTE-FDD   6.43   ±9.6 %   10162   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   6.58   ±9.6 %   10166   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 04-QAM)   LTE-FDD   6.59   ±9.6 %   10167   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 04-QAM)   LTE-FDD   6.21   ±9.6 %   10168   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 04-QAM)   LTE-FDD   6.21   ±9.6 %   10168   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 04-QAM)   LTE-FDD   6.21   ±9.6 %   10169   CAE   LTE-FDD (SC-FDMA, 10 MHz, 04-QAM)   LTE-FDD   6.79   ±9.6 %   10170   CAE   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM)   LTE-FDD   6.79   ±9.6 %   10171   AAE   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)   LTE-FDD   6.52   ±9.6 %   10172   CAG   LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)   LTE-FDD   6.52   ±9.6 %   10173   CAG   LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)   LTE-FDD   0.49   ±9.6 %   10174   CAG   LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM)   LTE-TDD   9.48   ±9.6 %   10175   CAG   LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM)   LTE-TDD   10.25   ±9.6 %   10176   CAG   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM)   LTE-FDD   6.52   ±9.6 %   10177   CAG   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, 04-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 %   10180   CAG   LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 04-QAM)   LTE-FDD   6.50   ±9.6 %   10184   CAE   LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 04-QAM)   LTE-FDD   6.50		+				± 9.6 %
10157   CAG	10155	CAG		LTE-FDD		
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   5.62   ± 9.6 %   10160   CAE   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-FDD   5.62   ± 9.6 %   10161   CAE   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-FDD   6.43   ± 9.6 %   10162   CAE   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-FDD   5.62   ± 9.6 %   10166   CAF   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, QPSK)   LTE-FDD   5.46   ± 9.6 %   10166   CAF   LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   LTE-FDD   5.46   ± 9.6 %   10168   CAF   LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, GPAM)   LTE-FDD   6.79   ± 9.6 %   10168   CAF   LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, GPAM)   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, GPSK)   LTE-FDD   5.73   ± 9.6 %   10171   AAE   LTE-FDD (SC-FDMA, 1 RB, 20 MHz, GPSK)   LTE-FDD   6.52   ± 9.6 %   10172   CAG   LTE-TDD (SC-FDMA, 1 RB, 20 MHz, GPSK)   LTE-FDD   6.52   ± 9.6 %   10173   CAG   LTE-TDD (SC-FDMA, 1 RB, 20 MHz, GPSK)   LTE-TDD   9.48   ± 9.6 %   10173   CAG   LTE-TDD (SC-FDMA, 1 RB, 20 MHz, GPSK)   LTE-TDD   9.48   ± 9.6 %   10175   CAG   LTE-TDD (SC-FDMA, 1 RB, 20 MHz, GPSK)   LTE-TDD   9.48   ± 9.6 %   10176   CAG   LTE-TDD (SC-FDMA, 1 RB, 20 MHz, GPSK)   LTE-FDD   5.72   ± 9.6 %   10176   CAG   LTE-FDD (SC-FDMA, 1 RB, 10 MHz, GPSK)   LTE-FDD   5.72   ± 9.6 %   10176   CAG   LTE-FDD (SC-FDMA, 1 RB, 10 MHz, GPSK)   LTE-FDD   5.72   ± 9.6 %   10179   CAG   LTE-FDD (SC-FDMA, 1 RB, 10 MHz, GPSK)   LTE-FDD   5.72   ± 9.6 %   10179   CAG   LTE-FDD (SC-FDMA, 1 RB, 10 MHz, GPSK)   LTE-FDD   5.72   ± 9.6 %   10180   CAG   LTE-FDD (SC-FDMA, 1 RB, 10 MHz, GPSK)   LTE-FDD   5.73   ± 9.6 %   10180   CAG   LTE-FDD (SC-FDMA, 1 RB, 10 MHz, GPSK)   LTE-FDD   5.73   ± 9.6 %   10180   CAG   LTE-FDD (SC-FDMA, 1 RB, 10 MHz, GPSK)   LTE-FDD   5.73   ± 9.6 %   10180   CAG   LTE-FDD (SC-FDMA, 1 RB, 10 MHz, GPSK)   LTE-FDD   5.73   ± 9	10156	CAG		LTE-FDD	5.79	± 9.6 %
10159	10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10160   CAE	10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10161   CAE	10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10162   CAE	10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10166	10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10167   CAF	10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10168	10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	
10169	10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	
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   5.72   ±9.6 %   10176   CAG   LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)   LTE-FDD   5.73   ±9.6 %   10178   CAG   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, 64-QAM)   LTE-FDD   6.52   ±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, GPSK)   LTE-FDD   5.72   ±9.6 %   10183   AAD   LTE-FDD (SC-FDMA, 1 RB, 15 MHz, GPSK)   LTE-FDD   5.72   ±9.6 %   10183   AAD   LTE-FDD (SC-FDMA, 1 RB, 15 MHz, GPSK)   LTE-FDD   6.50   ±9.6 %   10183   CAE   LTE-FDD (SC-FDMA, 1 RB, 15 MHz, GPSK)   LTE-FDD   6.50   ±9.6 %   10184   CAE   LTE-FDD (SC-FDMA, 1 RB, 3 MHz, GPSK)   LTE-FDD   6.50   ±9.6 %   10185   CAE   LTE-FDD (SC-FDMA, 1 RB, 3 MHz, GPSK)   LTE-FDD   6.50   ±9.6 %   10185   CAE   LTE-FDD (SC-FDMA, 1 RB, 3 MHz, GPSK)   LTE-FDD   6.50   ±9.6 %   10185   CAE   LTE-FDD (SC-FDMA, 1 RB, 3 MHz, GPSK)   LTE-FDD   6.50   ±9.6 %   10185   CAE   LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)   LTE-FDD   6.50   ±9.6 %   10185   CAE   LTE-FDD (SC-FDMA, 1 RB, 3 MHz, GPSK)   LTE-FDD   6.50   ±9.6 %   10185   CAE   LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, GPSK)   LTE-FDD   6.50   ±9.6 %   10185   CAE   LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, GPSK)   LTE-FDD   6.50   ±9.6 %   10185   CAE   LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, GPSK)   LTE-FDD   6.50   ±9.6 %   10185   CAE   LTE-FDD (SC-FDMA	10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	
10171   AAE	10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10172   CAG	10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10173   CAG	10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	± 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, 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, GPSK)         LTE-FDD         6.50         ± 9.6 %           10183         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, GPSK)         LTE-FDD	10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 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, 5 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, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         5.73         ± 9.6 %           10185         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD	10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 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, 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, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         5.73         ± 9.6 %           10185         CAE         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	10174	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, 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, 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, 16-QAM)         LTE-FDD         6.52         ± 9.6 %           10183         AAD         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         LTE-FDD         5.73         ± 9.6 %           10185         CAE         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	10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 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, 3 MHz, 64-QAM)         LTE-FDD         6.50         ± 9.6 %           10184         CAE         LTE-FDD (SC-FDMA, 1 RB, 3 MHz, GPSK)         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, 16-QAM)         LTE-FDD         6.50         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD <td></td> <td></td> <td></td> <td>LTE-FDD</td> <td>6.52</td> <td>± 9.6 %</td>				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         ± 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         5.73         ± 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 %           10199         CAC         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD </td <td>10177</td> <td>CAI</td> <td>LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)</td> <td>LTE-FDD</td> <td>5.73</td> <td>± 9.6 %</td>	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, 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         ± 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         5.73         ± 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 %           10199         CAC         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)         LTE-FDD </td <td></td> <td></td> <td></td> <td></td> <td>6.52</td> <td></td>					6.52	
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         ± 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         5.73         ± 9.6 %           10187         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, GPSK)         LTE-FDD         5.73         ± 9.6 %           10188         CAF         LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-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, 64-QAM)         WL					6.50	
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         ± 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         ± 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)				LTE-FDD	6.50	
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, 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         ± 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)         W						
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, 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         ± 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 %           10197         CAC         IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)         WLA				LTE-FDD	6.52	
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, 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         8.21         ± 9.6 %           10196         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<						
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         ± 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 Mixed, 6.5 Mbps, 64-QAM)         WLAN         8.21         ± 9.6 %           10196         CAC         IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)         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)         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         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, 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, 39 Mbps, 16-QAM)         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 %						
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, 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 %						
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         8.21         ± 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 %						
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 %						
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 %						
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 %						
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 %

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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	ÇAF	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	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, 64-QAM)	LTE-TOD	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, 10-QAM)	LTE-TDD	10.00	± 9.6 %
10209	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 04-QAM)	LTE-TDD	9.58	± 9.6 %
10270	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10273	CAA	PHS (QPSK)	PHS	11.81	± 9.6 %
10277	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10278	CAA			12.18	
		PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS		± 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 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 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	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	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
40444		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 %
		LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10447	AAD				
10447 10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	± 9.6 %
				7.53 7.51	± 9.6 % ± 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 Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
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 %

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)	WLAN	8.38	± 9.6 %
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		± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)		8.35	
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10551	AAB		WLAN	8.38	± 9.6 %
10552		IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
	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)	W LAIV	0.23	± 3.0 /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	WLAN	8.13	± 9.6 %
40507	0.0.0	cycle)			
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty	WLAN	8.00	± 9.6 %
40500		cycle)			
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty	WLAN	8.37	± 9.6 %
40500		cycle)			
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty	WLAN	8.10	± 9.6 %
10570	A A A	cycle)			
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty	WLAN	8.30	± 9.6 %
10571	111	cycle)			
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	WLAN	8.59	± 9.6 %
		cycle)			
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty	WLAN	8.60	± 9.6 %
		cycle)			
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty	WLAN	8.70	± 9.6 %
		cycle)	112.00	0.70	_ 0.0 /0
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty	WLAN	8.49	± 9.6 %
		cycle)	***************************************	0.40	2 0.0 70
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty	WLAN	8.36	± 9.6 %
	, , , ,	cycle)	44 17/14	0.50	1 3.0 %
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty	WLAN	8.76	± 9.6 %
	, , , ,	cycle)	AAPVIA	0.70	1 9.0 /0
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty	WLAN	0.25	+069/
.0001	, , , , ,	cycle)	VVLAIN	8.35	± 9.6 %
		IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty	WLAN	0.67	1000
10582	ΔΔΛ		1 MALE AND INC.	8.67	± 9.6 %
10582	AAA		VVLAIN	0.07	1
		cycle)			1000
10583	AAB	cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10583 10584	AAB AAB	cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN WLAN	8.59 8.60	± 9.6 %
10583 10584 10585	AAB AAB	cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN WLAN WLAN	8.59 8.60 8.70	± 9.6 % ± 9.6 %
10583 10584	AAB AAB	cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN WLAN	8.59 8.60	± 9.6 %

40500	1 4 4 10	JEEF COO AL ALMET COLL COEDA COAR - CO. LEGISLA	1041.001	0.70	
10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10589 10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN WLAN	8.35 8.67	± 9.6 %
10590	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN		± 9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63 8.79	±9.6 % ±9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 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 10612	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) IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.77 8.94	± 9.6 % ± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 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 10630	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 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.81 8.74	± 9.6 % ± 9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 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 10653	AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
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	± 9.6 % ± 9.6 %
10034		ETE-TOD (OF DIMA, TO WITE, E-TIM 5.1, Clipping 44%)	LIE-IDD	6.96	± 5.0 %

40055	A A C	LTE TOD (OFDIA COARL E THE A COARL	1		
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	
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)			± 9.6 %
10687	AAA	IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)	WLAN	8.28	± 9.6 %
10688	AAA	IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10689	AAA	IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)	WLAN	8.29	± 9.6 %
		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	± 9.6 %
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	
10713	AAA	IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)			± 9.6 %
10713	AAA		WLAN	8.33	± 9.6 %
		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 %
	AAA	IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10723		IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10724	AAA				
10724 10725	AAA	IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	
10724					± 9.6 % ± 9.6 %

10729   AAA   IEEE 802.11ax (80MHz, MCS11, 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     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, MCS3, 99pc duty cycle)   WLAN   8.25     10736   AAA   IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle)   WLAN   8.33     10736   AAA   IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle)   WLAN   8.27     10737   AAA   IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)   WLAN   8.27     10738   AAA   IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)   WLAN   8.42     10739   AAA   IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)   WLAN   8.29     10740   AAA   IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)   WLAN   8.29     10741   AAA   IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)   WLAN   8.40     10742   AAA   IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle)   WLAN   8.40     10742   AAA   IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)   WLAN   8.43     10743   AAA   IEEE 802.11ax (160MHz, MCS10, 99pc duty cycle)   WLAN   8.43     10744   AAA   IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)   WLAN   8.93     10746   AAA   IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)   WLAN   9.16     10747   AAA   IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)   WLAN   9.16     10748   AAA   IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)   WLAN   8.93     10749   AAA   IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)   WLAN   8.93     10749   AAA   IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)   WLAN   8.93     10750   AAA   IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)   WLAN   8.90     10751   AAA   IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)   WLAN   8.91     10753   AAA   IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)   WLAN   8.96     10756   AAA   IEEE 802.11ax	± 9.6 %
10731	± 9.6 %
10732	± 9.6 %
10733	± 9.6 %
10734	± 9.6 %
10735         AAA         IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle)         WLAN         8.33           10736         AAA         IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle)         WLAN         8.27           10737         AAA         IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)         WLAN         8.36           10738         AAA         IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)         WLAN         8.42           10739         AAA         IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle)         WLAN         8.29           10740         AAA         IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)         WLAN         8.48           10741         AAA         IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)         WLAN         8.49           10742         AAA         IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)         WLAN         8.43           10743         AAA         IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)         WLAN         8.94           10744         AAA         IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)         WLAN         8.94           10745         AAA         IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)         WLAN         8.93           10746         AAA         IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)         WLAN         8.91	± 9.6 %
10736         AAA         IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle)         WLAN         8.27           10737         AAA         IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)         WLAN         8.36           10738         AAA         IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)         WLAN         8.42           10739         AAA         IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)         WLAN         8.29           10740         AAA         IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)         WLAN         8.48           10741         AAA         IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)         WLAN         8.48           10742         AAA         IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)         WLAN         8.43           10743         AAA         IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)         WLAN         8.94           10744         AAA         IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)         WLAN         8.94           10745         AAA         IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)         WLAN         8.93           10746         AAA         IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)         WLAN         9.04           10747         AAA         IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)         WLAN         8.93	± 9.6 %
10737         AAA         IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)         WLAN         8.36           10738         AAA         IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)         WLAN         8.42           10739         AAA         IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle)         WLAN         8.29           10740         AAA         IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)         WLAN         8.48           10741         AAA         IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)         WLAN         8.40           10742         AAA         IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)         WLAN         8.43           10743         AAA         IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)         WLAN         8.94           10744         AAA         IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)         WLAN         9.16           10745         AAA         IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)         WLAN         8.93           10746         AAA         IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)         WLAN         9.04           10747         AAA         IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)         WLAN         8.93           10749         AAA         IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)         WLAN         8.93	± 9.6 %
10737         AAA         IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)         WLAN         8.36           10738         AAA         IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)         WLAN         8.42           10739         AAA         IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle)         WLAN         8.29           10740         AAA         IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)         WLAN         8.48           10741         AAA         IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)         WLAN         8.40           10742         AAA         IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)         WLAN         8.43           10743         AAA         IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)         WLAN         8.94           10744         AAA         IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)         WLAN         9.16           10745         AAA         IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)         WLAN         8.93           10746         AAA         IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)         WLAN         9.04           10747         AAA         IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)         WLAN         8.93           10749         AAA         IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)         WLAN         8.93	± 9.6 %
10739         AAA         IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle)         WLAN         8.29           10740         AAA         IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)         WLAN         8.48           10741         AAA         IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)         WLAN         8.40           10742         AAA         IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)         WLAN         8.43           10743         AAA         IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)         WLAN         8.94           10744         AAA         IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)         WLAN         9.16           10745         AAA         IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)         WLAN         9.11           10747         AAA         IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)         WLAN         9.04           10748         AAA         IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)         WLAN         8.93           10749         AAA         IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)         WLAN         8.93           10750         AAA         IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)         WLAN         8.79           10751         AAA         IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)         WLAN         8.81 <t< td=""><td>± 9.6 %</td></t<>	± 9.6 %
10740         AAA         IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)         WLAN         8.48           10741         AAA         IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)         WLAN         8.40           10742         AAA         IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)         WLAN         8.43           10743         AAA         IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)         WLAN         8.94           10744         AAA         IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)         WLAN         9.16           10745         AAA         IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)         WLAN         8.93           10746         AAA         IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)         WLAN         9.11           10747         AAA         IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)         WLAN         8.93           10748         AAA         IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)         WLAN         8.93           10749         AAA         IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)         WLAN         8.90           10750         AAA         IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)         WLAN         8.87           10751         AAA         IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)         WLAN         8.81      <	± 9.6 %
10741         AAA         IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)         WLAN         8.40           10742         AAA         IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)         WLAN         8.43           10743         AAA         IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)         WLAN         8.94           10744         AAA         IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)         WLAN         9.16           10745         AAA         IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)         WLAN         8.93           10746         AAA         IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)         WLAN         9.11           10747         AAA         IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)         WLAN         9.04           10748         AAA         IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)         WLAN         8.93           10749         AAA         IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)         WLAN         8.90           10750         AAA         IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)         WLAN         8.79           10751         AAA         IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)         WLAN         8.82           10752         AAA         IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)         WLAN         8.81	± 9.6 %
10742       AAA       IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)       WLAN       8.43         10743       AAA       IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)       WLAN       8.94         10744       AAA       IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)       WLAN       9.16         10745       AAA       IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)       WLAN       8.93         10746       AAA       IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)       WLAN       9.11         10747       AAA       IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)       WLAN       9.04         10748       AAA       IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)       WLAN       8.93         10749       AAA       IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)       WLAN       8.90         10750       AAA       IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)       WLAN       8.79         10751       AAA       IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)       WLAN       8.81         10752       AAA       IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)       WLAN       8.81         10753       AAA       IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)       WLAN       8.94         10755       AAA       IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)	± 9.6 %
10743       AAA       IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)       WLAN       8.94         10744       AAA       IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)       WLAN       9.16         10745       AAA       IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)       WLAN       8.93         10746       AAA       IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)       WLAN       9.11         10747       AAA       IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)       WLAN       9.04         10748       AAA       IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)       WLAN       8.93         10749       AAA       IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)       WLAN       8.90         10750       AAA       IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)       WLAN       8.79         10751       AAA       IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)       WLAN       8.82         10752       AAA       IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)       WLAN       8.81         10753       AAA       IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)       WLAN       8.94         10755       AAA       IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)       WLAN       8.64         10756       AAA       IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)	± 9.6 %
10743       AAA       IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)       WLAN       8.94         10744       AAA       IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)       WLAN       9.16         10745       AAA       IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)       WLAN       8.93         10746       AAA       IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)       WLAN       9.11         10747       AAA       IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)       WLAN       9.04         10748       AAA       IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)       WLAN       8.93         10749       AAA       IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)       WLAN       8.90         10750       AAA       IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)       WLAN       8.79         10751       AAA       IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)       WLAN       8.82         10752       AAA       IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)       WLAN       8.81         10753       AAA       IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)       WLAN       8.94         10755       AAA       IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)       WLAN       8.64         10756       AAA       IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)	± 9.6 %
10745         AAA         IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)         WLAN         8.93           10746         AAA         IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)         WLAN         9.11           10747         AAA         IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)         WLAN         9.04           10748         AAA         IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)         WLAN         8.93           10749         AAA         IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)         WLAN         8.90           10750         AAA         IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)         WLAN         8.79           10751         AAA         IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)         WLAN         8.82           10752         AAA         IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)         WLAN         8.81           10753         AAA         IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)         WLAN         9.00           10754         AAA         IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)         WLAN         8.64           10755         AAA         IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)         WLAN         8.64           10757         AAA         IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)         WLAN         8.77	± 9.6 %
10746         AAA         IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)         WLAN         9.11           10747         AAA         IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)         WLAN         9.04           10748         AAA         IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)         WLAN         8.93           10749         AAA         IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)         WLAN         8.90           10750         AAA         IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)         WLAN         8.79           10751         AAA         IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)         WLAN         8.82           10752         AAA         IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)         WLAN         8.81           10753         AAA         IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)         WLAN         9.00           10754         AAA         IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)         WLAN         8.94           10755         AAA         IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)         WLAN         8.64           10756         AAA         IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)         WLAN         8.77           10758         AAA         IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)         WLAN         8.69 </td <td>± 9.6 %</td>	± 9.6 %
10747         AAA         IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)         WLAN         9.04           10748         AAA         IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)         WLAN         8.93           10749         AAA         IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)         WLAN         8.90           10750         AAA         IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)         WLAN         8.79           10751         AAA         IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)         WLAN         8.82           10752         AAA         IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)         WLAN         8.81           10753         AAA         IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)         WLAN         9.00           10754         AAA         IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)         WLAN         8.94           10755         AAA         IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)         WLAN         8.64           10756         AAA         IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)         WLAN         8.77           10758         AAA         IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)         WLAN         8.69	± 9.6 %
10748         AAA         IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)         WLAN         8.93           10749         AAA         IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)         WLAN         8.90           10750         AAA         IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)         WLAN         8.79           10751         AAA         IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)         WLAN         8.82           10752         AAA         IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)         WLAN         8.81           10753         AAA         IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)         WLAN         9.00           10754         AAA         IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)         WLAN         8.94           10755         AAA         IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)         WLAN         8.64           10756         AAA         IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)         WLAN         8.77           10757         AAA         IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)         WLAN         8.77           10758         AAA         IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)         WLAN         8.69	± 9.6 %
10749         AAA         IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)         WLAN         8.90           10750         AAA         IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)         WLAN         8.79           10751         AAA         IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)         WLAN         8.82           10752         AAA         IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)         WLAN         8.81           10753         AAA         IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)         WLAN         9.00           10754         AAA         IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)         WLAN         8.94           10755         AAA         IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)         WLAN         8.64           10756         AAA         IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)         WLAN         8.77           10757         AAA         IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)         WLAN         8.77           10758         AAA         IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)         WLAN         8.69	± 9.6 %
10750         AAA         IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)         WLAN         8.79           10751         AAA         IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)         WLAN         8.82           10752         AAA         IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)         WLAN         8.81           10753         AAA         IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)         WLAN         9.00           10754         AAA         IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)         WLAN         8.94           10755         AAA         IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)         WLAN         8.64           10756         AAA         IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)         WLAN         8.77           10757         AAA         IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)         WLAN         8.77           10758         AAA         IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)         WLAN         8.69	± 9.6 %
10751       AAA       IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)       WLAN       8.82         10752       AAA       IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)       WLAN       8.81         10753       AAA       IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)       WLAN       9.00         10754       AAA       IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)       WLAN       8.94         10755       AAA       IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)       WLAN       8.64         10756       AAA       IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)       WLAN       8.77         10757       AAA       IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)       WLAN       8.77         10758       AAA       IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)       WLAN       8.69	± 9.6 %
10752       AAA       IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)       WLAN       8.81         10753       AAA       IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)       WLAN       9.00         10754       AAA       IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)       WLAN       8.94         10755       AAA       IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)       WLAN       8.64         10756       AAA       IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)       WLAN       8.77         10757       AAA       IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)       WLAN       8.77         10758       AAA       IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)       WLAN       8.69	± 9.6 %
10753         AAA         IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)         WLAN         9.00           10754         AAA         IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)         WLAN         8.94           10755         AAA         IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)         WLAN         8.64           10756         AAA         IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)         WLAN         8.77           10757         AAA         IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)         WLAN         8.77           10758         AAA         IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)         WLAN         8.69	± 9.6 %
10754         AAA         IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)         WLAN         8.94           10755         AAA         IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)         WLAN         8.64           10756         AAA         IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)         WLAN         8.77           10757         AAA         IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)         WLAN         8.77           10758         AAA         IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)         WLAN         8.69	± 9.6 %
10755         AAA         IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)         WLAN         8.64           10756         AAA         IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)         WLAN         8.77           10757         AAA         IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)         WLAN         8.77           10758         AAA         IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)         WLAN         8.69	± 9.6 %
10756         AAA         IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)         WLAN         8.77           10757         AAA         IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)         WLAN         8.77           10758         AAA         IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)         WLAN         8.69	± 9.6 %
10757         AAA         IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)         WLAN         8.77           10758         AAA         IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)         WLAN         8.69	± 9.6 %
10758 AAA IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle) WLAN 8.69	± 9.6 %
	± 9.6 %
10759 AAA IEEE 802.11ax (160MHz, MCS4, 99pc duty cycle) WLAN 8.58	± 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 %
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>&</sup>lt;sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.