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



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S Swiss Calibration Service

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

Accreditation No.: SCS 0108

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Certificate No: D750V3-1161_Jul16

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Calibration Equipment used (M&TE critical for calibration) Primary Standards ID # Cal Date (Certificate No.) Scheduled Calibration Power meter NRP SN: 104778 06-Apr-16 (No. 217-02288/02289) Apr-17 Power sensor NRP-Z91 SN: 103244 06-Apr-16 (No. 217-02288) Apr-17 Power sensor NRP-Z91 SN: 103245 06-Apr-16 (No. 217-02289) Apr-17 Reference 20 dB Attenuator SN: 5047.2 / 06327 05-Apr-16 (No. 217-02292) Apr-17 Reference 20 dB Attenuator SN: 5047.2 / 06327 05-Apr-16 (No. 217-02293) Apr-17 Reference Probe EX3DV4 SN: 7349 15-Jun-16 (No. 217-02293) Apr-17 DAE4 SN: 601 30-Dec-15 (No. DAE4-601_Dec15) Dec-16 Secondary Standards ID # Check Date (in house) Scheduled Check Power meter EPM-442A SN: GB37480704 07-Oct-15 (No. 217-02223) In house check: Oct-16 Power sensor HP 8481A SN: WM41092317 07-Oct-15 (No. 217-02223) In house check: Oct-16 Power sensor HP 8481A SN: 10972 15-Jun-15 (In house check Oct-15) In house check: Oct-16 Power sensor HP 8481A SN: 100972 15-Jun-15 (In house check Oct-15) <					
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	letwork Analyzer HP 8753E	Name	Laboratory Technician	Signature	

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

Certificate No: D750V3-1161_Jul16

Calibration Laboratory of

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





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Glossary:

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

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Accreditation No.: SCS 0108

Measurement Conditions

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

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	· <u> </u>
Frequency	750 MHz ± 1 MHz	

Head TSL parameters The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.9 ± 6 %	0.91 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.09 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.17 W/kg ± 17.0 % (k=2)
SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.37 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.39 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	55.1 ± 6 %	0.99 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.16 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	8.43 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.41 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	5.53 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	55.6 Ω - 0.9 jΩ
Return Loss	- 25.4 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	50.2 Ω - 4.0 jΩ
Return Loss	- 28.0 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.033 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	November 19, 2015

DASY5 Validation Report for Head TSL

Date: 13.07.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1161

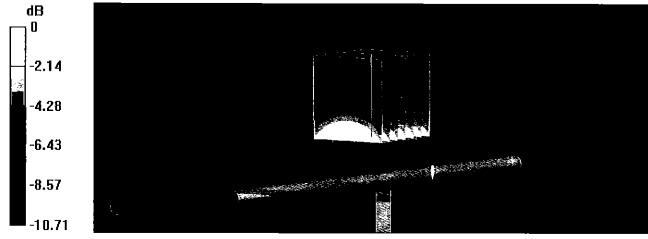
Communication System: UID 0 - CW; Frequency: 750 MHz Medium parameters used: f = 750 MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

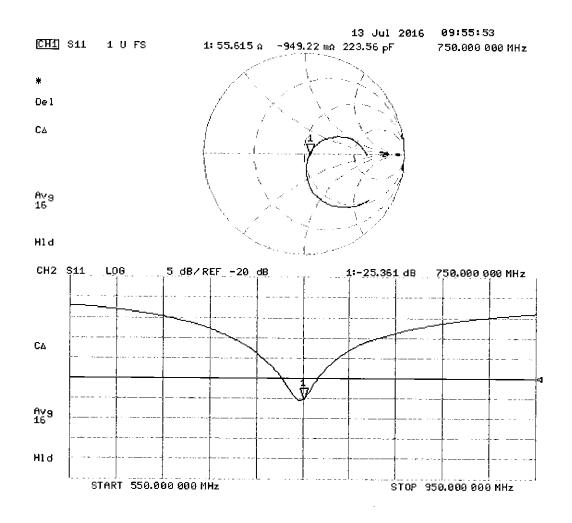
- Probe: EX3DV4 SN7349; ConvF(10.07, 10.07, 10.07); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 58.07 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 3.13 W/kg SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.37 W/kg Maximum value of SAR (measured) = 2.80 W/kg



0 dB = 2.80 W/kg = 4.47 dBW/kg



DASY5 Validation Report for Body TSL

Date: 13.07.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1161

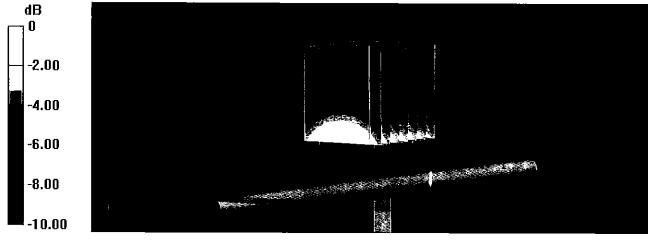
Communication System: UID 0 - CW; Frequency: 750 MHz Medium parameters used: f = 750 MHz; $\sigma = 0.99$ S/m; $\varepsilon_r = 55.1$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

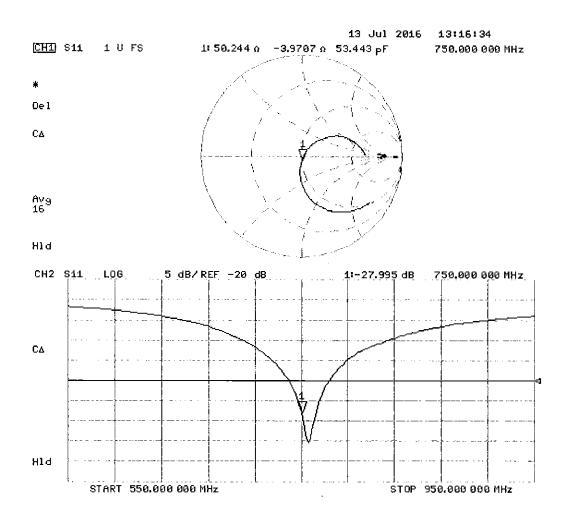
- Probe: EX3DV4 SN7349; ConvF(9.99, 9.99, 9.99); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 56.33 V/m; Power Drift = -0.00 dB Peak SAR (extrapolated) = 3.22 W/kg SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.41 W/kg Maximum value of SAR (measured) = 2.87 W/kg



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





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Certification of Calibration

Object

D750V3 – SN: 1161

July 12, 2017

Calibration procedure(s)

Procedure for Calibration Extension for SAR Dipoles.

Calibration date:

Description:

SAR Validation Dipole at 750 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Control Company	4040	Therm./Clock/Humidity Monitor	3/31/2017	Biennial	3/31/2019	170232394
Control Company	4352	Ultra Long Stem Thermometer	5/2/2017	Biennial	5/2/2019	170330156
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433971
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	6/1/2017	Annual	6/1/2018	MY53401181
Agilent	8753ES	S-Parameter Network Analyzer	10/26/2016	Annual	10/26/2017	US39170118
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/8/2017	Annual	3/8/2018	1368
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/14/2017	Annual	6/14/2018	1334
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/10/2017	Annual	5/10/2018	1070
SPEAG	ES3DV3	SAR Probe	11/15/2016	Annual	11/15/2017	3334
SPEAG	ES3DV3	SAR Probe	3/14/2017	Annual	3/14/2018	3319
Anritsu	MA2411B	Pulse Power Sensor	2/10/2017	Annual	2/10/2018	1207364
Anritsu	MA2411B	Pulse Power Sensor	2/10/2017	Annual	2/10/2018	1339018
Anritsu	ML2495A	Power Meter	10/16/2015	Biennial	10/16/2017	941001
Agilent	N5182A	MXG Vector Signal Generator	2/28/2017	Annual	2/28/2018	MY47420800
Seekonk	NC-100	Torque Wrench	11/6/2015	Biennial	11/6/2017	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A

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

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

Object:	Date Issued:	Dogo 1 of 4
D750V3 – SN: 1161	07/12/2017	Page 1 of 4

DIPOLE CALIBRATION EXTENSION

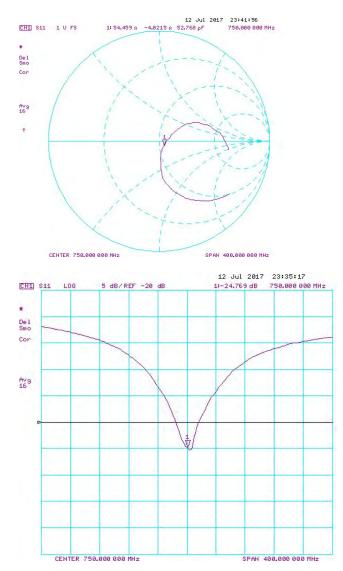
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

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

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

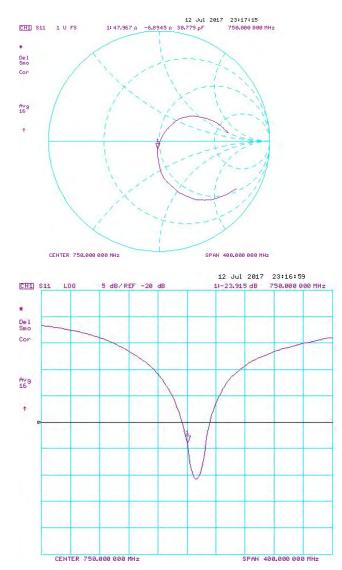
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	W/kg @ 23.0 dBm	dBm	(%)	W/кg @ 23.0 dBm	(10g) W/kg @ 23.0 dBm		Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Head (dB)	Deviation (%)	
7/13/2016	7/12/2017	1.033	1.63	1.65	0.98%	1.08	1.09	1.11%	55.6	54.5	1.1	-0.9	-4.0	3.1	-25.4	-24.8	2.40%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Body (1g) W/kg @ 23.0 dBm	Measured Body SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 23.0 dBm	Measured Body SAR (10g) W/kg @ 23.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary	Measured Impedance Body (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
7/13/2016	7/12/2017	1.033	1.69	1.75	3.80%	1.11	1.17	5.79%	50.2	48.0	2.2	-4.0	-6.9	2.9	-28.0	-23.9	14.60%	PASS

Object:	Date Issued:	Page 2 of 4
D750V3 – SN: 1161	07/12/2017	Fage 2 01 4



Impedance & Return-Loss Measurement Plot for Head TSL

Object:	Date Issued:	Daga 2 of 4
D750V3 – SN: 1161	07/12/2017	Page 3 of 4



Impedance & Return-Loss Measurement Plot for Body TSL

Object:	Date Issued:	Daga 4 of 4
D750V3 – SN: 1161	07/12/2017	Page 4 of 4

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BC-MRA

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Accreditation No.: SCS 0108

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Client PC Test

Certificate No: D835V2-4d132_Jan18

CALIBRATION CERTIFICATE

Object	D835V2 - SN:4d132					
Calibration procedure(s)	QA CAL-05.v9 Calibration proce	dure for dipole validation kits ab	ove 700 MHz			
			BNV 01-25-2018			
Calibration date:	January 15, 2018	3	01-25-2018			
The measurements and the uncer	tainties with confidence p	ional standards, which realize the physical u robability are given on the following pages a ry facility: environment temperature (22 ± 3)°	nd are part of the certificate.			
Calibration Equipment used (M&T	E critical for calibration)					
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration			
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18			
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18			
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02522)	Apr-18			
Reference 20 dB Attenuator	SN: 5058 (20k)	07-Apr-17 (No. 217-02528)	Apr-18			
Type-N mismatch combination	SN: 5047.2 / 06327	07-Apr-17 (No. 217-02529)	Apr-18			
Reference Probe EX3DV4	SN: 7349	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			
o #1	Name	Function	Signature			
Calibrated by:	Leif Klysner	Laboratory Technician	See Alfer			
Approved by:	Katja Pokovic	Technical Manager	Alle-			
-		· ·	Issued: January 15, 2018			
i his calibration certificate shall not	be reproduced except in	full without written approval of the laboratory	<i>I</i> .			

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





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Glossary:

tissue simulating liquid
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%.

Accreditation No.: SCS 0108

Measurement Conditions

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

DASY Version	DASY5	
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5.0 mm	
Frequency	835 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.7 ± 6 %	0.92 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.39 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.36 W/kg ± 17.0 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Head TSL SAR measured	condition 250 mW input power	1.55 W/kg

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.97 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.8 ± 6 %	0.99 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.47 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	9.71 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.62 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	6.39 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.8 Ω - 2.9 jΩ
Return Loss	- 29.5 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.4 Ω - 5.7 jΩ
Return Loss	- 23.9 dB

General Antenna Parameters and Design

Electrical Delay (one direction) 1.386 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	July 22, 2011

Appendix (Additional assessments outside the scope of SCS 0108)

Measurement Conditions

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

Phantom

SAM Head Phantom

For usage with cSAR3DV2-R/L

SAR result with SAM Head (Top)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.40 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.41 W/kg ± 17.5 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL		
	condition	
SAR measured	250 mW input power	1.58 W/kg

SAR result with SAM Head (Mouth)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.47 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.69 W/kg ± 17.5 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.64 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	6.45 W/kg ± 16.9 % (k=2)

SAR result with SAM Head (Neck)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.35 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.22 W/kg ± 17.5 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.59 W/kg

SAR result with SAM Head (Ear)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.03 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	7.96 W/kg ± 17.5 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
CATT atoraged ofer to one (to g) of flead 15L	contaition	
SAR measured	250 mW input power	1.37 W/kg

DASY5 Validation Report for Head TSL

Date: 08.01.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d132

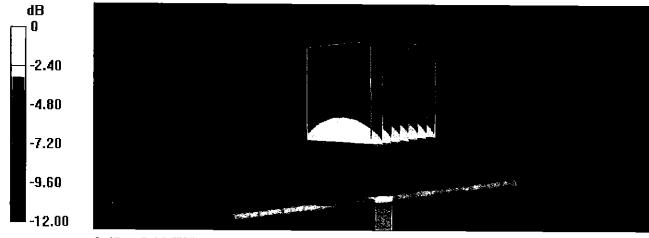
Communication System: UID 0 - CW; Frequency: 835 MHz Medium parameters used: f = 835 MHz; $\sigma = 0.92$ S/m; $\varepsilon_r = 40.7$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

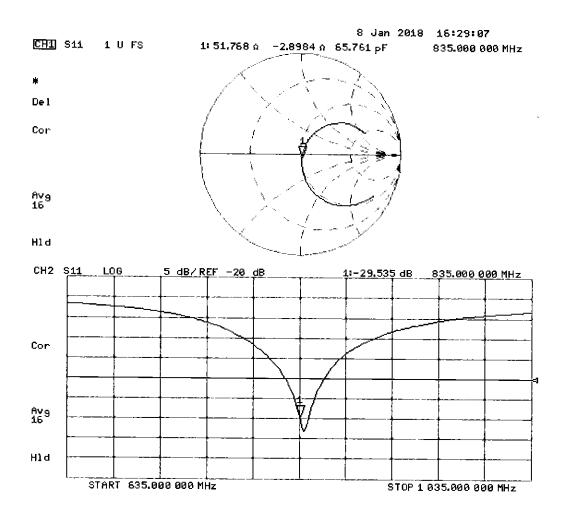
- Probe: EX3DV4 SN7349; ConvF(9.9, 9.9, 9.9); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 63.23 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 3.64 W/kg SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.55 W/kg Maximum value of SAR (measured) = 3.22 W/kg



0 dB = 3.22 W/kg = 5.08 dBW/kg



DASY5 Validation Report for Body TSL

Date: 08.01.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d132

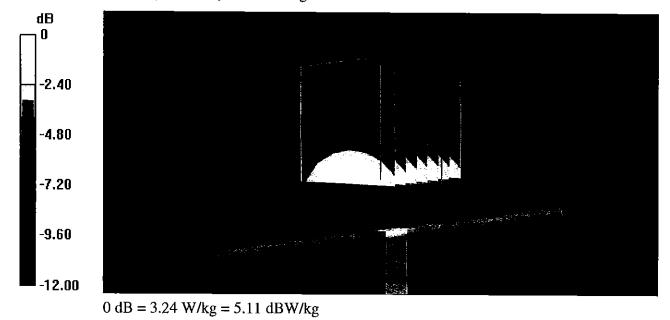
Communication System: UID 0 - CW; Frequency: 835 MHz Medium parameters used: f = 835 MHz; $\sigma = 0.99$ S/m; $\varepsilon_r = 54.8$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

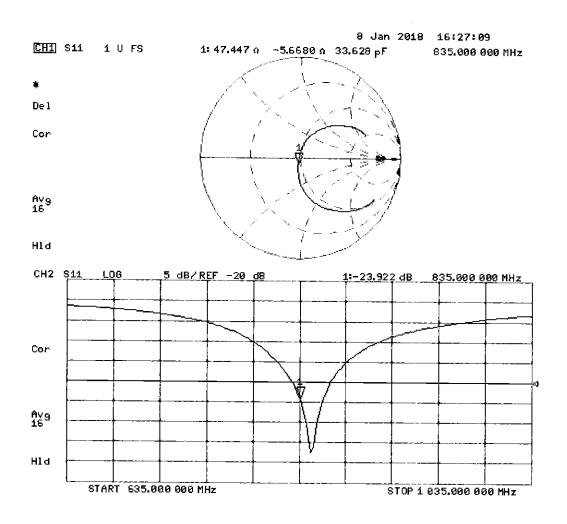
DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.05, 10.05, 10.05); 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 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 60.55 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 3.66 W/kg SAR(1 g) = 2.47 W/kg; SAR(10 g) = 1.62 W/kg Maximum value of SAR (measured) = 3.24 W/kg





DASY5 Validation Report for SAM Head

Date: 15.01.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d132

Communication System: UID 0 - CW; Frequency: 835 MHz Medium parameters used: f = 835 MHz; $\sigma = 0.94$ S/m; $\varepsilon_r = 44.1$; $\rho = 1000$ kg/m³ Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

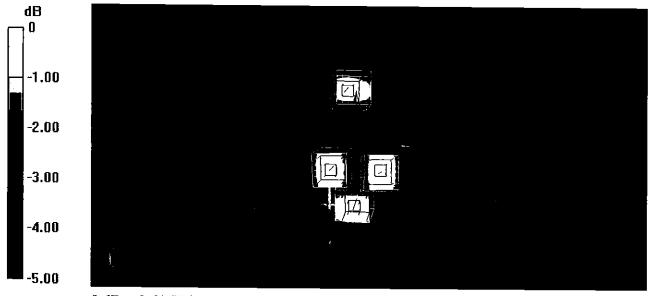
- Probe: EX3DV4 SN7349; ConvF(9.9, 9.9, 9.9); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: SAM Head
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

SAM Head/Top/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 61.00 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.56 W/kg SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.58 W/kg Maximum value of SAR (measured) = 3.16 W/kg

SAM Head/Mouth/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 60.99 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 3.65 W/kg SAR(1 g) = 2.47 W/kg; SAR(10 g) = 1.64 W/kg Maximum value of SAR (measured) = 3.19 W/kg

SAM Head/Neck/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 59.20 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 3.33 W/kg SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.59 W/kg Maximum value of SAR (measured) = 3.04 W/kg

SAM Head/Ear/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 55.03 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 2.90 W/kg SAR(1 g) = 2.03 W/kg; SAR(10 g) = 1.37 W/kg Maximum value of SAR (measured) = 2.61 W/kg



0 dB = 2.61 W/kg = 4.17 dBW/kg

4

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Accreditation No.: SCS 0108

Client PC Test		Certi	Icate No: D1750V2-1148_May17
CALIBRATION C	ERTIFICATE		
Object	D1750V2 - SN:1	148	
Calibration procedure(s)	QA CAL-05.v9 Calibration proce	dure for dipole validation k	its above 700 MHz BN 0ડ્-2ર્ઝ-2ગ7
Calibration date:	May 09, 2017		
The measurements and the unce	rtainties with confidence p cted in the closed laborato	ional standards, which realize the ph robability are given on the following ry facility: environment temperature	pages and are part of the certificate.
Primary Standards	[ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522) Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02522)	Apr-18
Reference 20 dB Attenuator	SN: 5058 (20k)	07-Apr-17 (No. 217-02528)	Apr-18
Type-N mismatch combination	SN: 5047.2 / 06327	07-Apr-17 (No. 217-02529)	Apr-18
Reference Probe EX3DV4	SN: 7349	31-Dec-16 (No. EX3-7349_Dec1	S) Dec-17
DAE4	SN: 601	28-Mar-17 (No. DAE4-601_Mar1	-
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (in house check Oct-1	6) In house check: Oct-18
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-1	6) In house check: Oct-18
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-1	6) In house check: Oct-18
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-1	6) In house check: Oct-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-1	6) In house check: Oct-17
Calibrated by:	Name Claudio Leubler	Function Laboratory Technicia	n Signatère
Approved by:	Katja Pokovic	Technical Manager	L.U.L.
			Issued: May 11, 2017
This calibration certificate shall n	ot be reproduced except in	n full without written approval of the l	aboratory.

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Accreditation No.: SCS 0108

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

Glossarv:

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

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Measurement Conditions

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

DASY Version	DASY5	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.1	1.37 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.0 ± 6 %	1.36 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.11 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	36.4 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	4.83 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	19.3 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.4	1.49 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	53.7 ± 6 %	1.47 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.1 7 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	37.0 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	4.93 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	19.8 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	49.8 Ω - 0.7 jΩ
Return Loss	- 42.9 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	45.7 Ω - 0.5 jΩ
Return Loss	- 26.9 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.223 ns
Electrical Beilay (one allocation)	

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	September 30, 2014

DASY5 Validation Report for Head TSL

Date: 09.05.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1148

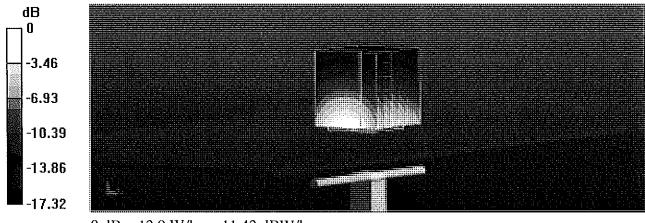
Communication System: UID 0 - CW; Frequency: 1750 MHz Medium parameters used: f = 1750 MHz; $\sigma = 1.36$ S/m; $\varepsilon_r = 39$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

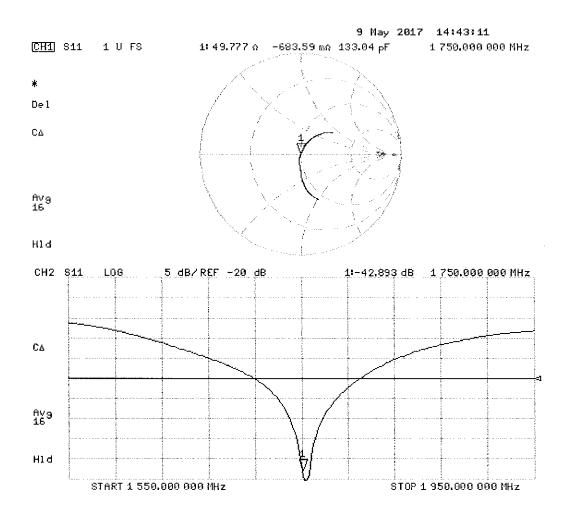
- Probe: EX3DV4 SN7349; ConvF(8.46, 8.46, 8.46); Calibrated: 31.12.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.0(1442); SEMCAD X 14.6.10(7413)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 105.4 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 16.5 W/kg SAR(1 g) = 9.11 W/kg; SAR(10 g) = 4.83 W/kg Maximum value of SAR (measured) = 13.9 W/kg



0 dB = 13.9 W/kg = 11.43 dBW/kg



DASY5 Validation Report for Body TSL

Date: 09.05.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1148

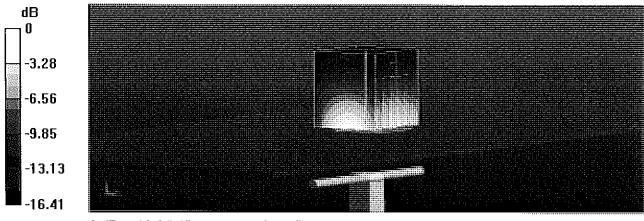
Communication System: UID 0 - CW; Frequency: 1750 MHz Medium parameters used: f = 1750 MHz; $\sigma = 1.47$ S/m; $\varepsilon_r = 53.7$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

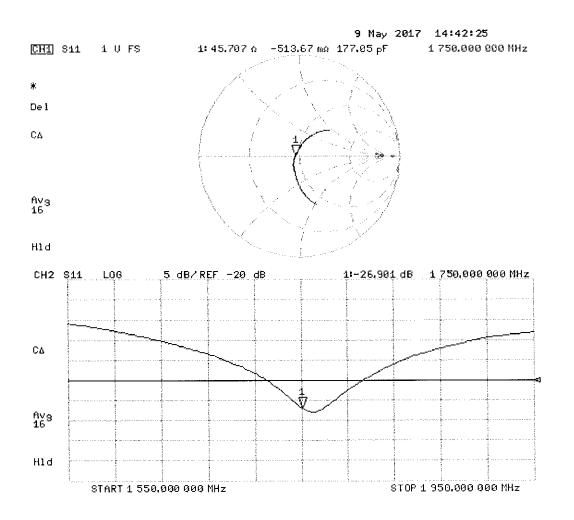
- Probe: EX3DV4 SN7349; ConvF(8.25, 8.25, 8.25); Calibrated: 31.12.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1442); SEMCAD X 14.6.10(7413)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 99.49 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 15.9 W/kg SAR(1 g) = 9.17 W/kg; SAR(10 g) = 4.93 W/kg Maximum value of SAR (measured) = 13.1 W/kg



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



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



S Schweizerischer Kalibrierdienst

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

Accreditation No.: SCS 0108

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

Client PC Test

Certificate No: D1900V2-5d080_Jul16

CALIB			

Object	D1900V2 - SN:	5d080	
Calibration procedure(s)	QA CAL-05.v9		
	Calibration proc	edure for dipole validation kits at	oove 700 MHz
			Day /
			BIT
			-7/16/20/~
Calibration date:	July 08, 2016		
			Externe
			pove 700 MHz F_{16}^{20} G F_{16}^{20} G $F_{16}^$
This calibration certificate docurr	ents the traceability to na	tional standards, which realize the physical u	inits of measurements (SI)
The measurements and the unce	ertainties with confidence	probability are given on the following pages a	and are part of the certificate
All calibrations have been condu	cted in the closed laborate	bry facility: environment temperature (22 \pm 3)	°C and humidity ~ 70%
		· · · · · · · · · · · · · · · · · · ·	o and humany < 70%.
Calibration Equipment used (M&	TE critical for calibration)		
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	06-Apr-16 (No. 217-02288/02289)	Apr-17
Power sensor NRP-Z91	SN: 103244	06-Apr-16 (No. 217-02288)	Apr-17
Power sensor NRP-Z91	SN: 103245	06-Apr-16 (No. 217-02289)	Apr-17
Reference 20 dB Attenuator	SN: 5058 (20k)	05-Apr-16 (No. 217-02292)	Apr-17
Type-N mismatch combination	SN: 5047.2 / 06327	05-Apr-16 (No. 217-02295)	Apr-17
Reference Probe EX3DV4	SN: 7349	15-Jun-16 (No. EX3-7349_Jun16)	Jun-17
DAE4	SN: 601	30-Dec-15 (No. DAE4-601_Dec15)	Dec-16
			Dec-10
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (No. 217-02222)	In house check: Oct-16
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (No. 217-02222)	In house check: Oct-16
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (No. 217-02223)	In house check: Oct-16
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Jun-15)	In house check: Oct-16
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-15)	In house check: Oct-16
		、	in house check, Oct-16
	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
			A Car
	en en er en	n menen er en mannen et et klande en felder er et et et en klande et en feldet. Alle felde felde felde felde fe Felde	ann fra star NZ star star star star star star star star
Approved by:	Katja Pokovic	Technical Manager	
			la as
	ono dal micro antico del della del	an senana ana kana kana kana kana kana kana	
		full without written approval of the laboratory	Issued: July 13, 2016

Calibration Laboratory of

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





Schweizerischer Kalibrierdienst

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S **Swiss Calibration Service**

Accreditation No.: SCS 0108

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

Glossary:

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

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Measurement Conditions

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

DASY Version	DASY5	V52.8.8
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	39.8 ± 6 %	1.38 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.76 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	39.3 W/kg ± 17.0 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.10 W/kg

Body TSL parameters

The following parameters and calculations were applied.

· · · · · · · · · · · · · · · · · · ·	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.7 ± 6 %	1.51 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.75 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	39.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.17 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.7 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.1 Ω + 5.3 jΩ
Return Loss	- 25.1 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.4 Ω + 6.8 jΩ
Return Loss	- 22.6 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.192 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	June 28, 2006

DASY5 Validation Report for Head TSL

Date: 08.07.2016

Test Laboratory: SPEAG, Zurich, Switzerland

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

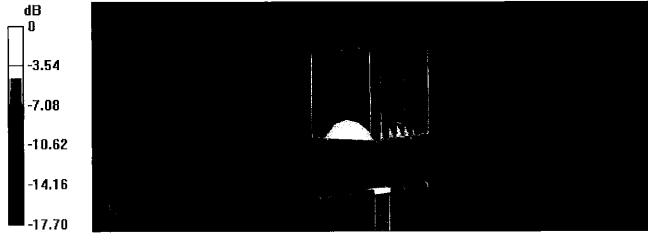
Communication System: UID 0 - CW; Frequency: 1900 MHz Medium parameters used: f = 1900 MHz; σ = 1.38 S/m; ϵ_r = 39.8; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

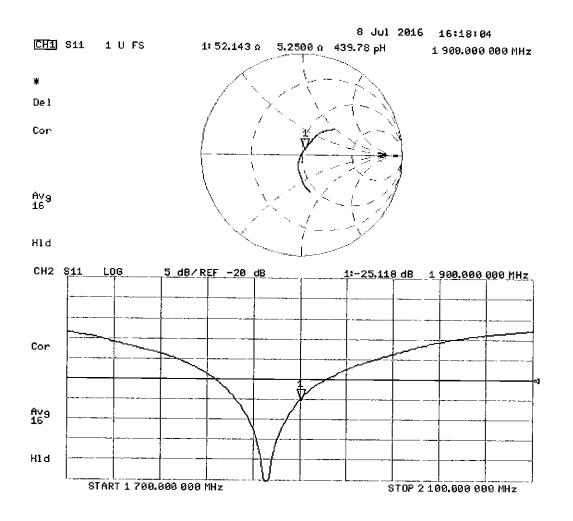
- Probe: EX3DV4 SN7349; ConvF(7.99, 7.99, 7.99); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 106.6 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 18.4 W/kg SAR(1 g) = 9.76 W/kg; SAR(10 g) = 5.1 W/kg Maximum value of SAR (measured) = 15.0 W/kg



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



DASY5 Validation Report for Body TSL

Date: 08.07.2016

Test Laboratory: SPEAG, Zurich, Switzerland

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

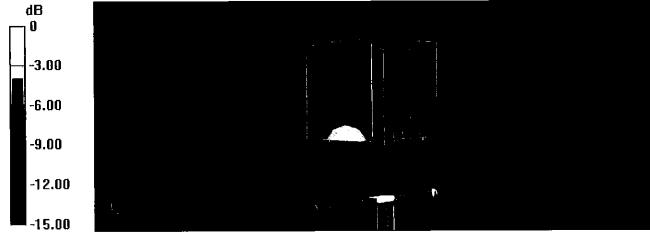
Communication System: UID 0 - CW; Frequency: 1900 MHz Medium parameters used: f = 1900 MHz; σ = 1.51 S/m; ϵ_r = 52.7; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

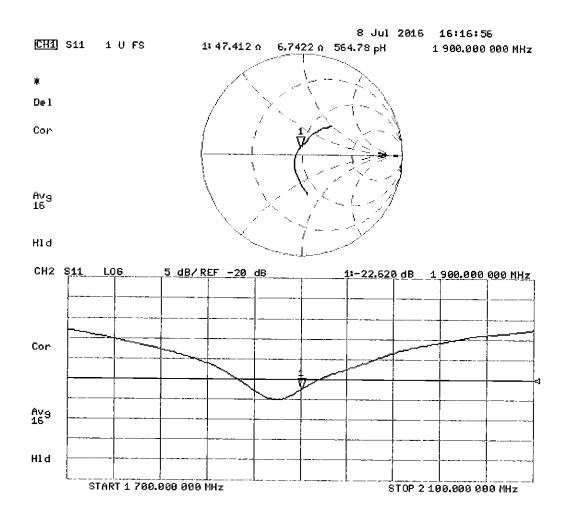
- Probe: EX3DV4 SN7349; ConvF(8.03, 8.03, 8.03); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 103.1 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 17.1 W/kg SAR(1 g) = 9.75 W/kg; SAR(10 g) = 5.17 W/kg Maximum value of SAR (measured) = 14.7 W/kg



0 dB = 14.7 W/kg = 11.67 dBW/kg





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



Certification of Calibration

Object

D1900V2 - SN: 5d080

Calibration procedure(s)

Procedure for Calibration Extension for SAR Dipoles.

Calibration date:

July 06, 2017

Description:

SAR Validation Dipole at 1900 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Control Company	4040	Therm./Clock/Humidity Monitor	3/31/2017	Biennial	3/31/2019	170232394
Control Company	4352	Ultra Long Stem Thermometer	5/2/2017	Biennial	5/2/2019	170330156
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433971
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	6/1/2017	Annual	6/1/2018	MY53401181
Agilent	8753ES	S-Parameter Network Analyzer	10/26/2016	Annual	10/26/2017	US39170118
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/13/2017	Annual	3/13/2018	1415
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/10/2017	Annual	5/10/2018	1070
SPEAG	ES3DV3	SAR Probe	3/14/2017	Annual	3/14/2018	3209
Anritsu	MA2411B	Pulse Power Sensor	2/10/2017	Annual	2/10/2018	1207364
Anritsu	MA2411B	Pulse Power Sensor	2/10/2017	Annual	2/10/2018	1339018
Anritsu	ML2495A	Power Meter	10/16/2015	Biennial	10/16/2017	941001
Agilent	N5182A	MXG Vector Signal Generator	2/28/2017	Annual	2/28/2018	MY47420800
Seekonk	NC-100	Torque Wrench	11/6/2015	Biennial	11/6/2017	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A

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

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

DIPOLE CALIBRATION EXTENSION

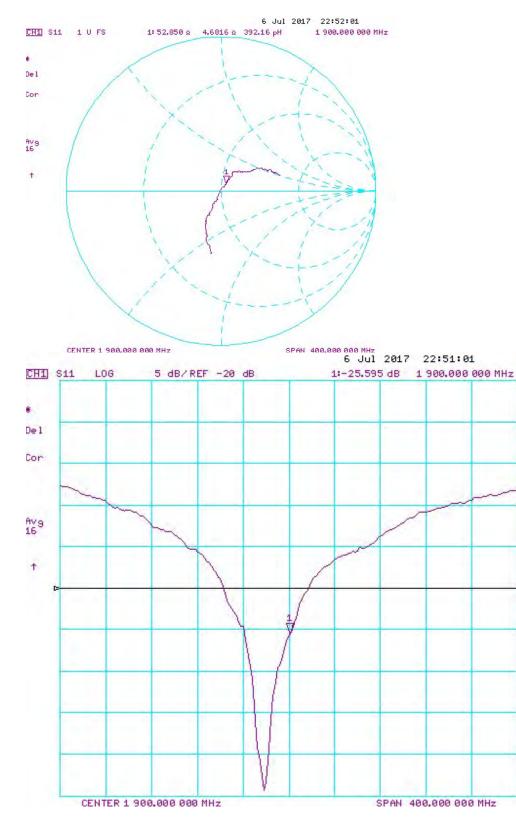
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

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

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

Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 20.0 dBm	dBm	(%)	W/кg @ 20.0 dBm	(10a) W//ka @		Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Head (dB)	Deviation (%)	
7/8/2016	7/6/2017	1.192	3.93	3.86	-1.78%	2.05	2	-2.44%	52.1	52.9	0.8	5.3	4.7	0.6	-25.1	-25.6	-2.00%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Body (1g) W/kg @ 20.0 dBm	Measured Body SAR (1g) W/kg @ 20.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	Measured Body SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary	Measured Impedance Body (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
7/8/2016	7/6/2017	1.192	3.91	4.05	3.58%	2.07	2.11	1.93%	47.4	48.5	1.1	6.8	5.1	1.7	-22.6	-25.5	-12.80%	PASS

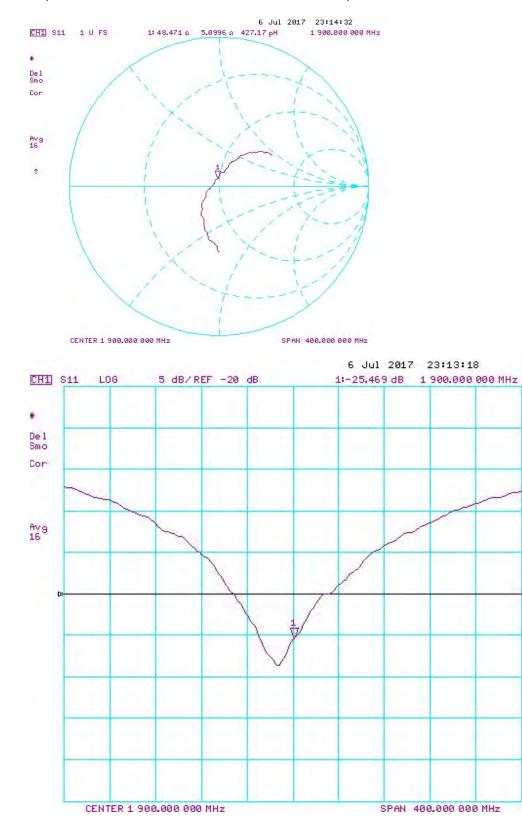
Object:	Date Issued:	Page 2 of 4
D1900V2 – SN: 5d080	07/06/2017	Fage 2 01 4



Impedance & Return-Loss Measurement Plot for Head TSL

Object:	Date Issued:	Daga 2 of 4
D1900V2 – SN: 5d080	07/06/2017	Page 3 of 4

Impedance & Return-Loss Measurement Plot for Body TSL



Object:	Date Issued:	Daga 4 of 4
D1900V2 – SN: 5d080	07/06/2017	Page 4 of 4

Calibration Laboratory of Schmid & Partner Engineering AG

PC Test

Client

Zeughausstrasse 43, 8004 Zurich, Switzerland

BC-MRA

S Schweizerischer Kalibrierdienst

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- S Swiss Calibration Service

Accreditation No.: SCS 0108

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Certificate No: D1900V2-5d148_Feb18

CALIBRATION CERTIFICATE

andar se sa kana sa kana sa kana kana kana kana			nin an
Object	D1900V2 - SN:50	1148	
Calibration procedure(s)	QA CAL-05.v9 Calibration proce	dure for dipole validation kits abo	ve 700 MHz BNV 03-02-2018
Calibration date:	February 07, 201	8	
The measurements and the uncert	tainties with confidence p	onal standards, which realize the physical uni robability are given on the following pages and γ facility: environment temperature (22 ± 3)°C	d are part of the certificate.
Calibration Equipment used (M&T	E critical for calibration)		
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02522)	Apr-18
Reference 20 dB Attenuator	SN: 5058 (20k)	07-Apr-17 (No. 217-02528)	Apr-18
Type-N mismatch combination	SN: 5047.2 / 06327	07-Apr-17 (No. 217-02529)	Apr-18
Reference Probe EX3DV4	SN: 7349	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
Calibrated by:	Name Claudio Leubler	Function Laboratory Technician	Signature
Approved by:	Katja Pokovic	Technical Manager	Jel 14
This calibration certificate shall no	t be reproduced except ir	n full without written approval of the laboratory	Issued: February 7, 2018

Certificate No: D1900V2-5d148_Feb18

Calibration Laboratory of

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





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- Swiss Calibration Service

Accreditation No.: SCS 0108

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

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Measurement Conditions

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

DASY Version	DASY5	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.7 ± 6 %	1.39 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.95 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	40.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.0 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	55.2 ± 6 %	1.48 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (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	39.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.14 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.9 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	52.1 Ω + 5.8 jΩ
Return Loss	- 24.3 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.8 Ω + 6.5 jΩ
Return Loss	- 23.1 dB

General Antenna Parameters and Design

Electrical Delay (and direction)	
Electrical Delay (one direction)	1.199 ns
	1.100115

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	March 11, 2011

DASY5 Validation Report for Head TSL

Date: 07.02.2018

Test Laboratory: SPEAG, Zurich, Switzerland

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

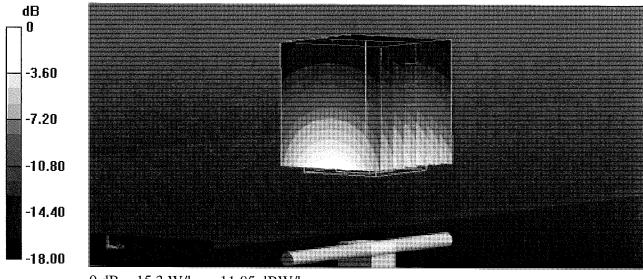
Communication System: UID 0 - CW; Frequency: 1900 MHz Medium parameters used: f = 1900 MHz; σ = 1.39 S/m; ϵ_r = 40.7; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

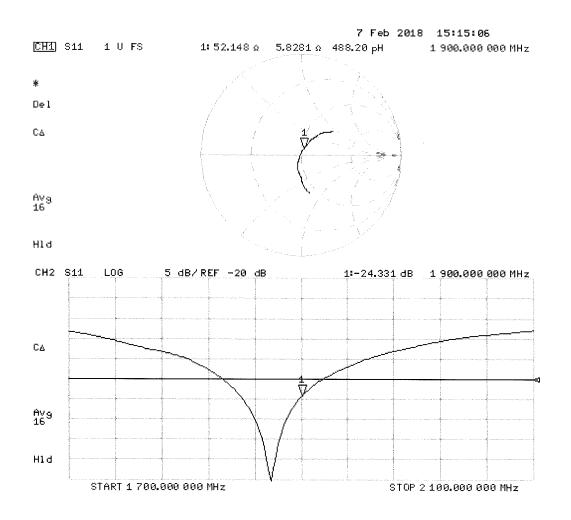
DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.18, 8.18, 8.18); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 109.6 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 18.5 W/kg SAR(1 g) = 9.95 W/kg; SAR(10 g) = 5.22 W/kg Maximum value of SAR (measured) = 15.3 W/kg





DASY5 Validation Report for Body TSL

Date: 07.02.2018

Test Laboratory: SPEAG, Zurich, Switzerland

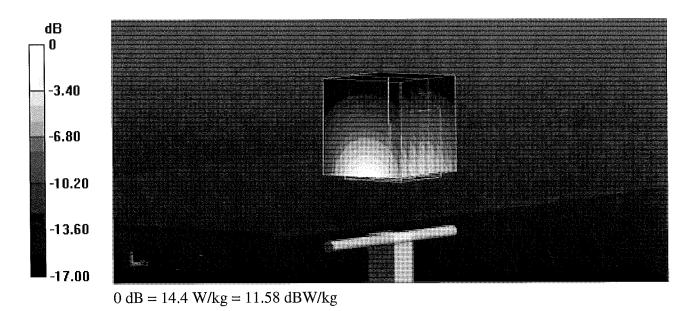
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d148

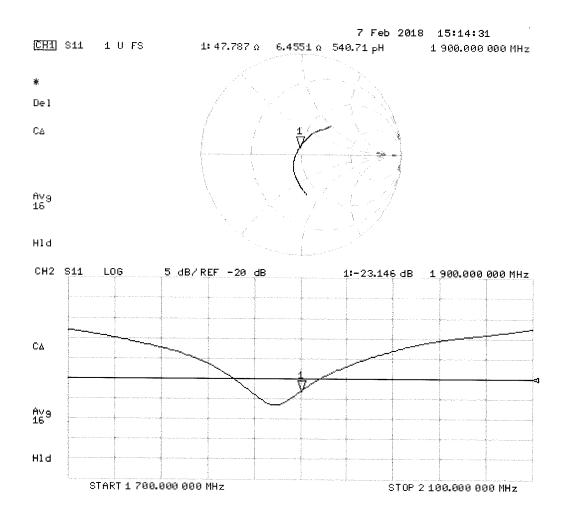
Communication System: UID 0 - CW; Frequency: 1900 MHz Medium parameters used: f = 1900 MHz; σ = 1.48 S/m; ϵ_r = 55.2; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.15, 8.15, 8.15); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 103.0 V/m; Power Drift = -0.09 dB Peak SAR (extrapolated) = 17.2 W/kg SAR(1 g) = 9.68 W/kg; SAR(10 g) = 5.14 W/kg Maximum value of SAR (measured) = 14.4 W/kg





Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland

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

Client PC Test

Certificate No: D2450V2-797_Sep17

Schweizerischer Kalibrierdienst

Service suisse d'étalonnage

Servizio svizzero di taratura

Swiss Calibration Service

Accreditation No.: SCS 0108

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alibration date:	September 11, 2	017	
his calibration certificate docum	ents the traceability to nat	ional standards, which realize the physical un	its of measurements (SI).
he measurements and the unce	ertainties with confidence p	probability are given on the following pages an	nd are part of the certificate.
Il calibrations have been conduc	cted in the closed laborato	ry facility: environment temperature (22 \pm 3)°(C and humidity < 70%.
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alibration Equipment used (M&1			
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rimary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
rimary Standards	ID # SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
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This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: D2450V2-797_Sep17

Calibration Laboratory of

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





Schweizerischer Kalibrierdienst

S Service suisse d'étalonnage

С Servizio svizzero di taratura

S Swiss Calibration Service

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

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Accreditation No.: SCS 0108

Measurement Conditions

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

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

Head TSL parameters

The following parameters and calculations were applied.

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

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.5 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.7 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.28 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.8 W/kg ± 16.5 % (k=2)

à.

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.9 ± 6 %	2.04 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.1 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	51.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.14 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.2 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

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

Antenna Parameters with Body TSL

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

General Antenna Parameters and Design

Electrical Delay (one direction)	1.152 ns
----------------------------------	----------

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

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

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

Additional EUT Data

Manufactured by	SPEAG	
Manufactured on	January 24, 2006	

DASY5 Validation Report for Head TSL

Date: 11.09.2017

Test Laboratory: SPEAG, Zurich, Switzerland

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

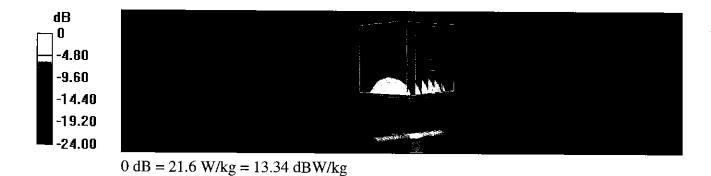
Communication System: UID 0 - CW; Frequency: 2450 MHz Medium parameters used: f = 2450 MHz; $\sigma = 1.86$ S/m; $\epsilon_r = 37.8$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

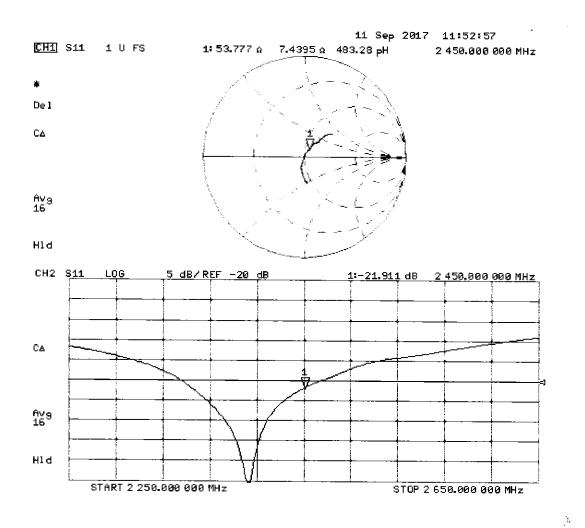
DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.12, 8.12, 8.12); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

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





DASY5 Validation Report for Body TSL

Date: 11.09.2017

Test Laboratory: SPEAG, Zurich, Switzerland

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

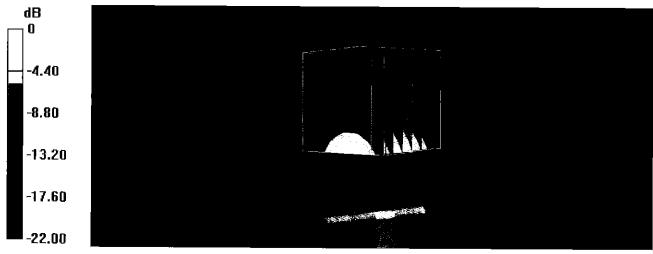
Communication System: UID 0 - CW; Frequency: 2450 MHz Medium parameters used: f = 2450 MHz; $\sigma = 2.04$ S/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

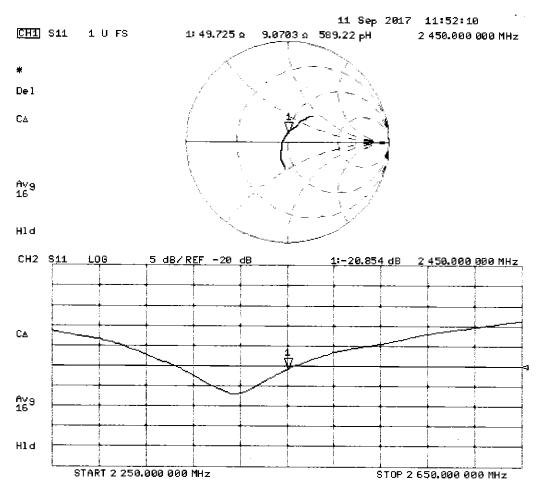
- Probe: EX3DV4 SN7349; ConvF(8.1, 8.1, 8.1); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 105.4 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 25.6 W/kg SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.14 W/kg Maximum value of SAR (measured) = 20.3 W/kg



0 dB = 20.3 W/kg = 13.07 dBW/kg



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- S Swiss Calibration Service

Accreditation No.: SCS 0108

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PC Test Client

Certificate No: D2600V2-1126_Jul17

CALIBRATION CERTIFICATE

Object	D2600V2 - SN:1	126	PN
Calibration procedure(s)	QA CAL-05.v9 Calibration proce	dure for dipole validation kits a	BN 8 3 2017 above 700 MHz
Calibration date:	July 10, 2017		
This calibration certificate docume	ents the traceability to nat	ional standards, which realize the physical	units of monouromonto (CI)
The measurements and the uncer	tainties with confidence p	robability are given on the following pages	and are part of the certificate.
All calibrations have been conduc	ted in the closed laborato	ry facility: environment temperature (22 \pm	3)°C and humidity < 70%.
Calibration Equipment used (M&T	E oritical for adibration)		
Cambration Equipment used (MA)	E childar for calibration)		
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02522)	Apr-18
Reference 20 dB Attenuator	SN: 5058 (20k)	07-Apr-17 (No. 217-02528)	Apr-18
Type-N mismatch combination	SN: 5047.2 / 06327	07-Apr-17 (No. 217-02529)	Apr-18
Reference Probe EX3DV4	SN: 7349	31-May-17 (No. EX3-7349_May17)	May-18
DAE4	SN: 601	28-Mar-17 (No. DAE4-601_Mar17)	Mar-18
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17
	Nama		
	Name	Function	Signature
Calibrated by:	Jeton Kastratl	Laboratory Technician	72/2
Approved by:	Kaija Pokovic	Technical Manager	10/11C
			6- 43
			Issued: July 11, 2017
This calibration certificate shall no	t be reproduced except in	full without written approval of the laborat	

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

tissue simulating liquid
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%.

Measurement Conditions

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

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

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.2 ± 6 %	2.04 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition		
SAR measured	250 mW input power	14.5 W/kg	
SAR for nominal Head TSL parameters	normalized to 1W	56.4 W/kg ± 17.0 % (k=2)	
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition		
SAR measured	250 mW input power	6.40 W/kg	
SAR for nominal Head TSL parameters	normalized to 1W		

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.5	2.16 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.6 ± 6 %	2.22 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.8 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	54.3 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.16 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.4 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	47.8 Ω - 7.7 jΩ
Return Loss	- 21.8 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	44.8 Ω - 5.8 jΩ	
Return Loss	- 21.7 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.154 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 22, 2015

DASY5 Validation Report for Head TSL

Date: 10.07.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1126

Communication System: UID 0 - CW; Frequency: 2600 MHz Medium parameters used: f = 2600 MHz; $\sigma = 2.04$ S/m; $\varepsilon_r = 37.2$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

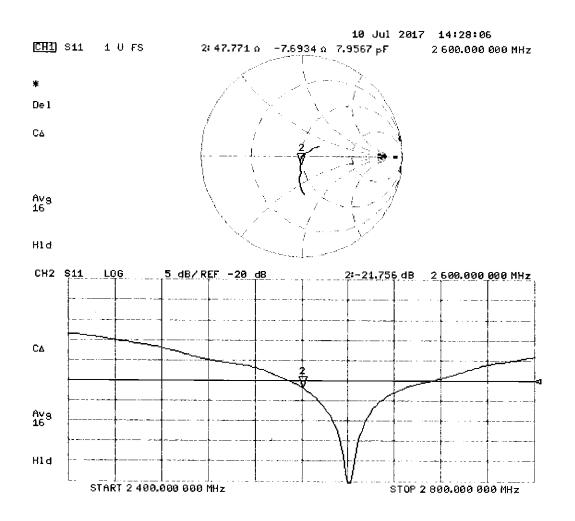
- Probe: EX3DV4 SN7349; ConvF(7.96, 7.96, 7.96); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 113.2 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 31.3 W/kg SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.4 W/kg Maximum value of SAR (measured) = 24.0 W/kg



0 dB = 24.0 W/kg = 13.80 dBW/kg



DASY5 Validation Report for Body TSL

Date: 10.07.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1126

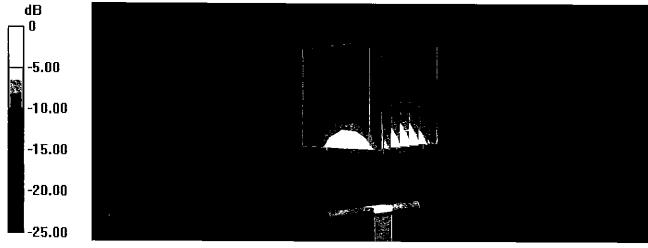
Communication System: UID 0 - CW; Frequency: 2600 MHz Medium parameters used: f = 2600 MHz; $\sigma = 2.22$ S/m; $\epsilon_r = 51.6$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

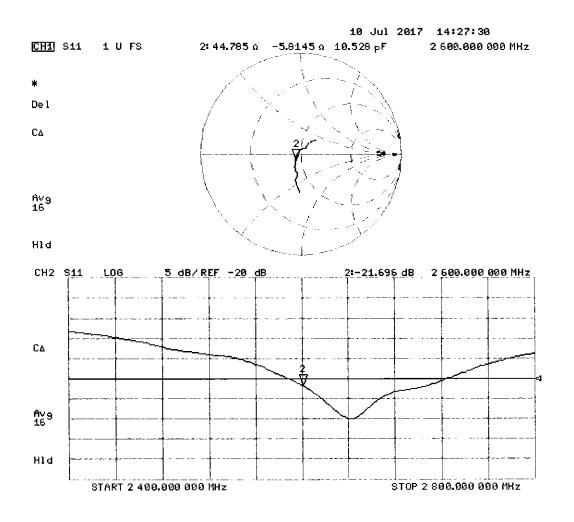
- Probe: EX3DV4 SN7349; ConvF(7.94, 7.94, 7.94); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 103.8 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 28.9 W/kg SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.16 W/kg Maximum value of SAR (measured) = 22.2 W/kg



0 dB = 22.2 W/kg = 13.46 dBW/kg



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PC Test Client

Certificate No: ES3-3213_Feb18

CALIBRATION CERTIFICATE

Object

ES3DV3 - SN:3213

Calibration procedure(s)

QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes

Calibration date:

February 13, 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 ± 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-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02525)	Apr-18
Reference 20 dB Attenuator	SN: S5277 (20x)	07-Apr-17 (No. 217-02528)	Apr-18
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-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:	Michael Weber	Laboratory Technician	
			MICE
Approved by:	Katja Pokovic	Technical Manager	PILL
			10000
			Issued: February 13, 2018
This calibration certificate	shall not be reproduced except in full	without written approval of the laboratory	4.



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Glossarv: tissue simulating liquid TSL NORMx,y,z sensitivity in free space sensitivity in TSL / NORMx,y,z ConvF DCP diode compression point crest factor (1/duty_cycle) of the RF signal CF modulation dependent linearization parameters A, B, C, D φ rotation around probe axis Polarization ϕ 9 rotation around an axis that is in the plane normal to probe axis (at measurement center), Polarization 9 i.e., $\vartheta = 0$ is normal to probe axis

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the 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).

Probe ES3DV3

SN:3213

Calibrated:

Manufactured: October 14, 2008 February 13, 2018

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3213

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	1.43	1.32	1.29	± 10.1 %
DCP (mV) ^B	100.3	104.3	100.0	

Modulation Calibration Parameters

UID	Communication System Name		Α	В	С	D	VR	Unc [⊨]
			dB	dB√μV		dB	mV	(k=2)
0	CW	X	0.0	0.0	1.0	0.00	219.3	±2.7 %
		Y	0.0	0.0	1.0		219.1	
		Z	0.0	0.0	1.0		213.7	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ^{-₂}	T2 ms.V⁻¹	T3 ms	T4 V⁻²	T5 V⁻¹	Т6
Х	55.43	404.4	36.34	28.23	1.967	5.10	0.398	0.555	1.011
Y	56.36	406.4	35.71	28.34	2.153	5.10	1.040	0.438	1.013
Z	52.80	385.3	36.34	28.19	1.829	5.10	0.000	0.541	1.011

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

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

 ^B Numerical linearization parameter: uncertainty not required.
 ^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3213

f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	6.75	6.75	6.75	0.64	1.30	± 12.0 %
835	41.5	0.90	6.42	6.42	6.42	0.48	1.50	± 12.0 %
1750	40.1	1.37	5.45	5.45	5.45	0.52	1.41	± 12.0 %
1900	40.0	1.40	5.30	5.30	5.30	0.79	1.17	± 12.0 %
2300	39.5	1.67	4.94	4.94	4.94	0.59	1.37	± 12.0 %
2450	39.2	1.80	4.72	4.72	4.72	0.80	1.21	± 12.0 %
2600	39.0	1.96	4.53	4.53	4.53	0.72	1.33	± 12.0 %

Calibration Parameter Determined in Head Tissue Simulating Media

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

^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. ^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

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

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3213

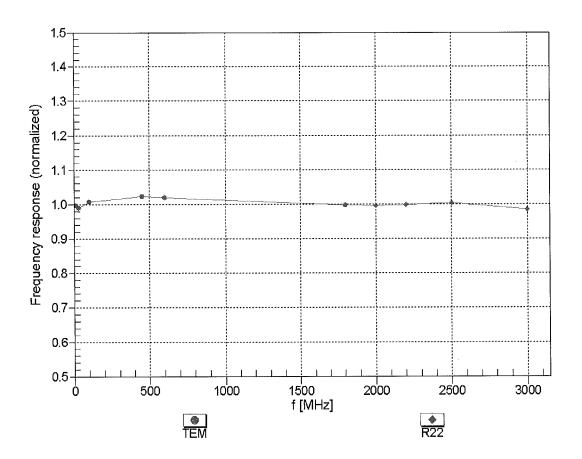
			-		-			
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	6.30	6.30	6.30	0.80	1.13	± 12.0 %
835	55.2	0.97	6.20	6.20	6.20	0.41	1.66	± 12.0 %
1750	53.4	1.49	5.10	5.10	5.10	0.37	1.82	± 12.0 %
1900	53.3	1.52	4.88	4.88	4.88	0.59	1.51	± 12.0 %
2300	52.9	1.81	4.62	4.62	4.62	0.80	1.30	± 12.0 %
2450	52.7	1.95	4.53	4.53	4.53	0.80	1.25	± 12.0 %
2600	52.5	2.16	4.33	4.33	4.33	0.80	1.25	± 12.0 %

Calibration Parameter Determined in Body Tissue Simulating Media

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

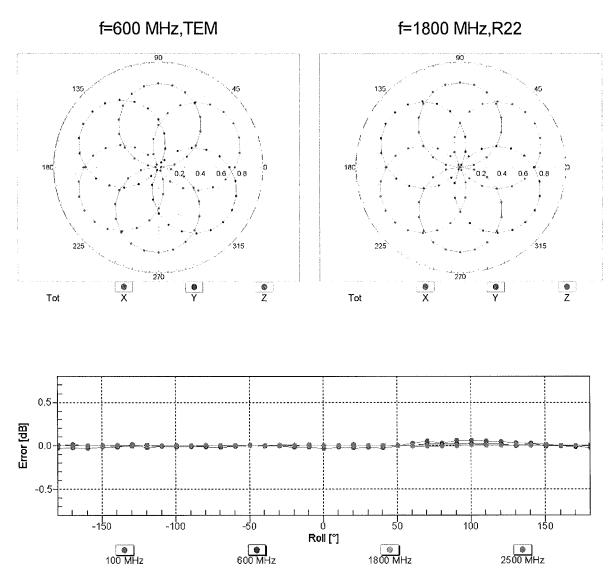
^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to \pm 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to \pm 5%. The uncertainty is the RSS of the ConvF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

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



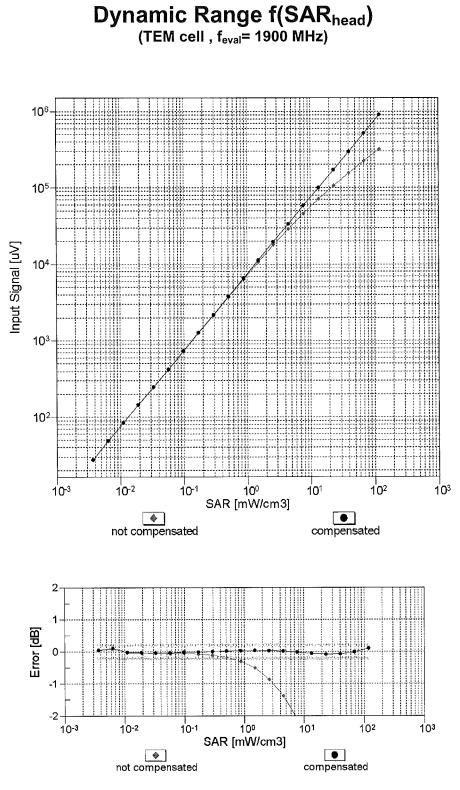
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

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

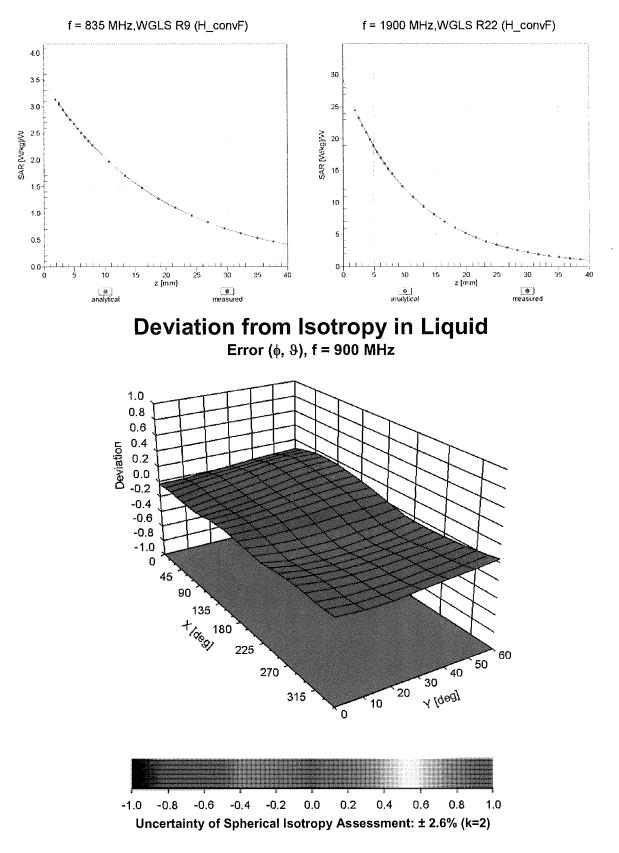


Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

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



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



Conversion Factor Assessment

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3213

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	100.6
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max Unc ^E (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	219.3	± 2.7 %
		Y	0.00	0.00	1.00		219.1	
10010		Z	0.00	0.00	1.00	10.00	213.7	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	Х	7.64	78.36	17.77	10.00	25.0	± 9.6 %
		Y	8.93	80.69	18.99		25.0	
10011-	UMTS-FDD (WCDMA)	Z X	7.43 0.94	77.97 65.73	17.46 13.94	0.00	25.0	100%
CAB						0.00	150.0	± 9.6 %
		Y	1.08	67.98	15.48		150.0	
10012-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	Z X	0.93	65.52 64.18	13.77 15.06	0.44	150.0	
CAB	Mbps)					0.41	150.0	± 9.6 %
		Y	1.29	65.11	15.84		150.0	
40040		Z	1.22	64.10	14.97	A 4-	150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	5.06	67.01	17.27	1.46	150.0	± 9.6 %
		Y	5.11	67.24	17.46		150.0	
		Z	5.03	67.01	17.25		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	58.23	111.57	29.90	9.39	50.0	± 9.6 %
		Y	38.28	105.54	28.67		50.0	
		Ζ	83.35	116.76	31.01		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	×	42.41	106.55	28.63	9.57	50.0	± 9.6 %
		Y	31.06	102.12	27.76		50.0	
		Ζ	55.17	110.35	29.43		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	116.42	29.15	6.56	60.0	±9.6 %
		Y	100.00	117.64	29.89		60.0	
		Z	100.00	115.95	28.84		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	22.66	114.16	43.61	12.57	50.0	± 9.6 %
		Y	32.36	125.54	47.77		50.0	
		Z	20.92	112.18	42.96		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	×	22.06	107.62	37.21	9.56	60.0	± 9.6 %
		Y	29.09	114.84	39.79		60.0	
		Z	22.32	108.24	37.43		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	114.90	27.59	4.80	80.0	± 9.6 %
		Y	100.00	116.49	28.47		80.0	
		Z	100.00	114.42	27.29		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	114.37	26.58	3.55	100.0	± 9.6 %
		Y	100.00	116.53	27.70		100.0	
		Z	100.00	113.85	26.28		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	13.21	95.56	31.98	7.80	80.0	± 9.6 %
		Y	16.23	100.64	33.98		80.0	
10030-	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Z X	13.05 100.00	95.55 114.59	31.99 27.76	5.30	80.0 70.0	± 9.6 %
CAA		<u>, .</u>	400.00	110.05	00.00			
		Y	100.00	116.05	28.60		70.0	
10024	IEEE 902 15 1 Plusteeth (OEOK, DU2)	Z	100.00	114.06	27.44	1 0 0	70.0	+060/
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	112.38	24.24	1.88	100.0	± 9.6 %
		Y	100.00	116.66	26.24		100.0	
		Z	100.00	111.54	23.82		100.0	

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10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	112.51	23.27	1.17	100.0	± 9.6 %
UMA		Y	100.00	119.82	26.49		100.0	
		Z	100.00	119.82	20.49		100.0 100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	19.77	98.57	26.87	5.30	70.0	± 9.6 %
		Y	22.51	101.06	27.89		70.0	
		Z	20.62	99.03	26.84		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Х	5.26	81.87	19.91	1.88	100.0	± 9.6 %
		Y	7.30	87.04	22.01		100.0	
40005		Z	5.17	81.44	19.55		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	2.97	75.56	17.30	1.17	100.0	± 9.6 %
		Y	4.02	80.17	19.40		100.0	
10036-		Z	2.90	75.11	16.93		100.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	25.61	102.92	28.18	5.30	70.0	± 9.6 %
		Y	28.89	105.33	29.15		70.0	
10037-		Z	27.23	103.63	28.21	4.00	70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	5.03	81.31	19.68	1.88	100.0	± 9.6 %
		Y	7.01	86.52	21.80		100.0	
10038-	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Z	4.92	80.81	19.30		100.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	3.05	76.11	17.60	1.17	100.0	± 9.6 %
		Y	4.14	80.86	19.74		100.0	
10020		Z	2.97	75.64	17.22		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	X	1.52	68.64	14.11	0.00	150.0	± 9.6 %
		Y	1.86	71.69	15.85		150.0	
10040		Z	1.44	68.18	13.70		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	100.00	115.25	28.83	7.78	50.0	± 9.6 %
		Y	100.00	116.43	29.57		50.0	
10044-	IS-91/EIA/TIA-553 FDD (FDMA, FM)	Z	100.00	114.73	28.50	0.00	50.0	
CAA		X	0.00	111.44	0.10	0.00	150.0	± 9.6 %
		Y	0.00	116.05	0.75		150.0	
10049	DECT (TDD TDMA/CDM OFOK Full	Z	0.00	113.36	0.21	10.00	150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	15.69	90.02	25.55	13.80	25.0	± 9.6 %
		Y	13.84	87.79	25.13		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	17.52 19.88	91.95 94.41	25.99 25.54	10.79	25.0 40.0	± 9.6 %
		Y	17.39	92.41	25.24		40.0	
		z	22.32	96.16	25.89		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	15.96	91.92	25.75	9.03	50.0	± 9.6 %
		Y	16.02	92.06	26.04		50.0	
		Z	16.84	92.83	25.91		50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	Х	9.21	88.16	28.55	6.55	100.0	± 9.6 %
		Y	10.78	91.87	30.15		100.0	
40055		Ζ	9.04	87.96	28.49		100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	Х	1.36	66.07	16.00	0.61	110.0	± 9.6 %
		Y	1.46	67.28	16.91		110.0	
10055		_ Z_	1.35	65.96	15.91		110.0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	52.62	119.34	30.14	1.30	110.0	± 9.6 %
		Y	100.00	130.86	33.40		110.0	
		Ζ	47.54	117.73	29.68		110.0	

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	7.64	91.52	25.20	2.04	110.0	± 9.6 %
		Y	11.51	98.81	27.78		110.0	
		z	7.56	91.41	25.11		110.0	
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.79	66.76	16.54	0.49	100.0	± 9.6 %
		Y	4.84	66.99	16.73		100.0	
		Z	4.76	66.76	16.52		100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.82	66.91	16.68	0.72	100.0	± 9.6 %
		Y	4.87	67.15	16.87		100.0	
		Z	4.79	66.91	16.65		100.0	
10064- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.14	67.25	16.96	0.86	100.0	± 9.6 %
		Y	5.20	67.49	17.14		100.0	
		Z	5.10	67.24	16.93		100.0	
10065- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	5.04	67.27	17.12	1.21	100.0	± 9.6 %
		Y	5.10	67.51	17.31		100.0	
10000		Z	5.00	67.25	17.09		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.09	67.39	17.35	1.46	100.0	± 9.6 %
		Y	5.15	67.65	17.54		100.0	
400		Z	5.06	67.37	17.32		100.0	
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.41	67.60	17.83	2.04	100.0	± 9.6 %
		Y	5.47	67.85	18.03		100.0	
		Z	5.38	67.60	17.82		100.0	
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.53	67.90	18.19	2.55	100.0	± 9.6 %
		Y	5.60	68.19	18.41		100.0	
		Z	5.49	67.88	18.16		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.62	67.88	18.39	2.67	100.0	± 9.6 %
		Y	5.69	68.17	18.62		100.0	
		Z	5.57	67.88	18.36		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.20	67.23	17.66	1.99	100.0	± 9.6 %
		Y	5.25	67.48	17.85		100.0	
		Z	5.17	67.24	17.64		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	5.24	67.75	17.96	2.30	100.0	± 9.6 %
		Y	5.31	68.03	18.18		100.0	
		Z	5.21	67.74	17.94		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.36	68.08	18.38	2.83	100.0	± 9.6 %
		Y	5.44	68.38	18.61		100.0	
		Z	5.33	68.07	18.36		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.39	68.13	18.62	3.30	100.0	± 9.6 %
		Y	5.47	68.45	18.87		100.0	
		Z	5.36	68.12	18.60		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.52	68.55	19.10	3.82	90.0	± 9.6 %
		Y	5.61	68.93	19.38		90.0	
		Z	5.48	68.52	19.07		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.53	68.37	19.24	4.15	90.0	± 9.6 %
		Y	5.62	68.75	19.52		90.0	
		Z	5.50	68.36	19.22		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.57	68.46	19.34	4.30	90.0	± 9.6 %
· · · · · ·		Y	5.66	68.84	19.63		90.0	
		Z	5.54	68.44	19.32		90.0	

10081- CAB	CDMA2000 (1xRTT, RC3)	X	0.76	64.13	11.38	0.00	150.0	± 9.6 %
		Y	0.90	66.35	12.99	-	150.0	<u> </u>
		Z	0.73	63.81	11.00		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	1.73	62.47	7.53	4.77	80.0	± 9.6 %
		Y	1.91	63.29	8.22		80.0	
		Z	1.67	62.23	7.30		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	116.51	29.21	6.56	60.0	± 9.6 %
		Y	100.00	117.72	29.95		60.0	
40007		Z	100.00	116.03	28.90		60.0	
10097- CAB	UMTS-FDD (HSDPA)	X Y	1.73	66.45	14.86	0.00	150.0	± 9.6 %
		Y Z		67.58	15.67		150.0	
10098-	UMTS-FDD (HSUPA, Subtest 2)	X	1.71	66.38	14.75	0.00	150.0	
CAB	UMTS-FDD (HSOFA, Sublest 2)	Y	1.70	66.40	14.82	0.00	150.0	± 9.6 %
		-		67.56	15.65		150.0	
10099-	EDGE-FDD (TDMA, 8PSK, TN 0-4)	Z X	1.68 22.00	66.33 107.50	14.71 37.17	0.50	150.0	1000
DAC						9.56	60.0	± 9.6 %
		Y	28.88	114.61	39.71		60.0	
10100-	LTE-FDD (SC-FDMA, 100% RB, 20	Z X	22.27 3.03	108.13	37.40	0.00	60.0	
CAD	MHz, QPSK)	Y	3.03	69.43	16.03	0.00	150.0	± 9.6 %
		Z	2.99	70.56	16.70		150.0	
10101- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.23	69.29 67.20	15.96 15.61	0.00	150.0 150.0	± 9.6 %
0/10		Y	3.33	67.78	16.01		150.0	
	and the second s	Z	3.20	67.12	15.56		150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.34	67.12	15.71	0.00	150.0 150.0	± 9.6 %
		Y	3.42	67.69	16.08		150.0	
		Z	3.31	67.10	15.66		150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	8.49	78.45	21.33	3.98	65.0	± 9.6 %
		Y	8.79	79.00	21.62		65.0	
		Z	8.39	78.42	21.32		65.0	
10104- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	Х	8.27	76.76	21.53	3.98	65.0	± 9.6 %
		Y	8.57	77.41	21.89		65.0	
		Z	8.21	76.79	21.53		65.0	
10105- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	8.13	76.44	21.71	3.98	65.0	± 9.6 %
		Y	7.83	75.63	21.42		65.0	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	Z X	7.93 2.67	76.10 68.71	21.55 15.86	0.00	65.0 150.0	± 9.6 %
		Y	2.83	60.00	10 55		450.0	
		Z	2.63	69.80 68.57	16.55 15.78		150.0	
10109- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.89	66.95	15.47	0.00	150.0 150.0	± 9.6 %
		Y	2.98	67.57	15.91		150.0	
		Z	2.86	66.87	15.40		150.0	
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.17	67.76	15.45	0.00	150.0	± 9.6 %
		Y	2.32	68.94	16.22		150.0	
		Z	2.13	67.62	15.34		150,0	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.56	67.34	15.57	0.00	150.0	±9.6 %
		Y	2.66	68.04	16.08		150.0	
		Z	2.53	67.28	15.48		150.0	

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10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.02	66.95	15.54	0.00	150.0	± 9.6 %
		Y	3.10	67.51	15.95		150.0	
		Z	2.98	66.88	15.48		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.72	67,49	15.72	0.00	150.0	± 9.6 %
		Y	2.81	68.13	16.19		150.0	
		Z	2.68	67.45	15.64		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	Х	5.17	67.15	16.34	0.00	150.0	± 9.6 %
		Y	5.21	67.35	16.50		150.0	
		Z	5.15	67.16	16.34		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.53	67.49	16.54	0.00	150.0	± 9.6 %
		Y	5.58	67.70	16.70		150.0	
		Ζ	5.48	67.42	16.49		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.30	67.42	16.41	0.00	150.0	± 9.6 %
		Y	5.34	67.62	16.57		150.0	
		Z	5.27	67.41	16.40		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.15	67.08	16.33	0.00	150.0	± 9.6 %
		Y	5.20	67.30	16.50		150.0	
		Ζ	5.12	67.04	16.30		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16- QAM)	Х	5.63	67.73	16.67	0.00	150.0	± 9.6 %
		Y	5.66	67.91	16.81		150.0	
		Z	5.59	67.70	16.64		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64- QAM)	Х	5.27	67.36	16.39	0.00	150.0	± 9.6 %
		Y	5.31	67.56	16.55		150.0	
		Z	5.24	67.35	16.38		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	3.38	67.18	15.64	0.00	150.0	± 9.6 %
		Y	3.47	67.70	16.01		150.0	
		Z	3,35	67.11	15.59		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.50	67.27	15.81	0.00	150.0	± 9.6 %
		Y	3.59	67.74	16.15		150.0	
		Ζ	3.47	67.21	15.77		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.93	67.51	15.04	0.00	150.0	± 9.6 %
		Y	2.09	68.84	15.93		150.0	
		Ζ	1.89	67.35	14.89		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	2.38	67.70	15.18	0.00	150.0	± 9.6 %
		Y	2.51	68.61	15.82		150.0	
		Ζ	2.34	67.60	15.02		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.24	66.02	13.89	0.00	150.0	± 9.6 %
		Y	2.36	66.87	14.53		150.0	
		Z	2.19	65.88	13.71		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.22	64.47	11.59	0.00	150.0	± 9.6 %
		Y	1.37	66.07	12.76		150.0	
		Z	1.15	64.01	11.10		150.0	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	2.40	68.51	13.38	0.00	150.0	± 9.6 %
		Y	3.25	72.57	15.44		150.0	
		Ζ	2.13	67.36	12.68		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	2.86	70.85	14.59	0.00	150.0	± 9.6 %
	i interesting inte	Y	4.17	75.98	16.98		150.0	
	· · · · · · · · · · · · · · · · · · ·	Z	2.50	69.50	13.83		150.0	

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10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.90	67.00	15.51	0.00	150.0	± 9.6 %
		Y	2.99	67.62	15.95		150.0	
		Z	2.86	66.92	15.44		150.0	
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.02	66.99	15.58	0.00	150.0	± 9.6 %
		Y	3.11	67.55	15.98		150.0	
		Z	2.99	66.93	15.52		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	8.96	80.66	22.26	3.98	65.0	± 9.6 %
		Y	9.32	81.32	22.60		65.0	
		Z	9.00	80.93	22.35		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	7.88	76.96	21.35	3.98	65.0	± 9.6 %
		Y	8.23	77.73	21.78		65.0	
		Z	7.82	76.98	21.33		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	8.28	77.78	22.03	3.98	65.0	± 9.6 %
		Y	8.58	78.42	22.39		65.0	
		Z	8.24	77.86	22.04		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.21	68.11	15.68	0.00	150.0	± 9.6 %
		Y	2.36	69.30	16.45		150.0	
		Z	2.17	67.96	15.57		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.56	67.35	15.58	0.00	150.0	± 9.6 %
		Y	2.66	68.05	16.10		150.0	
		Z	2.53	67.29	15.50		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.77	67.43	14.78	0.00	150.0	± 9.6 %
		Y	1.94	68.94	15.78		150.0	
		Z	1.72	67.23	14.58		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.05	66.34	13.82	0.00	150.0	± 9.6 %
		Y	2.19	67.38	14.58		150.0	
		Z	2.00	66.16	13.59		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.72	67.54	15.76	0.00	150.0	± 9.6 %
		Y	2.82	68.17	16.23		150.0	
		Z	2.68	67.50	15.68		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.14	66.71	14.07	0.00	150.0	± 9.6 %
		Y	2.28	67.74	14.81		150.0	
		Z	2.09	66.52	13.84		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.72	68.07	15.82	0.00	150.0	± 9.6 %
		Y	2.84	68.89	16.38		150.0	
		Z	2.69	68.00	15.76		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.91	66.88	15.50	0.00	150.0	± 9.6 %
		Y	3.00	67.45	15.91		150.0	
		Z	2.88	66.82	15.43		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.02	67.01	15.60	0.00	150.0	± 9.6 %
		Y	3.11	67.54	16.00		150.0	
		Z	2.99	66.96	15.54		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.77	69.87	19.29	3.01	150.0	± 9.6 %
		Y	3.99	71.07	20.04		150.0	
		Z	3.62	69.43	19.11		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.72	72.88	19.79	3.01	150.0	± 9.6 %
		Y	5.23	74.95	20.86		150.0	
		Z	4.39	72.04	19.48		150.0	· · · · · · · · · · · · · · · · · · ·

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10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	5.18	74.86	20.97	3.01	150.0	± 9.6 %
		Y	5.75	76.97	22.01		150.0	
		Z	4.80	74.00	20.67		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.27	70.16	19.42	3.01	150.0	± 9.6 %
		Y	3.60	72.33	20.65		150.0	
		Z	3.01	68.98	18.94		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	4.60	76.17	21.67	3.01	150.0	± 9.6 %
		Y	5.62	80.32	23.51		150.0	
		Z	3.98	74.14	20.96		150.0	
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	3.81	72.17	19.05	3.01	150.0	± 9.6 %
		Y	4.54	75.67	20.74		150.0	
		Z	3.36	70.59	18.47		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	30.28	111.82	34.48	6.02	65.0	± 9.6 %
		Y	76.86	130.98	39.85		65.0	
		Z	23.60	107.83	33.49		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	34.72	108.92	31.80	6.02	65.0	± 9.6 %
		Y	74.54	122.99	35.68		65.0	
		Z	31.06	107.91	31.67		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	26.76	102.85	29.55	6.02	65.0	± 9.6 %
		Y	50.48	114.18	32.83		65.0	
		Z	23.63	101.61	29.31		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.23	69.86	19.18	3.01	150.0	± 9.6 %
		Y	3.55	72.01	20.41		150.0	
		Z	2.98	68.71	18.72		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	4.60	76.19	21.68	3.01	150.0	± 9.6 %
		Y	5.63	80.35	23.53		150.0	
		Z	3.98	74.16	20.97		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.26	70.01	19.27	3.01	150.0	± 9.6 %
		Y	3.58	72.16	20.50		150.0	
		Z	3.00	68.84	18.80		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	4.55	75.95	21.56	3.01	150.0	±9.6 %
		Y	5.56	80.06	23.39		150.0	
		Z	3.95	73.96	20.86		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	4.17	74.04	20.23	3.01	150.0	±9.6 %
		Y	5.04	77.87	21.99		150.0	
		Z	3.65	72.28	19.60		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	3.80	72.10	19.00	3.01	150.0	± 9.6 %
		Y	4.52	75.59	20.69		150.0	
		Z	3.36	70.53	18.43		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	×	3.25	69.99	19.27	3.01	150.0	± 9.6 %
		Y	3.58	72.15	20.49		150.0	
		Z	3.00	68.83	18.80		150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	4.54	75.93	21.54	3.01	150.0	±9.6 %
		Y	5.55	80.04	23.38		150.0	
		Z	3.94	73.93	20.85		150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	3.79	72.07	18.99	3.01	150.0	± 9.6 %
		Y	4.51	75.56	20.68		150.0	
		Z	3.35	70.51	18.42		150.0	

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10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.26	70.03	19.29	3.01	150.0	± 9.6 %
		Y	3.59	72,19	20.51		150.0	
		Z	3.01	68.87	18.82		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	4.56	76.00	21.58	3.01	150.0	± 9.6 %
		Y	5.57	80.12	23.42	1	150.0	
		Ζ	3.96	74.00	20.89		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	3.81	72.14	19.03	3.01	150.0	± 9.6 %
		Y	4.54	75.64	20.72		150.0	
		Z	3.37	70.57	18.45		150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.27	70.08	19.34	3.01	150.0	± 9.6 %
		Y	3.60	72.24	20.57		150.0	
		Z	3.02	68.91	18.87		150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	4.71	76.65	21.94	3.01	150.0	± 9.6 %
		Υ	5.78	80.88	23.80		150.0	
		Z	4.07	74.57	21.23		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.89	72.56	19.29	3.01	150.0	± 9.6 %
		Υ	4.65	76.13	21.00		150.0	
		Z	3.43	70.95	18.70		150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.57	66.50	16.04	0.00	150.0	± 9.6 %
		Y	4.61	66.73	16.23		150.0	
		Z	4.54	66.49	16.01		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.75	66.84	16.16	0.00	150.0	± 9.6 %
		Y	4.80	67.09	16.35		150.0	
		Z	4.71	66.82	16.14		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.79	66.87	16.18	0.00	150.0	± 9.6 %
		Y	4.84	67.11	16.37		150.0	
		Z	4.76	66.85	16.15		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.58	66.58	16.07	0.00	150.0	±9.6 %
		Y	4.63	66.82	16.26		150.0	
		Ζ	4.54	66.56	16.03		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16- QAM)	X	4.77	66.86	16.18	0.00	150.0	± 9.6 %
		Y	4.82	67.11	16.37		150.0	
		Z	4.73	66.84	16.15		150.0	
10198- CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM)	X	4.80	66.89	16.19	0.00	150.0	± 9.6 %
		Y	4.85	67.13	16.38		150.0	
		Z	4.76	66.87	16.17		150.0	
10219- CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.52	66.58	16.02	0.00	150.0	± 9.6 %
		Y	4.58	66.83	16.22		150.0	
		Z	4.49	66.56	15.99		150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16- QAM)	X	4.76	66.85	16.17	0.00	150.0	±9.6 %
		Y	4.81	67.09	16.36		150.0	
		Z	4.72	66.82	16.14		150.0	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64- QAM)	Х	4.80	66.82	16.18	0.00	150.0	± 9.6 %
		Y	4.86	67.06	16.37		150.0	
		Ζ	4.77	66.80	16.16		150.0	
10222- CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.13	67.08	16.32	0.00	150.0	±9.6 %
		Y	5.18	67.32	16.50		150.0	
		Z	5.10	67.04	16.29		150.0	

10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16- QAM)	X	5.46	67.35	16.49	0.00	150.0	± 9.6 %
0.00		Y	5.51	07.50	10.00		450.0	
		Z		67.58	16.66		150.0	
10224-	IEEE 802.11n (HT Mixed, 150 Mbps, 64-		5.42	67.30	16.45	0.00	150.0	
CAC	QAM)	X	5.17	67.18	16.29	0.00	150.0	± 9.6 %
		Y	5.22	67.40	16.46		150.0	
40005		Z	5.14	67.14	16.27		150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	2.80	65.74	15.07	0.00	150.0	± 9.6 %
		Y	2.87	66.19	15.45		150.0	
		Z	2.77	65.70	14.98		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	37.38	110.41	32.30	6.02	65.0	± 9.6 %
		Y	81.50	124.82	36.22		65.0	
		Z	33.47	109.42	32.18		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	29.60	104.69	30.14	6.02	65.0	± 9.6 %
		Y	53.65	115.37	33.21		65.0	
		Z	27.65	104.42	30.19		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	32.41	113.60	35.07	6.02	65.0	± 9.6 %
		Y	69.82	129.54	39.59		65.0	
		Z	28.33	111.82	34.72		65.0	
10229-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-	X	34.78	108.94	31.81	6.02	65.0	± 9.6 %
CAB	QAM)	Y	74.32	122.93	35.67		65.0	2 0.0 %
		Z	31.14	107.94	31.68		65.0	
10230-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-	X	27.87			6.00		1000
CAB	QAM)			103.54	29.74	6.02	65.0	± 9.6 %
		Y	50.12	114.03	32.79		65.0	
40004		Z	25.97	103.21	29.78		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	30.34	112.17	34.60	6.02	65.0	± 9.6 %
		Y	64.44	127.76	39.06		65.0	
10000		Z	26.54	110.39	34.24		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	34.78	108.95	31.81	6.02	65.0	± 9.6 %
		Y	74.45	122.97	35.68		65.0	
		Z	31.13	107.95	31.68		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	27.88	103.55	29.75	6.02	65.0	± 9.6 %
		Y	50.22	114.08	32.80		65.0	
		Z	25.97	103.22	29.78		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	28.47	110.69	34.07	6.02	65.0	± 9.6 %
		Y	59.28	125.81	38.45		65.0	
		Z	24.97	108.97	33.72		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	34.92	109.04	31.84	6.02	65.0	± 9.6 %
		Y	75.02	123.12	35.72		65.0	
		Z	31.25	108.03	31.71		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	28.18	103.71	29.79	6.02	65.0	± 9.6 %
		Y	50.93	114.30	32.85		65.0	
10237-		Z	26.26	103.39	29.82	6.00	65.0	+0.0.04
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	30.66	112.40	34.66	6.02	65.0	± 9.6 %
		Y	65.75	128.19	39.17		65.0	
		Z	26.79	110.61	34.30		65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	34.79	108.97	31.82	6.02	65.0	± 9.6 %
		Y	74.62	123.02	35.69		65.0	
		Z	31.13	107.96	31.69		65.0	

10239-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	X	27.87	103.57	29.75	6.02	65.0	± 9.6 %
CAD	64-QAM)		50.20	11/ 10	22.00		65.0	
		Y Z	50.30	114.13	32.82		65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	25.95 30.53	103.23 112.33	29.78 34.64	6.02	65.0 65.0	± 9.6 %
		Y	65.39	128.09	39.15		65.0	
		Z	26.68	110.54	34.28		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	11.82	86.67	27.53	6.98	65.0	± 9.6 %
		Y	13.66	90.07	29.00		65.0	
		Z	11.24	86.07	27.33		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	11.41	85.92	27.17	6.98	65.0	± 9.6 %
		Y	13.45	89.74	28.82		65.0	
40040		Z	10.57	84.73	26.73		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	9.24	83.16	27.04	6.98	65.0	± 9.6 %
		Y	10.64	86.64	28.68		65.0	
10044		Z	8.64	81.99	26.56	0.00	65.0	1000
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	9.03	80.20	20.72	3.98	65.0	± 9.6 %
		Y	9.95	81.82	21.52		65.0	
10245-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	Z X	8.70 8.84	79.77 79.62	20.42	2.00	65.0	+0.0.0/
CAB	64-QAM)	Y			20.45	3.98	65.0	± 9.6 %
		T Z	9.72 8.49	81.20 79.13	21.24 20.13		65.0	
10246-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	X	8.49	82.28	20.13	3.98	65.0	+06%
CAB	QPSK)	^ Y				3.90	65.0	± 9.6 %
		Y Z	9.40	83.61	22.04		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	8.57 7.23	82.11 77.21	21.15 20.08	3.98	65.0 65.0	± 9.6 %
0/10		Y	7.59	77.99	20.54		65.0	
		Z	7.13	77.07	19.88		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	7.20	76.70	19.86	3.98	65.0	± 9.6 %
		Y	7.57	77.51	20,35		65,0	
		Z	7.09	76.52	19.65		65.0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	9.92	84.79	23.00	3.98	65.0	± 9.6 %
		Y	10.62	85.95	23.57		65.0	
		Z	10.01	85.03	22.98		65.0	
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	8.21	79.48	22.35	3.98	65.0	± 9.6 %
		Y	8.54	80.13	22.71		65.0	
		Z	8.20	79.60	22.34		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	7.75	77.32	21.20	3.98	65.0	± 9.6 %
		Y	8.11	78.10	21.64		65.0	
100		Z	7.70	77.35	21.14		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	9.77	84.02	23.49	3.98	65.0	± 9.6 %
		Y	10.31	84.92	23.94		65.0	
40050		Z	9.89	84.42	23.60		65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	7.68	76.36	21.13	3.98	65.0	± 9.6 %
		Y	8.00	77.10	21.55		65.0	
10051		Z	7.63	76.40	21.10		65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	8.06	77.17	21.76	3.98	65.0	± 9.6 %
		Y	8.36	77.82	22.13		65.0	
		Z	8.03	77.25	21.75		65.0	

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10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	8.65	80.28	22.35	3.98	65.0	± 9.6 %
		Y	9.02	80.99	22.72		65.0	1
		Z	8.68	80.54	22.43		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	7.67	77.22	18.70	3.98	65.0	± 9.6 %
		Y	8.58	78.99	19.61		65.0	
		Z	7.24	76.45	18.22		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	7.44	76.40	18.29	3.98	65.0	± 9.6 %
		Y	8.29	78.12	19.18		65.0	
		Z	6.99	75.59	17.78		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	7.04	78.52	19.29	3.98	65.0	± 9.6 %
		Y	7.71	79.96	20.05		65.0	
		Z	6.74	77.86	18.83		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	7.62	78.03	20.88	3.98	65.0	± 9.6 %
		Y	7.97	78.76	21.31		65.0	
		Z	7.55	78.00	20.76		65.0	<u> </u>
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	7.62	77.74	20.79	3.98	65.0	± 9.6 %
		Y	7.97	78.46	21.21		65.0	
		Z	7.55	77.69	20.65		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	9.43	83.76	22.98	3.98	65.0	± 9.6 %
		Y	10.04	84.84	23.52		65.0	
		Z	9.50	84.03	22.99		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	8.20	79.43	22.31	3.98	65.0	± 9.6 %
		Y	8.53	80.09	22.68		65.0	
		Z	8.18	79.55	22.30		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	7.75	77.31	21.19	3.98	65.0	± 9.6 %
		Y	8.10	78.09	21.64		65.0	
		Z	7.69	77.34	21.14		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Х	9.70	83.85	23.41	3.98	65.0	± 9.6 %
		Y	10.24	84.77	23.87		65.0	
		Z	9.81	84.24	23.51		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	7.88	76.96	21.35	3.98	65.0	± 9.6 %
		Y	8.22	77.73	21.78		65.0	
		Z	7.82	76.99	21.33		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	8.27	77.77	22.03	3.98	65.0	± 9.6 %
		Y	8.58	78.42	22.39		65.0	!
		Z	8.23	77.85	22.03		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	8.94	80.62	22.25	3.98	65.0	± 9.6 %
		Y	9.31	81.28	22.59		65.0	
		Z	8.98	80.89	22.34		65.0	· · · · ·
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	8.36	76.49	21.55	3.98	65.0	± 9.6 %
		Y	8.63	77.08	21.88		65.0	
		Z	8.31	76.53	21.55		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	8.29	76.07	21.45	3.98	65.0	± 9.6 %
		Y	8.55	76.65	21.78		65.0	
		Z	8.24	76.11	21.45		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	8.43	77.83	21.33	3.98	65.0	± 9.6 %
		Y	8.69	78.31	21.60		65.0	
		Z	8.42	77.98	21.39		65.0	

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10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.55	65.90	14.85	0.00	150.0	± 9.6 %
		Y	2.63	66.48	15.31		150.0	
		Z	2.53	65.88	14.78		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.52	66.64	14.62	0.00	150.0	± 9.6 %
		Y	1.66	68.17	15.66		150.0	
		Z	1.50	66.49	14.49		150.0	
10277- CAA	PHS (QPSK)	X	4.62	67.49	12.27	9.03	50.0	± 9.6 %
		Y	5.00	68.49	13.05		50.0	
		Z	4.42	66.98	11.81		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	8.56	79.12	19.84	9.03	50.0	± 9.6 %
		Y	9.04	80.04	20.47		50.0	
		Ζ	8.20	78.37	19.32		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	8.72	79.33	19.94	9.03	50.0	± 9.6 %
		Y	9.22	80.28	20.58		50.0	
		Z	8.35	78.58	19.43		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	1.31	66.62	12.89	0.00	150.0	± 9.6 %
		Y	1.55	69.01	14.40		150.0	
		Z	1.25	66.21	12.49		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	0.75	63.97	11.28	0.00	150.0	± 9.6 %
		Y	0.88	66.12	12.85		150.0	
		Z	0.72	63.66	10.91		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	0.85	66.24	12.81	0.00	150.0	± 9.6 %
		Y	1.08	69.81	15.02		150.0	
		Z	0.81	65.82	12.39		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	1.07	69.43	14.80	0.00	150.0	± 9.6 %
		Y	1.49	74.49	17.52		150.0	
		Z	1.02	68.94	14.36		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	11.66	86.40	24.85	9.03	50.0	± 9.6 %
		Y	11.94	86.89	25.26		50.0	
		Z	12.14	87.13	24.94		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.68	68.79	15.92	0.00	150.0	± 9.6 %
		Y	2.84	69.89	16.60		150.0	
		Z	2.64	68.65	15.84		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.50	66.36	13.40	0.00	150.0	± 9.6 %
		Y	1.68	68.07	14.56		150.0	
		Z	1.44	66.01	13.05		150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	2.99	70.93	15.34	0.00	150.0	± 9.6 %
		Y	3.88	74.74	17.20		150.0	
		Ζ	2.71	70.03	14.84		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	2.29	66.50	12.57	0.00	150.0	± 9.6 %
		Y	2.73	68.87	13.94		150.0	
	·	Z	2.09	65.76	12.08		150.0	
10301- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	5.48	67.66	18.50	4.17	80.0	± 9.6 %
		Y	5.78	68.84	19.23		80.0	
		Z	5.37	67.36	18.28		80.0	
10302- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.94	68.12	19.14	4.96	80.0	± 9.6 %
	,	Y	6.22	69.31	19.91		80.0	
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10303-	IEEE 802.16e WiMAX (31:15, 5ms,	X	5.76	68.09	19.15	4.96	80.0	± 9.6 %
AAA	10MHz, 64QAM, PUSC)		0.07		10.00			
		Y Z	6.07 5.69	69.41	19.99		80.0	
10304-	IEEE 802.16e WiMAX (29:18, 5ms,	X	5.43	67.97 67.45	19.02 18.35	4.17	80.0	
AAA	10MHz, 64QAM, PUSC)					4.17	80.0	± 9.6 %
		Y	5.68	68.54	19.05		80.0	
10305-		Z	5.37	67.37	18.26		80.0	
AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	7.18	77.42	24.28	6.02	50.0	± 9.6 %
		Y	9.01	83.08	27.04		50.0	
10306-	IEEE 802.16e WiMAX (29:18, 10ms,	Z	7.00	76.95	23.93		50.0	
AAA	10MHz, 64QAM, PUSC, 18 symbols)	X	5.96	70.23	20.82	6.02	50.0	± 9.6 %
		Y	6.58	72.76	22.30		50.0	
10307-	IEEE 802.16e WiMAX (29:18, 10ms,	Z	5.86	69.99	20.61	0.00	50.0	
AAA	10MHz, QPSK, PUSC, 18 symbols)	X	6.41	73.34	22.47	6.02	50.0	± 9.6 %
		Y	6.70	73.58	22.50		50.0	
10000		Z	6.29	73.03	22.22		50.0	
10308- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	6.49	73.92	22.75	6.02	50.0	± 9.6 %
		Y	6.78	74.12	22.76		50.0	
40000		Z	6.37	73.60	22.50		50.0	
10309- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	6.06	70.55	21.00	6.02	50.0	± 9.6 %
		Y	6.71	73.17	22.53		50.0	
10010		Z	5.95	70.29	20.78		50.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	5.95	70.41	20.82	6.02	50.0	±9.6 %
		Y	6.61	73.05	22.35		50.0	
		Z	6.20	72.46	22.04		50.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.02	68.11	15.62	0.00	150.0	± 9.6 %
		Y	3.19	69.13	16.23		150.0	
		Z	2.98	67.98	15.55		150.0	
10313- AAA	iDEN 1:3	X	6.80	77.50	18.05	6.99	70.0	±9.6 %
		Y	7.71	79.38	18.97		70.0	
		Z	6.80	77.56	18.00		70.0	
10314- AAA	iDEN 1:6	X	9.17	84.53	23.10	10.00	30.0	± 9.6 %
		Y	10.17	86.19	23.87		30.0	
		Z	9.47	85.21	23.28		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.09	63.63	14.71	0.17	150.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	1.15	64.55	15.51		150.0	
		Z	1.08	63.56	14.63		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	X	4.67	66.69	16.26	0.17	150.0	± 9.6 %
		Y	4.72	66.94	16.46		150.0	
		Z	4.64	66.69	16.24		150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.67	66.69	16.26	0.17	150.0	± 9.6 %
		Y	4.72	66.94	16.46		150.0	
		Z	4.64	66.69	16.24		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.75	66.92	16.17	0.00	150.0	± 9.6 %
		Y	4.81	67.18	16.37		150.0	
		Z	4.72	66.89	16.14		150.0	
		X	5.45	67.19	16.39	0.00	150.0	± 9.6 %
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	^	0.40	07.10				
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	Y	5.49	67.37	16.55		150.0	

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10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.72	67.54	16.41	0.00	150.0	± 9.6 %
		Y	5.76	67.75	16.56		150.0	
		Z	5.68	67.48	16.38		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	×X	1.31	66.62	12.89	0.00	115.0	± 9.6 %
		Y	1.55	69.01	14.40		115.0	
		Z	1.25	66.21	12.49		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	1.31	66.62	12.89	0.00	115.0	±9.6 %
		Y	1.55	69.01	14.40		115.0	
		Z	1.25	66.21	12.49		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	25.28	103.83	26.72	0.00	100.0	± 9.6 %
		Y	100.00	122.83	31.28		100.0	
		Z	15.62	98.87	25.67		100.0	
10410- AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	120.77	30.63	3.23	80.0	± 9.6 %
		Y	100.00	121.50	31.09		80.0	
		Z	100.00	121.84	30.99		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	0.97	62.31	13.89	0.00	150.0	± 9.6 %
		Y	1.01	63.10	14.65		150.0	
		Z	0.96	62.25	13.81		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.57	66.54	16.10	0.00	150.0	± 9.6 %
		Y	4.62	66.78	16.29		150.0	
		Z	4.54	66.53	16.07		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.57	66.54	16.10	0.00	150.0	± 9.6 %
		Y	4.62	66.78	16.29		150.0	
		Z	4.54	66.53	16.07		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.55	66.67	16.10	0.00	150.0	± 9.6 %
		Y	4.61	66.92	16.30		150.0	
		Z	4.53	66.67	16.08		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.58	66.63	16.11	0.00	150.0	± 9.6 %
		Y	4.63	66.88	16.30		150.0	
		Z	4.55	66.63	16.09		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.70	66.66	16.14	0.00	150.0	± 9.6 %
		Y	4.75	66.89	16.33		150.0	
		Z	4.67	66.65	16.12		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.89	67.00	16.27	0.00	150.0	± 9.6 %
		Y	4.94	67.25	16.46		150.0	
		Z	4.85	66.98	16.24		150.0	
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.80	66.94	16.23	0.00	150.0	± 9.6 %
		Y	4.85	67.19	16.42		150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	Z X	<u>4.76</u> 5.43	66.92 67.40	16.20 16.49	0.00	150.0 150.0	± 9.6 %
			E 40	67.50	10.01		450.0	
		Y	5.46	67.59	16.64		150.0	
10406		Z	5.40	67.39	16.48	0.0	150.0	
10426- AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.43	67.42	16.49	0.00	150.0	± 9.6 %
		Y	5.47	67.60	16.64		150.0	
		Z	5.40	67.41	16.48		150.0	

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.43	67.37	16.46	0.00	150.0	± 9.6 %
		Y	5.47	67.57	16.62		150.0	
		Z	5.41	67.36	16.45	-	150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.15	69.76	17.63	0.00	150.0	± 9.6 %
		Y	4.19	69.88	17.76		150.0	
		Z	4.12	69.84	17.60		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.26	67.02	16.07	0.00	150.0	± 9.6 %
		Y	4.33	67.32	16.31		150.0	
		Z	4.22	67.00	16.02		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.56	66.95	16.16	0.00	150.0	± 9.6 %
		Y	4.62	67.22	16.37		150.0	
		Z	4.52	66.93	16.13		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.81	66.98	16.25	0.00	150.0	± 9.6 %
		Y	4.87	67.22	16.44		150.0	
10/07		Z	4.78	66.96	16.22		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.20	70.38	17.52	0.00	150.0	± 9.6 %
		Y	4.25	70.53	17.68	ļ	150.0	
10425		Z	4.16	70.46	17.47	0.00	150.0	
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	120.59	30.55	3.23	80.0	± 9.6 %
		Y	100.00	121.33	31.01		80.0	
10117		Z	100.00	121.65	30.91		80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	×	3.54	66.87	15.35	0.00	150.0	± 9.6 %
		Y	3.62	67.29	15.69		150.0	
		Z	3.49	66.83	15.25		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	×	4.09	66.78	15.91	0.00	150.0	± 9.6 %
		Y	4.15	67.09	16.16		150.0	
		Z	4.05	66.76	15.87		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	×	4.36	66.75	16.04	0.00	150.0	± 9.6 %
		Y	4.42	67.03	16.26		150.0	
		Z	4.33	66.74	16.01		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	×	4.56	66.71	16.09	0.00	150.0	± 9.6 %
		Y	4.61	66.97	16.29		150.0	
		Z	4.53	66.69	16.06		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.43	67.01	14.98	0.00	150.0	± 9.6 %
		Y	3.53	67.50	15.37		150.0	
10/75		Z	3.37	66.93	14.84		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.29	67.98	16.66	0.00	150.0	± 9.6 %
		Y	6.32	68.16	16.79		150.0	
40/57		Z	6.26	67.96	16.65		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.79	65.17	15.80	0.00	150.0	± 9.6 %
		Y	3.83	65.41	16.01		150.0	
10/50		Z	3.78	65.16	15.77		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.84	69.59	16.93	0.00	150.0	± 9.6 %
		Y	3.91	69.84	17.18		150.0	
10/70		Z	3.81	69.69	16.86		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	5.05	67.70	17.82	0.00	150.0	± 9.6 %
		Y	5.09	67.77	17.90		150.0	
	1	Z	5.00	67.75	17.77		150.0	

10460-	UMTS-FDD (WCDMA, AMR)	X	0.79	65.91	14.37	0.00	150.0	± 9.6 %
AAA								
		Y	0.92	68.57	16.19		150.0	
10461-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z X	0.78	65,69	14.19	2.00	150.0	100%
AAA	QPSK, UL Subframe=2,3,4,7,8,9)		100.00	124.09	32.24	3.29	80.0	± 9.6 %
		Y	100.00	125.81	33.13		80.0	
10460		Z	100.00	125.28	32.66		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	82.18	106.66	24.50	3.23	80.0	± 9.6 %
		Y	100.00	110.22	25.68		80.0	
10463-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z X	90.90	108.32	24.86	0.00	80.0	
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)		13.11	84.75	18.36	3.23	80.0	± 9.6 %
		Y	100.00	107.13	24.20		80.0	
10464-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz,	Z	11.64	83.97	18.10	0.00	80.0	
AAA	QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	122.05	31.13	3.23	80.0	± 9.6 %
		Y	100.00	123.91	32.10		80.0	
10465		Z	100.00	123.17	31.52	0.00	80.0	
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	34.70	96.83	22.08	3,23	80.0	± 9.6 %
		Y	100.00	109.74	25.45		80.0	
10466-		Z	33.97	97.14	22.15	0.55	80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	8.66	80.23	16.95	3.23	80.0	± 9.6 %
		Y	88.88	105.43	23.71		80.0	
10.107		Z	7.53	79.24	16.62		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	100.00	122.26	31.23	3.23	80.0	± 9.6 %
		Y	100.00	124.12	32.19		80.0	
		Z	100.00	123.40	31.62		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	×	42.56	99.17	22.68	3.23	80.0	± 9.6 %
		Y	100.00	109.90	25.52		80.0	
		Z	42.79	99.79	22.82		80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	8.79	80.40	17.00	3.23	80.0	± 9.6 %
		Y	94.78	106.12	23.86		80.0	
		Z	7.65	79.43	16.67		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	122.29	31.23	3.23	80.0	± 9.6 %
		Y	100.00	124.15	32.20		80.0	
		Z	100.00	123.43	31.63		80.0	
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	42.39	99.09	22.65	3.23	80.0	± 9.6 %
		Y	100.00	109.85	25.49		80.0	
		Z	42.62	99.70	22.79		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	8.75	80.33	16.97	3.23	80.0	± 9.6 %
		Y	95.63	106.16	23.85		80.0	
		Z	7.61	79.36	16.63		80.0	
10473- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	122.26	31.22	3.23	80.0	± 9.6 %
		Y	100.00	124.13	32.18		80.0	
		Z	100.00	123.40	31.61		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	41.57	98.89	22.60	3.23	80.0	±9.6 %
		Y	100.00	109.86	25.49		80.0	
		Ζ	41.71	99.48	22.73		80.0	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	8.66	80.23	16.94	3.23	80.0	±9.6 %
		Y	92.76	105.86	23.79		80.0	
		Z	7.52	79.25	16.60		80.0	

10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	36.02	97.20	22.15	3.23	80.0	± 9.6 %
		Y	100.00	109.70	25.42		80.0	· · · · · · · · · · · · · · · · · · ·
		Z	35.46	97.58	23.42		80.0	
10478-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-	X	8.55	80.07	16.88	3.23	80.0	± 9.6 %
AAC	QAM, UL Subframe=2,3,4,7,8,9)		0.00	00.01	10.00	0.20	00.0	1 0.0 70
		Y	89.69	105.45	23.69		80.0	
		Ζ	7.42	79.08	16.54		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	12.76	92.36	25.32	3.23	80.0	± 9.6 %
		Y	18.65	98.88	27.57		80.0	· · · · · · · · · · · · · · · · · · ·
		Ζ	13.95	94.12	25.81		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	12.57	87.00	22.01	3.23	80.0	± 9.6 %
		Y	19.95	93.91	24.32		80.0	
		Z	12.93	87.73	22.15		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	10.42	83.70	20.62	3.23	80.0	± 9.6 %
		Y	16.05	89.97	22.81		80.0	
1015-		Ζ	10.45	84.04	20.63		80.0	
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.39	75.05	18.02	2.23	80,0	± 9.6 %
		Y	5.40	78.13	19.40		80.0	
10:00		Z	4.23	74.62	17.69		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	7.31	79.21	19.52	2.23	80.0	± 9.6 %
		Υ	9.15	82.68	20.99		80.0	
		Z	7.17	79.05	19.31		80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.75	77.88	19.05	2.23	80.0	± 9.6 %
		Y	8.31	81.08	20.44		80.0	
		Z	6.55	77.60	18,79		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.80	76.47	19.36	2.23	80.0	± 9.6 %
		Y	5.70	79.15	20.55		80.0	
		Z	4.72	76.35	19.21		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.16	71.40	17.03	2.23	80.0	± 9.6 %
		Y	4.57	72.84	17.80		80.0	
		Z	4.07	71.21	16.82		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.14	70.99	16.86	2.23	80.0	± 9.6 %
		Y	4.52	72.34	17.60		80.0	
40400		Z	4.04	70.79	16.64		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.95	75.43	19.57	2.23	80.0	± 9.6 %
		Y	5.59	77.40	20.48		80.0	
10.100		Ζ	4.87	75.36	19.51		80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.39	71.05	17.97	2.23	80.0	± 9.6 %
		Y	4.67	72.07	18.53		80.0	
40400		Z	4.33	71.01	17.90	0.00	80.0	
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.47	70.81	17.90	2.23	80.0	± 9.6 %
		Y	4.74	71.76	18.43		80.0	
10404		Z	4.41	70.77	17.83		80.0	
10491- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.94	73.38	18.92	2.23	80.0	± 9.6 %
		Y	5.38	74.76	19.60		80.0	
10400		Z	4.87	73.32	18.89		80.0	
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	4.67	70.17	17.91	2.23	80.0	± 9.6 %
		Y	4.91	70.97	18.36		80.0	
		Z	4.62	70.13	17.86		80.0	

10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.74	70.00	17.86	2.23	80.0	± 9.6 %
		Y	4.96	70.77	18.30		80.0	
		Z	4.68	69.97	17.81		80.0	
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.42	74.96	19.36	2.23	80.0	± 9.6 %
		Y	5.98	76.57	20.11		80.0	
		Z	5.33	74.86	19.31		80.0	
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.74	70.64	18.10	2.23	80.0	± 9.6 %
		Y	4.99	71.49	18.58		80.0	
		Z	4.68	70.58	18.06		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.80	70.29	18.01	2.23	80.0	± 9.6 %
		Y	5.03	71.08	18.45		80.0	
		Z	4.74	70.24	17.97		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.26	70.91	15,58	2.23	80.0	± 9.6 %
		Y	4.08	73.99	17.07		80.0	
		Z	3.04	70.05	15.01		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.52	65.21	12.20	2.23	80.0	± 9.6 %
		Y	2.96	67.17	13.35		80.0	
		Ζ	2.32	64.31	11.53		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.46	64.66	11.82	2.23	80.0	± 9.6 %
		Y	2.87	66.51	12.93		80.0	
		Z	2,25	63.75	11.14		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.75	75.65	19.32	2.23	80.0	± 9.6 %
		Y	5.48	77.92	20.36		80.0	
		Z	4.68	75.58	19.22		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.26	71.24	17.39	2.23	80.0	± 9.6 %
		Y	4.61	72.46	18.05		80.0	
		Z	4.19	71.15	17.24		, 80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.30	71.03	17.26	2.23	80.0	± 9.6 %
		Y	4.65	72.20	17.90		80.0	
		Z	4.23	70.93	17.11		80.0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.89	75.24	19.48	2.23	80.0	± 9.6 %
		Y	5.52	77.21	20.39		80.0	
		Z	4.81	75.16	19.42		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.37	70.96	17.92	2.23	80.0	± 9.6 %
		Y	4.66	71.99	18.49		80.0	
		Z	4.31	70.92	17.85		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.44	70.72	17.85	2.23	80.0	± 9.6 %
		Y	4.72	71.68	18.38		80.0	
		Z	4.39	70.68	17.78		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.37	74.82	19.29	2.23	80.0	± 9.6 %
		Y	5.93	76.44	20.05		80.0	
		Ζ	5.29	74.72	19.25		80.0	
10507- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL	X	4.72	70.58	18.07	2.23	80.0	± 9.6 %
AAC								
	Subframe=2,3,4,7,8,9)	Y	4.98	71.44	18.54		80.0	

AAC MHz, QPSK, UL Subframe=2,3,4,7,8,9) Y 6.10 10.00 12.0 00.0 13.8 /s Interval Z 6.41 72.94 18.60 80.0 10.0	10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.78	70.23	17.97	2.23	80.0	± 9.6 %
10509- ICS-FDMA, 100% RB, 15 Z 4.72 70.18 17.93 60.0 AAC MHz, QPSK, UL SUbframe=2,3,4,7,8,9) Y 5.87 74,15 18.60 2.23 60.0 ±9.6 % IDS10- AAC LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QM, UL Subframe=2,3,4,7,8,9) Y 5.81 70.13 17.99 2.23 60.0 ±9.6 % AAC MHz, 16-QM, UL Subframe=2,3,4,7,8,9) Y 5.40 70.44 18.59 80.0 10511- LTE-TDD (SC-FDMA, 100% RB, 15 AAC X 5.12 70.07 17.96 80.0 ±9.6 % Subframe=2,3,4,7,8,9) Y 5.40 70.44 18.29 80.0 ±9.6 % Subframe=2,3,4,7,8,9) Y 5.42 70.49 18.29 80.0 ±9.6 % AAC MHz, QPSK, UL Subframe=2,3,4,7,8,9) Y 5.45 74.74 19.13 2.23 80.0 ±9.6 % AAC MHz, QPSK, UL Subframe=2,3,4,7,8,9) Y 5.39 76.43 19.09 80.0			Y	5.02	71.02	18.41		80.0	
16509- LTE-TDD (SC-FDMA, 100% RB, 15 X 5.48 73.02 18.63 2.23 60.0 ± 9.6 % MHz, OPSK, UL SUbframe-2.3,4,7,8,9 Y 5.87 74.15 19.19 60.0 ± 9.6 % AC HTz, 10-QM, UL Z 5.41 72.34 18.60 60.0 ± 9.8 % AC HTz, 10-QM, UL X 5.18 70.13 17.99 2.23 80.0 ± 9.8 % Subframe2.3,4,7,8,9 Y 5.40 70.64 18.29 80.0 ± 9.6 % Subframe2.3,4,7,8,9 Y 5.42 70.47 17.92 80.0 ± 9.6 % MHz, CPGK, UL, Subframe2.3,4,7,8,9 Y 5.42 70.49 18.29 80.0 ± 9.6 % MHz, CPSK, UL, Subframe2.3,4,7,8,9 Y 5.42 70.49 18.29 80.0 ± 9.6 % Subframe2.3,4,7,8,9 Y 5.35 74.74 19.13 2.23 80.0 ± 9.6 % 10514 LTE-TDD (SC-FDMA, 100% RB, 20 X 5.10 70.52 18.1			Z						
Z 5.41 72.94 18.60 80.0 AAC MHz, 16-QAM, UL Subframe=2,3.4,7.8.9) Y 5.18 70.13 17.99 2.23 80.0 2.9.6 % Subframe=2,3.4,7.8.9) Y 5.40 70.84 18.39 80.0 2.9.6 % 10511. LTE-TDD (SC-FDMA, 100% RB, 15 X 5.12 70.70 17.96 80.0 19.6 % AAC MHz, 64-OAM, UL X 5.15 69.76 17.89 60.0 19.6 % 10512. LTE-TDD (SC-FDMA, 100% RB, 20 X 5.15 69.76 17.89 60.0 19.6 % MHz, QPSK, UL Subframe=2,3.4,7,8.9) Y 6.38 76.18 19.80 80.0 19.6 % MAC MHz, 16-QAM, UL Z 5.76 74.42 19.09 80.0 19.6 % Subframe=2,3.4,7.8,9) Y 5.34 71.31 18.56 80.0 19.6 % MHz, 16-QAM, UL Subframe=2,3.4,7.8,9) Y 5.29 70.75 18.40 80.0	10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)					2.23		± 9.6 %
Coston LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) Y 5.18 70.13 17.99 2.23 80.0 ± 9.6 % ACC MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) Y 5.12 70.07 17.96 80.0 ± 9.6 % 10510- LTE-TDD (SC-FDMA, 100% RB, 15 X 5.12 70.07 17.96 80.0 ± 9.6 % 30bframe=2,3,4,7,8,9) Y 5.42 70.49 18.29 80.0 ± 9.6 % ACC MHz, 64-CAM, UL Subframe=2,3,4,7,8,9) Y 5.42 70.49 18.29 80.0 ± 9.6 % AAC MHz, 64-CAM, UL Subframe=2,3,4,7,8,9) Y 5.42 70.49 18.29 80.0 ± 9.6 % AAC MHz, 05C-FDMA, 100% RB, 20 X 5.10 70.42 19.09 80.0 ± 9.6 % AAC MHz, 16-QAM, UL Z 5.03 70.43 18.08 80.0 ± 9.6 % AAC MHz, 40-QAM, UL Z 5.03 70.33 18.00 2.23 80.0 ± 9.6 %			Y	5.87	74.15	19.19		80.0	
10510- AAC LTE-TDD (SC-FDMA, 100% RB, 15 SUbframe=2,3,4,7,8,9) X 5.18 70.13 17.99 2.23 80.0 ± 9.6 % AAC MEz, 64-QAM, UL Subframe=2,3,4,7,8,9) Y 5.40 70.84 18.29 80.0 ± 9.6 % MIEz, 64-QAM, UL Subframe=2,3,4,7,8,9) Y 5.42 70.49 18.29 80.0 ± 9.6 % MIEz, 64-QAM, UL Subframe=2,3,4,7,8,9) Y 5.42 70.49 18.29 80.0 ± 9.6 % MIEz, 64-QAM, UL MEz, 64-QAM, UL Subframe=2,3,4,7,8,9) Y 5.42 70.49 18.29 80.0 ± 9.6 % MAC MHz, QPSK, UL Subframe=2,3,4,7,8,9) Y 6.39 76.18 19.60 80.0 ± 9.6 % MAC MHz, QPSK, UL Subframe=2,3,4,7,8,9) Y 5.30 70.43 18.00 80.0 ± 9.6 % Subframe=2,3,4,7,8,9) Y 5.38 70.03 18.00 2.23 80.0 ± 9.6 % MAC LTE-TDD (SC-FDMA, 100% RB, 20 X 5.08 70.03 18.00 2.23 80.0 ± 9.6 %			Z	5.41	72.94				
Z 5.12 70.07 17.96 60.0 AAC LTE-TDD (SC-FDMA, 100% RB, 15 X 5.21 69.83 17.92 2.23 80.0 ± 9.6 % MHz, 64-OAM, UL Y 5.42 70.49 18.29 80.0 ± 9.6 % 10512- LTE-TDD (SC-FDMA, 100% RB, 20 X 5.85 74.74 19.13 2.23 80.0 ± 9.6 % AAC MHz, 04-OAM, UL Subframe=2,3.4,7,8,9) Y 6.39 76.18 19.80 80.0 ± 9.6 % AAC Subframe=2,3.4,7,8,9) Y 6.39 76.18 19.80 80.0 ± 9.6 % MLz, 16-CAM, UL Subframe=2,3.4,7,8,9) Y 5.34 71.31 18.56 80.0 ± 9.6 % Mutz, 64-AAM, UL Subframe=2,3.4,7,8,9) Y 5.29 70.75 18.40 80.0 ± 9.6 % MAC Subframe=2,3.4,7,8,9) Y 5.29 70.75 18.40 80.0 ± 9.6 % MAC Subframe=2,3.4,7,8,9) Y 5.29	10510- AAC	MHz, 16-QAM, UL				17.99	2.23		± 9.6 %
10611- LTE-TDD (SC-FDMA, 100% RB, 15 AAC X 5.21 60.83 F.2 17.92 2.23 80.0 ± 9.6 % MAC MLz, 64-CAM, UL Subframe=2,3,4,7,8,9) Y 5.42 70.49 18.29 80.0 ± 9.6 % MAC MHz, QPSK, UL Subframe=2,3,4,7,8,9) Y 5.45 74.74 19.13 2.23 80.0 ± 9.6 % AAC MHz, QPSK, UL Subframe=2,3,4,7,8,9) Y 6.39 76.18 19.80 80.0 ± 9.6 % MAC MHz, 16-CAM, UL Z 5.76 74.62 19.09 80.0 ± 9.6 % MHz, 16-CAM, UL Z 5.03 70.43 18.08 80.0 ± 9.6 % MHz, 16-CAM, UL Z 5.03 70.43 18.08 80.0 ± 9.6 % MHz, 64-CAM, UL Z 5.08 70.03 18.00 2.23 80.0 ± 9.6 % ML2, 64-CAM, UL Z 5.02 69.96 17.96 80.0 ± 9.6 % MD514- ITE-TDD (SC-FDMA, 100% RB, 20 X 5								80.0	
AAC MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) Y 5.42 70.49 18.29 80.0 10512- AAC LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) Y 6.39 76.18 19.30 2.23 80.0 ± 9.6 % 10513- AAC LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) Y 6.39 76.18 19.09 80.0 ± 9.6 % 10513- AAC LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) Y 5.34 71.31 18.56 80.0 10514- MAC Subframe=2,3,4,7,8,9) Y 5.34 71.31 18.00 80.0 ± 9.6 % 10515- MAC Subframe=2,3,4,7,8,9) Y 5.29 70.75 18.40 80.0 ± 9.6 % 10515- MAC LEE 802.11b WIFI 2.4 GHz (DSSS, 2 X 0.93 62.43 13.89 0.00 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.97 63.29 14.71 150.0 10515- MAA Mbps, 99pc duty cycle) Y 0.97 63.29 14.76 150.0 <td>10511</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>80.0</td> <td></td>	10511							80.0	
Construction Z 5.15 69.78 17.89 80.0 AAC ITE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) X 5.85 74.74 19.13 2.23 80.0 ± 9.6 % 10513- AAC LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) X 5.10 70.52 18.13 2.23 80.0 ± 9.6 % AAC MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) Y 5.34 71.31 18.56 80.0 ± 9.6 % AAC LTE-TDD (SC-FDMA, 100% RB, 20 AAC X 5.08 70.43 18.00 2.23 80.0 ± 9.6 % MAC LTE-TDD (SC-FDMA, 100% RB, 20 AAC X 5.08 70.31 18.00 2.23 80.0 ± 9.6 % MAC LTE-TDD (SC-FDMA, 100% RB, 20 AAC X 5.08 70.75 18.40 80.0 150.0 ± 9.6 % AAC MHz, 64-QAM, UL Subframe=2,3,4,7,8,9 Y 0.93 62.23 13.81 150.0 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y	10511- AAC	MHz, 64-QAM, UL			69.83	17.92	2.23	80.0	± 9.6 %
10512- LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) X 5.85 74.74 19.13 2.23 80.0 ± 9.6 % 10513- AAC LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) Y 6.39 76.18 19.80 80.0 ± 9.6 % 10514- AAC LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) Y 5.34 71.31 18.66 80.0 ± 9.6 % 10514- AAC LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) Y 5.29 70.75 18.40 80.0 ± 9.6 % 10514- Subframe=2,3,4,7,8,9) Y 5.29 70.75 18.40 80.0 ± 9.6 % 10515- AAA IEEE 802.11b WiF12.4 GHz (DSSS, 2 X 0.93 62.43 13.89 0.00 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 14.26 0.00 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 17.70 150.0 ± 9.6 % AAA Mbps, 99pc duty								80.0	
AAC MHz, QPSK, UL Subframe=2,3,4,7,8,9) MHz MLX MUZ MZ S.10 70.52 18.13 2.23 80.0 ± 9.6 % AAC MHz, 64-QAM, UL Z 5.03 70.43 18.00 2.03 80.0 150.0 ± 9.6 % MAA Mbps, 99.0 (duty cycle) Y 5.29 70.75 18.40 80.0 150.0 ± 9.6 % MAA Mbps, 99.0 (duty cycle) 2 0.92 62.37 13.81 150.0 150.0 150.0	10515							80.0	
ZE 5.76 74.62 19.09 80.0 AAC LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) X 5.10 70.52 18.13 2.23 80.0 ±9.6 % AAC LTE-TDD (SC-FDMA, 100% RB, 20 AAC X 5.03 70.43 18.08 80.0 . LTE-TDD (SC-FDMA, 100% RB, 20 AAC X 5.08 70.03 18.00 2.23 80.0 ±9.6 % AAC LTE-TDD (SC-FDMA, 100% RB, 20 AAC X 5.08 70.03 18.00 2.23 80.0 ±9.6 % AAC MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) Y 5.29 70.75 18.40 80.0 . Color Z 5.02 69.96 17.96 80.0 . . AAA Mbps, 99pc duty cycle) Y 0.92 62.37 13.81 150.0 . . 10516- IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 X 0.48 66.52 14.26 0.00 150.0 ±9.6 % AAA Mbps, 99pc	10512- AAC					19.13	2.23	80.0	± 9.6 %
10513- AAC LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-GMA, UL Subframe=2,3,4,7,8,9) X 5.10 70.52 18.13 2.23 80.0 ± 9.6 % 10514- AAC LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-GMA, UL Subframe=2,3,4,7,8,9) Y 5.34 77.131 18.06 80.0 ± 9.6 % 10514- AAC LTE-TDD (SC-FDMA, 100% RB, 20 MAz, 64-GMA, UL Subframe=2,3,4,7,8,9) Y 5.29 70.75 18.40 80.0 ± 9.6 % 10515- AAA Mbs, 99pc duty cycle) Y 5.29 70.75 18.40 80.0 ± 9.6 % 10515- MAA Mbs, 99pc duty cycle) Y 0.93 62.43 13.89 0.00 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.97 63.29 14.71 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 13.81 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.66 71.79 14.08 0.00 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y									
AAC MHz, 16-GAM, UL Subframe=2,3,4,7,8,9) No. A.R. B.R.	10540								
Z 5.03 70.43 18.08 80.0 10514- AAC LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) X 5.08 70.03 18.00 2.23 80.0 ± 9.6 % AAC Subframe=2,3,4,7,8,9) Y 5.29 70.75 18.40 80.0 ± 9.6 % 10515- IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 X 0.93 62.43 13.89 0.00 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.97 63.29 14.71 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 17.60 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 14.26 0.00 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 14.01 150.0 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.83 65.38 15.37 150.0 150.0 ± 9.6 % AAA <	10513- AAC	MHz, 16-QAM, UL					2.23		± 9.6 %
10514- AAC LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) X 5.08 70.03 18.00 2.23 80.0 ± 9.6 % 0 Y 5.29 70.75 18.40 80.0 105.0 ± 9.6 % 10515- AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 X 0.93 62.43 13.89 0.00 150.0 ± 9.6 % 10516- AAA Mbps, 99pc duty cycle) Y 0.97 63.29 14.71 150.0 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.97 63.29 14.71 150.0 105.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 17.60 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 17.60 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 17.60 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.83 65.38 15.37 150.0 10517- IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 X 4.56 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
AAC MHz, 64-QAM, UL Market Ma	10511								
Z 5.02 69.96 17.96 80.0 10515- AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) X 0.93 62.43 13.89 0.00 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.97 63.29 14.71 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.92 62.37 13.81 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 17.60 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 17.60 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) X 0.76 63.81 14.08 0.00 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) X 0.75 63.68 15.37 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y 4.66 66.61 16.07 0.00 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y	10514- AAC	MHz, 64-QAM, UL			70.03	18.00	2.23	80.0	± 9.6 %
10515- AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) X 0.93 62.43 13.89 0.00 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.97 63.29 14.71 150.0 ± 9.6 % 10516- AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 X 0.48 66.52 14.26 0.00 150.0 ± 9.6 % 10517- AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 X 0.48 66.52 14.26 0.00 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 17.60 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 17.60 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 17.60 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.83 65.38 15.37 150.0 ± 9.6 % AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 X 4.56 66.61 16.05 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y					70.75	18.40		80.0	
AAA Mbps, 99pc duty cycle) Y 0.97 63.29 14.71 150.0 2 0.92 62.37 13.81 150.0 150.0 ±9.6 % AAA Mbps, 99pc duty cycle) Y 0.68 66.52 14.26 0.00 150.0 ±9.6 % AAA Mbps, 99pc duty cycle) Y 0.66 71.79 17.60 150.0 ±9.6 % AAA Mbps, 99pc duty cycle) Y 0.65 71.79 17.60 150.0 ±9.6 % AAA Mbps, 99pc duty cycle) Y 0.83 65.38 15.37 150.0 ±9.6 % AAA Mbps, 99pc duty cycle) Y 0.83 65.38 15.37 150.0 ±9.6 % AAA Mbps, 99pc duty cycle) X 4.56 66.61 16.07 0.00 150.0 ±9.6 % AAB Mbps, 99pc duty cycle) Y 4.61 66.85 16.27 150.0 10519- IEEE 802.11a/h WiF1 5 GHz (OFDM, 12 X 4.76 66.88 <t< td=""><td></td><td>-</td><td>Z</td><td></td><td></td><td></td><td></td><td>80.0</td><td></td></t<>		-	Z					80.0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	10515- AAA						0.00		± 9.6 %
10516- AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) X 0.48 66.52 14.26 0.00 150.0 ± 9.6 % Y 0.65 71.79 17.60 150.0 150.0 150.0 10517- AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 X 0.76 63.81 14.08 0.00 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.83 65.38 15.37 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Y 0.83 65.38 15.37 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y 0.83 65.38 15.37 150.0 ± 9.6 % AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 X 4.56 66.61 16.07 0.00 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y 4.61 66.85 16.27 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y 4.82 67.13 16.41 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y 4.82 67.13 16.12									
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	40540								
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	AAA	Mbps, 99pc duty cycle)					0.00		± 9.6 %
10517- AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) X 0.76 63.81 14.08 0.00 150.0 ± 9.6 % AAA Mbps, 99pc duty cycle) Z 0.75 63.68 13.95 150.0 10518- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 AAB X 4.56 66.61 16.07 0.00 150.0 ± 9.6 % 10519- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 AAB Y 4.61 66.85 16.27 150.0 10519- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 AAB X 4.76 66.88 16.21 0.00 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y 4.82 67.13 16.41 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y 4.82 67.13 16.41 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y 4.61 66.83 16.12 0.00 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y 4.67 67.09 16.32 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y 4.									
AAA Mbps, 99pc duty cycle) Y 0.83 65.38 15.37 150.0 10518- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) X 4.56 66.61 16.07 0.00 150.0 ± 9.6 % 10518- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) X 4.56 66.61 16.07 0.00 150.0 ± 9.6 % 10519- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 AAB X 4.76 66.88 16.21 0.00 150.0 ± 9.6 % 10519- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 AAB X 4.76 66.88 16.21 0.00 150.0 ± 9.6 % 10520- AAB Mbps, 99pc duty cycle) Y 4.82 67.13 16.41 150.0 10520- AAB Mbps, 99pc duty cycle) Y 4.61 66.83 16.12 0.00 150.0 ± 9.6 % 10521- AAB Mbps, 99pc duty cycle) Y 4.67 67.09 16.32 150.0 10521- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 AAB X 4.54	10517	1555 802 115 W/i5i 2 4 CHz (DSSS_11					0.00		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	AAA						0.00		± 9.6 %
10518- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) X 4.56 66.61 16.07 0.00 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y 4.61 66.85 16.27 150.0 150.0 IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 AAB X 4.76 66.88 16.21 0.00 150.0 ± 9.6 % IO519- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 AAB X 4.76 66.88 16.21 0.00 150.0 ± 9.6 % IO520- AAB Mbps, 99pc duty cycle) Y 4.82 67.13 16.41 150.0 ± 9.6 % IO520- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) X 4.61 66.83 16.12 0.00 150.0 ± 9.6 % IO520- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 AAB X 4.61 66.83 16.12 0.00 150.0 ± 9.6 % IO521- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 AAB X 4.54 66.82 16.10 0.00 150.0 ± 9.6 % IO522- AAB Mbps, 99pc duty cycle) Y 4.60 67.09 16.31									
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	10518- AAB						0.00		± 9.6 %
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			Y	4.61	66.85	16.27		150.0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			Z						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	10519- AAB		X	4.76	66.88		0.00		± 9.6 %
10520- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) X 4.61 66.83 16.12 0.00 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y 4.67 67.09 16.32 150.0 IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 AAB Y 4.67 66.81 16.09 150.0 IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 AAB X 4.54 66.82 16.10 0.00 150.0 ± 9.6 % IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 AAB Y 4.60 67.09 16.31 150.0 ± 9.6 % IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 AAB Y 4.60 66.79 16.07 150.0 ± 9.6 % IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 AAB X 4.60 66.88 16.17 0.00 150.0 ± 9.6 % IO522- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) Y 4.65 67.13 16.37 150.0			Y						
AAB Mbps, 99pc duty cycle) Y 4.67 67.09 16.32 150.0 10521- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 AAB X 4.57 66.81 16.09 150.0 10522- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) Y 4.60 67.09 16.31 150.0 10522- AAB Y 4.60 67.09 16.31 150.0 10522- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 AAB X 4.60 66.88 16.17 0.00 150.0 10522- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 AAB X 4.60 66.88 16.17 0.00 150.0 10522- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 AAB X 4.60 66.88 16.17 0.00 150.0 10522- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 AAB Y 4.65 67.13 16.37 150.0						16.18		150.0	
Z 4.57 66.81 16.09 150.0 10521- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) X 4.54 66.82 16.10 0.00 150.0 ± 9.6 % Y 4.60 67.09 16.31 150.0 ± 16.00 150.0 ± 9.6 % IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 AAB X 4.60 66.88 16.17 0.00 150.0 ± 9.6 % 10522- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) X 4.60 66.88 16.17 0.00 150.0 ± 9.6 % AAB Mbps, 99pc duty cycle) Y 4.65 67.13 16.37 150.0	10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)					0.00		±9.6 %
10521- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) X 4.54 66.82 16.10 0.00 150.0 ± 9.6 % Y 4.60 67.09 16.31 150.0 ± 9.6 % Z 4.51 66.79 16.07 150.0 IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 AAB X 4.60 66.88 16.17 0.00 150.0 10522- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) X 4.60 66.88 16.17 0.00 150.0 ± 9.6 %									
AAB Mbps, 99pc duty cycle) Y 4.60 67.09 16.31 150.0 Image: Constraint of the state of the s	10524						0.00		
Z 4.51 66.79 16.07 150.0 10522- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) X 4.60 66.88 16.17 0.00 150.0 ± 9.6 % Y 4.65 67.13 16.37 150.0 ± 150.0	10521- AAB						0.00		± 9.6 %
10522- AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) X 4.60 66.88 16.17 0.00 150.0 ± 9.6 % Y 4.65 67.13 16.37 150.0 ± 9.6 %							-		
AAB Mbps, 99pc duty cycle) Y 4.65 67.13 16.37 150.0	10522						0.00		
	AAB						0.00		± 9.6 %
			Z	4.65	67.13	16.37 16.15		150.0	

10523- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.47	66.73	16.00	0.00	150.0	± 9.6 %
		Y	4.52	66.99	16.21		150.0	
		Z	4.52	66.72	15.98		150.0	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.44	66.81	16.14	0.00	150.0	± 9.6 %
AAD		Y	4.60	67.07	16.35		450.0	
		Z	4.60				150.0	
10525-		$\frac{2}{X}$		66.79	16.12	0.00	150.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)		4.52	65.83	15.72	0.00	150.0	± 9.6 %
		Y	4.57	66.08	15.92		150.0	
		Z	4.49	65.82	15.70		150.0	
10526- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.70	66.21	15.87	0.00	150.0	± 9.6 %
		Y	4.76	66.48	16.07		150.0	
		Z	4.66	66.20	15.85		150.0	
10527- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.61	66.17	15.81	0.00	150.0	± 9.6 %
		Y	4.67	66.44	16.02		150.0	
		Z	4.58	66.15	15.78		150.0	
10528- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.63	66.19	15.85	0.00	150.0	± 9.6 %
		Y	4.69	66.46	16.05		150.0	
		Z	4.60	66.17	15.82		150.0	····
10529- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.63	66.19	15.85	0.00	150.0	± 9.6 %
		Y	4.69	66.46	16.05		150.0	
		Z	4.60	66.17	15.82		150.0	
10531- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.63	66.31	15.86	0.00	150.0	± 9.6 %
		Y	4.69	66.59	16.07		150.0	
		Z	4.59	66.28	15.83		150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.48	66.15	15.79	0.00	150.0	± 9.6 %
		Y	4.55	66.44	16.01		150.0	
		Z	4.45	66.12	15.75		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.64	66.22	15.83	0.00	150.0	± 9.6 %
		Y	4.70	66.49	16.03		150.0	
		Z	4.60	66.20	15.80		150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.17	66.38	15.95	0.00	150.0	± 9.6 %
		Y	5.22	66.61	16.12		150.0	
			5.14	66.36	15.93		150.0	
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.24	66.55	16.02	0.00	150.0	± 9.6 %
		Y	5.29	66.77	16.19		150.0	
		z	5.21	66.54	16.01		150.0	
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.11	66.49	15.97	0.00	150.0	± 9.6 %
		Y	5.16	66.73	16.15		150.0	
		Z	5.07	66.46	15.95		150.0	
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.17	66.48	15.97	0.00	150.0	± 9.6 %
		Y	5.22	66.71	16.14		150.0	
40500		Z	5.14	66.45	15.95		150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.27	66.54	16.05	0.00	150.0	± 9.6 %
		Y	5.32	66.77	16.22		150.0	
		Z	5.23	66.49	16.02		150.0	
10540 . AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.19	66.52	16.05	0.00	150.0	± 9.6 %
		Y	5.24	66.75	16.22		150.0	
	I COMPANY CONTRACTOR C	Z	5.16					

10541-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	5.16	66.38	15.97	0.00	150.0	± 9.6 %
AAB	99pc duty cycle)							//
		Y	5.21	66.61	16.15		150.0	
		Z	5.13	66.35	15.95		150.0	
10542- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.32	66.47	16.04	0.00	150.0	± 9.6 %
		Y	5.37	66.69	16.20		150.0	
		Z	5.29	66.44	16.02		150.0	
10543- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.41	66.52	16.08	0.00	150.0	± 9.6 %
		Y	5.45	66.73	16.24		150.0	
		Z	5.38	66.51	16.07		150.0	
10544- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	Х	5.47	66.50	15.95	0.00	150.0	± 9.6 %
		Y	5.51	66.71	16.11		150.0	
		Z	5.45	66.47	15.93		150.0	
10545- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.69	66.97	16.13	0.00	150.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	5.73	67.17	16.28		150.0	
		Z	5.66	66.95	16.12		150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.56	66.76	16.04	0.00	150.0	± 9.6 %
		Y	5.60	66.98	16.21		150.0	
105/-		Z	5.52	66.71	16.02		150.0	
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.64	66.85	16.08	0.00	150.0	± 9.6 %
		Y	5.69	67.07	16.24		150.0	
		Z	5.60	66.78	16.04		150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	6.00	68.11	16.68	0.00	150.0	± 9.6 %
		Y	6.04	68.30	16.83		150.0	
		Z	5.95	68.00	16.63		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.58	66.74	16.04	0.00	150.0	± 9.6 %
		Y	5.62	66.95	16.20		150.0	
		Z	5.55	66.72	16.03		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.58	66.77	16.02	0.00	150.0	± 9.6 %
		Y	5.63	67.00	16.18		150.0	
		Z	5.55	66.74	16.00		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.49	66.55	15.92	0.00	150.0	± 9.6 %
		Y	5.53	66.77	16.08		150.0	
		Z	5.46	66.52	15.90		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.58	66.61	15.98	0.00	150.0	± 9.6 %
		Y	5.63	66.83	16.14		150.0	
		Z	5.55	66.57	15.96		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.88	66.89	16.06	0.00	150.0	± 9.6 %
		Y	5.92	67.10	16.21		150.0	
		Z	5.86	66.86	16.04		150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	6.03	67.23	16.21	0.00	150.0	± 9.6 %
		Y	6.07	67.43	16.35		150.0	
10.55		Z	6.00	67.20	16.19		150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.04	67.26	16.21	0.00	150.0	± 9.6 %
		Y	6.08	67.46	16.36		150.0	
1		Z	6.02	67.23	16.20		150.0	
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	6.01	67.18	16.19	0.00	150.0	± 9.6 %
		Y	6.06	67.39	16.35		150.0	
		Z	5.98	67.14	16.17		150.0	

10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.07	67.37	16.30	0.00	150.0	± 9.6 %
		Y	6.12	67.58	16.46		150.0	
		Z	6.04	67.31	16.27		150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.06	67.18	16.25	0.00	150.0	± 9.6 %
		Y	6.10	67.40	16.41		150.0	
		Z	6.03	67.14	16.23		150.0	
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.98	67.16	16.28	0.00	150.0	± 9.6 %
		Y	6.02	67.38	16.43		150.0	
		Z	5.95	67.13	16.26		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.14	67.65	16.52	0.00	150.0	± 9.6 %
		Y	6.18	67.88	16.69		150.0	
		Z	6.10	67.57	16.48		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.53	68.40	16.85	0.00	150.0	± 9.6 %
		Y	6.57	68.59	17.00		150.0	
		Z	6.44	68.19	16.75		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	4.91	66.77	16.29	0.46	150.0	± 9.6 %
	····	Y	4.96	67.01	16.49		150.0	
		Z	4.88	66.76	16.26		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	Х	5.15	67.23	16.61	0.46	150.0	± 9.6 %
		Y	5.20	67.46	16.79		150.0	
		Z	5.11	67.20	16.58		150.0	····
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	4.98	67.08	16.43	0.46	150.0	± 9.6 %
		Y	5.04	67.33	16.62		150.0	
		Z	4.94	67.05	16.40		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	5.00	67.42	16.74	0.46	150.0	± 9.6 %
		Y	5.05	67.64	16.92		150.0	
		Z	4.96	67.39	16.72		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	4.90	66.88	16.22	0.46	150.0	± 9.6 %
		Y	4.96	67.15	16.44		150.0	
		Z	4.87	66.87	16.19		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	4.95	67.46	16.77	0.46	150.0	± 9.6 %
		Y	5.00	67.68	16.94		150.0	
		Z	4.91	67.46	16.76		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	4.99	67.34	16.73	0.46	150.0	±9.6 %
		Y	5.04	67.57	16.91		150.0	
		Z	4.95	67.33	16.71		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.25	64.93	15.40	0.46	130.0	± 9.6 %
		Y	1.32	65.99	16.25		130.0	
		Z	1.24	64.84	15.31		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.27	65.48	15.72	0.46	130.0	± 9.6 %
		Y	1.35	66.62	16.60		130.0	
		Z	1.26	65.38	15.63		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	2.10	81.92	20.57	0.46	130.0	± 9.6 %
		Y	6.18	99.59	26.88		130.0	
		Z	1.98	81.02	20.18		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.40	70.72	18.14	0.46	130.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	1.59	73.16	19.61		130.0	
		Z	1.38	70.53	18.01			

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.72	66.64	16.39	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)				10.00	0.40	100.0	1 0.0 78
		Y	4.77	66.88	16.58		130.0	
		Z	4.69	66.63	16.36		130.0	
10576- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	X	4.74	66.78	16.44	0.46	130.0	± 9.6 %
		Y	4.79	67.02	16.63		130.0	
		Z	4.71	66.78	16.41		130.0	
10577- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	X	4.96	67.10	16.62	0.46	130.0	± 9.6 %
		Y	5.01	67.33	16.80		130.0	
		Z	4.92	67.08	16.59		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.85	67.23	16.70	0.46	130.0	± 9.6 %
		Y	4.90	67.46	16.88		130.0	
40570		Z	4.81	67.21	16.67		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.63	66.62	16.07	0.46	130.0	± 9.6 %
	•	Y	4.70	66.91	16.30		130.0	
10590		Z	4.60	66.59	16.04	0.15	130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	X	4.68	66.64	16.09	0.46	130.0	± 9.6 %
		Y	4.74	66.93	16.33		130.0	
10501		Z	4.64	66.62	16.06		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.75	67.28	16.64	0.46	130.0	± 9.6 %
		Y	4.81	67.52	16.83		130.0	
10500		Z	4.71	67.26	16.61		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.59	66.41	15.89	0.46	130.0	± 9.6 %
		Y	4.65	66.72	16.14		130.0	
		Z	4.55	66.37	15.85		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.72	66.64	16.39	0.46	130.0	±9.6 %
		Y	4.77	66.88	16.58		130.0	
		Z	4.69	66.63	16.36		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.74	66.78	16.44	0.46	130.0	±9.6 %
		Y	4.79	67.02	16.63		130.0	
		Z	4.71	66.78	16.41		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.96	67.10	16.62	0.46	130.0	± 9.6 %
		Y	5.01	67.33	16.80		130.0	
		Z	4.92	67.08	16.59		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.85	67.23	16.70	0.46	130.0	±9.6 %
		Y	4.90	67.46	16.88		130.0	
10505		Z	4.81	67.21	16.67		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.63	66.62	16.07	0.46	130.0	± 9.6 %
		Y	4.70	66.91	16.30		130.0	
1		Z	4.60	66.59	16.04		130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.68	66.64	16.09	0.46	130.0	± 9.6 %
		Y	4.74	66.93	16.33		130.0	
10555		Z	4.64	66.62	16.06		130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.75	67.28	16.64	0.46	130.0	±9.6 %
		Y	4.81	67.52	16.83		130.0	
		Z	4.71	67.26	16.61		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.59	66.41	15.89	0.46	130.0	± 9.6 %
		Y	4.65	66.72	16.14		130.0	
		Z	4.55	66.37	15.85		130.0	

10591- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.87	66.69	16.48	0.46	130.0	± 9.6 %
=		Y	4.92	66.92	16.67		130.0	
		Z	4.84	66.69	16.46		130.0	
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	5.03	67.03	16.61	0.46	130.0	± 9.6 %
		Y	5.08	67.26	16,79		130.0	
		Z	5.00	67.02	16.59		130.0	
10593-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.96	66.97	16.51	0.46	130.0	± 9.6 %
AAB	MCS2, 90pc duty cycle)	Y	5.01	67.21	16.70	0.40	130.0	10.0 %
		Z	4.92	66.95	16.48		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	5.01	67.11	16.65	0.46	130.0	± 9.6 %
		Y	5.06	67.34	16.83		130.0	
		Z	4.97	67.10	16.62		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.98	67.08	16.55	0.46	130.0	± 9.6 %
		Y	5.04	67.32	16.74		130.0	
		Z	4.94	67.06	16.53		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	Х	4.92	67.08	16.55	0.46	130.0	± 9.6 %
		Y	4.98	67.33	16.75		130.0	
		Z	4.88	67.06	16.53		130.0	
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.87	67.00	16.45	0.46	130.0	± 9.6 %
		Y	4.93	67.26	16.65		130.0	
		Z	4.83	66.97	16.42		130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.85	67.21	16.69	0.46	130.0	±9.6 %
		Y	4.90	67.45	16.87		130.0	
		Z	4.81	67.18	16.66		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.55	67.30	16.72	0.46	130.0	± 9.6 %
		Y	5.59	67.50	16.88		130.0	
		Z	5.52	67.28	16.71		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.76	67.97	17.04	0.46	130.0	± 9.6 %
		Y	5.80	68.15	17.19		130.0	
		Z	5.71	67.90	16.99		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.61	67.58	16.85	0.46	130.0	±9.6 %
		Y	5.65	67.77	17.00		130.0	
		Z	5.57	67.54	16.83		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.69	67.58	16.77	0.46	130.0	± 9.6 %
		Y	5.73	67.78	16.94		130.0	
		Z	5.66	67.57	16.76		130.0	
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.77	67.85	17.03	0.46	130.0	± 9.6 %
		Y	5.81	68.03	17.18		130.0	
		Z	5.73	67.82	17.01		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.55	67.27	16.73	0.46	130.0	± 9.6 %
		Y	5.60	67.47	16.89		130.0	
		Z	5.52	67.24	16.71		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.69	67.68	16.94	0.46	130.0	± 9.6 %
		Y	5.73	67.87	17.10		130.0	
		Z	5.66	67.69	16.94		130.0	
10606- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.43	67.03	16.48	0.46	130.0	± 9.6 %
		Y'	5.48	67.26	16.66		130.0	
		Z	5.41	67.03	16.47		130.0	

10607-	IEEE 802.11ac WiFi (20MHz, MCS0,	X	4.70	65.95	16.07	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)							
		Y	4.75	66.19	16.26		130.0	
10608-		Z	4.67	65.95	16.05	0.40	130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.89	66.37	16.24	0.46	130.0	± 9.6 %
		Y	4.95	66.62	16.43		130.0	
10609-		Z	4.86	66.36	16.22		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.78	66.23	16.09	0.46	130.0	± 9.6 %
		Y	4.84	66.50	16.29		130.0	
10610-	IEEE 802.11ac WiFi (20MHz, MCS3,	Z	4.75	66.21	16.06		130.0	
AAB	90pc duty cycle)	X	4.83	66.38	16.24	0.46	130.0	±9.6 %
· · · · · ·		Y	4.89	66.63	16.43		130.0	
10611-	IEEE 802.11ac WiFi (20MHz, MCS4,	Z	4.80	66.36	16.22	0.40	130.0	
AAB	90pc duty cycle)	X	4.75	66.21	16.10	0.46	130.0	± 9.6 %
		Y	4.81	66.47	16.30		130.0	
10612-		Z	4.72	66.18	16.07	0.45	130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.77	66.37	16.14	0.46	130.0	± 9.6 %
		Y	4.83	66.65	16.36		130.0	
10613-	IEEE 802.11ac WiFi (20MHz, MCS6,	Z	4.73	66.35	16.12	0.10	130.0	
AAB	90pc duty cycle)	X	4.78	66.28	16.05	0.46	130.0	±9.6 %
		Y	4.84	66.57	16.26		130.0	
10614-	LEEE 802 11 co MILEI (20MILE MCC7	Z	4.74	66.25	16.02	0.40	130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.71	66.42	16.24	0.46	130.0	± 9.6 %
		Y	4.77	66.68	16.44		130.0	
10015		Z	4.67	66.39	16.22		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.76	66.06	15.90	0.46	130.0	± 9.6 %
		Y	4.82	66.34	16.11		130.0	
10010		Z	4.72	66.04	15.87		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.36	66.52	16.31	0.46	130.0	± 9.6 %
		Y	5.40	66.73	16.47		130.0	
		Z	5.33	66.49	16.29		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.42	66.67	16.35	0.46	130.0	± 9.6 %
		Y	5.47	66.87	16.51		130.0	
		Z	5.40	66.69	16.36		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.31	66.69	16.37	0.46	130.0	± 9.6 %
		Y	5.36	66.91	16.54		130.0	
40010		Z	5.28	66.66	16.36		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.34	66.55	16.24	0.46	130.0	± 9.6 %
		Y	5.39	66.77	16.41		130.0	
10000		Z	5.31	66.53	16.23		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.44	66.61	16.33	0.46	130.0	± 9.6 %
		Y	5.49	66.85	16.50		130.0	
10001			5.40	66.57	16.30		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.41	66.65	16.46	0.46	130.0	± 9.6 %
		Y	5.46	66.85	16.61		130.0	
40000		Z	5.38	66.63	16.44		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.43	66.83	16.54	0.46	130.0	± 9.6 %
		Y	5.47	67.03	16.69		130.0	
		Z	5.41	66.83	16.53		130.0	

10623-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	E 94	66.27	10.00	0.40	100.0	
AAB	90pc duty cycle)		5.31	66.37	16.20	0.46	130.0	± 9.6 %
		Y	5.36	66.60	16.37		130.0	
		Z	5.28	66.35	16.18		130.0	
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.51	66.60	16.37	0.46	130.0	± 9.6 %
		Y	5.55	66.80	16.53		130.0	
		Z	5.48	66.57	16.35		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.96	67.84	17.04	0.46	130.0	± 9.6 %
		Y	6.00	68.03	17.20		130.0	
		Z	5.91	67.77	17.00		130.0	
10626- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.63	66.56	16.25	0.46	130.0	± 9.6 %
		Y	5.67	66.76	16.40		130.0	
40007		Z	5.61	66.54	16.24		130.0	
10627- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.91	67.22	16.54	0.46	130.0	± 9.6 %
		Y	5.95	67.40	16.68		130.0	
10000		Z	5.89	67.20	16.54		130.0	
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.69	66.73	16.24	0.46	130.0	± 9.6 %
		Y	5.74	66.95	16.40		130.0	
10000		Z	5.67	66.70	16.22		130.0	
10629- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.78	66.80	16.27	0.46	130.0	± 9.6 %
		Y	5.82	67.01	16.42		130.0	
		Z	5.76	66.81	16.27		130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.42	68.87	17.30	0.46	130.0	± 9.6 %
		Y	6.45	69.07	17.46		130.0	
		Z	6.35	68.76	17.24		130.0	
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.17	68.24	17.17	0.46	130.0	± 9.6 %
		Y	6.22	68.45	17.31		130.0	
		Z	6.11	68.14	17.12		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	×	5.86	67.20	16.67	0.46	130.0	± 9.6 %
		Y	5.89	67.37	16.79		130.0	
		Z	5.84	67.20	16.66		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.75	66.86	16.33	0.46	130.0	± 9.6 %
		Y	5.80	67.09	16.49		130.0	
		Z	5,72	66.81	16.30		130.0	
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.73	66.86	16.39	0.46	130.0	± 9.6 %
		Y	5.78	67.07	16.54		130.0	
		Z	5.70	66.82	16.36		130.0	
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.63	66.29	15.85	0.46	130.0	± 9.6 %
		Y	5.69	66.55	16.05		130.0	
		Z	5.60	66.24	15.82		130.0	
10636- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.06	66.98	16.37	0.46	130.0	± 9.6 %
		Y	6.09	67.16	16.51		130.0	
		Z	6.04	66.95	16.36		130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.23	67.40	16.57	0.46	130.0	± 9.6 %
		Y	6.27	67.58	16.70		130.0	
		Z	6.21	67.38	16.55		130.0	
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.23	67.37	16.53	0.46	130.0	± 9.6 %
		Y	6.27	67.56	16.67		130.0	
		Z	6.21	67.35	16.52		130.0	

10639-	IEEE 802.11ac WiFi (160MHz, MCS3,	X	6.21	67.31	16.55	0.46	130.0	± 9.6 %
AAC	90pc duty cycle)					0.10	100.0	10.0 %
		Y	6.25	67.51	16.69		130.0	
10640-	IEEE 802.11ac WiFi (160MHz, MCS4,	Z	6.18	67.27	16.52		130.0	
AAC	90pc duty cycle)	X	6.23	67.39	16.53	0.46	130.0	± 9.6 %
		Y	6.28	67.61	16.69		130.0	
10641-	IEEE 802.11ac WiFi (160MHz, MCS5,	Z	6.20	67.33	16.50		130.0	
AAC	90pc duty cycle)	X	6.24	67.19	16.45	0.46	130.0	± 9.6 %
		Y	6.28	67.39	16.60		130.0	
10642-	IEEE 802.11ac WiFi (160MHz, MCS6,	Z	6.22 6.29	67.18 67.45	16.44 16.73	0.46	130.0 130.0	± 9.6 %
AAC	90pc duty cycle)	Y	6.33	67.63	16.87		120.0	
		z	6.26	67.41	16.87		130.0 130.0	
10643-	IEEE 802.11ac WiFi (160MHz, MCS7,	X	6.13	67.18	16.72	0.40		
AAC	90pc duty cycle)	_				0.46	130.0	± 9.6 %
		Y	6.18	67.38	16.66		130.0	
10644-		Z	6.11	67.15	16.49	0.10	130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.35	67.83	16.86	0.46	130.0	± 9.6 %
		Y	6.40	68.06	17.03		130.0	
10645-		Z	6.30	67.74	16.80		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.89	68.98	17.38	0.46	130.0	± 9.6 %
		Y	6.90	69.10	17.50		130.0	
10010		Z	6.83	68.87	17.33		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	Х	48.50	125.76	41.37	9.30	60.0	± 9.6 %
		Y	90.47	140.91	45.72		60.0	
		Z	50.32	127.46	41.96		60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	48.77	126.82	41.82	9.30	60.0	± 9.6 %
		Y	98.14	143.92	46.67		60.0	
		Z	49.92	128.24	42.34		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.66	62.51	9.96	0.00	150.0	± 9.6 %
		Y	0.73	63.91	11.18		150.0	
		Z	0.63	62.25	9.61		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	4.17	68.03	16.99	2.23	80.0	± 9.6 %
		Y	4.34	68.67	17.39		80.0	
		Z	4.13	68.01	16.93		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.68	67.42	17.15	2.23	80.0	± 9.6 %
		Y	4.82	67.93	17.48		80.0	
		Z	4.65	67.40	17.11		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.64	67.10	17.16	2.23	80.0	± 9.6 %
		Y	4.76	67.59	17.48		80.0	
		Z	4.61	67.07	17.13		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.70	67.12	17.21	2.23	80.0	± 9.6 %
		Y Z	4.82 4.67	67.61 67.08	17.53 17.17		80.0 80.0	
10658-	Pulse Waveform (200Hz, 10%)	X	17.27	91.20	23.98	10.00	50.0	± 9.6 %
AAA		Y	16.02			10.00		± 3.0 %
				90.22	23.99		50.0	
10659-	Pulse Waveform (200Hz, 20%)	Z X	18.59 100.00	92,23 114.98	24.12 28.67	6.99	50.0 60.0	± 9.6 %
AAA		Y				0.00		2 0.0 %
			100.00	116.21	29.42		60.0	
		Z	100.00	114.43	28.33		60.0	

February 13, 2018

10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	112.03	25.82	3.98	80.0	± 9.6 %
		Y	100.00	113.99	26.86		80.0	
		Z	100.00	111.43	25.48		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	X	100.00	111.06	24.05	2.22	100.0	± 9.6 %
		Y	100.00	114.62	25.75		100.0	
		Z	100.00	110.31	23.67		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	X	100.00	108.64	21.32	0.97	120.0	± 9.6 %
		Y	100.00	117.33	25.06		120.0	
		Z	100.00	107.31	20.72		120.0	

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

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





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Certificate No: ES3-3287_Sep17

Client PC Test

CALIBRATION CERTIFICATE

Object	ES3DV3 - SN:3287	
Calibration procedure(s)	QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes	SC 10/03/20/1
Calibration date:	September 18, 2017	
This calibration certificate doci	uments the traceability to national standards, which realize the physical units of measurements (SI).	

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02525)	Apr-18
Reference 20 dB Attenuator	SN: S5277 (20x)	07-Apr-17 (No. 217-02528)	Apr-18
Reference Probe ES3DV2	SN: 3013	31-Dec-16 (No. ES3-3013_Dec16)	Dec-17
DAE4	SN: 660	7-Dec-16 (No. DAE4-660_Dec16)	Dec-17
Secondary Standards		Check Date (in house)	Sahadulad Oh
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	Scheduled Check
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17

Calibrated by:	Name Leif Klysner	Function La bo ratory Technician	Signature Seef Hilps
Approved by:	Katja Pokovic	Technical Manager	h Slef
		na san ing san na san sa sa	Issued: September 19, 2017

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

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

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Glossary: TSL tissue simulating liquid NORMx,y,z sensitivity in free space ConvF sensitivity in TSL / NORMx,y,z DCP diode compression point CF crest factor (1/duty_cycle) of the RF signal A, B, C, D modulation dependent linearization parameters Polarization ϕ φ rotation around probe axis Polarization & 9 rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis information used in DASY system to align probe sensor X to the robot coordinate system Connector Angle

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 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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Probe ES3DV3

SN:3287

Manufactured: Calibrated: June 7, 2010 September 18, 2017

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.87	0.98	1.00	± 10.1 %
DCP (mV) ^H	107.7	103.1	105.0	

Modulation Calibration Parameters

UID	Communication System Name		A	в	c		VR	Unc ^E
			dB	dBõV		dB	mV	(k=2)
<u> </u>		X	0.0	0.0	1.0	0.00	191.5	±3.3 %
		Y	0.0	0.0	1.0	F	198.9	
		Z	0.0	0.0	1.0		180.8	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

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	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V⁻¹	T3 ms	T4 V⁻²	T5 V ⁻¹	Т6
<u> </u>	54.28	378.7	33.99	28.46	2.430	5.072	1.313	0.408	1.009
<u> Y </u>	59.16	422.2	35.13	29.85	3.583	5.094	0.041	0.732	1.008
<u> </u>	43.70	307.8	34.40	28.00	2.236	5.100	1.282	0.347	1.010

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

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

^aNumerical linearization parameter: uncertainty not required.

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

<u>f (MHz)</u> ^C	Relative <u>Permittivity</u> ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)			
750	41.9	0.89	7.00	7.00	7.00	0.26	1.80	± 12.0 %			
835	41.5	0.90	6.70	6.70	6.70	0.56	1.23	± 12.0 %			
1750	40.1	1.37	5.57	5.57	5.57	0.53	1.28	± 12.0 %			
1900	40.0	1.40	5.34	5.34	5.34	0.41	1.52	± 12.0 %			
2300	39.5	1.67	4.94	4.94	4.94	0.42	1.57	± 12.0 %			
2450	39.2	1.80	4.64	4.64	4.64	0.55	1.39	± 12.0 %			
2600	39.0	1.96	4.44	4.44	4.44	0.58	1.43	± 12.0 %			

Calibration Parameter Determined in Head Tissue Simulating Media

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

validity can be extended to ± 110 MHz. ^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to $\pm 10\%$ if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to \pm 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. ⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

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

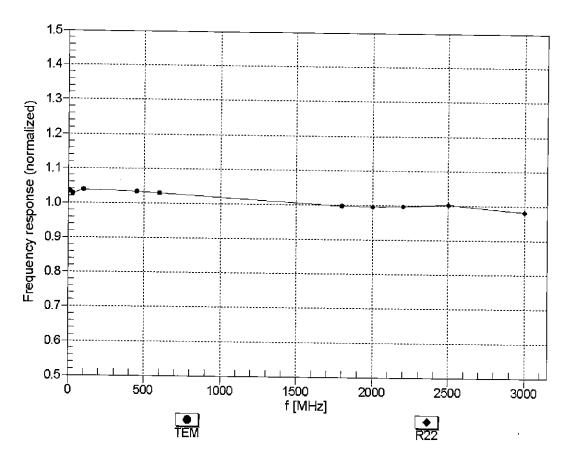
f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)			
750	55.5	0.96	6.71	6.71	6.71	0.45	1.38	± 12.0 %			
835	55.2	0.97	6.56	6.56	6.56	0.80	1.05	± 12.0 %			
1750	53.4	1.49	5.19	5.19	5.19	0.37	1.73	± 12.0 %			
1900	53.3	1.52	5.00	5.00	5.00	0.47	1.51	± 12.0 %			
2300	52.9	1.81	4.66	4.66	4.66	0.59	1.36	± 12.0 %			
2450	52.7	1.95	4.47	4.47	4.47	0.55	1.20	± 12.0 %			
2600	52.5	2.16	4.28	4.28	4.28	0.50	1.20	± 12.0 %			

Calibration Parameter Determined in Body Tissue Simulating Media

^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. Above 5 GHz frequency validity validity can be extended to \pm 110 MHz.

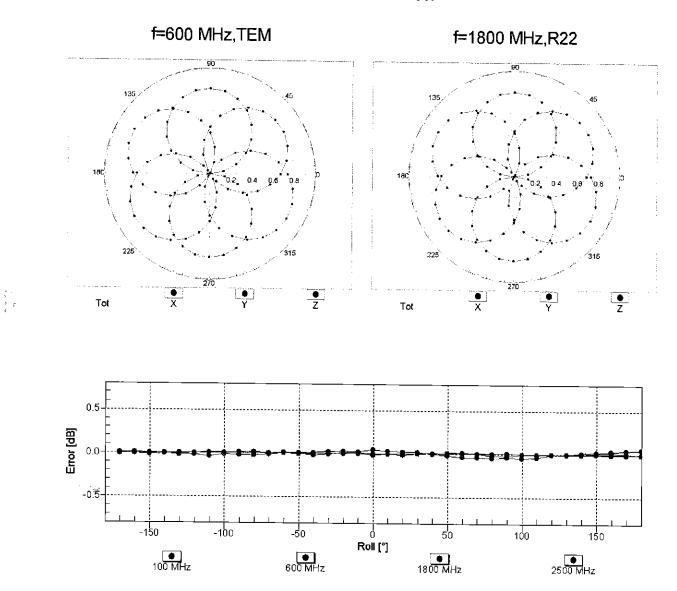
^F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to \pm 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to \pm 5%. The uncertainty is the RSS of the ConvF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

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



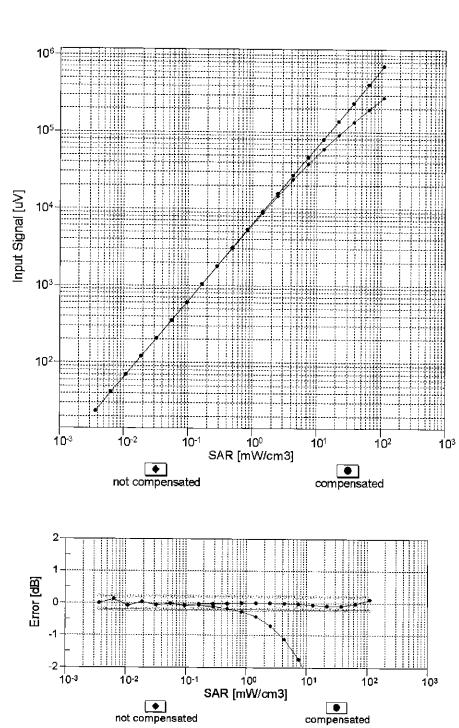
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

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



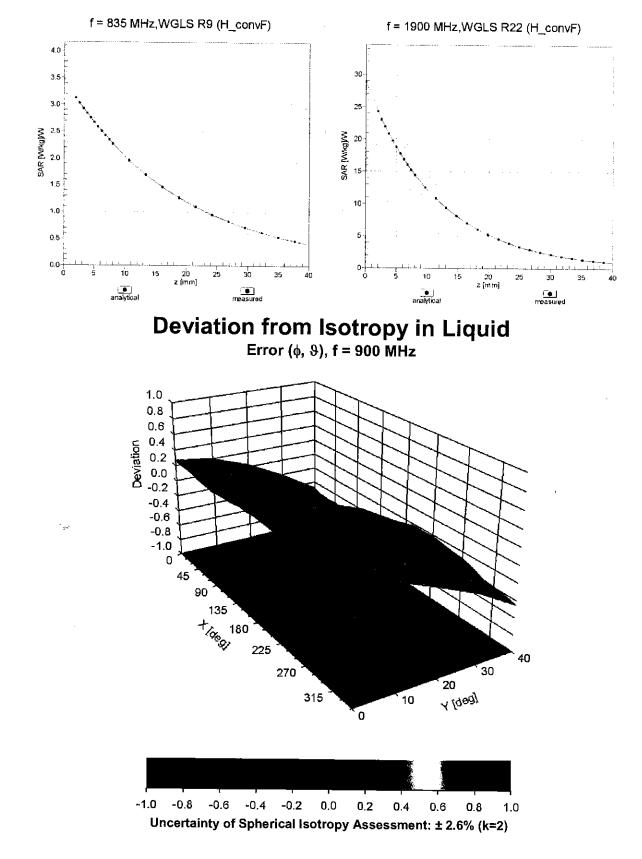
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

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



Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)

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



Conversion Factor Assessment

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	89.6
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	
Probe Overall Length	337 mm
Probe Body Diameter	
Tip Length	
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

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Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max Unc ^E (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	191.5	± 3.3 %
		Y	0.00	0.00	1.00		198.9	
10010-		Z	0.00	0.00	1.00		180.8	
<u>CAA</u>	SAR Validation (Square, 100ms, 10ms)	X	10.31	82.54	19.92	10.00	25.0	± 9.6 %
		Y	9.70	81.57	20.65		25.0	
10011-	UMTS-FDD (WCDMA)	ZX	13.02 1.65	86.61 76.64	21.44 20.39	0.00	25.0 150.0	
CAB						0.00		± 9.6 %
	<u>+-</u>	Y Z	1.11	68.31	15.89		150.0	
10012-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	X	1.42	70.53 67.62	17.08 17.77	0.41	150.0 150.0	± 9.6 %
CAB	Mbps)					0.41		19.0%
		Y	1.35	65.44	16.09		<u>1</u> 50.0	
40040		Z	1.35	66.18	16.60		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	5.13	67.63	17.69	1.46	150.0	± 9.6 %
		Y	5.21	67.37	17.49		150.0	
10021-	GSM-FDD (TDMA, GMSK)	ZX	5.05	67.67	17.63	0.00	150.0	10.0.0
DAC			36.11	104.66	28.70	9.39	50.0	± 9.6 %
		Y	17.06	92.75	26.26		50.0	
10023-	GPRS-FDD (TDMA, GMSK, TN 0)	Z	74.47	117.68	32.39	0.53	50.0	
DAC		x	29.01	100.99	27.69	9.57	50.0	±9.6 %
		۲ <u>۲</u>	15.70	91.12	25.76		50.0	
10024-	GPRS-FDD (TDMA, GMSK, TN 0-1)	Z X	50.86 100.00	111.27	30.76	0.50	50.0	10.0.0/
DAC					30.37	6.56	60.0	±9.6 %
		Y	79.14	117.46	31.45		60.0	
10025-		Z	100.00	119.51	30.92	10 53	60.0	
DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	18.01	104.77	39.73	12.57	50.0	± 9.6 %
		Y	13.85	93.70	35.01		50.0	
10026-	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Z X	19.28 22.37	108.70	41.83	0.50	50.0	100%
DAC				106.73	36.71	9.56	60.0	± 9.6 %
		Y	15.21	95.13	32.50		60.0	
10027-		Z	23.85	109.99	38.29	1.00	60.0	
DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	117.60	29.16	4.80	80.0	± 9.6 %
		Y	100.00	119.86	30.73		80.0	
10000		Z	100.00	118.96	29.76	0.55	80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	118.56	28.79	3.55	100.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	100.00	119.98	29.90	ļ	100.0	
10029-	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	Z	100.00	119.90	29.38	7.00	100.0	100%
10029- DAC		X	14.79	97.42	32.53	7.80	80.0	± 9.6 %
		Y	11.52	89.75	29.55		80.0	L
10030-	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Z X	14.18 100.00	97.61 116.89	32.99 29.16	5.30	80.0 70.0	± 9.6 %
CAA						0.00		± 9.0 %
		Y	100.00	119.53	30.94		70.0	
10021	IEEE 802 15 1 Plustaath (OEOK, DUR)	Z	100.00	118.05	29.66	4.00	70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	122.60	28.99	1.88	100.0	± 9.6 %
	<u> </u>	Y	100.00	121.51	28.91	_	100.0	
		Z	100.00	122.48	28.93		100.0	

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	x	100.00	133.16	32.27	1.17	100.0	± 9.6 %
0//1			(00 00	100.10	<u> </u>		<u> </u>	
		Y	100.00	126.43	29.83		100.0	1
10033-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	Z X	100.00	130.02	30.96		100.0	
CAA	DH1)		32.57	106.74	29.49	5.30	70.0	± 9.6 %
		Y	13.39	91.56	25.42		70.0	
40004		Z	28.98	104.37	28.55		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	45.93	114.88	30.10	1.88	100.0	± 9.6 %
		Y	7.50	87.12	22.45		100.0	
40005		Z	20.04	100.44	25.46		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	21.96	105.92	27.68	1.17	100.0	± 9.6 %
		Y	4.51	<u>81.</u> 47	20.26		100.0	
10036-		Z	9.42	91.44	22.56		100.0	
<u>CAA</u>	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	45.23	112.33	31.05	5.30	70.0	± 9.6 %
	·	Y	15.39	94.09	26.30		70.0	
10037-		Z	38.95	109.34	29.96		70.0	
10037- _CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	39.94	112.82	29.55	1.88	100.0	± 9.6 %
	<u> </u>	Y	7.15	86.45	22.19		100.0	<u> </u>
40000		Z	17.08	98.28	24.84		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	24.74	108.13	28.38	1.17	100.0	± 9.6 %
		Ý	4.66	82.21	20.61	·	100.0	
		Z [_]	9.87	92.45	22.99		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	X	7.01	92.94	24.21	0.00	150.0	± 9.6 %
		Υ	2.15	73.76	17.15		150.0	
		Z	2.61	77.73	17.80		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	100.00	117.06	30.06	7.78	50.0	± 9.6 %
		Y	33.54	102.85	27.66		50.0	
		Z	100.00	118.08	30.50		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	127.60	2.39	0.00	150.0	± 9.6 %
		Y	0.00	96.78	0.00		150.0	
		Z	0.01	122.93	2.94		150.0	
10048- · CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	×	13.06	86.13	24.73	13.80	25.0	±9.6 %
		Y	11.09	82.14	24.36		25.0	
		Z	16.17	90.99	26.57		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	16.50	91.24	25.09	10.79	40.0	±9.6 %
		Y	12.58	86.37	24.53		40.0	<u> </u>
40050		Z	22.30	97.25	27.17		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	15.28	90.62	25.52	9.03	50.0	± 9.6 %
		Y	11.72	85.08	24.19		50.0	
10058-		Z	17.40	93.38	26.42		50.0	
DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	10.69	91.04	29.62	6.55	100.0	± 9.6 %
	<u>+</u>	<u>Y</u>	9.07	85.67	27.37		100.0	
10050		Z	9.88	90.10	29.57		100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.68	70.66	19.16	0.61	110.0	± 9.6 %
	<u> </u>	_Y	1.55	67.69	17.16		110.0	· · · · · · · · · · · · · · · · · · ·
10000		Z	1.56	68.66	17.81		110.0	
10060-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	X	100.00	135.64	35.63	1.30	110.0	± 9.6 %
	Mbps)			· ·				/ 0
	Mbps)	_ <u>Y</u> _Z	100.00	131.50	34.05		110.0	

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10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	54.02	125.97	35.38	2.04	110.0	± 9.6 %
		Y	8.96	93.29	26.14		110.0	
		z	19.56	108.50	30.84		110.0	
10062- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.87	67.49	17.06	0.49	100.0	±9.6 %
		Y	4.91	67.10	16.78		100.0	
		Z	4.75	67.38	16.89		100.0	
10063- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.91	67.64	17.19	0.72	100.0	±9.6 %
		Y	4.96	67.27	16.93		100.0	
•		Z	4.80	67.55	17.03		100.0	
10064- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.22	67.92	17.42	0.86	100.0	± 9.6 %
		Y	5.29	67.61	17.19		100.0	
(Z	5.08	67.80	17.26		100.0	
10065- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	5.13	67.94	17.58	1.21	100.0	± 9.6 %
		Y	5.21	67.67	17.37		100.0	
10055		Z	5.00	67.84	17.45		100.0	
10066- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.18	68.06	17.79	1.46	100.0	± 9.6 %
		Y	5.27	67.81	17.60		100.0	
		Z	5.05	67.98	17.68		100.0	
10067- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.49	68.19	18.21	2.04	100.0	± 9.6 %
		Y	5.60	67.98	18.05		100.0	
		Z	5.39	68.30	18.20		100.0	
10068- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.62	68.50	18.55	2.55	100.0	± 9.6 %
		ΙY	5.76	68.37	18.43		100.0	
		Z	5.50	68.48	18.50		100.0	
10069- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.69	68.44	18.72	2.67	100.0	±9.6 %
		Y	5.84	68.31	18.60		100.0	
		Z	5.58	68.54	18.73		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.27	67.84	18.05	1.99	100.0	±9.6 %
		Y	5.37	67.63	17.89		100.0	
		Z	5.20	67.92	18.02		100.0	
10072- CAB	JEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	5.34	68.42	18.38	2.30	100.0	± 9.6 %
		Y	5.45	68.23	18.22		100.0	
		Z	5.25	68.45	18.35		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.47	68.76	18.79	2.83	100.0	± 9.6 %
		Y	5.61	68.62	18.66		100.0	
		Z	5.40	68.87	18.81		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.51	68.83	19.02	3.30	100.0	± 9.6 %
		Y	5.66	68.73	18.92		100.0	
		Z	_ 5.46	68.99	19.07		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.65	69.27	19.49	3.82	90.0	±9.6 %
		Y	5.85	69.26	19.43		90.0	
		Z	5.60	69.37	19.53	L	90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.67	69.08	19.61	4.15	90.0	± 9.6 %
		Y	5.87	69.08	19.56		90.0	
		Z	5.65	69.30	19.73		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.72	69.19	19.72	4.30	90.0	±9.6 %
		Y	5.92	69.19	19.67		90.0	
		Z	5.70	69.44	19.85		90.0	

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10081-	CDMA2000 (1xRTT, RC3)	Tx	2.28	81.48	20.27	0.00	150.0	± 9.6 %
CAB								1 0.0 %
		Y	1.00	67.64	14.10		150.0	
10082-	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-		1.04	69.66	14.21		150.0	
CAB	DQPSK, Fullrate)	X	2.13	64.08	8.83	4.77	80.0	± 9.6 %
		Y	2.57	65.34	10.16		80.0	
40000		Z	<u>2.</u> 13	64.35	9.02		80.0	-
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	118.32	30.42	6.56	60.0	± 9.6 %
		<u>Y</u>	75.01	116.70	31.30		60.0	· · · · · · · · · · · · · · · · · · ·
		Z	100.00	119.58	30.97		60.0	
10097- CAB	UMTS-FDD (HSDPA)	X	2.20	71.50	18.09	0.00	150.0	± 9.6 %
		Y	1.90	67.97	16.04		150.0	
(0000		Z	1.97	69.50	16.62		150.0	
10098- CAB	UMTS-FDD (HSUPA, Subtest 2)	X	2.16	71.55	18.11	0.00	150.0	± 9.6 %
		Y	1.86	67.93	16.01		150.0	
10000		Z	1.93	69.49	16.61		150.0	<u> </u>
10099- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	22.24	106.54	36.64	9.56	60.0	± 9.6 %
		Y	15.16	95.02	32.46		60.0	
		Z	23.72	109.80	38.22		60.0	
10100- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.77	73.97	18.60	0.00	150.0	± 9.6 %
		Y	3.32	71.02	16.99		150.0	
		Z	3.27	71.57	17.41		150.0	
10101- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.50	69.24	17.00	0.00	150.0	± 9.6 %
		ΤY	3.39	67.99	16.16		150.0	
		Z	3.29	68.22	16.35		150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	3.59	69.07	17.02	0.00	150.0	± 9.6 %
_		Y	3.49	67.92	16.24		150.0	
		Z	3.39	68.14	16.41		150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	9.27	79.88	21.95	3.98	65.0	±9.6 %
_		Y	8.43	77.27	20.93		65.0	
		Z	9.22	80.33	22.26		65.0	
1010 <mark>4-</mark>	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	8.81	77.80	21.97	3.98	65.0	± 9.6 %
		Y	8.62	76.41	21.37		65.0	
		Z	8.59	77.82	22.06			<u> </u>
10105- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	8.19	76.36	21.65	3.98	65.0 65.0	± 9.6 %
		Y	7.71	74.18	20.67		65.0	
	· · · · · · · · · · · · · · · · · · ·	Z	7.86	76.00	21.56		65.0	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	3.29	73.14	18.47	0.00	150.0	±9.6 %
		Y	2.93	70.22	16.82		150.0	
		Z	2.85	70.87	17.28		150.0	
10109- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.18	69.27	17.05	0.00	150.0	± 9.6 %
		Y	3.05	67.82	16.11		150.0	
10110		Z	2.94	68.18	16.29		150.0	
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.72	72.52	18.35	0.00	150.0	± 9.6 %
		Y	2.40	69.28	16.49		150.0	
10111		Z	2.33	70.22	16.99		150.0	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.96	70.65	17.72	0.00	150.0	± 9.6 %
		Y	2.76	68.51	16.45		150.0	
		Z	2.69	69.33	16.67		0.00	

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10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.29	69.10	17.02	0.00	150.0	± 9.6 %
		Y	3.17	67.76	16.14		150.0	
		Z	3.06	68.15	16.32		150.0	<u> </u>
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	3.11	70.58	17.73	0.00	150.0	± 9.6 %
		Y	2.92	68.59	16.56		150.0	
		Z	2.83	69.41	16.76		150.0	
10114- CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.26	67.86	16.86	0.00	150.0	± 9.6 %
		Y	5.25	67.40	16.53		150.0	
<u> </u>		Z	5.14	67.65	16.68		150.0	
10115- CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.60	68.11	16.98	0.00	150.0	± 9.6 %
		Y	5.62	67.73	16.70		150.0	
		Z	5.40	67.70	16.71		150.0	
10116- CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.38	68.12	16.91	0.00	150.0	±9.6 %
		Y	5.38	67.68	16.59		150.0	
		Z	5.23	67.82	16.70		150.0	
10117- CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.24	67.79	16.84	0.00	150.0	± 9.6 %
		Y	5.25	67.40	16.55		150.0	
		Z	5.10	67.49	16.62		150.0	
10118- CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16- QAM)	X	5.68	68.30	17.08	0.00	150.0	± 9.6 %
		Y	5.70	67.92	16.80		150.0	
		Z	5.48	67.91	16.83		150.0	-
10119- CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64- QAM)	Х	5.35	68.04	16.89	0.00	150.0	±9.6%
		Y	5.35	67.63	16.58	_	150.0	
		Z	5.21	67.79	16.69		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.63	69.06	16.93	0.00	150.0	± 9.6 %
		Y	3.53	67.92	16.17		150.0	
		Z	3.42	68.16	16.33		150.0	· · · ·
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.75	69.06	17.04	0.00	150.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	3.65	67.98	16.31		150.0	
		Z	3.54	68.23	16.48		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.58	73.34	18.51	0.00	150.0	± 9.6 %
		Y	2.18	69.29	16.31		150.0	
		Z	2.13	70.56	16.73		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	3.01	72.46	18.03	0.00	150.0	± 9.6 %
		Y	2.65	69.32	16.38		150.0	
	· · · · · · · · · · · · · · · · · · ·	Z	2.60	70.44	16.44		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.64	69.45	16.13	0.00	150.0	± 9.6 %
		Y	2.44	67.23	14.90		150.0	
		Z	2.30	67.73	14.62		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	2.19	73.84	16.83	0.00	150.0	± 9.6 %
		Y	1.54	67.56	13.92		150.0	
		Z	1.24	66.10	11.96		150.0	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	6.00	80.94	18.56	0.00	150.0	± 9.6 %
		Y	2.97	71.15	15.11		150.0	
		Z	2.39	68.87	12.55		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	13.14	91.59	22.17	0.00	150.0	± 9.6 %
		Y	3.76	74.52	16.70		150.0	<u> </u>
			0.70	14.07	1 10.70		ວບ	

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10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	x	3.19	69.34	17.10	0.00	150.0	± 9.6 %
		Y -	3.06	67.89	16.15		150.0	<u> </u>
		Z	2.95	68.25	16.34	-	150.0	
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.29	69.16	17.06	0.00	150.0	± 9.6 %
		Y	3.18	67.81	16.18		150.0	
		Z	3.07	68.20	16.36		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	10.08	82.65	23.10	3.98	65.0	± 9.6 %
		Y	9.04	79.65	21.96		65.0	
		Z	10.06	83.26	23.42		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	8.50	78.17	21.88	3.98	65.0	± 9.6 %
		Y	8.23	76.54	21.20		65.0	
10/00		Z	8.27	78.18	21.88		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	8.91	78.99	22.55	3.98	65.0	± 9.6 %
·		Y	8.60	77.29	21.85		65.0	
		Ζ	8.71	79.10	22.58		65.0	<u>├</u> ─────
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.81	73.15	18.70	0.00	150.0	± 9.6 %
		Y	2.46	69.77	16.80		150.0	
40455		Z	2.38	70.62	17.23		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.96	70.66	17.73	0.00	150.0	± 9.6 %
<u> </u>		Y	2.76	68.51	16.46		150.0	
		Z	2.69	69.35	16.69		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	2.55	74.52	18.86	0.00	150.0	± 9.6 %
		Y	2.05	69.58	16.30		150.0	
		Z	2.00	70.89	16.58		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.62	71.06	16.72	0.00	150.0	± 9.6 %
		Y	2.30	67.95	15.09		150.0	
		Z	2.17	68.55	14.74		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	3.11	70.65	17.78	0.00	150.0	±9.6 %
	<u> </u>	Y	2.92	68.65	16.60		150.0	
		Z	2.84	69.48	16.81		150.0	
10159- * CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.77	71.67	17.06	0.00	150.0	±9.6 %
		Y	2.42	68.44	15.40		150.0	
40402		Z	2.27	68.98	14.99		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	3.14	71.31	17.89	0.00	150.0	± 9.6 %
		Y	2.90	69.12	16.57		150.0	
10161-		Z	2.85	69.90	17.00		150.0	
<u>CAD</u>	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.19	69.15	17.05	0.00	150.0	± 9.6 %
		Y	3.08	<u>67.73</u>	16.13		150.0	
10160		Z	2.97	68.19	16.30		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.30	69.19	17.10	0.00	150.0	± 9.6 %
		Y	3.18	67.80	16.21		150.0	
10166		Z	3.08	68.34	16.41		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	4.14	72.27	20.63	3.01	150.0	± 9.6 %
		Y	3.92	70.06	19.35		150.0	
10107		Z	3.85	71.64	20.32		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	5.70	76.91	21.68	3.01	150.0	± 9.6 %
		Y	4.94	72.92	19.80		150.0	
		Z	5.14					

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10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	6.50	79.76	23.17	3.01	150.0	± 9.6 %
		Ŷ	5.42	74.94	21.01		150.0	
		z	5.85	78.93	22.82		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.88	74.16	21.49	3.01	150.0	± 9.6 %
		Y	3.53	70.80	19.64		150.0	
		z	3.37	71.79	20.43		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	7.14	85.17	25.38	3.01	150.0	± 9.6 %
		Y	5.02	76.66	21.81		150.0	
	· · · · · · · · · · · · · · · · · · ·	z	5.41	80.65	23.72		150.0	
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	5.21	78.32	21.78	3.01	150.0	± 9.6 %
		Y	4.13	72.50	19.15		150.0	
		Z	4.25	75.40	20.64		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	82.16	130.26	39.09	6.02	65.0	± 9.6 %
		Y	17.62	97.94	29.93		65.0	
		Ζ	65.78	128.99	39.45		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	91.21	124.95	35.70	6.02	65.0	± 9.6 %
		Y	19.75	96.35	28.03		65.0	
		Z	100.00	129.35	37.29		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	55.61	114.43	32.46	6.02	65.0	± 9.6 %
		Y	16.76	92.45	26.36		65.0	
		Z	70.56	121.14	34.65		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.81	73.71	21.19	3.01	150.0	± 9.6 %
		Y	3.48	70.45	19.37		150.0	
		Z	3.32	71.46	20.19		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	7.15	85.21	25.39	3.01	150.0	± 9.6 %
		Υ	5.03	76.68	21.82		150.0	
		Z	5.42	80.68	23.74		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.85	73.93	21.31	3.01	150.0	± 9.6 %
		Y	3.51	70.63	19.48		150.0	
		Z	3.35	71.61	20.27		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	7.01	84.77	25.21	3.01	150.0	± 9.6 %
		Y	4.96	76.40	21.67		150.0	
		Z	5.36	80.45	23.62		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	6.07	81.52	23.41	3.01	150.0	± 9.6 %
		Y	4.53	74.41	20.33		150.0	
		Z	4.79	77.92	22.06		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	5.18	78.18	21.70	3.01	150.0	± 9.6 %
		Y	4.12	72.40	19.09		150.0	
		Z	4.24	75.33	20.60		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.84	73.91	21.30	3.01	150.0	± 9.6 %
		Y	3.51	70.61	19.47		150.0	
10.10-		Z	3.35	71.60	20.27		150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	6.99	84.74	25.19	3.01	150.0	± 9.6 %
		Y.	4.95	76.38	21.66		150.0	
10100		Z	5.35	80.42	23.61		150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	×	5.17	78.15	21.69	3.01	150.0	± 9.6 %
		Y	4.11	72.38	19.08		150.0	
		Z	4.23	75.30	20.59		150.0	-

10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.86	73.96	21.33	3.01	150.0	± 9.6 %
		Y	3.52	70.65	19.50	<u> </u>	150.0	
		Z	3.36	71.64	20.29		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	7.04	84.85	25.24	3.01	150.0	± 9.6 %
		ΤŸ	4.98	76.45	21.70		150.0	<u> </u>
		Z	5.38	80.50	23.65		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	5.20	78.24	21.73	3.01	150.0	± 9.6 %
		Y	4.13	72.45	19.11		150.0	<u> </u>
		Z	4.25	75.38	20.62		150.0	<u>† </u>
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.87	74.02	21.39	3.01	150.0	± 9.6 %
		Γ <u>Υ</u>	3.53	70.69	19.55		150.0	
		Z	3.37	71.71	20.36		150.0	<u> </u>
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	7.44	86.01	25.76	3.01	150.0	± 9.6 %
		Y	5.15	77.16	22.09		150.0	<u> </u>
		Z	5.58	81.30	24.05		150.0	<u> </u>
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	5.39	78.94	22.10	3.01	150.0	± 9.6 %
		Y	4.22	72.89	19.39		150.0	
		Z	4.36	75.91	20.93		150.0	⊢—
10193- CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.67	67.32	16.65	0.00	150.0	± 9.6 %
		Y	4.67	66.82	16.30		150.0	
		Z	4.53	67.11	16.38		150.0	
10194- CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.85	67.66	16.76	0.00	150.0	± 9.6 %
		Y	4.86	67.18	16.41		150.0	
		Z	4.69	67.40	16.51		150.0	
10195- CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.89	67.68	16.77	0.00	150.0	± 9.6 %
		Y	4.90	67.20	16.42		150.0	j
		Z	4.73	67.43	16.52		150.0	
10196- CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.68	67.41	16.68	0.00	150.0	± 9.6 %
		Y	4.68	66.91	16.33		150.0	
		Z	4.52	67.15	16.39		150.0	
10197- * CAB	IEEE 802.11n (HT Mixed, 39 Mbps, 16- QAM)	X	4.87	67.69	16.78	0.00	150.0	± 9.6 %
		Y	4.88	67.20	16.42		150.0	
1040		Z	4.70	67.42	16.52		150.0	·
10198- CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM)	X	4.90	67.70	16.79	0.00	150.0	± 9.6 %
		Y	4.91	67.21	16.43	_	150.0	
40040		Z	4.73	67.45	16.54		150.0	
10219- CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.63	67.43	16.65	0.00	150.0	± 9.6 %
		Y	4.63	66.93	16.29		150.0	
10000		Z	4.47	67.18	16.36		150.0	
10220- CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16- QAM)	X	4.86	67.66	16.77	0.00	150.0	± 9.6 %
	<u> </u>	Y	4.88	67.19	16.42		150.0	
10221-		Z	4.69	67.38	16.50		150.0	
CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64- QAM)	X	4.90	67.62	16.76	0.00	150.0	± 9.6 %
		Y	4.91	67.14	16.42		150.0	
10222-		Z	4.74	67.37	16.52		150.0	
CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	х	5.22	67.81	16.85	0.00	150.0	± 9.6 %
		Y Z	5.23	67.42	16.55		150.0	

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10223-	IEEE 802.11n (HT Mixed, 90 Mbps, 16-	x	5.53	67.07	40.04		450.0	1000
CAB	QAM)			67.97	16.94	0.00	150.0	± 9.6 %
		Y	5.59	67.74	16.73		150.0	
10224-		Z	5.38	67.75	16.76		150.0	
	IEEE 802.11n (HT Mixed, 150 Mbps, 64- QAM)	X	5.26	67.91	16.83	0.00	150.0	± 9.6 %
		Y	5.27	67.51	16.52		150.0	
		Z	5.12	67.61	16.60	_	150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	3.00	67.51	16.39	0.00	150.0	± 9.6 %
		Y	2.93	66.39	15.65		150.0	
		Z	2.82	66.88	15.63		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	100.00	126.81	36.25	6.02	65.0	± 9.6 %
		Υ	20.60	97.21	28.37		65.0	
		Z	100.00	129.54	37.41		65.0	
10227- <u>CA</u> A	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	65.64	117.49	33.34	6.02	65.0	± 9.6 %
		Y	18.22	94.00	26.93		65.0	
		Z	85.61	124.65	35.59		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	79.85	130.36	39.26	6.02	65.0	± 9.6 %
		Y	20.21	101.07	31.01		65.0	
		Z	65.84	129.47	39.67		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	91.11	124.93	35.70	6.02	65.0	±9.6 %
		Y	19.80	96.38	28.04		65.0	
		Z	100.00	129.35	37.29		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	60.15	115.83	32.84	6.02	65.0	±9.6 %
-		Y	17.60	93.31	26.65		65.0	
		z	77.12	122.67	35.03		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	72.28	128.22	38.64	6.02	65.0	± 9.6 %
		Y	19.39	100.17	30.67		65.0	
		z	59.87	127.39	39.07		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	91.25	124.96	35.71	6.02	65.0	± 9.6 %
		Y	19.78	96.37	28.04		65.0	
_		†- <u>'</u>	100.00	129.36	37.30		65.0	
10233- CAD	JETE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	x	60.26	115.87	32.85	6.02	65.0	± 9.6 %
		Y	17.59	93.32	26.66		65.0	
		Z	77.19	122.70	35.04		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	65.41	125.97	37.96	6.02	65.0	± 9.6 %
		Y	18.62	99.23	30.29		65.0	
		Z	54.84	125.34	38.42		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	<u>x</u>	91.93	125.11	35.75	6.02	65.0	± 9.6 %
		Y	19.81	96.41	28.05	ļ	65.0	
		Z	100.00	129.37	37.30		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	61.00	116.05	32.90	6.02	65.0	± 9.6 %
		Y	17.69	93.40	26.68		65.0	
		Z	78.43	122.94	35.10		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	73.61	128.60	38.74	6.02	65.0	±9.6 %
		Y	19.49	100.29	30.70		65.0	
		Z	60.90	127.76	39.16		65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	91.47	125.02	35.72	6.02	65.0	± 9.6 %
		Y	19.78	96.38	28.04		65.0	
		Z	100.00	129.37	37.30		65.0	

CAD QPSK) 10241- LTE-TDD (SC 10242- LTE-TDD (SC 10243- LTE-TDD (SC CAA 64-QAM) 10243- LTE-TDD (SC CAA QPSK) 10244- LTE-TDD (SC CAA QPSK) 10244- LTE-TDD (SC CAB 16-QAM) 10245- LTE-TDD (SC CAB G4-QAM) 10245- LTE-TDD (SC CAB QPSK) 10246- LTE-TDD (SC CAD 16-QAM) 10247- LTE-TDD (SC CAD 64-QAM) 10247- LTE-TDD (SC CAD G4-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10249- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10251- LTE-TDD (SC CAD G4-QAM) 10252- LTE-TDD (SC CAD G4-QAM) 10253- <t< th=""><th>-TDD (SC-FDMA, 1 RB, 15 MHz,</th><th>x</th><th>60.36</th><th>115.92</th><th>32.87</th><th>6.02</th><th>65.0</th><th>± 9.6 %</th></t<>	-TDD (SC-FDMA, 1 RB, 15 MHz,	x	60.36	115.92	32.87	6.02	65.0	± 9.6 %
CAD QPSK) 10241- LTE-TDD (SC 10242- LTE-TDD (SC 10243- LTE-TDD (SC 10243- LTE-TDD (SC 10244- LTE-TDD (SC 10245- LTE-TDD (SC 10245- LTE-TDD (SC 10245- LTE-TDD (SC 10246- LTE-TDD (SC 10247- LTE-TDD (SC 10248- LTE-TDD (SC 10248- LTE-TDD (SC 10248- LTE-TDD (SC CAD 64-QAM) 10247- LTE-TDD (SC CAD 16-QAM) 10247- LTE-TDD (SC CAD 64-QAM) 10248- LTE-TDD (SC CAD 64-QAM) 10250- LTE-TDD (SC CAD 64-QAM) 10250- LTE-TDD (SC CAD 64-QAM) 10251- LTE-TDD (SC CAD 64-QAM) 10252- LTE-TDD (SC CAD 64-QAM) 10253- LTE-TDD (SC CAD 16-QAM) <td></td> <td></td> <td>17.50</td> <td>+</td> <td></td> <td></td> <td><u> </u></td> <td></td>			17.50	+			<u> </u>	
CAD QPSK) 10241- LTE-TDD (SC 10242- LTE-TDD (SC CAA 64-QAM) 10243- LTE-TDD (SC CAA QPSK) 10243- LTE-TDD (SC CAA QPSK) 10243- LTE-TDD (SC CAB 16-QAM) 10244- LTE-TDD (SC CAB QPSK) 10245- LTE-TDD (SC CAB QPSK) 10246- LTE-TDD (SC CAD 16-QAM) 10247- LTE-TDD (SC CAD G4-QAM) 10247- LTE-TDD (SC CAD G4-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10251- LTE-TDD (SC CAD G4-QAM) 10252- LTE-TDD (SC CAD G4-QAM) 10253- LTE-TDD (SC CAD G4-		<u>Y</u>	17.58	93.32	26.66		65.0	+
CAD QPSK) 10241- LTE-TDD (SC 10242- LTE-TDD (SC 10243- LTE-TDD (SC 10243- LTE-TDD (SC 10244- LTE-TDD (SC 10245- LTE-TDD (SC 10245- LTE-TDD (SC 10245- LTE-TDD (SC 10246- LTE-TDD (SC 10247- LTE-TDD (SC 10248- LTE-TDD (SC 10248- LTE-TDD (SC 10248- LTE-TDD (SC CAD 64-QAM) 10247- LTE-TDD (SC CAD 16-QAM) 10247- LTE-TDD (SC CAD 64-QAM) 10248- LTE-TDD (SC CAD 64-QAM) 10250- LTE-TDD (SC CAD 64-QAM) 10250- LTE-TDD (SC CAD 64-QAM) 10251- LTE-TDD (SC CAD 64-QAM) 10252- LTE-TDD (SC CAD 64-QAM) 10253- LTE-TDD (SC CAD 16-QAM) <td></td> <td></td> <td>77.24</td> <td>122.72</td> <td>35.05</td> <td></td> <td>65.0</td> <td></td>			77.24	122.72	35.05		65.0	
CAA 16-QAM) 10242- LTE-TDD (SC CAA 64-QAM) 10243- LTE-TDD (SC CAA QPSK) 10244- LTE-TDD (SC CAB 16-QAM) 10244- LTE-TDD (SC CAB 16-QAM) 10245- LTE-TDD (SC CAB QPSK) 10246- LTE-TDD (SC CAB QPSK) 10247- LTE-TDD (SC CAD 16-QAM) 10247- LTE-TDD (SC CAD G4-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10251- LTE-TDD (SC CAD G4-QAM) 10252- LTE-TDD (SC CAD G4-QAM) 10253- LTE-TDD (SC CAD G4-QAM) 10253- LTE	-TDD (SC-FDMA, 1 RB, 15 MHz, SK)	X	73.31	128.53	38.72	6.02	65.0	± 9.6 %
CAA 16-QAM) 10242- LTE-TDD (SC CAA 64-QAM) 10243- LTE-TDD (SC CAA QPSK) 10244- LTE-TDD (SC CAB 16-QAM) 10244- LTE-TDD (SC CAB 16-QAM) 10245- LTE-TDD (SC CAB QPSK) 10246- LTE-TDD (SC CAB QPSK) 10247- LTE-TDD (SC CAD 16-QAM) 10247- LTE-TDD (SC CAD G4-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10251- LTE-TDD (SC CAD G4-QAM) 10252- LTE-TDD (SC CAD G4-QAM) 10253- LTE-TDD (SC CAD G4-QAM) 10253- LTE		<u>Υ</u>	19.44	100.25	30.69		65.0	
CAA 16-QAM) 10242- LTE-TDD (SC CAA 64-QAM) 10243- LTE-TDD (SC CAA QPSK) 10244- LTE-TDD (SC CAB 16-QAM) 10244- LTE-TDD (SC CAB 16-QAM) 10245- LTE-TDD (SC CAB QPSK) 10246- LTE-TDD (SC CAB QPSK) 10247- LTE-TDD (SC CAD 16-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10251- LTE-TDD (SC CAD G4-QAM) 10252- LTE-TDD (SC CAD G4-QAM) 10253- LTE		Z	60.69	127.70	39.15		65.0	
CAA 64-QAM) 10243- LTE-TDD (SC CAA QPSK) 10244- LTE-TDD (SC CAB 16-QAM) 10245- LTE-TDD (SC CAB G4-QAM) 10245- LTE-TDD (SC CAB QPSK) 10246- LTE-TDD (SC CAB QPSK) 10247- LTE-TDD (SC CAD 16-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10251- LTE-TDD (SC CAD G4-QAM) 10252- LTE-TDD (SC CAD G4-QAM) 10253- LTE-TDD (SC CAD G4-QAM) 10253- LTE-TDD (SC CAD G4-QAM) 10253- LTE	-TDD (SC-FDMA, 50% RB, 1.4 MHz, QAM)	X	14.22	90.30	28.70	6.98	65.0	± 9.6 %
CAA 64-QAM) 10243- LTE-TDD (SC CAA QPSK) 10244- LTE-TDD (SC CAB 16-QAM) 10245- LTE-TDD (SC CAB G4-QAM) 10245- LTE-TDD (SC CAB QPSK) 10246- LTE-TDD (SC CAB QPSK) 10247- LTE-TDD (SC CAD 16-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10251- LTE-TDD (SC CAD G4-QAM) 10252- LTE-TDD (SC CAD G4-QAM) 10253- LTE-TDD (SC CAD G4-QAM) 10253- LTE-TDD (SC CAD G4-QAM) 10253- LTE		Y	11.91	84.78	26.56		65.0	
CAA 64-QAM) 10243- LTE-TDD (SC CAA QPSK) 10244- LTE-TDD (SC CAB 16-QAM) 10245- LTE-TDD (SC CAB G4-QAM) 10245- LTE-TDD (SC CAB QPSK) 10246- LTE-TDD (SC CAB QPSK) 10247- LTE-TDD (SC CAD 16-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10248- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10250- LTE-TDD (SC CAD G4-QAM) 10251- LTE-TDD (SC CAD G4-QAM) 10252- LTE-TDD (SC CAD G4-QAM) 10253- LTE-TDD (SC CAD G4-QAM) 10253- LTE-TDD (SC CAD G4-QAM) 10253- LTE		Z	15.04	92.96	29.82		65.0	
CAA QPSK) 10244- CAB LTE-TDD (SC 16-QAM) 10245- CAB LTE-TDD (SC 64-QAM) 10246- CAB LTE-TDD (SC 64-QAM) 10247- CAD LTE-TDD (SC CAD 10248- CAD LTE-TDD (SC CAD 10248- CAD LTE-TDD (SC CAD 10248- CAD LTE-TDD (SC CAD 10248- CAD LTE-TDD (SC CAD 10250- CAD LTE-TDD (SC CAD 10250- CAD LTE-TDD (SC CAD 10251- CAD LTE-TDD (SC CAD 10252- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10254- 10254- LTE-TDD (SC	-TDD (SC-FDMA, 50% RB, 1.4 MHz, DAM)	X	12.20	86.96	27.37	6.98	65.0	± 9.6 %
CAA QPSK) 10244- CAB LTE-TDD (SC 16-QAM) 10245- CAB LTE-TDD (SC 64-QAM) 10246- CAB LTE-TDD (SC CAB 10246- CAB LTE-TDD (SC CAD 10247- CAD LTE-TDD (SC CAD 10248- CAD LTE-TDD (SC CAD 10248- CAD LTE-TDD (SC CAD 10249- CAD LTE-TDD (SC CAD 10250- CAD LTE-TDD (SC CAD 10250- CAD LTE-TDD (SC CAD 10251- CAD LTE-TDD (SC CAD 10252- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10254- LTE-TDD (SC		Υ	11.04	83.09	25.82		65.0	·
CAA QPSK) 10244- CAB LTE-TDD (SC 16-QAM) 10245- CAB LTE-TDD (SC 64-QAM) 10246- CAB LTE-TDD (SC 64-QAM) 10247- CAD LTE-TDD (SC CAD 10248- CAD LTE-TDD (SC CAD 10248- CAD LTE-TDD (SC CAD 10248- CAD LTE-TDD (SC CAD 10248- CAD LTE-TDD (SC CAD 10250- CAD LTE-TDD (SC CAD 10250- CAD LTE-TDD (SC CAD 10251- CAD LTE-TDD (SC CAD 10252- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10254- 10254- LTE-TDD (SC		Z	14.66	92.40	29.55		65.0	<u> </u>
CAB 16-QAM) 10245- LTE-TDD (SC 64-QAM) 10246- LTE-TDD (SC QPSK) 10247- LTE-TDD (SC QPSK) 10247- LTE-TDD (SC QPSK) 10248- LTE-TDD (SC GAD) 10249- LTE-TDD (SC QPSK) 10249- LTE-TDD (SC QPSK) 10250- LTE-TDD (SC QPSK) 10250- LTE-TDD (SC CAD) 10251- LTE-TDD (SC CAD) 10252- LTE-TDD (SC CAD) 10252- LTE-TDD (SC CAD) 10253- LTE-TDD (SC CAD) 10254- LTE-TDD (SC CAD)	-TDD (SC-FDMA, 50% RB, 1.4 MHz, SK)	X	9.46	83.32	26.91	6.98	65.0	± 9.6 %
CAB 16-QAM) 10245- LTE-TDD (SC 64-QAM) 10246- LTE-TDD (SC QPSK) 10247- LTE-TDD (SC QPSK) 10248- LTE-TDD (SC CAD 10248- LTE-TDD (SC CAD 10248- LTE-TDD (SC CAD 10249- LTE-TDD (SC QPSK) 10250- LTE-TDD (SC QPSK) 10250- LTE-TDD (SC CAD 10251- LTE-TDD (SC CAD 10252- LTE-TDD (SC CAD 10252- LTE-TDD (SC CAD 10253- LTE-TDD (SC CAD 10254- LTE-TDD (SC CAD	· · · · · · · · · · · · · · · · · · ·	Y	9.15	80.79	25.71		65.0	+
CAB 16-QAM) 10245- LTE-TDD (SC 64-QAM) 10246- LTE-TDD (SC QPSK) 10247- LTE-TDD (SC QPSK) 10247- LTE-TDD (SC QPSK) 10248- LTE-TDD (SC GAD 10248- LTE-TDD (SC QPSK) 10249- LTE-TDD (SC QPSK) 10250- LTE-TDD (SC QPSK) 10250- LTE-TDD (SC CAD 10251- LTE-TDD (SC CAD 10252- LTE-TDD (SC CAD 10252- LTE-TDD (SC CAD 10253- LTE-TDD (SC CAD 10254- LTE-TDD (SC CAD		Z	10.96	87.97	28.96		65.0	┼───┤
CAB 64-QAM) 10246- CAB LTE-TDD (SC QPSK) 10247- CAD LTE-TDD (SC CAD 10247- CAD LTE-TDD (SC CAD 10248- CAD LTE-TDD (SC G4-QAM) 10249- CAD LTE-TDD (SC CAD 10250- CAD LTE-TDD (SC QPSK) 10251- CAD LTE-TDD (SC CAD 10252- CAD LTE-TDD (SC G4-QAM) 10252- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10254- LTE-TDD (SC SC	-TDD (SC-FDMA, 50% RB, 3 MHz, DAM)	X	10.76	82.68	21.60	3.98	65.0	± 9.6 %
CAB 64-QAM) 10246- CAB LTE-TDD (SC QPSK) 10247- CAD LTE-TDD (SC CAD 10247- CAD LTE-TDD (SC CAD 10248- CAD LTE-TDD (SC G4-QAM) 10249- CAD LTE-TDD (SC CAD 10250- CAD LTE-TDD (SC QPSK) 10251- CAD LTE-TDD (SC CAD 10252- CAD LTE-TDD (SC G4-QAM) 10252- CAD LTE-TDD (SC CAD 10252- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10254- 10254- LTE-TDD (SC		Y	9.17	79.37	20.74		65.0	┼───┥
CAB 64-QAM) 10246- CAB LTE-TDD (SC QPSK) 10247- CAD LTE-TDD (SC CAD 10247- CAD LTE-TDD (SC CAD 10248- CAD LTE-TDD (SC G4-QAM) 10249- CAD LTE-TDD (SC CAD 10250- CAD LTE-TDD (SC QPSK) 10251- CAD LTE-TDD (SC CAD 10252- CAD LTE-TDD (SC G4-QAM) 10252- CAD LTE-TDD (SC CAD 10252- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10254- 10254- LTE-TDD (SC		Z	9.65	80.90	20.36		65.0	┼───┤
CAB QPSK) 10247- LTE-TDD (SC CAD 16-QAM) 10248- LTE-TDD (SC CAD 64-QAM) 10249- LTE-TDD (SC CAD QPSK) 10250- LTE-TDD (SC CAD 16-QAM) 10250- LTE-TDD (SC CAD 16-QAM) 10251- LTE-TDD (SC CAD 64-QAM) 10252- LTE-TDD (SC CAD QPSK) 10252- LTE-TDD (SC CAD QPSK) 10253- LTE-TDD (SC CAD 16-QAM) 10253- LTE-TDD (SC CAD 16-QAM)	-TDD (SC-FDMA, 50% RB, 3 MHz, DAM)	X	10.44	81.95	21.29	3.98	65.0	± 9.6 %
CAB QPSK) 10247- LTE-TDD (SC CAD 16-QAM) 10248- LTE-TDD (SC CAD 64-QAM) 10249- LTE-TDD (SC CAD QPSK) 10250- LTE-TDD (SC CAD 16-QAM) 10250- LTE-TDD (SC CAD 16-QAM) 10251- LTE-TDD (SC CAD 64-QAM) 10252- LTE-TDD (SC CAD QPSK) 10253- LTE-TDD (SC CAD 16-QAM) 10253- LTE-TDD (SC CAD 16-QAM)		Y	9.07	78.96	20.54		65.0	<u> </u>
CAB QPSK) 10247- LTE-TDD (SC CAD 16-QAM) 10248- LTE-TDD (SC CAD 64-QAM) 10249- LTE-TDD (SC CAD QPSK) 10250- LTE-TDD (SC CAD 16-QAM) 10250- LTE-TDD (SC CAD 16-QAM) 10251- LTE-TDD (SC CAD 64-QAM) 10252- LTE-TDD (SC CAD QPSK) 10252- LTE-TDD (SC CAD QPSK) 10253- LTE-TDD (SC CAD 16-QAM) 10253- LTE-TDD (SC CAD 16-QAM)		Z	9.24	79.99	19.97		65.0	
CAD 16-QAM) 10248- LTE-TDD (SC CAD 64-QAM) 10249- LTE-TDD (SC CAD QPSK) 10250- LTE-TDD (SC CAD 10-QAM) 10250- LTE-TDD (SC CAD 10-QAM) 10251- LTE-TDD (SC CAD 64-QAM) 10252- LTE-TDD (SC CAD QPSK) 10252- LTE-TDD (SC CAD QPSK) 10253- LTE-TDD (SC CAD 16-QAM)	-TDD (SC-FDMA, 50% RB, 3 MHz, K)	X	11.35	86.57	23.09	3.98	65.0	± 9.6 %
CAD 16-QAM) 10248- LTE-TDD (SC CAD 64-QAM) 10249- LTE-TDD (SC CAD QPSK) 10250- LTE-TDD (SC CAD 10-QAM) 10250- LTE-TDD (SC CAD 10-QAM) 10251- LTE-TDD (SC CAD 64-QAM) 10252- LTE-TDD (SC CAD QPSK) 10252- LTE-TDD (SC CAD QPSK) 10253- LTE-TDD (SC CAD 16-QAM)		Y	8.94	81.85	21.69		65.0	
CAD 16-QAM) 10248- LTE-TDD (SC CAD 64-QAM) 10249- LTE-TDD (SC CAD QPSK) 10250- LTE-TDD (SC CAD 10-QAM) 10250- LTE-TDD (SC CAD 10-QAM) 10251- LTE-TDD (SC CAD 64-QAM) 10252- LTE-TDD (SC CAD QPSK) 10252- LTE-TDD (SC CAD QPSK) 10253- LTE-TDD (SC CAD 16-QAM)		Ż	10.01	84.49	21.88		65.0	<u> </u>
CAD 64-QAM) 10249- 2 LTE-TDD (SC QPSK) 10250- LTE-TDD (SC CAD 10251- LTE-TDD (SC CAD 10251- LTE-TDD (SC CAD 10252- LTE-TDD (SC CAD 10252- LTE-TDD (SC CAD 10252- LTE-TDD (SC CAD 10253- LTE-TDD (SC CAD 10253- LTE-TDD (SC CAD 10253- LTE-TDD (SC CAD 10253- LTE-TDD (SC CAD 10254- LTE-TDD (SC CAD	TDD (SC-FDMA, 50% RB, 5 MHz, DAM)	x	8.24	79.27	21.00	3.98	65.0	± 9.6 %
CAD 64-QAM) 10249- CAD QPSK) 10250- CAD LTE-TDD (SC QPSK) 10251- LTE-TDD (SC GAD G4-QAM) 10252- LTE-TDD (SC QPSK) 10253- LTE-TDD (SC QPSK) 10253- LTE-TDD (SC CAD 16-QAM) 10254- LTE-TDD (SC GAD 16-QAM)		TY.	7.74	77.28	20.43		05.0	
CAD 64-QAM) 10249- CAD QPSK) 10250- CAD LTE-TDD (SC QPSK) 10251- LTE-TDD (SC GAD G4-QAM) 10252- LTE-TDD (SC QPSK) 10253- LTE-TDD (SC QPSK) 10253- LTE-TDD (SC CAD 16-QAM) 10254- LTE-TDD (SC GAD 16-QAM)		Ż	7.64	78.13	20.43		65.0	
10249- 2 LTE-TDD (SC QPSK) 10250- LTE-TDD (SC QPSK) 10251- LTE-TDD (SC CAD 10251- LTE-TDD (SC CAD 10252- CAD 10252- LTE-TDD (SC CAD 10252- LTE-TDD (SC CAD 10253- LTE-TDD (SC CAD 10253- LTE-TDD (SC CAD 10253- LTE-TDD (SC CAD 10253- LTE-TDD (SC CAD 10254- LTE-TDD (SC CAD	TDD (SC-FDMA, 50% RB, 5 MHz,	X	8.11	78.56	20.70	3.98	65.0 65.0	± 9.6 %
CAD QPSK) 10250- LTE-TDD (SC CAD 16-QAM) 10251- LTE-TDD (SC CAD 64-QAM) 10252- LTE-TDD (SC CAD QPSK) 10253- LTE-TDD (SC CAD QPSK) 10253- LTE-TDD (SC CAD 16-QAM) 10253- LTE-TDD (SC 10254- LTE-TDD (SC		ΓY-	7.73	76.82	20.23		05.0	<u> </u>
CAD QPSK) 10250- LTE-TDD (SC CAD 16-QAM) 10251- LTE-TDD (SC CAD 64-QAM) 10252- LTE-TDD (SC CAD QPSK) 10253- LTE-TDD (SC CAD 16-QAM) 10253- LTE-TDD (SC 10253- LTE-TDD (SC 10254- LTE-TDD (SC		Z	7.48	77.39			65.0	
10250- CAD LTE-TDD (SC 16-QAM) 10251- CAD LTE-TDD (SC 64-QAM) 10252- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10253- CAD LTE-TDD (SC CAD 10253- LTE-TDD (SC 10254- LTE-TDD (SC	TDD (SC-FDMA, 50% RB, 5 MHz, K)	X	12.62	88.79	19.79 24.56	3.98	65.0 65.0	± 9.6 %
CAD 16-QAM) 10251- LTE-TDD (SC CAD 64-QAM) 10252- LTE-TDD (SC CAD QPSK) 10253- LTE-TDD (SC 10254- LTE-TDD (SC		Y	9.64	83.20	22.76		65.0	
CAD 16-QAM) 10251- LTE-TDD (SC CAD 64-QAM) 10252- LTE-TDD (SC CAD QPSK) 10253- LTE-TDD (SC 10254- LTE-TDD (SC		Ż	12.16	88.40	24.15			<u> </u>
CAD 64-QAM) 10252- LTE-TDD (SC CAD QPSK) 10253- LTE-TDD (SC CAD 16-QAM) 10253- LTE-TDD (SC 10253- LTE-TDD (SC 10253- LTE-TDD (SC 10253- LTE-TDD (SC	TDD (SC-FDMA, 50% RB, 10 MHz, AM)	x	9.13	81.24	23.10	3.98	65.0 65.0	± 9.6 %
CAD 64-QAM) 10252- LTE-TDD (SC CAD QPSK) 10253- LTE-TDD (SC CAD 16-QAM) 10253- LTE-TDD (SC 10253- LTE-TDD (SC 10253- LTE-TDD (SC 10253- LTE-TDD (SC		Y	8.50	78.84	22.20		65.0	╉─────┦
CAD 64-QAM) 10252- LTE-TDD (SC CAD QPSK) 10253- LTE-TDD (SC CAD 16-QAM) 10253- LTE-TDD (SC 10253- LTE-TDD (SC 10253- LTE-TDD (SC 10253- LTE-TDD (SC		Z	8.86	81.11	22.89		65.0	╄────┥
CAD QPSK) 10253- LTE-TDD (SC CAD 16-QAM) 10254- LTE-TDD (SC	TDD (SC-FDMA, 50% RB, 10 MHz, AM)	X	8.47	78.74	21.83	3.98	65.0	± 9.6 %
CAD QPSK) 10253- LTE-TDD (SC CAD 16-QAM) 10254- LTE-TDD (SC		Y	8.10	76.89	21.13		65.0	╞───┤
CAD QPSK) 10253- LTE-TDD (SC CAD 16-QAM) 10254- LTE-TDD (SC		Z	8.20	78.63	21.61		65.0	┼────┤
CAD 16-QAM) 10254- LTE-TDD (SC	TDD (SC-FDMA, 50% RB, 10 MHz, K)	X	11.59	86.92	24.65	3.98	65.0	± 9.6 %
CAD 16-QAM) 10254- LTE-TDD (SC		Y	9.53	82.29	23.01		65.0	
CAD 16-QAM) 10254- LTE-TDD (SC		Z	11.63	87.60	24.87		65.0	├────┤
	TDD (SC-FDMA, 50% RB, 15 MHz, AM)	X	8.27	77.55	21.65	3.98	65.0	± 9.6 %
\		Y	8.04	76.02	21.02		65.0	┟─────┤
		Z	8.09	77.65	21.62		65.0	<u> </u>
<u>CAD</u> <u>64-QAM</u>)	TDD (SC-FDMA, 50% RB, 15 MHz, AM)	Х	8.67	78.35	22.26	3.98	65.0	± 9.6 %
		Y	8.41	76.75	21.61		65.0	┝────┥
		z	8.50	78.49	22.25	——	<u>65.0</u> 65.0	┝── ─┤

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10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	9.69	82.20	23.16	3.98	65.0	±9.6 %
		Y	8.77	79.29	22.03		65.0	
		Z	9.70	82.84	23.45		65.0	<u> </u>
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	9.10	79.45	19.54	3.98	65.0	±9.6 %
		Y	8.28	77.46	19.27		65.0	
		Z	7.50	76.38	17.64		65.0	-
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	8.71	78.44	19.07	3.98	65.0	± 9.6 %
		Y	8.14	76.86	18.96		65.0	
		Z	7.10	75.27	17.09		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	9.16	82.49	20.98	3.98	65.0	± 9.6 %
		Y	7.92	79.54	20.28	-	65.0	
		Z	7.29	78.75	18.94		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	8.59	79.95	21.73	3.98	65.0	± 9.6 %
		Y	8.03	77.80	21.03		65.0	
		Z	8.13	79.27	21.11		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	8.53	79.55	21.59	3.98	65.0	±9.6 %
		Y	8.06	77.57	20.96		65.0	
		Z	8.06	78.82	20.93		65.0	İ
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	11.51	87.11	24.32	3.98	65.0	± 9.6 %
		Y	9.26	82.24	22.68		65.0	
		Z	11.28	87.12	24.13		65.0	t
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	9.12	81.19	23.06	3.98	65.0	± 9.6 %
		Y	8.49	78.79	22.16		65.0	
		Z	8.84	81.05	22.85		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	8.46	78.73	21.82	3.98	65.0	± 9.6 %
		Y	8.09	76.88	21.13		65.0	
		Z	8.19	78.61	21.60		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	11.49	86.74	24.57	3.98	65.0	± 9.6 %
		Y	9.47	82.16	22.94		65.0	
		Z	11.51	87.39	24.78		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	8.50	78.18	21.88	3.98	65.0	± 9.6 %
		Y	8.22	76.54	21.21		65.0	1
		Z	8.27	78.18	21.88		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	8.90	78.98	22.54	3.98	65.0	± 9.6 %
		Y	8.60	77.28	21.84		65.0	
		Z	8.71	79.09	22.57		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	10.06	82.61	23.09	3.98	65.0	± 9.6 %
		Ϋ́	9.03	79.62	21.95		65.0	
		Z	<u>1</u> 0.04	83.22	23.41		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	8.87	77.45	21.95	3.98	65.0	± 9.6 %
		Y	8.72	76.18	21.40		65.0	
		Z	8.67	77.54	22.05		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	8.77	76.99	21.83	3.98	65.0	± 9.6 %
		Y	8.66	75.80	21.31		65.0	
		Z	8.60	77.10	21.92		65.0	<u> </u>
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	9.16	79.20	21.93	3.98	65.0	± 9.6 %
		Y	8.71	77.35	21.19		65.0	1
		Z	9.06	79.57	22.19	[65.0	1

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.80	68.17	16.47	0.00	150.0	± 9.6 %
		Y	2.67	66.63	15.50	<u> </u>	150.0	1
		Z	2.65	67.51	15.70		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	2.12	73.27	18.65	0.00	150.0	± 9.6 %
		Y	1.72	68.53	16.00		150.0	<u> </u>
_		Z	1.76	70.05	16.72		150.0	-
10277- CAA	PHS (QPSK)	X	5.32	68.96	13.42	9.03	50.0	± 9.6 %
		Y	6.41	71.20	15.49		50.0	-
		Z	5.12	68.74	13.08		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	9.11	79.62	20.31	9.03	50.0	± 9.6 %
		Υ	9.22	79.31	21.03		50.0	
		Z	8.20	77.78	19.21	_	50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	9.25	79.80	20.39	9.03	50.0	±9.6%
		Y	9.36	79.46	21.09		50.0	
		Z	8.30	77.91	19.28		50.0	<u> </u>
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	3.59	82.57	20.48	0.00	150.0	± 9.6 %
		Y	1.73	70.44	15.45		150.0	
		Z	1.75	72.09	15.26		150.0	<u> </u>
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	2.13	80.55	19.92	0.00	150.0	± 9.6 %
		<u>Y</u>	0.98	67.37	13.95		150.0	
		Z	1.01	69.27	14.02		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	12.02	108.71	29.17	0.00	150.0	± 9.6 %
		Y	1.26	72.03	16.54		150.0	
		Z	1.93	79.12	18.49		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	100.00	144.61	38.38	0.00	150.0	± 9.6 %
		Y	1.90	78.46	19.68		150.0	
		Z	6.64	97.19	24.86		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	11,58	85.59	24.60	9.03	50.0	± 9.6 %
		_ Y	10.44	82.50	23.85		50.0	
·		Z	13.98	88.93	25.45		50.0	
10297- * AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	3.31	73.28	18.55	0.00	150.0	± 9.6 %
		Y	2.94	70.32	16.89		150.0	
		Z	2.86	70.97	17.35		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	2.53	75.50	18.42	0.00	150.0	± 9.6 %
		Y	1.83	69.14	15.39		150.0	
40000		Z	1.69	69.62	14.84		150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	6.61	82.78	20.21	0.00	150.0	±9.6 %
		Y	3.43	72.67	16.51		150.0	
40000		Z	3.82	74.80	16.21		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	3.24	71.51	15.06	0.00	150.0	± 9.6 %
		Y	2.57	67.68	13.54		150.0	
10204		Z	2.21	66.93	12.03		150.0	
10301- <u>AAA</u>	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	5.62	68.28	18.87	4.17	80.0	±9.6 %
	<u> </u>	Y	5.93	68.63	18.94		80.0	
10200		Z	5.89	69.91	19.47		80.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	6.17	69.25	19.82	4.96	80.0	± 9.6 %
		Y	6.38	69.08	19.58		80.0	
		Z	6.23	69.95	19.93		80.0	

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10303-	IEEE 802.16e WIMAX (31:15, 5ms,	ĪXĪ	6.02	69.32	19.87	4.96	80.0	± 9.6 %
AAA	10MHz, 64QAM, PUSC)							
		Y.	6.26	69.22	19.66		80.0	
		Z	6.09	70.04	19.96		80.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	5.67	68.65	19.09	4.17	80.0	± 9.6 %
		Y	5.85	68.42	18.82		80.0	
		Z	5.71	69.28	19.12		80.0	
10305- AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	9.13	83.00	26.75	6.02	50.0	± 9.6 %
		Y	11.08	85.83	27.58		50.0	
		Z	11.97	88.64	28.23		50.0	
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	6.47	72.26	21.90	6.02	50.0	± 9.6 %
		Y	6.84	72.27	21.68		50.0	
		Z	6.81	73.77	22.17		50.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	6.58	73.04	22.08	6.02	50.0	± 9.6 %
		Y	8.34	78.37	24.64		50.0	
		Z	6.92	74.46	22.29		50.0	
10308- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	6.66	73.56	22.34	6.02	50.0	± 9.6 %
		Y	8.60	79.30	25.04		50.0	
	-	Z	7.08	75.16	22.62		50.0	
10309- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	6.58	72.60	22.09	6.02	50.0	±9.6 %
		Y	6.95	72.58	21.85		50.0	
		Z	6.90	74.05	22.35		50.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	6.50	72.56	21.95	6.02	50.0	± 9.6 %
		Y	6.87	72.52	21.70		50.0	
		Z	6.86	74.10	22.23		50.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.70	72.28	18.01	0.00	150.0	± 9.6 %
	•	Y	3.30	69.61	16.53		150.0	
		Z	3.23	70.11	16.90		150.0	
10313- AAA	iDEN 1:3	X	9.18	81.61	19.86	6.99	70.0	±9.6 %
·		Y	7.64	78.40	19.13		70.0	
		Z	9.78	83.14	20.58		70.0	
10314- AAA	"iDEN 1.6	X	13.83	90.60	25.32	10.00	30.0	±9.6 %
		Y	9.35	83.01	23.15		30.0	
	·	Z	14.01	91.81	25.99		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.27	67.24	17.67	0.17	150.0	±9.6 %
		Y	1.20	64.93	15.83		150.0	
		Z	1.21	65.68	16.36		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	X	4.76	67.47	16.83	0.17	150.0	± 9.6 %
		Y	4.78	67.03	16.51		150.0	
		Z	4.63	67.31	16.62		150.0	
10317- AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.76	67.47	16.83	0.17	150.0	± 9.6 %
		Y	4.78	67.03	16.51		150.0	
		Z	4.63	67.31	16.62		150.0	
10400- AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.86	67.74	16.77	0.00	150.0	± 9.6 %
		Y	4.87	67.24	16.40		150.0	
		Z	4.68	67.47	16.52		150.0	
10401- AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.51	67.76	16.81	0.00	150.0	± 9.6 %
AAC		Y	5.52	67.36	16.52		450.0	
		Z	0.02	07.30	10.02		150.0	

10402- AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	x	5.79	68.18	16.86	0.00	150.0	± 9.6 %
		Y	5.81	67.85	16.61	<u> </u>	150.0	
		Z	5.64	67.83	16.63	· · · ·	150.0	1
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	3.59	82.57	20.48	0.00	115.0	± 9.6 %
		Y	1.73	70.44	15.45	<u> </u>	115.0	
		Z	1.75	72.09	15.26	· · · · ·	115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	3.59	82.57	20.48	0.00	115.0	± 9.6 %
_		Y	1.73	70.44	15.45		115.0	
		Z	1.75	72.09	15.26		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	122.57	31.18	0.00	100.0	± 9.6 %
		LΥ	1 <u>8.35</u>	99.60	26.20		100.0	
		Z	100.00	120.33	29.78		100.0	
10410- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	120.29	30.51	3.23	80.0	± 9.6 %
		Y [100.00	120.68	31.13		80.0	
		Z	100.00	122.62	31.38		80.0	<u> </u>
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.09	65.33	16.67	0.00	150.0	± 9.6 %
		Y	1.03	63.31	14.91		150.0	
		Z	1.05	64.05	15.43		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.67	67.36	16.71	0.00	150.0	± 9.6 %
		Y	4.67	66.86	16.34		150.0	
		Z	4.53	67.14	16.45		150.0	
10417- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.67	67.36	16.71	0.00	150.0	± 9.6 %
		Y	4.67	66.86	16.34		150.0	
		Z	4.53	67.14	16.45		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.66	67.53	16.73	0.00	150.0	± 9.6 %
		Y	4.66	67.00	16.35		150.0	
_		Z	4.52	67.33	16.49		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.68	67.47	16.73	0.00	150.0	± 9.6 %
2	·	Y	4.68	66.95	16.36		150.0	
		Z	4.54	67.26	16.48		150.0	
10422- AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.80	67.45	16.73	0.00	150.0	±9.6%
		Y	4.81	66.96	16.37		150.0	
		z	4.65	67.24	16.49	——		
10423- AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.99	67.80	16.85	0.00	150.0 150.0	± 9.6 %
		Y	5.00	67.33	16.51		150.0	
		Z	4.80	67.54	16.59		150.0	
10424- AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.90	67.76	16.83	0.00	150.0	± 9.6 %
		Y	4.91	67.27	16.47	-	150.0	
		z	4.73	67.50	16.57			
10425- AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.49	68.02	16.94	0.00	150.0 150.0	±9.6 %
		Y	5.50	67.62	16.64		150.0	
		z	5.34	67.73	16.73			
10426- AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	<u> </u>	68.02	16.94	0.00	150.0 150.0	±9.6 %
		Y	5.51	67.65	16.65		150.0	
		z					150.0	
	<u> </u>	- 1	5.36	67.83	16.78		150.0	

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10427- AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	x	5.50	68.00	16.93	0.00	150.0	± 9.6 %
		Y	5.52	67.64	16.64		150.0	
		Z	5.36	67.74	16.73		150.0	· · · · · · · · · · · · · · · · · · ·
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.54	72.09	19.09	0.00	150.0	± 9.6 %
		Y	4.40	70.73	18.36		150.0	
		Z	4.26	71.56	18.37		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.40	68.10	16.85	0.00	150.0	±9.6%
		Y	4.40	67.42	16.40		150.0	
		Z	4.19	67.79	16.46		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.68	67.87	16.83	0.00	150.0	± 9.6 %
		Y	4.69	67.31	16.44	_	150.0	
40.000		<u>Z</u>	4.50	67.59	16.53		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.92	67.80	16.85	0.00	150.0	± 9.6 %
		Y	4.93	67.31	16.50		150.0	
		Z	4.74	67.53	16.59		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.73	73.25	19.23	0.00	150.0	± 9.6 %
		<u>Y</u>	4.51	71.54	18.38		150.0	
		Z	4.38	72.53	18.34		150.0	
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	120.11	30.42	3.23	80.0	± 9.6 %
		Y	100.00	120.53	31.07		80.0	
		Z	100.00	122.42	31.29		80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.76	68.51	16.50	0.00	150.0	± 9.6 %
<u> </u>		T Y	3.71	67.48	15.90		150.0	
		Z	3.49	67.91	15.73		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	4.23	67.89	16.73	0.00	150.0	± 9.6 %
		Υ	4.22	67.19	16.26		150.0	
		Z	4.04	67.58	16.33	—	150.0	·
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.49	67.72	16.75	0.00	150.0	± 9.6 %
		Y	4.48	67.13	16.34		150.0	
		Z	4.32	67.42	16.43		150.0	·
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.67	67.59	16.73	0.00	150.0	± 9.6 %
		Y	4.66	67.07	16.35		150.0	
		Z	4.52	67.31	16.45		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.71	68.96	16.29	0.00	150.0	± 9.6 %
		Y_	3.63	67.76	15.64		150.0	
		Z	3.37	68.05	15.28		150.0	
10456- AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.34	68.51	17.03	0.00	150.0	±9.6 %
		Y	6.36	68.23	16.81		150.0	
		Z	6.24	68.31	16.89		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	×	3.87	65.97	16.44	0.00	150.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	3.87	65.48	16.06		150.0	
		Z	3.81	65.79	16.17		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	4.35	72.54	18.72	0.00	150.0	± 9.6 %
		Y	4.10	70.59	17.78		150.0	
10150		Z	4.02	71.83	17.67		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	5.25	68.89	18.60	0.00	150.0	± 9.6 %
		Y	5.22	68.08	_ 18.20		150.0	
		Z	4.96	68.66	18.04		150.0	

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10460- AAA	UMTS-FDD (WCDMA, AMR)	X	1.62	80.44	22.68	0.00	150.0	± 9.6 %
		Y	0.96	69.05	16.73		150.0	<u> </u>
		Z	1.09	72.04	18.32		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	125.40	32.90	3.29	80.0	± 9.6 %
		Y	100.00	122.42	32.02		80.0	<u> </u>
		Z	100.00	127.89	33.84	-	80.0	· · ·
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.25	25.21	3.23	80.0	± 9.6 %
		Y	100.00	110.42	26.29		80.0	<u>├─</u> ──
		Ż	100.00	110.42	25.54		80.0	<u> </u>
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	106.10	23.70	3.23	80.0	± 9.6 %
		Y	31.87	95.11	22.04		80.0	<u> </u>
		Z	100.00	107.01	23.88		80.0	
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.48	31.85	3.23	80.0	± 9.6 %
		Y	100.00	120.78	31.11		80.0	<u> </u>
		Z	100.00	125.94	32.77	·	80.0	<u> </u>
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.73	24.95	3.23	80.0	±9.6 %
		Y	57.38	103.50	24.59		80.0	
		Z	100.00	109.93	25.28	·	80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.62	23.47	3.23	80.0	± 9.6 %
		Y	19.30	89.18	20.39		80.0	
		Z	100.00	106.51	23.65		80.0	· · · · · · · · · · · · · · · · · · ·
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.71	31.96	3.23	80.0	± 9.6 %
		Y	100.00	120.96	31.19		80.0	
		Z	100.00	126.19	32.89		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.89	25.03	3.23	80.0	± 9.6 %
		Y	68.69	105.73	25.14		80.0	
		Z	100.00	110.12	25.37	_	80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.63	23.47	3.23	80.0	± 9.6 %
_		Y	19.75	89.45	20.46		80.0	
		Z	100.00	106.53	23.66		80.0	
10470- * AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	123.74	31.96	3.23	80.0	±9.6 %
		Y	100.00	120.98	31.20		80.0	
_		Ζ	100.00	126.22	32.89		80.0	
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.84	25.00	3.23	80.0	± 9.6 %
_		Y	69.00	105.75	25.13		80.0	
		Z	100.00	110.07	25.35		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.58	23.44	3.23	80.0	± 9.6 %
		Y	19.79	89.46	20.45		80.0	
40.475		Ζ	100.00	106.47	23.62		80.0	
10473- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	123.71	31.95	3.23	80.0	±9.6 %
		Y	100.00	120.96	31.18		80.0	
40474		Z	100.00	126.20	32.88		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.85	25.00	3.23	80.0	± 9.6 %
		Y	67.79	105.55	25.09		80.0	
40475		Z	100.00	110.08	25.35		80.0	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	х	100.00	105.59	23.45	3.23	80.0	± 9.6 %
010		Y	19.52	89.31	20.44			
		Z	[J.JZ]	09.31 1	20.41		80.0	

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10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.68	24.92	3.23	80.0	± 9.6 %
		Y	60.00	104.00	24.69		80.0	<u> </u>
		Z	100.00	109.90	25.26	· · · · ·	80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.53	23.42	3.23	80.0	± 9.6 %
		Y	19.24	89.12	20.35		80.0	· · · · · · · · · · · · · · · · · · ·
		Z	100.00	106.43	23.60		80.0	
10479- 	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	94.50	124.14	33.84	3.23	80.0	± 9.6 %
		<u>Y</u>	12.50	90.83	25.02		80.0	
40400		Z	100.00	124.95	33.67		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	95.67	115.16	29.54	3.23	80.0	± 9.6 %
	<u> </u>	Y	12.83	86.63	22.28		80.0	
40404		Z	100.00	114.83	28.84		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)		58.64	107.02	27.16	3.23	80.0	±9.6 %
		Y	11.35	84.25	21.22		80.0	
40400		Z	80.09	110.11	27.23		80.0	
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	12.89	91.14	23.86	2.23	80.0	± 9.6 %
		Y	6.25	79.51	20.15		80.0	
40400		Z	8.39	84.42	21.05		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	18.92	92.85	24.00	2.23	80.0	± 9.6 %
		Y	8.58	80.90	20.47		80.0	
40404		Z	13.62	87.31	21.48		80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	15.36	89.71	23.07	2.23	80.0	± 9.6 %
		Y	7.99	79.65	20.04		80.0	
		<u>Z</u>	10.91	84.16	20.49		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	10.83	89.50	24.25	2.23	80.0	± 9.6 %
		Υ	6.29	79.77	20.91		80.0	
	· · · · · · · · · · · · · · · · · · ·	Z	8.35	85.48	22.54		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.33	78.08	19.97	2.23	80.0	± 9.6 %
		Y	5.11	73.82	18.38		80.0	
		Z	5.40	75.74	18.50		80.0	
10487- AAC	"LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.09	77.15	19.61	2.23	80.0	± 9.6 %
		Y	5.06	73.33	18.18		80.0	
		<u>z</u>	5.20	74.88	<u>1</u> 8.15		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.97	83.54	22.89	2.23	80.0	± 9.6 %
		Y_	6.02	77.67	20.60		80.0	
10/22		Z	6.66	81.06	21.92		80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.54	75.17	19.93	2.23	80.0	± 9.6 %
		Y	5.05	72.55	18.77		80.0	
10.000		Z	5.10	74.15	_ 19.29 _		80.0	
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.52	74.58	19.72	2.23	80.0	± 9.6 %
		Y	5.10	72.20	18.66		80.0	
40/0/		Z	5.11	73.70	19.12		80.0	
10491- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.68	78.67	21.27	2.23	80.0	± 9.6 %
		Y	5.75	75.05	19.71		80.0	
		Z	5.90	77.08	20.64		80.0	
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.47	73.05	19.35	2.23	80.0	± 9.6 %
		Y	5.22	71.31	18.50		80.0	1
		Z	5.12	72.35	18.92	·	80.0	<u>├</u> ·

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10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.48	72.72	19.22	2.23	80.0	± 9.6 %
		Y	5.27	71.08	18.43		80.0	1
10.10		Z	5.15	72.07	18.82		80.0	
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.90	81.45	22.09	2.23	80.0	± 9.6 %
		Y	6.41	76.92	20.25		80.0	
		Z	6.69	79.16	21.27		80.0	
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.61	73.73	19.62	2.23	80.0	± 9.6 %
		Y	5.32	71.86	18.72		80.0	
10100		Z	5.21	72.81	19.16		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.57	73.09	19.41	2.23	80.0	± 9.6 %
	<u> </u>	Y	5.35	71.43	18.59		80.0	
40.07		Z	5.21	72.31	18.99		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	10.14	86.59	21.54	2.23	80.0	± 9.6 %
		Y	5.12	76.51	18.39		80.0	
10100		Z	5.35	77.20	17.46		80.0	
10498- AAA 	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.29	72.00	15.43	2.23	80.0	± 9.6 %
		Y	3.72	69.52	14.77		80.0	·
		Ζ	2.43	65.17	11.54		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	x	3.97	70,70	14.77	2.23	80.0	± 9.6 %
		Y	3.61	68.83	14.36		80.0	
		Z	2.26	64.14	10.91		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	8.79	85.79	23.33	2.23	80.0	± 9.6 %
		Y	5:95	78.30	20.59		80.0	·
		Z	7.25	82.97	22.08		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	x	5.90	76.65	19.85	2.23	80.0	± 9.6 %
		Y	5.06	73.18	18.47		80.0	T
10500		Z	5.28	75.13	18.80		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.87	76.18	19.62	2.23	80.0	±9.6%
25		Y	5.09	72.91	18.33		80.0	· · · · · · · · · · · · · · · · · · ·
		Z	5.26	74.71	18.58		80.0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.83	83.24	22.77	2.23	80.0	± 9.6 %
		Υ	5.94	77,45	20.51		80.0	
10501		Z	6.55	80.79	21.81		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz,	X	5.51	75.05	19.87	2.23	80.0	± 9.6 %
-	16-QAM, UL Subframe=2,3,4,7,8,9)							
	16-QAM, UL Subframe=2,3,4,7,8,9)	Y	5.02	72.46	18.72		80.0	
		Z	5.07	74.04	18.72 19.23		80.0 80.0	
10505-	16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Z X	5.07 5.49	74.04 74.47	19.23 19.66	2.23		± 9.6 %
10505-	LTE-TDD (SC-FDMA, 100% RB, 5 MHz.	Z X Y	5.07 5.49 5.07	74.04 74.47 72.10	19.23 19.66 18.60	2.23	80.0	± 9.6 %
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Z X Y Z	5.07 5.49 5.07 5.08	74.04 74.47 72.10 73.60	19.23 19.66 18.60 19.06	2.23	80.0 80.0	± 9.6 %
10505- AAC 10506-	LTE-TDD (SC-FDMA, 100% RB, 5 MHz.	Z X Y Z X	5.07 5.49 5.07 5.08 7.81	74.04 74.47 72.10 73.60 81.23	19.23 19.66 18.60 19.06 22.00	2.23	80.0 80.0 80.0	± 9.6 %
10505- AAC 10506-	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10	Z X Y Z X Y	5.07 5.49 5.07 5.08 7.81 6.35	74.04 74.47 72.10 73.60 81.23 76.76	19.23 19.66 18.60 19.06 22.00 20.18		80.0 80.0 80.0 80.0	
10505- AAC 10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Z X Y Z X Y Z	5.07 5.49 5.07 5.08 7.81 6.35 6.62	74.04 74.47 72.10 73.60 81.23 76.76 78.99	19.23 19.66 18.60 19.06 22.00		80.0 80.0 80.0 80.0 80.0 80.0	
10505- AAC 10506-	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL	Z X Y Z X Y	5.07 5.49 5.07 5.08 7.81 6.35	74.04 74.47 72.10 73.60 81.23 76.76	19.23 19.66 18.60 19.06 22.00 20.18		80.0 80.0 80.0 80.0 80.0 80.0 80.0	
10505- AAC 10506- AAC 10507-	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10	Z X Y Z X Y Z	5.07 5.49 5.07 5.08 7.81 6.35 6.62	74.04 74.47 72.10 73.60 81.23 76.76 78.99	19.23 19.66 18.60 19.06 22.00 20.18 21.19	2.23	80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0	± 9.6 %

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10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.55	73.01	19.36	2.23	80.0	±9.6 %
		Y	5.33	71.35	18.55		80.0	
		Z	5.19	72.24	18.95		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.03	77.40	20.60	2.23	80.0	± 9.6 %
		Y	6.25	74.54	19.35		80.0	
		Z	6.27	75.89	20.05		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.86	72.49	19.18	2.23	80.0	±9.6 %
		Y	5.70	71.14	18.49		80.0	-
		Z	5.51	71.73	18.83		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.83	72.01	19.03	2.23	80.0	± 9.6 %
		Y	5.71	70.79	18.40		80.0	
		Z	5.52	71.35	18.71		80.0	
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	8.18	80.50	21.58	2.23	80.0	± 9.6 %
		Y_	6.82	76.59	19.98		80.0	
		Z	6.97	78.23	20.79		80.0	
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.86	73.15	19.44	2.23	80.0	± 9.6 %
		Y	5.65	71.64	18.67		80.0	
		Z	5.45	72.18	19.02		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5. 75	72.41	19.20	2.23	80.0	±9.6 %
		Y	5.60	71.07	18.51		80.0	
		Z	5.40	71.58	18.82		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	1.06	65.76	16.90	0.00	150.0	±9.6 %
		Y	1.00	63.51	14.99		150.0	
40540		Z	1.02	64.32	15.55		150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	5.87	117.81	35.86	0.00	150.0	± 9.6 %
		Y	0.66	71.85	18.17		150.0	
10517-		Z	0.94	79.02	21.78		150.0	
AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	1.03	70.61	19.18	0.00	150.0	± 9.6 %
	·	Y	0.86	65.67	15.75	-	150.0	
10518- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	Z X	0.90 4.67	67.08 67.45	16.71 16.69	0.00	150.0 150.0	± 9.6 %
		Y	4.67	66.94	16.33		150.0	
		Ż	4.52	67.23	16.44	<u> </u>	150.0	
10519- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.87	67.70	16.81	0.00	150.0	± 9.6 %
		Ý	4.88	67.22	16.46		150.0	
		Z	4.69	67.43	16.54		150.0	
10520- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.72	67.70	16.76	0.00	150.0	± 9.6 %
		Y	4.73	67.19	16.39		150.0	
40561		Z	4.54	67.39	16.47		150.0	
10521- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.66	67.72	16.76	0.00	150.0	± 9.6 %
		Y	4.66	67.20	16.38		150.0	
40500		Z	4.48	67.38	16.46		150.0	
10522- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.71	67.76	16.82	0.00	150.0	± 9.6 %
		Y	4.71	67.20	16.42		150.0	
		Z	4.54	67.51	16.56		150.0	

10523-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	X	4.59	67.65	16.68	0.00	150.0	± 9.6 %
AAA	Mbps, 99pc duty cycle)					1		0.0 %
		Y	4.58	67.09	16.28		150.0	
		Z	4.43	67.41	16.42		150.0	
10524- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.66	67.69	16.79	0.00	150.0	± 9.6 %
		Y	4.66	67.15	16.40		150.0	<u> </u>
		Z	4.48	67.43	16.53		150.0	
10525- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	x	4.63	66.73	16.38	0.00	150.0	± 9.6 %
		Y	4.62	66.18	15.99		150.0	<u> </u>
		Z	4.49	66.49	16.12		150.0	
10526- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.82	67.13	16.53	0.00	150.0	± 9.6 %
		Y	4.82	66.58	16.14		150.0	
10527-		Z	4.64	66.83	16.26		150.0	
AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.74	67.11	16.49	0.00	150.0	± 9.6 %
		Y	4.73	66.55	16.09		150.0	
40500		Z	4.57	66.80	16.20		150.0	
10528- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.76	67.13	16.52	0.00	150.0	± 9.6 %
		Y	4.75	66.57	16.12		150.0	<u> </u>
40500		Z	4.58	66.81	16.23		150.0	
10529- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.76	67.13	16.52	0.00	150.0	± 9.6 %
		Y	4.75	66.57	16.12		150.0	
		Z	4.58	66.81	16.23		150.0	
10531- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.77	67.27	16.55	0.00	150.0	± 9.6 %
		Y	4.76	66.71	16.15		150.0	
		Z	4.56	66.89	16.24		150.0	
10532- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.62	67.15	16.50	0.00	150.0	± 9.6 %
		Y	4.61	66.57	16.09		150.0	
		Z	4.43	66.75	16.17		150.0	
10533- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.77	67.17	16.50	0.00	150.0	±9.6 %
		Y	4.76	66.59	16.10		150.0	
	3	Z	4.59	66.88	16.23		150.0	
10534- * AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.27	67.15	16.50	0.00	150.0	±9.6 %
		Y	5.27	66.72	16.17		150.0	
		Z	5.12	66.84	16.26		150.0	
10535- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.34	67.31	16.57	0.00	150.0	±9.6 %
		Y	5.34	66.86	16.23		150.0	
40500		Z	5.19	67.03	16.35		150.0	
10536- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.22	67.31	16.55	0.00	150.0	± 9.6 %
		Y	5.21	66.84	16.21		150.0	
10507		Z	5.06	66.99	16.32		150.0	
10537- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.27	67.26	16.52	0.00	150.0	± 9.6 %
	<u>+</u>	Y	5.28	66.82	16.20		150.0	
10520		Z	5.12	66.94	16.29		150.0	
10538- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.37	67.28	16.57	0.00	150.0	± 9.6 %
		Y	5.39	66.89	16.27		150.0	
10540		Z	5.20	66.94	16.33		150.0	
10540- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.29	67.28	16.59	0.00	150.0	± 9.6 %
		Y	5.29	66.84	16.26		150.0	
		Z	5.13	66.94	16.35			

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10541- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.26	67.15	16.52	0.00	150.0	± 9.6 %
		Y	5.27	66.73	16.20		150.0	
· _		Z						
10542-	IEEE 802.11ac WiFi (40MHz, MCS8,		5.11	66.82	16.27		150.0	
AAA	99pc duty cycle)	X	5.42	67.19	16.55	0.00	150.0	± 9.6 %
		Y	5.42	66.79	16.25		150.0	
		Z	5.26	66.90	16.33		150.0	
10543- 	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.49	67.21	16.57	0.00	150.0	±9.6 %
		Y	5.51	66.80	16.27		150.0	
		Z	5.32	66.91	16.36		150.0	
10544- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.57	67.22	16.46	0.00	150.0	±9.6 %
		Y	5.56	66.82	16.16		150.0	
		Z	5.45	66.92	16.24		150.0	
10545- AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.77	67.65	16.61	0.00	150.0	± 9.6 %
		Y	5.78	67.25	16.32		150.0	· · _
		Z	5.64	67.38	16.42	1	150.0	
10546- AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.65	67.48	16.55	0.00	150.0	± 9.6 %
		Y	5.65	67.10	16.26	1	150.0	
		Ż	5.50	67.09	16.30	<u> </u>	150.0	
10547- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	×	5.73	67.53	16.56	0.00	150.0	± 9.6 %
		Y	5.74	67.18	16.29		150.0	
		Z	5.57	67.16	16.32		150.0	
10548- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	6.02	68.59	17.06	0.00	150.0	± 9.6 %
		Y	6.08	68.34	16.83		150.0	
		z	5.80	68.04	16.74	·	150.0	
10550- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.67	67.46	16.54	0.00	150.0	± 9.6 %
		Y	5.67	67.06	16.25		150.0	
		Z	5.54	67.19	16.25		150.0	
10551- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.68	67.19	16.53	0.00	150.0 150.0	± 9.6 %
/////		Y	5.69	07.40	40.05		450.0	
				67.13	16.25		150.0	
10552-		Z	5.53	67.15	16.30		150.0	
AAA	HEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.59	67.30	16.44	0.00	150.0	± 9.6 %
		Y	5.59	66.90	16.14		150.0	
10550		Z	5.46	67.00	16.23		150.0	
10553- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.68	67.34	16.48	0.00	150.0	± 9.6 %
		Y	5.68	66.95	16.20		150.0	
		Z	5.53	67.00	16.26		150.0	
10554- AAB	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.97	67.57	16.52	0.00	150.0	±9.6 %
		Y	5.97	67.21	16.26		150.0	
		Z	<u>5.</u> 86	67.27	_16.32		150.0	
10555- AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	6.11	67.88	16.66	0.00	150.0	± 9.6 %
		Y	6.11	67.54	16.39		150.0	
		Z	5.98	67.57	16.45		150.0	
10556- AAB	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.13	67.93	16.67	0.00	150.0	±9.6 %
		Y	6.13	67.56	16.40		150.0	
		Z	6.01	67.63	16.48		150.0	
10557- AAB	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	6.10	67.85	16.65	0.00	150.0	± 9.6 %
		Y	6.11	67.51	16.40	- ·	150.0	
		Z	5.97	67.50	16.43		150.0	
	· · · · · · · · · · · · · · · · · · ·		0.01	1 01.00	1. 10.40	1	100.0	

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	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	×	6.16	68.03	16.76	0.00	150.0	± 9.6 %
		Υ	6.17	67.70	16.50		150.0	┾───
		z	6.01				150.0	
10560-	IEEE 802.11ac WiFi (160MHz, MCS6,			67.66	16.53		150.0	L
AAB	99pc duty cycle)	X	6.15	67.86	16.71	0.00	150.0	± 9.6 %
		Y	6.16	67.52	16.45		150.0	
		Z	6.00	67.50	16.49	Î	150.0	
10561- AAB	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	6.06	67.83	16.73	0.00	150.0	± 9.6 %
		Y	6.07	67.48	16.47		150.0	
		Z	5.94	67.50	16.52		150.0	<u> </u>
10562- AAB	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.21	68.28	16.96	0.00	150.0	± 9.6 %
		Y	6.23	67.97	16.72		150.0	
		Z	6.03	67.79	16.67		150.0	<u> </u>
10563- AAB	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.55	68.85	17.19	0.00	150.0	± 9.6 %
		Y	6.59	68.58	16.96		150.0	<u> </u>
		Ż	6.12	67.71	16.59		150.0	<u> </u>
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	×	4.99	67.50	16.82	0.46	150.0	± 9.6 %
		Y	5.01	67.06	16.50		150.0	<u> </u>
		Ż	4.85	67.32	16.61		150.0	<u> </u>
10565-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	5.24	67.95	17.13	0.40		
AAA	OFDM, 12 Mbps, 99pc duty cycle)	Ŷ	5.24	67.54	16.83	0.46	150.0	± 9.6 %
							150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	Z X	5.06 5.07	67.72 67.84	16.90 16.98	0.46	<u>150.0</u> 150.0	± 9.6 %
		Y	5.10	67.41	16.66		150 0	<u> </u>
		z z	4.90				150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	$\frac{z}{x}$	<u>4.90</u> 5.11	67.58 68.24	16.73 17.33	0.46	150.0 150.0	± 9.6 %
		ŤΥ	5.13	67.80	47.04		450 0	
	··	† <mark>'</mark>	4.93		17.01		150.0	
10568-	IEEE 802.11g WiFi 2.4 GHz (DSSS-			67.94	17.07		150.0	
<u>AAA</u>	OFDM, 36 Mbps, 99pc duty cycle)	X	4.99	67.61	16.75	0.46	150.0	±9.6 %
		Y	5.01	67.15	16.42		150.0	
		Ζ	4.83	67.42	16.55		150.0	
10569- ** AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	5.06	68.33	17.39	0.46	150.0	± 9.6 %
		Y	5.07	67.85	17.05		150.0	
		Z	4.91	68.11	17.17		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	5.09	68.14	17.31	0.46	150.0	± 9.6 %
		Y	5.11	67.68	16.98	-	150.0	
		Z	4.92	67.93	17.09		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.50	68.95	18.38	0.46	130.0	±9.6 %
		Y	1.40	66.38	16.51		130.0	
		Z	1.40	67.23	17.09		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.55	69.98	18.93	0.46	130.0	± 9.6 %
		Y	1.43	67.06	16.91		130.0	
		Z	1.44	67.99	17.53		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	100.00	153.35	41.94	0.46	130.0	± 9.6 %
		Y	5.15	96.81	26.53		130.0	
		Z	50.11	136.49	37.17		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	2.59	83.81	24,92	0.46	130.0	± 9.6 %
	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X Y	1.75	74.27	24.92	0.40	130.0	± 9.6 %

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10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.81	67.37	16.92	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)							_ 0.0 /0
		Y	4.84	66.96	16.62		130.0	
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	ZX	4.68	67.23	16.73	0.40	130.0	
AAA	OFDM, 9 Mbps, 90pc duty cycle)		4.84	67.54	16.99	0.46	130.0	± 9.6 %
		Y	4.86	67.12	16.68		130.0	
10577-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z X	<u>4.71</u> 5.05	67.40	16.79	0.40	130.0	
AAA	OFDM, 12 Mbps, 90pc duty cycle)	Y Y	5.09	67.83	17.14	0.46	130.0	± 9.6 %
		Z	4.89	67.44 67.64	16.86 16.94		130.0 130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.96	68.04	17.27	0.46	130.0	±9.6 %
		Y	4.99	67.62	16.97		130.0	
		Z	4.79	67.80	17.04		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.73	67.38	16.62	0.46	130.0	±9.6 %
		Y	4.76	66.96	16.31		130.0	
40500		Z	4.57	67.14	16.40		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	X	4.77	67.37	16.62	0.46	130.0	± 9.6 %
		Y	4.80	66.94	16.31		130.0	
10581-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.61	67.21	16.43		130.0	
AAA	OFDM, 48 Mbps, 90pc duty cycle)	X	4.86	68.14	17.25	0.46	130.0	± 9.6 %
		Y	4.89	67.70	16.92		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	Z X	4.70	67.90 67.12	17. <u>02</u> 16.41	0.46	130.0 130.0	±9.6 %
	, <u></u> ,,,,,_	Y	4.71	66.71	16.10		130.0	
		Z	4.51	66.92	16.20		130.0	
10583- AAA_	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.81	67.37	16.92	0.46	130.0	± 9.6 %
		Y	4.84	66.96	16.62		130.0	
		Z	4.68	67.23	_ 16.73		130.0	
10584- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.84	67.54	16.99	0.46	130.0	±9.6 %
		Y	4.86	67.12	16.68		130.0	
		Z	4.71	67.40	16,79		130.0	
10585- AAA	HEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	5.05	67.83	17.14	0.46	130.0	± 9.6 %
		Y	5.09	67.44	16.86		130.0	
10586- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.89 4.96	67.64 68.04	16.94 17.27	0.46	130.0 130.0	± 9.6 %
		Y	4.99	67.62	16.97		130.0	
		z	4.79	67.80	17.04		130.0	
10587- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.73	67.38	16.62	0.46	130.0	± 9.6 %
		Y	4.76	66.96	16.31		130.0	
		Z	4.57	67.14	16.40		130.0	
10588- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.77	67.37	16.62	0.46	130.0	± 9.6 %
		Y	4.80	66.94	16.31	<u> </u>	130.0	
10589-		Z	4.61	67.21	16.43	0.10	130.0	
10589- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.86	68.14	17.25	0.46	130.0	± 9.6 %
		Y Z	<u>4.89</u> 4.70	67.70	16.92		130.0	·
		1 4 1	4.70	67.90	17.02		130.0	
10590-	IFEE 802 11a/b W/IE) 5 GHz (OEDM 54				16 / 4	0.40	420.0	+000
10590- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X Y	4.67	67.12 66.71	16.41 16.10	0.46	130.0 130.0	±9.6 %

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10591- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.95	67.39	16.99	0.46	130.0	± 9.6 %
		Y	4.98	67.01	16.71		130.0	<u> </u>
		Z .	4.83	67.26	16.81		130.0	
10592- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	5.12	67.74	17.12	0.46	130.0	± 9.6 %
		Y	5.15	67.35	16.84		130.0	<u> </u>
		Z	4.97	67.58	16.94		130.0	<u> </u>
1059 3- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	5.04	67.68	17.02	0.46	130.0	± 9.6 %
		Y	5.08	67.30	16.74		130.0	<u> </u>
		Z	4.89	67.49	16.82		130.0	<u> </u>
10594- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	5.10	67.84	17.17	0.46	130.0	± 9.6 %
		Y	5.14	67.45	16.88		130.0	·
		Z	4.94	67.65	16.97		130.0	
10595- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	5.07	67.81	17.07	0.46	130.0	± 9.6 %
		Ý	5.11	67.42	16.78		130.0	
		Z	4.91	67.63	16.88		130.0	T
10596- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	5.01	67.82	17.09	0.46	130.0	± 9.6 %
		Y	5.05	67.42	16.79		130.0	<u> </u>
		Z	4.85	67.64	16.90		130.0	r
10597- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.96	67.75	16.98	0.46	130.0	± 9.6 %
		Y	5.00	67.35	16.69		130.0	
		Z	4.80	67.53	16.77		130.0	<u> </u>
10598- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	Х	4.95	68.01	17.26	0.46	130.0	± 9.6 %
		Y	4.98	67.61	16.96		130.0	<u> </u>
		Z	4.78	67.73	17.01		130.0	<u> </u>
10599- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.60	67.86	17.12	0.46	130.0	± 9.6 %
		Y	5.66	67.61	16.91		130.0	
		Z	5.48	67.70	16.99		130.0	
10600- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.78	68.39	17.36	0.46	130.0	± 9.6 %
		Y	5.85	68.19	17.17		130.0	
		Z	5.62	68.16	17.20		130.0	
10601- 🥍 AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.65	68.09	17.22	0.46	130.0	± 9.6 %
		Y	5.71	67.83	17.01		130.0	
		Z	5.51	67.89	17.08		130.0	
10602- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.73	68.07	17.13	0.46	130.0	±9.6 %
	<u> </u>	Y	5.79	67.82	16.93		130.0	
10603-		Z	5.63	68.04	17.07		130.0	
AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.82	68.41	17.43	0.46	130.0	±9.6 %
	·	Y	5.87	68.11	17.19		130.0	
10604-		<u>Z</u>	5.69	68.27	17.32		130.0	
AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.61	67.82	17.13	0.46	130.0	±9.6 %
		Y	5.66	67.56	16.91		130.0	
10605- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	Z X	<u>5.56</u> 5.73	<u>67.91</u> 68.17	17.12 17.30	0.46	<u>130.0</u> 130.0	± 9.6 %
		Y	5.77	67 07	17.07		400 -	
			5.62	67.87	17.07		130.0	
10606-	IEEE 802.11n (HT Mixed, 40MHz,	- <u> 2</u> X		68.08	17.21		130.0	
AAA	MCS7, 90pc duty cycle)	Y	5.50	67.62	16.90	0.46	130.0	±9.6 %
		- <u>Y</u>	5.53	67.31	16.65		130.0	
			5.35	67.34	16.70		130.0	

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10607- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.80	66.75	16.64	0.46	130.0	± 9.6 %
		Y	4.81	66.30	16.32		130.0	<u> </u>
		Z	4.67	66.60	16.45		130.0	
10608- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	5.00	67.18	16.81	0.46	130.0	± 9.6 %
		Y	5.02	66.72	16.48		130.0	
		Z	4.84	66.98	16.61		130.0	
10609- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.89	67.06	16.67	0.46	130.0	± 9.6 %
		Y	4.91	66.60	16.34		130.0	
(0010		Z	4.73	66.84	16.45		130.0	
10610- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.94	67.21	16.82	0.46	130.0	± 9.6 %
		- Y	4.96	66.76	16.50		130.0	
10611-		Z	4.78	66.99	16.61		130.0	
	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.86	67.03	16.68	0.46	130.0	± 9.6 %
		Y	4.89	66.59	16.36		130.0	
10610		Z	4.70	66.81	16.46	_	130.0	
10612- AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.88	67.21	16.74	0.46	130.0	±9.6 %
		- Y	4.90	66.74	16.40		130.0	
10613-	IEEE 802.11ac WiFi (20MHz, MCS6,	Z	4.71	66.99	16.53	0.10	130.0	
AAA	90pc duty cycle)	_ X	4.89	67.11	16.63	0.46	130.0	±9.6 %
		Y	4.91	66.65	16.30		130.0	
10614-	IEEE 802.11ac WiFi (20MHz, MCS7,	Z X	4.71	66.83	16.39	0.40	130.0	
AAA	90pc duty cycle)		4.83	67.31	16.87	0.46	130.0	±9.6 %
		Y	4.85	66.84	16.53		130.0	
10615-	IEEE 802.11ac WiFi (20MHz, MCS8,	Z	4.66	67.02	16.61		130.0	
AAA	90pc duty cycle)	X	4.86	66.85	16.46	0.46	130.0	±9.6 %
		Ý	4.89	66.40	16.13		130.0	
10616- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	Z X	<u>4.70</u> 5.44	66.67 67.18	16.26 16.77	0.46	130.0 130.0	± 9.6 %
////		+ Y	5.47	66.84	16.51		120.0	
		Z	5.30	66.94	16.51		130.0	
10617- AAA	JEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.50	67.33	16.81	0.46	130.0 130.0	±9.6 %
		Y	5.52	66.94	16.53		130.0	
	· _	Z	5.38	67.17	16.68		130.0	
10618- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.40	67.39	16.87	0.46	130.0	± 9.6 %
		Y	5.42	67.02	16.59		130.0	
		Z	5.27	<u>67</u> .18	16.70		130.0	
10619- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.42	67.21	16.71	0.46	130.0	±9.6 %
		Y	5.44	66.85	16.44		130.0	
		Z	5.28	66.96	16.53		130.0	
10620- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	×	5.51	67.25	16.78	0.46	130.0	±9.6 %
		Y	5.56	66.94	16.53		130.0	
1000		Z	5.36	66.98	16.59		130.0	
10621- AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.50	67.33	16.93	0.46	130.0	±9.6 %
		Y	5.53	67.00	16.68		130.0	
		Z	5.36	67.10	16.76		130.0	
10622- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	×	5.51	67.50	17.01	0.46	130.0	±9.6 %
		Y	5.53	67.13	<u>16.73</u>		130.0	
		Z	5.38	67.30	16.85		130.0	

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10623- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.39	67.03	16.66	0.46	130.0	± 9.6 %
		Y -	5.41	66.69	16.40	<u> </u>	130.0	†
		Z	5.25	66.80	16.48	<u> </u>	130.0	<u> </u>
10624- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	x	5.58	67.21	16.80	0.46	130.0	± 9.6 %
		Y	5.61	66.88	16.56		130.0	·
		Z	5.44	66.99	16.64		130.0	+
10625- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	x	5.99	68.31	17.39	0.46	130.0	± 9.6 %
		Y	6.04	68.02	17.17		130.0	
		Z	5.71	67.69	17.04		130.0	<u> </u>
10626- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.71	67.19	16.69	0.46	130.0	± 9.6 %
		Y	5.72	66.86	16.44		130.0	
		Z	5.61	66.97	16.54		130.0	
10627- AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	×	5.96	67.77	16.93	0.46	130.0	± 9.6 %
		Y	5.99	67.46	16.69		130.0	
400000		Z	5.86	67.59	16.81		130.0	
10628- AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.76	67.34	16.66	0.46	130.0	± 9.6 %
		Y	5.79	67.03	16.42		130.0	
40000		Z	5.63	67.03	16.47		130.0	
10629- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	×	5.85	67.42	16.69	0.46	130.0	± 9.6 %
		Y	5.87	67.09	16.44		130.0	
40000		Z	5.71	67.12	<u>16</u> .51		130.0	
10630- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	×	6.37	69.15	17.55	0.46	130.0	±9.6 %
		Y	<u>6.4</u> 8	69.04	17.41		130.0	
		Z	6.10	68.51	17.21		130.0	
10631- AAA	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.23	68.84	17.58	0.46	130.0	± 9.6 %
		Y	6.30	68.64	17.40		130.0	
40000		Z	6.00	68.26	17.26		130.0	
10632- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.93	67.81	17.09	0.46	130.0	± 9.6 %
		Y	5.96	67.50	16.85		130.0	
10000		Z	5.82	67.64	16.97		130.0	
10633- * AAA	iEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.83	67.50	16.76	0.46	130.0	± 9.6 %
		Y	5.88	67.25	16.56		130.0	
10004		Z	5.69	67.21	16.59		130.0	
10634- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.81	67.52	16.84	0.46	130.0	±9.6 %
		Y	5.85	67.23	16.61		130.0	
10625		Z	5.67	67.21	16.64		130.0	
10635- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.70	66.87	16.25	0.46	130.0	± 9.6 %
		Y	5.74	66.58	16.02		130.0	<u> </u>
10626		Z	5.55	66.58	16.07		130.0	
10636- AAB	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.12	67.55	16.76	0.46	130.0	± 9.6 %
		Y	6.14	67.26	16.54		130.0	
10637-		Z	6.03	67.32	16.61		130.0	
AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.28	67.94	16.93	0.46	130.0	±9.6 %
		Y	6.31	67.65	16.72		130.0	
10638-		Z	6.19	67.72	16.79		130.0	
AAB	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.28	67.91	16.90	0.46	130.0	± 9.6 %
		Y Z	6.31	67.62	16.68		130.0	
			6.18	67.68	16.75			

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10639-	IEEE 802.11ac WiFi (160MHz, MCS3,	X	6.27	67.88	16.93	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)					0.10		= 0.0 /0
		Υ	6.30	67.62	16.73		130.0	
		Z	6.15	67.59	16.75		130.0	
10640- AAB	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.29	67.93	16.90	0.46	130.0	± 9.6 %
		Y	6.33	67.70	16.71		130.0	
		Z	6.15	67.62	16.71		130.0	
10641- AAB	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.30	67.74	16.81	0.46	130.0	±9.6 %
		Y	6.32	67.44	16.59		130.0	
		Z	6.22	67.59	16.72		130.0	
10642- AAB	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty_cycle)	X	6.36	68.03	17.13	0.46	130.0	± 9.6 %
		Y	6.39	67.76	16.92	-	130.0	
		Z	6.23	67.75	16.95		130.0	
10643- AAB	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.19	67.72	16.88	0.46	130.0	± 9.6 %
		Y	6.22	67.45	16.67		130.0	
		Z	6.09	67.50	16.74		130.0	
10644- AAB	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.39	68.34	17.21	0.46	130.0	± 9.6 %
		Y	6.45	68.14	17.04		130.0	
		Z	6.20	67.86	16.93		130.0	
10645- AAB	IEEE 802.11ac WIFi (160MHz, MCS9, 90pc duty cycle)	X	6.86	69.27	17.61	0.46	130.0	± 9.6 %
		Y	6.87	68.89	17.35		130.0	
		Z	6.34	<u>67.9</u> 3	16.93		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	58.91	128.47	41.72	9.30	60.0	± 9.6 %
		Y	22.23	103.66	34.19		60.0	
		Z	97.77	144.05	46.65		60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	62.96	130.94	42.54	9.30	60.0	± 9.6 %
		Y	22.84	105.02	34.74		60.0	
		Z	100.00	145.78	47.28		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	1.21	71.90	15.83	0.00	150.0	± 9.6 %
		Y	0.81	64.89	12.16		150.0	
		Z	0.74	65.22	11.47		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	4.72	70.40	18.28	2.23	80.0	± 9.6 %
		Y	4.59	69.04	17.59		80.0	
		Z	4.50	69.96	17.82		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	5.05	69.01	18.05	2.23	80.0	± 9.6 %
		Y	5.03	68.18	17.58		80.0	
		Z	4.88	68.67	17.76		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.97	68.58	18.01	2.23	80.0	± 9.6 %
		Y	4.96	67.84	17.57		80.0	
		Z	4.83	68.24	17.75		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	5.02	68.56	18.04	2.23	80.0	± 9.6 %
		Y	5.02	67.86	17.60		80.0	
		Z	4,89	68.17	17.77		80.0	

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

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





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Client PC Test

Certificate No: ES3-3319_Mar18

CALIBRATION CERTIFICATE

Object	ES3DV3 - SN:3319
Calibration procedure(s)	QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes
Calibration date:	March 13, 2018
	uments the traceability to national standards, which realize the physical units of measurements (SI). Incertainties with confidence probability are given on the following pages and are part of the certificate.
All calibrations have been cor	ducted 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-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02525)	Apr-18
Reference 20 dB Attenuator	SN: S5277 (20x)	07-Apr-17 (No. 217-02528)	Apr-18
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-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:	Jeton Kastrati	Laboratory Technician	-1-10
			e ge
Approved by:	Katja Pokovic	Technical Manager	alite
			10000
			Issued: March 15, 2018

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

Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization 9	9 rotation around an axis that is in the plane normal to probe axis (at measurement center),
	i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

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

Probe ES3DV3

SN:3319

Manufactured: Calibrated: January 10, 2012 March 13, 2018

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	1.08	1.05	1.12	± 10.1 %
DCP (mV) ^B	104.0	103.0	104.0	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	197.9	±3.8 %
		Y	0.0	0.0	1.0		198.2	
		Z	0.0	0.0	1.0		200.6	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1	C2	α	T1	T2	Т3	T4	T5	T6
	fF	fF	V ⁻¹	ms.V⁻²	ms.V ^{~1}	ms	V⁻²	V ⁻¹	
Х	60.52	430.8	35.08	29.64	3.011	5.10	0.615	0.538	1.010
Y	55.79	400.8	35.48	29.01	2.492	5.10	0.600	0.518	1.009
Z	63.98	455.3	34.93	29.72	3.442	5.10	0.679	0.571	1.011

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

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

^B Numerical linearization parameter: uncertainty not required. ^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	6.70	6.70	6.70	0.80	1.21	± 12.0 %
835	41.5	0.90	6.44	6.44	6.44	0.80	1.17	± 12.0 %
1750	40.1	1.37	5.49	5.49	5.49	0.65	1.43	± 12.0 %
1900	40.0	1.40	5.29	5.29	5.29	0.76	1.30	± 12.0 %
2300	39.5	1.67	5.06	5.06	5.06	0.72	1.29	± 12.0 %
2450	39.2	1.80	4.71	4.71	4.71	0.77	1.30	± 12.0 %
2600	39.0	1.96	4.55	4.55	4.55	0.80	1.31	± 12.0 %

Calibration Parameter Determined in Head Tissue Simulating Media

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

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

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

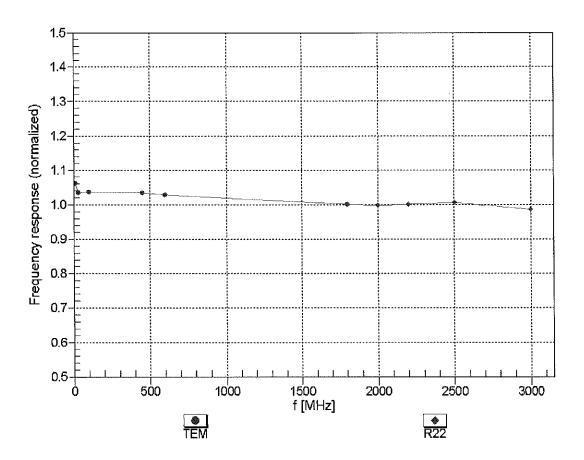
			-					
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	6.32	6.32	6.32	0.65	1.26	± 12.0 %
835	55.2	0.97	6.20	6.20	6.20	0.80	1.14	± 12.0 %
1750	53.4	1.49	5.05	5.05	5.05	0.76	1.27	± 12.0 %
1900	53.3	1.52	4.84	4.84	4.84	0.55	1.56	± 12.0 %
2300	52.9	1.81	4.63	4.63	4.63	0.80	1.30	± 12.0 %
2450	52.7	1.95	4.51	4.51	4.51	0.80	1.25	± 12.0 %
2600	52.5	2.16	4.33	4.33	4.33	0.80	1.20	± 12.0 %

Calibration Parameter Determined in Body Tissue Simulating Media

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

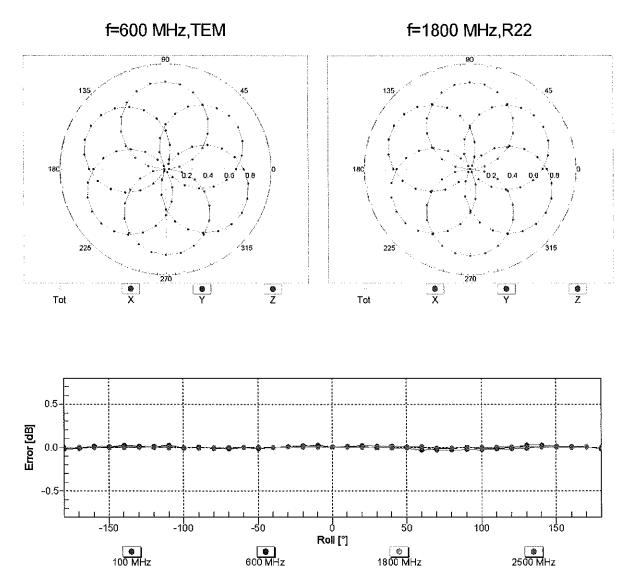
^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to \pm 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to \pm 5%. The uncertainty is the RSS of the ConvF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

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



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

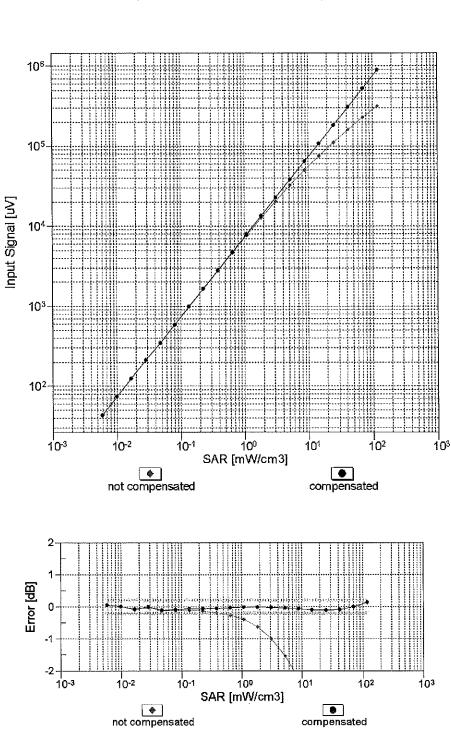
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)



Receiving Pattern (φ), θ = 0°

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

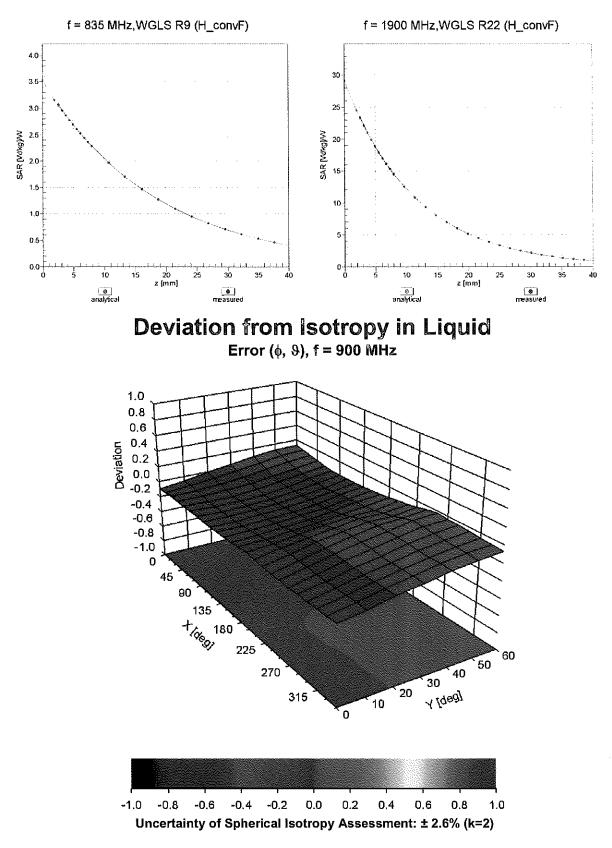
March 13, 2018



Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)

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

.



Conversion Factor Assessment

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	60.4
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max Unc ^E (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	197.9	± 3.8 %
		Y	0.00	0.00	1.00		198.2	·····
10010-	SAR Validation (Square, 100ms, 10ms)	Z X	0.00 9.56	0.00 81.28	1.00	10.00	200.6	
CAA	Office validation (oquare, rooms, roms)		9.00	01.20	19.98	10.00	25.0	± 9.6 %
		Y	8.09	78.70	18.35		25.0	
		Z	8.70	79.52	19.57		25.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.34	72.37	18.08	0.00	150.0	± 9.6 %
		Y	0.99	67.12	14.82		150.0	
10012-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	Z X	1.12 1.37	68.87 66.58	16.00 17.00	0,41	150.0 150.0	± 9.6 %
CAB	Mbps)		1.01	00.50	17.00	0,41	100.0	1 9.0 %
·		Y	1.25	64.92	15.59		150.0	
		Z	1.32	65.58	16.11		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	5.18	67.48	17.64	1.46	150.0	±9.6 %
		<u>Y</u>	5.08	67.20	17.36		150.0	
10021-	GSM-FDD (TDMA, GMSK)	Z X	5.20 20.40	67.32	17.47	0.00	150.0	
DAC		^ Y	20.40	95.52 101.11	26.57 27.60	9.39	50.0	± 9.6 %
		Z	14.66	89.52	24.83		50.0 50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	18.37	93.61	26.02	9.57	50.0	± 9.6 %
		Y	24.41	97.95	26.72		50.0	
		Z	13.84	88.39	24.49		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	119.56	31.31	6.56	60.0	± 9.6 %
		Y	100.00	117.39	29.93		60.0	
10025-		Z	47.21	108.31	28.71	10.55	60.0	
DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X Y	21.09 17.11	108.48	41.18 38.82	12.57	50.0 50.0	± 9.6 %
		Z	18.44	102.80	38.97		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	21.59	105.09	36.25	9.56	60.0	±9.6 %
		Y	18.95	102.20	35.03		60.0	
		Z	18.49	100.22	34.38		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	118.49	29.83	4.80	80.0	± 9.6 %
		<u> Y</u>	100.00	115.83	28.28		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	Z X	100.00 100.00	118.30 118.84	29.89 29.14	3.55	80.0 100.0	± 9.6 %
2/10		Y	100.00	115.36	27.25		100.0	
		z	100.00	118.10	28.92		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	15.08	97.16	32.49	7.80	80.0	± 9.6 %
		Y	12.90	93.80	31.06		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Z X	13.60 100.00	93.82 118.11	31.09 30.01	5.30	80.0 70.0	± 9.6 %
		Y	100.00	115.58	28.50		70.0	
		Z	100.00	118.16	30.20		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	121.01	28.44	1.88	100.0	± 9.6 %
		Y	100.00	114.03	25.11		100.0	
		Z	100.00	118.73	27.54		100.0	

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	100.00	127.26	29.88	1.17	100.0	± 9.6 %
		Y	100.00	114.89	24.38		100.0	
		Ż	100.00	122.11	27.79		100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Х	21.21	99.84	27.91	5.30	70.0	± 9.6 %
		Y	19.09	97.43	26.61		70.0	
		Ζ	13.98	92.26	25.56		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Х	14.93	98.23	25.94	1.88	100.0	± 9.6 %
		Y	7.46	86.71	21.62		100.0	
		Ζ	7.45	87.10	22.42		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	7.98	90,77	23.49	1.17	100.0	±9.6 %
		Y	3.97	79.58	18.90		100.0	
10000		Ζ	4.48	81.52	20.27		100.0	
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	26,12	103.52	29.04	5.30	70.0	± 9.6 %
		Y	24.16	101.42	27.84		70.0	
40007		Z	15.99	94.67	26.38	4.00	70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	14.25	97.55	25.70	1.88	100.0	± 9.6 %
		Y	7.04	85.92	21.32		100.0	
40000		Z	7.24	86.72	22.25		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	8.53	92.07	23.99	1.17	100.0	± 9.6 %
		Y	4.13	80.37	19.27		100.0	
10000		Z	4.65	82.31	20.62		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	X	2.96	79.09	19.43	0.00	150.0	± 9.6 %
		Y	1.75	71.10	15.36		150.0	
		Z	2.10	73.23	16.92		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	53.77	109.05	28.70	7.78	50.0	± 9.6 %
		Y	79.10	112.95	28.86		50.0	
		Z	23.46	96.42	25.41		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	123.18	1.26	0.00	150.0	± 9.6 %
		Y	0.02	127.84	0.07		150.0	
1		Z	0.00	110.77	4.52		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	11.41	83.11	24.20	13.80	25.0	± 9.6 %
		Y	12.66	85.48	24.49		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	10.45 13.41	80.79 87.55	23.56 24.40	10.79	25.0 40.0	± 9.6 %
		Y	15.25	89.77	24.55		40.0	ł
		Ż	11.61	84.53	23.55		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	13.37	87.98	25.03	9.03	50.0	± 9.6 %
		Y	13.72	88.51	24.74		50.0	
		Z	11.72	85.02	24.05		50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	11.14	91,28	29.72	6.55	100.0	± 9,6 %
		Y	9.52	87.98	28.26		100.0	
		Z	10.41	88.91	28.62		100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.60	69.38	18.31	0.61	110.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	1.43	67.15	16.67		110.0	
		Z	1.53	67.97	17.25		110.0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	133.15	34.60	1.30	110.0	± 9.6 %
		Y	100.00	128.63	32.36	1	110.0	1
		Z	100.00	130.16	33.31		110.0	1

10061- CAB	IEEE 802.11b WIFi 2.4 GHz (DSSS, 11 Mbps)	X	24.68	111.64	31.63	2.04	110.0	± 9.6 %
	E-1	Y	11.26	97.49	27.04		110.0	
	· · · · · · · · · · · · · · · · · · ·	Z	10.95	96.57	26.98		110.0	
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	Х	4.90	67.24	16.94	0.49	100.0	± 9.6 %
		Y	4.79	66.94	16.63		100.0	
40000		Z	4.90	67.05	16.74		100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.95	67.42	17.09	0.72	100.0	± 9.6 %
		Y	4.84	67.10	16.77		100.0	
10064-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12	Z X	4.95	67.23	16.89	0.00	100.0	
CAC	Mbps)	Y	5.28	67.75	17.35	0.86	100.0	± 9.6 %
		Z	5.30	67.43 67.59	17.04 17.17		100.0 100.0	
10065-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18	X	5.19	67.81	17.53	1.21	100.0	± 9.6 %
CAC	Mbps)	Y	5.07	67.47	17.22	1.21	100.0	19.0 %
	·····	z	5.21	67.65	17.35		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.25	67.95	17.76	1.46	100.0	± 9.6 %
		Y	5.12	67.61	17.44	[100.0	
		Z	5.27	67.80	17.59		100.0	·
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	Х	5.57	68.10	18.21	2.04	100.0	± 9.6 %
		Υ	5.44	67.80	17.92		100.0	
		Z	5.60	67.97	18.05		100.0	
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	Х	5.73	68.50	18.60	2.55	100.0	± 9.6 %
		Y	5.58	68.13	18.28		100.0	
40000		Z	5.77	68.41	18.46		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.81	68.43	18.78	2.67	100.0	±9.6 %
		Y	5.66	68.09	18.46		100.0	
40074		Z	5.84	68.33	18.64		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.34	67.73	18.04	1.99	100.0	± 9.6 %
		Y	5.22	67.44	17.75		100.0	
10072-		Z	5.35	67.60	17.87		100.0	
CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	5.42	68.35	18.39	2.30	100.0	± 9.6 %
		Y	5.29	68.00	18.07		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.44 5.57	68.21 68.74	18.22 18.83	2.83	100.0	± 9.6 %
		Y	5.42	68.36	18.50		100.0	
		Z	5.60	68.62	18.66		100.0	
10074- САВ	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.61	68.84	19.10	3.30	100.0	± 9.6 %
		Y	5.46	68.44	18.75		100.0	
		Ζ	5.65	68.74	18.95		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.79	69.40	19.63	3.82	90.0	±9.6 %
		Y	5.61	68.91	19.24		90.0	
40070		Z	5.85	69.35	19.51		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.80	69.20	19.75	4.15	90.0	± 9.6 %
		Y	5.64	68.73	19.37		90.0	1
40077		Z	5.86	69.15	19.63		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.84	69.30	19.86	4.30	90.0	± 9.6 %
		Y	5.68	68.82	19.47		90.0	
		Z	5.90	69.25	19.74	L	90.0	

10081- CAB	CDMA2000 (1xRTT, RC3)	X	1.29	72.14	16.36	0.00	150.0	±9.6 %
		Y	0.81	65,51	12.24		150.0	
		Ż	0.99	67.68	14.05		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	2.36	64.73	9.48	4.77	80.0	± 9.6 %
		Y	1.97	63.15	8.18		80.0	
		Z	2.45	64.78	9.67		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	×	100.00	119.65	31.37	6.56	60.0	± 9.6 %
		Y	100.00	117.49	29.99		60.0	
40007		Z	45.52	107.81	28.61		60.0	
10097- CAB	UMTS-FDD (HSDPA)	X	2.00	69.44	16.95	0.00	150.0	± 9.6 %
•••		Y	1.78	67.32	15.42		150.0	
10098-		Z X	1.87	67.93	15.97	0.00	150.0	
CAB	UMTS-FDD (HSUPA, Subtest 2)		1.97	69.46	16,95	0.00	150.0	± 9.6 %
		Y	1.74	67.28	15.38		150.0	
10099-	EDGE-FDD (TDMA, 8PSK, TN 0-4)	Z X	1.84 21.45	67.91	15.95	0.50	150.0	+0.0.0/
DAC	EDGE-FDD (TDIWA, OPSK, TN 0-4)			104.88	36.18	9.56	60.0	± 9.6 %
		Y Z	18.89	102.07	34.98		60.0	
10100-	LTE-FDD (SC-FDMA, 100% RB, 20		18.39	100.05	34.32	0.00	60.0	
CAD	MHz, QPSK)	X	3.55	72.46	17.74	0.00	150.0	± 9.6 %
····		Y	3.14	70.29	16.48		150.0	
40404		Z	3.35	71.19	16.95		150.0	
10101- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.45	68.62	16.57	0.00	150.0	± 9.6 %
		Y	3.26	67.61	15.85		150.0	
40400		Z	3.39	68.08	16.14		150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	×	3.54	68.46	16.61	0.00	150.0	± 9.6 %
		Y	3.37	67.56	15.95		150.0	
10100		Z	3.49	67.97	16.20		150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	8.98	78.82	21.57	3.98	65.0	± 9.6 %
		Y	8.50	78.15	21.17		65.0	·
		Z	8.60	77.58	20.95		65.0	
10104- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	8.85	77.44	21.89	3.98	65.0	± 9.6 %
		Y	8.45	76.83	21.49		65.0	
10105		Z	8.72	76.72	21.48		65.0	
10105- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	8.33	76.23	21.66	3.98	65.0	± 9.6 %
		Y	7.79	75.22	21.09		65.0	l
40400		Z	7.71	74.28	20.69		65.0	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	×	3.11	71.64	17.59	0.00	150.0	± 9.6 %
		Y	2.75	69.54	16.32		150.0	
40400		Z	2.95	70.37	16.78		150.0	
10109- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.12	68.50	16.56	0.00	150.0	± 9.6 %
		Y	2.92	67.41	15.75		150.0	
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Z X	3.06 2.56	67.87 70.84	16.07 17.38	0.00	150.0 150.0	± 9.6 %
		Y	2.04	60.04	15.04		450.0	
			2.24	68.61	15.94		150.0	
10111-	LTE-FDD (SC-FDMA, 100% RB, 5 MHz,	Z	2.42 2.84	69.44	16.48	0.00	150.0	+0.0.00
CAE	16-QAM)			69.29	16.96	0.00	150.0	± 9.6 %
		Υ Υ	2.62	68.02	15.99		150.0	
		Z	2.75	68.36	16.33		150.0	

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.23	68.35	16.55	0.00	150.0	±9.6 %
		Y	3.05	67.38	15.81		150.0	
		Z	3.18	67.77	16.10		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.98	69.28	17.01	0.00	150.0	± 9.6 %
·····		Y	2.77	68.14	16.13		150.0	1
		Z	2.90	68.40	16.43		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.25	67.55	16.67	0.00	150.0	± 9.6 %
	·····	Y	5.16	67.27	16.41		150.0	
40445		Ζ	5.23	67.36	16.47		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.62	67.87	16.84	0.00	150.0	± 9.6 %
		Y	5.53	67.61	16.59		150.0	
40440		Z	5.61	67.68	16.64		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.38	67.84	16.74	0.00	150.0	± 9.6 %
		Υ	5.28	67.54	16.47		150.0	
40447		Z	5.37	67.64	16.53		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	×	5.26	67.57	16.70	0.00	150.0	± 9.6 %
		Y	5.15	67.22	16.40		150.0	I
40440		Z	5.24	67.39	16.51		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16- QAM)	X	5.70	68.05	16.94	0.00	150.0	± 9.6 %
		Y	5.61	67.82	16.70		150.0	
40440		Z	5.67	67.81	16.71		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64- QAM)	X	5.36	67.79	16.73	0.00	150.0	± 9.6 %
		Y	5.26	67.48	16.45		150.0	
10/10		Z	5.34	67.59	16.52		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.59	68.46	16.53	0.00	150.0	± 9.6 %
		Y	3.41	67.56	15.87		150.0	
		Z	3.54	67.97	16.13		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.70	68.46	16.65	0.00	150.0	± 9.6 %
		Y	3.53	67.64	16.03		150.0	
		Ζ	3.65	67.99	16.26		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.36	71.08	17.31	0.00	150.0	± 9.6 %
	······	Y	2.01	68.49	15.62		150.0	
		Z	2.20	69.37	16.30		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	2.76	70.34	17.00	0.00	150.0	± 9.6 %
		Y	2.47	68.62	15.73		150.0	
		Ζ	2.62	69.02	16.23		150.0	
10144- _CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	×	2.54	68.16	15.50	0.00	150.0	± 9.6 %
		Υ	2.28	66.60	14.27		150.0	
		Z	2.46	67.23	14.93		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	1.75	69.86	15.18	0.00	150.0	± 9.6 %
		Y	1.29	65.55	12.27		150.0	
		Ζ	1.55	67.61	14.05		150.0	
10146- _CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	4.07	76.05	17.30	0.00	150.0	± 9.6 %
		Y	2.52	69.20	13.62		150.0	
		Ζ	3.50	73.50	16.33		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	5.72	80.95	19.32	0.00	150.0	± 9.6 %
		Y	3.13	72.10	15.05		150.0	
		Z	4.43	76.91	17.88		150.0	

10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	3.13	68.56	16.60	0.00	150.0	± 9.6 %
		Y	2.93	67.47	15.80		150.0	
		Z	3.07	67.93	16.12		150.0	
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.24	68.40	16.59	0.00	150.0	± 9.6 %
		Y	3.05	67.43	15.85		150.0	
		Z	3.18	67.82	16.13		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	9.59	81.21	22.61	3.98	65.0	± 9.6 %
		Y	9.21	80.79	22.27		65.0	
		Z	9.05	79.62	21.87		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	8.53	77,77	21.82	3.98	65.0	± 9.6 %
		Y	8.07	77,03	21.32		65.0	
10150		Z	8.36	76.93	21.37		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	8.87	78.41	22.41	3.98	65.0	± 9.6 %
		Y	8.48	77.88	22.02		65.0	
1015		Z	8.68	77.54	21.94		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.63	71.34	17.67	0.00	150.0	± 9.6 %
		Y	2.29	69.04	16.21		150.0	
		Z	2.48	69.88	16.75		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.84	69.30	16.97	0.00	150.0	±9.6 %
		Y	2,62	68.03	16.00		150.0	
		Z	2.75	68.36	16.34		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	2.26	71.67	17.44	0.00	150.0	± 9.6 %
		Y	1.86	68.59	15.46		150.0	
		Z	2,07	69.64	16.29		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.42	69.16	15.83	0.00	150.0	± 9.6 %
		Y	2.11	67.12	14.31		150.0	
		Z	2.30	67.87	15.10		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.99	69.33	17.05	0.00	150.0	±9.6 %
		Y	2.78	68.20	16.17		150.0	
		Z	2.90	68.44	16.46		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.55	69.60	16.11	0,00	150.0	± 9.6 %
		Y	2.22	67.56	14.60		150.0	
		Z	2.41	68.28	15.37		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	3.02	70.16	17.19	0.00	150.0	±9.6 %
		Y	2.77	68.66	16.17		150.0	
		Z	2.91	69.14	16.50		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.13	68.32	16.54	0.00	150.0	±9.6 %
		Y	2.95	67.34	15.78		150.0	
		Z	3.07	67.70	16.08		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.23	68.35	16.60	0.00	150.0	± 9.6 %
		Y	3.06	67.45	15.88		150.0	
		Z	3.18	67.74	16.14		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	4.02	71.10	20.08	3.01	150.0	± 9.6 %
		Y	3.79	70.19	19.37		150.0	
		Z	4.03	70.69	19.72		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	5.24	74.71	20.79	3.01	150.0	± 9.6 %
		Y	4.82	73.39	19.92		150.0	
		Z	5.25	74.14	20.39	·····	150.0	

40400		·						
10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	5.76	76.76	21.96	3.01	150.0	± 9.6 %
		Y	5.36	75.66	21.24		150.0	·
		Z	5.73	75.99	21.47		150.0	······.
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.69	72,72	20.82	3.01	150.0	± 9.6 %
		Y	3.33	70.78	19.63		150.0	
		Z	3.78	72.61	20.53		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	5.76	80.54	23.62	3.01	150.0	± 9.6 %
		Y	4.94	77.74	22.22		150.0	
	·	Z	5.83	79.90	23.09		150.0	
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	4.61	75.69	20.76	3.01	150.0	± 9.6 %
		Y	3.94	72.92	19.25		150.0	
		Z	4.70	75.28	20.35		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	36.99	114.19	35.08	6.02	65.0	± 9.6 %
		Y	22.97	105.21	32.24		65.0	
		Z	26.68	106.36	32.56		65.0	·····
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	41.01	110.69	32.32	6.02	65.0	± 9.6 %
		Y	35.83	108.35	31.36		65.0	
		Z	28.00	102.66	29.85		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	30.73	104.07	29.95	6.02	65.0	±9.6 %
		Y	27.27	102.14	29.08		65.0	
		Z	22.20	97.35	27.81		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.64	72.35	20.56	3.01	150.0	± 9.6 %
		Y	3.28	70.42	19.36		150.0	
		Z	3.72	72.25	20.28		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	5,77	80.56	23.63	3.01	150.0	± 9.6 %
		Y	4.95	77.76	22.23		150.0	
		Z	5.84	79.92	23.10		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.67	72.53	20.66	3.01	150.0	± 9.6 %
		Y	3.31	70.60	19.46		150.0	
		Z	3.76	72.42	20.38		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	5.68	80,23	23.47	3.01	150.0	± 9.6 %
		Y	4.88	77.46	22.08		150.0	
		Z	5.74	79.60	22.95		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	x	5.14	77.96	22.04	3.01	150.0	± 9.6 %
		Y	4.38	75.13	20.57		150.0	
		Z	5.21	77.41	21.56	1	150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	4.59	75.59	20.70	3.01	150.0	± 9.6 %
		Y	3.92	72.83	19.19		150.0	
		Z	4.68	75.18	20.29		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	3.66	72.51	20.66	3.01	150.0	± 9.6 %
		Y	3.30	70.58	19.46		150.0	
		Z	3.75	72.41	20.37		150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	5.67	80.21	23.46	3.01	150.0	±9.6 %
		Υ	4.87	77.43	22.07		150.0	
		Z	5.73	79.57	22.94		150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	4.58	75.56	20.68	3.01	150.0	± 9.6 %
		Y	3.92	72.80	19,18		150.0	
		Ζ	4.67	75.15	20.27	i	150.0	

10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.68	72.56	20.68	3.01	150.0	± 9.6 %
		Y	3.32	70.63	19.48		150.0	··································
	Anna fannan an anna an anna an anna an anna an an	Z	3.77	72.45	20.39		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	5.70	80.29	23.50	3.01	150.0	± 9.6 %
		Y	4.90	77.51	22.11		150.0	
		Ζ	5.76	79.65	22.97		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	4.61	75.64	20.72	3.01	150.0	±9.6 %
		Y	3.94	72.88	19.21		150.0	
		Z	4.69	75.23	20.31		150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	х	3.69	72.61	20.73	3.01	150.0	± 9.6 %
		Y	3.33	70.68	19.54		150.0	
		Ζ	3.77	72.50	20.44		150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	х	5.93	81.11	23.91	3.01	150.0	± 9.6 %
		Y	5.09	78.33	22.53		150.0	
		Z	5.99	80.44	23.37		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	4.73	76.16	21.02	3.01	150.0	±9.6 %
		Y	4.04	73.37	19.51		150.0	
		Z	4.82	75.73	20.60		150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.67	66.99	16.47	0.00	150.0	± 9.6 %
	······································	Y	4.56	66,66	16.13	****	150.0	
		Ζ	4.66	66.78	16.26		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	Х	4.87	67.36	16.58	0.00	150.0	± 9.6 %
		Y	4.75	67.00	16.25		150.0	
	······································	Ζ	4.87	67.15	16.37	1	150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.91	67.37	16.59	0.00	150.0	± 9.6 %
	•	Y	4.79	67.03	16.27		150.0	
		Ζ	4.91	67.16	16.38		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	Х	4.69	67.10	16.51	0.00	150.0	± 9.6 %
		Υ	4.58	66.74	16.16		150.0	
		Z	4.69	66.88	16.30		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16- QAM)	X	4.89	67.38	16.59	0.00	150.0	± 9.6 %
		Y	4.77	67.03	16.26		150.0	
		Z	4.88	67.17	16.38		150.0	
10198- CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM)	X	4.92	67.39	16.60	0.00	150.0	±9.6 %
		Y	4.80	67.05	16.28		150.0	
		Z	4.91	67.18	16.39		150.0	
10219- CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.64	67.11	16.47	0.00	150.0	±9.6 %
		Y	4.53	66.75	16.12		150.0	
		Ζ	4.64	66.90	16.26		150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16- QAM)	×	4.88	67.37	16.59	0.00	150.0	± 9.6 %
		Y	4.76	67.01	16.26		150.0	
		Z	4,88	67.17	16.38		150.0	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-	X	4.92	67.32	16.59	0.00	150.0	± 9.6 %
	QAM)			1 00.00	40.07	1	150.0	1
		Y	4.80	66.98	16.27		100.0	
		Z	4.80 4.92	67.11	16.38		150.0	
10222- CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)					0.00		± 9.6 %
10222-	IEEE 802.11n (HT Mixed, 15 Mbps,	Z	4.92	67.11	16.38	0.00	150.0	± 9.6 %

10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16- QAM)	X	5.61	67.92	16.89	0.00	150.0	± 9.6 %
		Y	5.46	67.48	16.54		150.0	
		Z	5.61	67.78	16.72	· · · · · · · · · · · · · · · · · · ·	150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64- QAM)	x	5.28	67.68	16.67	0.00	150.0	± 9.6 %
		Y	5.17	67.32	16.37		150.0	
		Z	5.27	67.52	16.48		150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	2.96	66.82	16.01	0.00	150.0	±9.6%
		Y	2.82	66.09	15.31		150.0	
		Z	2.93	66.33	15.63		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	43.59	111.94	32.75	6.02	65.0	± 9.6 %
		Y	38.77	109.92	31.88		65.0	
40007		Z	29.30	103.58	30.20		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	32.72	105.33	30.40	6.02	65.0	± 9.6 %
		Y	30.31	104.10	29.73		65.0	
40000		Ζ	23.58	98.50	28.23		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	45.04	118.57	36.38	6.02	65.0	± 9.6 %
		Y	33.63	112.96	34.54		65.0	
10000		Z	30.07	109.15	33.47		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	×	40.99	110.67	32.33	6.02	65.0	± 9.6 %
		Y	35.91	108.38	31.38		65.0	
		Z	28.02	102.65	29.86		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	31.17	104.37	30.06	6.02	65.0	± 9.6 %
		Y	28.46	102.90	29.31		65.0	
		Ζ	22.72	97.78	27.95		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	42.43	117.25	35.96	6.02	65.0	± 9.6 %
		Y	31.37	111.47	34.05		65.0	
		Z	28.77	108.18	33.13		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	40.99	110.68	32.33	6.02	65.0	± 9.6 %
		Y	35.90	108.38	31.38		65.0	
		Z	28.01	102.65	29.86		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	31.21	104.41	30.07	6.02	65.0	±9.6 %
		Y	28.46	102.91	29.32		65.0	
		Z	22.74	97.80	27.96		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	39.80	115.77	35.45	6.02	65.0	±9.6 %
		Y	29.32	109.94	33.51		65.0	
		Z	27.42	107.07	32.71		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	41.16	110.77	32.35	6.02	65.0	±9.6 %
		Y	36.04	108.46	31.40		65.0	
10000		Z	28.08	102.71	29.87		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	31.50	104.54	30.10	6.02	65.0	±9.6 %
		Y	28.73	103.05	29.35		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz,	Z X	22.90 42.99	97.90 117.54	27.98 36.03	6.02	65.0 65.0	±9.6 %
	QPSK)		04.07	444.00	04.44			
1.0.A.		Y	31.67	111.68	34.11		65.0	
10000		Z	29.03	108.38	33.18	0.00	65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	41.04	110.71	32.33	6.02	65.0	±9.6 %
		Y	35.91	108.40	31.38		65.0	
		Z	28.02	102.67	29.86		65.0	

10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	31.24	104.44	30.08	6.02	65.0	± 9.6 %
		Y	28.46	102.92	29.32		65.0	
		Z	22.74	97.82	27.96		65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	42.83	117.47	36.01	6.02	65.0	±9.6 %
		Y	31.56	111.62	34.09		65.0	
		Z	28.94	108.32	33.17		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	13.21	88.13	28.12	6.98	65.0	± 9.6 %
		Y	12.19	86.75	27.34		65.0	
		Ζ	12.93	86.92	27.56		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	×	11.82	85.64	27.08	6.98	65.0	±9.6 %
		Y	11.88	86.18	27.05		65.0	
		Z	11.71	84.70	26.62		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	9.69	83.18	27.04	6.98	65.0	±9.6 %
		Y	8.48	80.58	25.71		65.0	
		Z	9.71	82.55	26.66		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	10.16	81.71	21.73	3.98	65.0	±9.6 %
		<u>Y</u>	9.31	80.28	20.70		65.0	
		Z	9.66	80.44	21.31		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	9.99	81.19	21.49	3.98	65.0	± 9.6 %
		Y	9.12	79.71	20.44		65.0	
		Z	9.56	80.04	21.12	ļ	65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	10.26	84.67	22.74	3.98	65.0	± 9.6 %
		Y	9.22	82.91	21.64		65.0	
		Z	9.02	82.03	21.79		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	8.13	78.66	21.05	3.98	65.0	±9.6 %
		Y	7.56	77,60	20.25		65.0	
		Z	7.81	77.51	20.59		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	8.10	78.15	20.84	3.98	65.0	± 9.6 %
		Y	7.50	77.03	20.01		65.0	
		Z	7.84	77.14	20.44		65.0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	11.10	86,20	23.88	3.98	65.0	± 9.6 %
*******		Y	10.38	85.15	23.14		65.0	
******		Z	9.69	83.27	22.77		65.0	
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	8.90	80.26	22.85	3.98	65.0	± 9.6 %
		Y	8.50	79.72	22.41		65.0	
		Z	8.55	78.98	22.26		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	8.43	78.18	21.77	3.98	65.0	± 9.6 %
		Y	7.97	77.44	21.21		65.0	
		Z	8.21	77.20	21.30		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	10.55	84.69	23.95	3.98	65.0	± 9.6 %
		Y	10.10	84.18	23.52	1	65.0	
		Z	9.56	82.30	22.95		65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	8.29	77.16	21.61	3.98	65.0	± 9.6 %
		Y	7.87	76.45	21.11		65.0	
	101	Z	8.15	76.38	21.20		65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	8.65	77.83	22.17	3.98	65.0	± 9.6 %
		Y	8.27	77.28	21.75	1	65.0	-
•		1	8.49	77.01				

10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	9.28	.80.86	22.71	3.98	65.0	± 9.6 %
		Y	8.89	80.40	22.35		65.0	
		Z	8.80	79.34	21.99		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	9.13	79.62	20.18	3.98	65.0	± 9.6 %
		Y	7.96	77.38	18.74		65.0	
		Z	8.84	78.74	19.97		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	8.90	78.86	19.81	3.98	65.0	± 9.6 %
		Y	7.73	76.58	18.34		65.0	
		Z	8.71	78.17	19.67		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	8.90	81.94	21.19	3.98	65.0	± 9.6 %
		Y	7.60	79.37	19.69		65.0	
		Z	8.10	80.01	20.54		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	8.43	79.20	21.67	3.98	65.0	± 9.6 %
		Y	7.92	78.34	21.01		65.0	
		Ζ	8.11	78.01	21.17		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	8.43	78.91	21.57	3.98	65.0	± 9.6 %
		Y	7.92	78.05	20.91		65.0	
		Ζ	8.14	77.80	21.11		65.0	T
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	10.44	84.93	23.72	3.98	65.0	±9.6 %
		Y	9.81	84.03	23.07		65.0	
		Z	9.35	82.40	22.71		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	8.89	80.23	22.82	3.98	65.0	± 9.6 %
		Y	8.49	79.67	22.37		65.0	
		Z	8.55	78.95	22.23		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	8.43	78.18	21.77	3.98	65.0	± 9.6 %
	The second se	Y	7.96	77.43	21.21		65.0	
A		Z	8.21	77.20	21.30		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	10.49	84.56	23.88	3.98	65.0	±9.6 %
		Y	10.02	84.01	23.44		65.0	
		Z	9.51	82.19	22.89		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	8.52	77.77	21.82	3.98	65.0	± 9.6 %
		Y	8.07	77.03	21.32		65.0	
		Z	8.36	76.93	21.38		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	8.87	78.41	22.40	3.98	65.0	±9.6 %
		Y	8,48	77.88	22.01		65.0	
		Z	8.68	77.54	21.94		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	9.58	81.18	22.60	3.98	65.0	±9.6 %
		Y	9.19	80.75	22.26		65.0	
		Z	9.04	79.59	21.85		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	8.91	77.09	21.88	3.98	65.0	± 9.6 %
		Y	8.54	76.56	21.51		65.0	
	·····	Ζ	8.80	76.43	21.50		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	8.82	76.67	21.78	3.98	65.0	± 9.6 %
		Y	8.46	76.15	21.41		65.0	
		Z	8.73	76.06	21.42		65.0	1
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	8.97	78.33	21.62	3.98	65.0	± 9.6 %
CAD		Y	8.64	77.97	21.34		65.0	
		1 1 1	0.04	11.01	2 6.04		00.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.72	67.23	15.95	0.00	150.0	±9.6 %
		Y	2.57	66.31	15.13		150.0	
		Z	2.65	66.56	15.46		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	x	1.89	70.77	17.26	0.00	150.0	± 9.6 %
		Y	1.58	67.67	15.25		150.0	
		Z	1.72	68.75	16.01		150.0	
10277- CAA	PHS (QPSK)	X	6.00	70.47	14.76	9.03	50.0	± 9.6 %
		Y	5.21	68.57	13.21		50.0	
		Z	6.28	70.88	15.27		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	9.55	80.33	21.17	9.03	50.0	± 9.6 %
		Y	8.72	78.79	19.97		50.0	
		Z	9.29	79.51	21.06		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	9.72	80.54	21.26	9.03	50.0	± 9.6 %
	······································	Υ	8.86	78.97	20.05		50.0	
		Ζ	9.46	79.72	21.15		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	2.18	74.40	17.31	0.00	150.0	± 9.6 %
		Y	1.44	68.27	13.81		150.0	
		Z	1.72	70.30	15.40		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	1.24	71.68	16.15	0.00	150.0	± 9.6 %
		Y	0.80	65.30	12.12		150.0	
		Z	0.97	67.39	13.90		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	2.10	80.68	20.23	0.00	150.0	± 9.6 %
		Y	0.98	68.86	14.25		150.0	
		Ζ	1.23	71.77	16.34		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	4.35	92.52	24.81	0.00	150.0	± 9.6 %
		Y	1.43	74.29	17.12		150.0	
		Z	1.75	77.17	19.08		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	11.19	84.61	24.64	9.03	50.0	± 9.6 %
		Y	11.12	84.62	24.20		50.0	
		Z	10,33	82.52	23.91		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	3.13	71.75	17.66	0.00	150.0	± 9.6 %
		Y	2.77	69.64	16.38		150.0	
		Z	2.96	70.46	16.84		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	2.07	71.56	16.68	0.00	150.0	± 9.6 %
		Υ	1.59	67.63	14.15		150.0	
		Z	1.84	69.13	15.41		150.0	ļ.,
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	4.44	77.05	18.50	0.00	150.0	± 9.6 %
		Y	3.17	71.89	15.69		150.0	
	·	Z	3.89	74.52	17.46		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	2.98	70.18	14.87	0.00	150.0	± 9.6 %
		Y	2.33	66.80	12.64		150.0	
		Z	2.88	69.22	14.45		150.0	
10301- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	×	5.88	68.71	19.12	4.17	80.0	± 9.6 %
		Y	5.67	68.35	18.79		80.0	
		Z	5.96	68.70	19.05		80.0	
10302- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	6.49	69.93	20.23	4.96	80.0	± 9.6 %
		Y	6.06	68.48	19.24	1	80.0	1
		Z	6.58	69.96	20.17	1	80.0	1

10303- AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	x	6.38	70.18	20.37	4.96	80.0	±9.6%
		Y	5.90	68.52	19.27		80.0	[
		Z	6.49	70.27	20.35		80.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	5.94	69.20	19.41	4.17	80.0	± 9.6 %
	····	Y	5.55	67.84	18.48		80.0	
10005		Z	6.02	69.19	19.33		80.0	
10305- AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	8.63	79.84	25.16	6.02	50.0	±9.6 %
		Y	8.50	80.74	25.49		50.0	<u></u>
40000		Z	9.07	80.51	25.38		50.0	
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	7.19	74.26	22.98	6.02	50.0	± 9.6 %
		Y	6.24	70.98	21.03		50.0	
10307-		Z	7.44	74.65	23.11		50.0	
AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	7.43	75.32	23.26	6.02	50.0	± 9.6 %
		Y	7.08	75.34	23.24		50.0	
10200		Z	7.71	75.76	23.39		50.0	
10308- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	7.56	75.95	23.55	6.02	50.0	± 9.6 %
		Y	7.22	76.07	23.58		50.0	
10309-		Z	7.85	76.40	23.68		50.0	
AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	7.34	74.67	23.20	6.02	50.0	± 9.6 %
	·····	Y	6.34	71.28	21.21		50.0	
40240		Z	7.59	75.05	23.31		50.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	7.26	74.63	23.05	6.02	50.0	± 9.6 %
		Υ	6.24	71.19	21.04		50.0	
40044		Z	7.51	75.03	23.17		50.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.50	70.87	17.20	0.00	150.0	±9.6 %
		Y	3.12	68.92	16.05		150.0	
		Ζ	3.32	69.72	16.47		150.0	
10313- AAA	iDEN 1:3	X	8.27	79.76	19.38	6.99	70.0	± 9.6 %
		Y	7.09	77.48	18.12		70.0	
		Z	7.27	77.42	18.52		70.0	
10314- AAA	IDEN 1:6	X	10.52	85.41	23.73	10.00	30.0	± 9.6 %
M		Y	9.80	84.47	23.05		30.0	
		Z	8.56	81.26	22.24		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.21	66.04	16.76	0.17	150.0	± 9.6 %
		Y	1.11	64.36	15.28		150.0	
40040		Z	1.16	64.99	15.81		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	X	4.78	67.20	16.69	0.17	150.0	± 9.6 %
		Y	4.67	66.87	16.36		150.0	
40047		Z	4.78	67.00	16.48		150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.78	67.20	16.69	0.17	150.0	± 9.6 %
		Y	4.67	66.87	16.36		150.0	
10400		Z	4.78	67.00	16.48		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.88	67.44	16.59	0.00	150.0	± 9.6 %
		Υ	4.75	67.07	16.25		150.0	
		Z	4.88	67.23	16.38		150.0	
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.52	67.51	16.67	0.00	150.0	± 9.6 %
		Y	5.43	67.26	16.42		150.0	
		Z	5.50	67.29	16.46]	150.0]

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.81	67.99	16.74	0.00	150.0	±9.6 %
· 17 11-		Y	5.71	67.67	16.46		150.0	
		z	5.80	67.83	16.56		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	2.18	74.40	17.31	0.00	115.0	± 9.6 %
		Y	1.44	68.27	13.81		115.0	
		Z	1.72	70.30	15.40		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	2.18	74.40	17.31	0.00	115.0	± 9.6 %
		Y	1.44	68.27	13.81		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	Z X	1.72 100.00	70.30 125.34	15.40 32.57	0.00	115.0 100.0	±9.6 %
		Y	100.00	122.30	30.90		100.0	
****	· · · · · · · · · · · · · · · · · · ·	Z	100.00	123.59	31.86		100.0	
10410- AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	121.08	31.14	3.23	80.0	±9.6 %
		Y	100.00	119.39	30.03		80.0	
		Z	100.00	119.84	30.69		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.04	64.21	15.75	0.00	150.0	± 9.6 %
		Y	0.96	62.81	14.37		150.0	
40440		Z	1.00	63.31	14.86		150.0	100%
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.68	67.03	16.52	0.00	150.0	± 9.6 %
		Y	4.57	66.70	16.19		150.0	
10417-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6	ZX	4.67	66.81	16.30 16.52	0.00	150.0 150.0	± 9.6 %
AAB	Mbps, 99pc duty cycle)	Y	4.68	67.03 66.70	16.52	0.00	150.0	±9.0 %
		Z	4.57	66.81	16.19		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.66	67.18	16.53	0.00	150.0	± 9.6 %
		Y	4.55	66.84	16.19		150.0	
		Z	4.65	66.94	16.30		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.69	67.13	16.53	0.00	150.0	± 9.6 %
		Y	4.58	66.80	16.20		150.0	
		Z	4.68	66.91	16.31		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	×	4.81	67.13	16.54	0.00	150.0	± 9.6 %
		Y	4.70	66.81	16.22	ļ	150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	Z X	4.80 5.01	66,92 67.51	16.33 16.68	0.00	150.0 150.0	± 9.6 %
AAD		Y	4.89	67.16	16.35		150.0	
		Z	5.01	67.31	16.35		150.0	
10424-	IEEE 802.11n (HT Greenfield, 72.2	$\frac{2}{X}$	4.92	67.45	16.65	0.00	150.0	± 9.6 %
AAB	Mbps, 64-QAM)	Y	4.80	67.10	16.32		150.0	
		z	4.92	67.24	16.43	+	150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.50	67.77	16.79	0.00	150.0	± 9.6 %
	,	Y	5.41	67.50	16.53	1	150.0	1
		Z	5.49	67.58	16.59	1	150.0	
10426- AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.51	67.80	16.80	0.00	150.0	± 9.6 %
		Y	5.41	67.51	16.53		150.0	
		Z	5.50	67.62	16.60	T	150.0	1

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10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.53	67.79	16.79	0.00	150.0	± 9.6 %
		Y	5.42	67.48	16.51		150.0	1
40400		Z	5.52	67.63	16.61		150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.38	70.70	18.40	0.00	150.0	± 9.6 %
·····		Y	4.25	70.46	18.05		150.0	
		Z	4.31	70.02	17.98		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.42	67.67	16.62	0.00	150.0	± 9.6 %
		Y	4.27	67.23	16.20		150.0	
40400		Z	4.41	67.37	16.37		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.70	67.52	16.63	0.00	150.0	± 9.6 %
		Y	4.57	67.13	16.26		150.0	
40.400		Z	4.70	67.28	16.40		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.94	67.50	16.67	0.00	150.0	± 9.6 %
		Y	4.82	67.14	16.34		150.0	
40404		Z	4.94	67.29	16.46		150.0	[
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.49	71.52	18.43	0.00	150.0	± 9.6 %
		Y	4.34	71.22	18.01		150.0	
		Z	4.39	70.68	17.96		150.0	
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	120.92	31.06	3.23	80.0	± 9.6 %
		Y	100.00	119.22	29.95		80.0	
		Z	100.00	119.70	30.62		80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.75	67.86	16.21	0.00	150.0	±9.6 %
		Y	3.56	67.20	15.57		150.0	ļ
		Z	3.73	67.41	15.90		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	4.24	67.45	16.49	0.00	150.0	± 9.6 %
		Y	4.10	67.00	16.05		150.0	
		Z	4.22	67.14	16.23		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.49	67.35	16.53	0.00	150.0	±9.6 %
		Y	4.37	66.95	16.16		150.0	
		Z	4,48	67.09	16.30		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.67	67.26	16.53	0.00	150.0	± 9.6 %
		Y	4.56	66.89	16.18		150.0	
	······································	Ζ	4.66	67.04	16.31		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.69	68.21	15.98	0.00	150.0	± 9.6 %
		Y	3.47	67,39	15.23		150.0	
		Z	3.66	67.69	15.67		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.36	68.35	16.93	0.00	150.0	± 9.6 %
·····		Y	6.27	68.07	16.69		150.0	
		Z	6.35	68.21	16.77		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	x	3.86	65.66	16.26	0.00	150.0	±9.6 %
		Y Z	3.78 3.84	65.32 65.45	15.90 16.04		150.0 150.0	
10458-	CDMA2000 (1xEV-DO, Rev. B, 2	X	4,10	70.68	17.90	0.00	and and a state of the state of	100%
AAA	carriers)	Y	3.95			0.00	150.0	± 9.6 %
				70.36	17.40		150.0	
10459-	CDMA2000 (1xEV-DO, Rev. B, 3	Z	3.98	69.73	17.40		150.0	
AAA	carriers)	X	5.16	67.87	18.15	0.00	150.0	± 9.6 %
		Y	5.08	67.96	18.01		150.0	
		Z	5.12	67.39	17.86		150.0	

10460- AAA	UMTS-FDD (WCDMA, AMR)	Х	1.21	74.36	19.56	0.00	150.0	± 9.6 %
		Y	0.84	67.73	15.53		150.0	
		Z	0.96	69.69	16.87		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	124.72	32.88	3.29	80.0	± 9.6 %
		Y	100.00	122,71	31.63		80.0	
		Ζ	100.00	122.27	31.89		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.81	26.22	3.23	80.0	± 9.6 %
		Y	100.00	107.68	24.48		80.0	
		Z	100.00	109.58	25.81		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.02	24.88	3.23	80.0	± 9.6 %
		Y	17.57	87.04	18.79		80.0	
		Z	57.71	101.03	23.21	[80.0	
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	122.99	31.92	3.23	80.0	± 9.6 %
		Y	100.00	120.66	30.52		80.0	
		Z	100.00	120.59	30.96		80.0	
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	110.36	26.00	3.23	80.0	± 9.6 %
		Y	69.93	103.37	23.39		80.0	
		Z	100.00	109.17	25.60		80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	107.59	24.67	3.23	80.0	± 9.6 %
		Y	10.32	81.39	17.12		80.0	
		Z	32.56	94.43	21.51		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.18	32.01	3.23	80.0	± 9.6 %
		Y	100.00	120.88	30.62		80.0	
		Z	100.00	120.77	31.04		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.50	26.06	3.23	80.0	± 9.6 %
		Y	95.55	106.84	24.20		80.0	
		Z	100.00	109.30	25.66		80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	107.60	24.67	3.23	80.0	± 9.6 %
		Y	10.51	81.58	17.17		80.0	
		Z	33.51	94,76	21.58		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.21	32.02	3.23	80.0	± 9.6 %
		Y	100.00	120.90	30.62		80.0	
		Z	100.00	120.79	31.05		80.0	1
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.46	26.04	3.23	80.0	± 9.6 %
		Y	94.56	106.68	24.14		80.0	
		Z	100.00	109.26	25.63		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	107.56	24.64	3.23	80.0	± 9.6 %
		Y	10.43	81.48	17.13		80.0	
		Z	33.64	94.78	21.58		80.0	
10473- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.19	32.00	3.23	80.0	± 9.6 %
		Y	100.00	120.87	30.61	1	80.0	
		Z	100.00	120.77	31.03		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.47	26.04	3.23	80.0	±9.6 %
		Y	92.06	106.40	24.08		80.0	
		Z	100.00	109.26	25.64		80.0	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	107.57	24.65	3.23	80.0	± 9.6 %
	,	Υ	10.30	81.37	17.09	1	80.0	
		Ż	33.12	94.61	21.54	-	80.0	

10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.32	25.97	3.23	80.0	± 9.6 %
		Y	73.47	103.85	23.47		80.0	
		Z	100.00	109.13	25.57		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	107.52	24.63	3.23	80.0	± 9.6 %
		Y	10.13	81.17	17.03		80.0	1
	-	Z	32.56	94.40	21.47		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	23.24	102.02	28,60	3.23	80.0	± 9.6 %
	·····	<u>Y</u>	17.72	96.96	26.53		80.0	
40400		Z	12.62	91.31	25.32		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	23.79	96.38	25.31	3.23	80.0	± 9.6 %
		Y	16.50	90.35	22,90		80.0	
		Z	13.56	87.65	22.71		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	19.64	92.74	23.93	3.23	80.0	± 9.6 %
		Y	13.10	86.39	21.35		80.0	
10100		Z	12.05	85.29	21.66		80.0	
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	8.49	84.69	22.05	2.23	80.0	±9.6 %
		Y	5.66	78.52	19.36		80.0	
10.155		Z	6.07	79.11	20.05		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	11.70	86.22	22.45	2.23	80.0	± 9.6 %
		Y	8.73	81.47	20.24		80.0	
		Z	8.71	81.39	20.85		80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	10.50	84.41	21.86	2.23	80.0	± 9.6 %
		Y	7.92	79.90	19.71		80.0	
		Z	8.18	80.26	20.46		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	8.12	84.44	22.68	2.23	80.0	±9.6 %
		Y	5.95	79.56	20.54		80.0	
		Z	6.24	79.61	20.83		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.60	75.72	19.25	2.23	80.0	± 9.6 %
		Y	4.71	73.16	17.81		80.0	
		Z	5.00	73.46	18.29		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.48	75.06	18.99	2.23	80.0	± 9.6 %
		Y	4.65	72.64	17.60		80.0	
		Z	4.96	73.01	18.11		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.06	80.88	21.92	2.23	80.0	± 9.6 %
		Y	5.70	77.55	20.40		80.0	
	· · · · · · · · · · · · · · · · · · ·	Z	6.08	77.77	20.57		80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.31	73.88	19.45	2.23	80.0	± 9.6 %
		Y	4.75	72.25	18.50		80.0	
		Z	5.02	72.44	18.71		80.0	
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.32	73.40	19.28	2.23	80.0	± 9.6 %
		Y	4.80	71.92	18.39		80.0	
	· · · · · · · · · · · · · · · · · · ·	Z	5.07	72.08	18.60		80.0	
10491- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.29	77.08	20.62	2.23	80.0	±9.6 %
		Y	5.44	74.84	19.51		80.0	
		Z	5.78	75.12	19.66		80.0	[
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.38	72.26	19.03	2.23	80.0	± 9.6 %
		Y	4.95	71.03	18.29	h	80.0	
		Z	5.22	71.29	18.47		80.0	

10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.41	71.97	18.93	2.23	80.0	±9.6 %
		Y	4.99	70.82	18.22	•••••	80.0	······
		Z	5.27	71.06	18.40		80.0	·····
10494-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	X	7.26	79.46	21.31	2.23	80.0	± 9.6 %
AAC	QPSK, UL Subframe=2,3,4,7,8,9)					2.20		,.
		Y	6.08	76.70	20.04		80.0	
		Z	6.47	77.03	20.19		80.0	
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.52	72.92	19.28	2.23	80.0	± 9.6 %
		Y	5.04	71.57	18.51		80.0	
		Z	5.33	71.88	18.69		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.51	72.36	19.10	2.23	80.0	± 9.6 %
		Y	5.07	71.15	18.38		80.0	
		Z	5.35	71.43	18.55		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.84	81,16	20.14	2.23	80.0	± 9.6 %
		Y	4.18	74.07	16.91		80.0	
		Z	4.97	76.21	18.38		80.0	
10498-	LTE-TDD (SC-FDMA, 100% RB, 1.4	X	4.23	71.63	15.72	2.23	80.0	±9.6 %
AAA	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)					2.20	5-10	
		Y	2,88	66.72	12.99		80.0	
		Z	3,81	69.89	15.10		80.0	1 1
10499-	LTE-TDD (SC-FDMA, 100% RB, 1.4	X	4.07	70.79	15.25	2.23	80.0	± 9.6 %
AAA	MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)			10.70	10.20	2.20	00.0	2 0.0 %
		Y	2.78	66.03	12.55		80.0	
		Z	3.73	69.33	14.75	}	80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.25	82.07	22.09	2.23	80.0	± 9.6 %
		Υ	5.64	78.16	20.30		80.0	
		Z	5.95	78.24	20.53		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.43	74.78	19.24	2.23	80.0	± 9.6 %
	· · ·	Y	4.72	72.72	18.04		80.0	
		Z	4.99	72.91	18.39		80.0	· · · ·
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.43	74.40	19.05	2.23	80.0	± 9.6 %
		Y	4.75	72.45	17.89		80,0	
		Z	5.01	72.63	18.25		80.0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.96	80.64	21.82	2.23	80.0	± 9.6 %
		Y	5.62	77.31	20.29		80.0	
	***************************************	Z	6.00	77.58	20.48		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.28	73.79	19.40	2.23	80.0	± 9.6 %
		Y	4.72	72.15	18.44		80.0	
		Z	5.00	72.37	18.67		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.30	73.31	19.23	2.23	80.0	±9.6 %
		Y	4.78	71.81	18.34	[80.0	
		Z	5.05	72.00	18.55		80.0	1
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.19	79.29	21.23	2.23	80.0	± 9.6 %
		Y	6.02	76.53	19.97		80.0	
		Z	6.42	76.89	20.13		80.0	
10507-	LTE-TDD (SC-FDMA, 100% RB, 10	X	5.49	72.85	19.25	2.23	80.0	± 9.6 %
AAC	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)		0.40		.0.20	2.20		20.070
		1			· • • · · · · · · · · · · · · · · · · ·			
		Υ	5.02	71.50	18.47		80.0	

10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.49	72.29	19.06	2.23	80.0	± 9.6 %
		Y	5.05	71.07	18.34		80.0	
		Z	5.33	71.37	18.52		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.71	76.12	20.06	2.23	80.0	± 9.6 %
		Y	5.94	74.25	19,13		80.0	
		Z	6.28	74.57	19.27		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.84	71.95	18.94	2.23	80.0	±9.6 %
		Y	5.42	70.86	18.30		80.0	
		Z	5.71	71.20	18.47		80.0	[
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.82	71.51	18.81	2.23	80.0	± 9.6 %
		Y	5.44	70.51	18.21		80.0	
	·····	Z	5.71	70.83	18.37		80.0	
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.61	78.80	20.90	2.23	80.0	± 9.6 %
		Y	6.48	76.29	19.75		80.0	
40546		Z	6.88	76.71	19.92		80.0	
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.82	72.58	19.18	2.23	80.0	± 9.6 %
		Y	5.36	71.33	18.47		80.0	
10511		Z	5.67	71.74	18.66		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.73	71.89	18.96	2.23	80.0	± 9.6 %
		Υ	5.32	70.77	18.31		80.0	
		Z	5.61	71.15	18.49		80.0	
10515- AAA	IEEE 802.11b WIFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	1.00	64.53	15.90	0.00	150.0	±9.6 %
		Y	0.92	62.98	14.41		150.0	
40540		Z	0.96	63.54	14.94		150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	1.68	91.06	26.34	0.00	150.0	± 9.6 %
		Y	0.55	69.99	16.34		150.0	
10517-		Z	0.73	74.56	19.01		150.0	
AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.92	68.12	17.45	0.00	150.0	±9.6 %
		Y	0.77	64.83	14.89		150.0	
10518- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	Z X	<u>0.84</u> 4.67	65.95 67.12	15.79 16.50	0.00	150.0 150.0	±9.6 %
		Y	4.56	66.77	16.17		150.0	
		Z	4.66	66.89	16.28		150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.89	67.40	16.64	0.00	150.0	± 9.6 %
		Y	4.77	67.04	16.30		150.0	
		Z	4.89	67.19	16.43		150.0	
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.74	67.39	16.57	0.00	150.0	±9.6 %
		Y	4.61	67.01	16.22		150.0	
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	Z X	4.74 4.67	<u>67.17</u> 67.41	16.35 16.56	0.00	150.0 150.0	± 9.6 %
		Y	4.55	67.00	16.20		150.0	
		Z	4.55	67.18	16.20		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.72	67.39	16.60	0.00	150.0	±9.6 %
		Y	4.60	67.04	16.27		150.0	
		Z	4.71	67.14	16.36		150.0	

AAB Mbps, 98 pc duty cycle) Y 4.47 66.51 16.0<									
Let Let <thlet< th=""> <thlet< th=""> <thlet< th=""></thlet<></thlet<></thlet<>	10523- AAB	IEEE 802.11a/h WiFI 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.59	67.29	16.46	0.00	150.0	± 9.6 %
Image: Constraint of the			Y	4.47	66.91	16.11		150.0	
10524 IEEE 802.11ab. WIFI 6 GHz (OFDM, 54 X 4.67 67.35 16.59 0.00 150.0 ± 5.6 % AAB Mbps, 99pc duty cycle) Y 4.56 66.36 16.24 150.0 . 10525 IEEE 802.11ac WIFI (20MHz, MCS0, X 4.63 66.37 16.17 0.00 150.0 ± 5.6 % AAB Spbc duty cycle) Y 4.52 66.01 15.83 150.0 ± 5.6 % AAB Spbc duty cycle) Y 4.52 66.01 15.83 16.00 ± 9.6 % AAB Spbc duty cycle) Y 4.70 66.42 16.37 10.00 ± 9.6 % AAB Spbc duty cycle) Y 4.70 66.76 16.27 0.00 150.0 ± 9.6 % AAB Spbc duty cycle) Y 4.62 66.36 15.92 150.0 ± 9.6 % AAB Spbc duty cycle) Y 4.64 66.35 16.31 0.00 150.0 ± 9.6 % AAB Spbc duty c									
Y 4.455 66.98 16.24 150.0 1025- AAB Sppc duty cycle) X 4.67 67.11 16.36 150.0 1025- AAB Sppc duty cycle) Y 4.52 66.01 15.83 150.0 1052- AAB Sppc duty cycle) Y 4.52 66.01 15.83 150.0 ± 9.6 % AAB Sppc duty cycle) Y 4.70 66.01 15.97 150.0 ± 9.6 % AAB Sppc duty cycle) Y 4.75 66.76 16.27 0.00 150.0 ± 9.6 % AAB Sppc duty cycle) Y 4.75 66.76 16.27 0.00 150.0 ± 9.6 % AAB Sppc duty cycle) Y 4.42 66.36 15.92 150.0 ± 9.6 % AAB Sppc duty cycle) Y 4.44 66.38 15.95 150.0 ± 9.6 % 10529- IEEE 802.11ac WIFI (20MHz, MCS4, X 4.77 66.78 16.31 0.00 150.0 ± 9							0.00		± 9.6 %
Image: Second state			Y	4.55	66.98	16.24		150.0	
10525- 99pc duty cycle) X 4.63 66.37 16.17 0.00 150.0 ± 9.6 %, AAB AAB 99pc duty cycle) Y 4.52 66.01 15.83 150.0 10525- AAB 19pc duty cycle) Y 4.82 66.74 16.32 0.00 150.0 ± 9.6 %, AAB 99pc duty cycle) Y 4.70 66.74 16.92 0.00 150.0 ± 9.6 %, AAB 10527- AAB IEEE 802.11ac WIFI (20MHz, MCS2, SPpc duty cycle) X 4.75 66.76 16.27 0.00 150.0 ± 9.6 %, AAB 10528- Bepc duty cycle) Y 4.62 66.36 15.92 150.0 ± 9.6 %, AAT 10528- Bepc duty cycle) Y 4.64 66.34 15.00 ± 9.6 %, AAB 150.0 ± 9.6 %, AAB									
AAB 99pc duty cycle) Y 4.52 66.01 15.83 150.0 10526- AAB 1EEE 802.11ac WiFI (20MHz, MCS1, AAB X 4.83 66.78 16.32 0.00 150.0 10527- AAB 99pc duty cycle) Y 4.70 66.40 15.97 150.0 10527- AAB 1EEE 802.11ac WiFI (20MHz, MCS2, AAB Y 4.72 66.36 16.92 150.0 10528- AAB 99pc duty cycle) X 4.75 66.76 16.27 0.00 150.0 10528- AAB 99pc duty cycle) X 4.77 66.78 16.31 0.00 150.0 10528- AAB 99pc duty cycle) X 4.77 66.78 16.31 0.00 150.0 2.8.6% AAB 99pc duty cycle) Y 4.64 66.34 15.05 150.0 160.0 10529- IEEE 802.11ac WiFI (20MHz, MCS4, AB 4.77 66.74 16.08 150.0 150.0 2.9.6% AB 99pc duty cycle) Y 4.64 66.69	10525-	IEEE 802,11ac WiFi (20MHz, MCS0					0.00		+96%
Image: Constraint of the		99pc duty cycle)					0.00		_ 0.0 70
10526- 99pc duty cycle) Y 4.83 4.88 96.78 966.74 16.32 165.07 0.00 150.0 150.0 150.0 AAB 99pc duty cycle) Y 4.70 4.72 66.64 16.97 166.74 150.0 10527- 10527- 10528- AAB IEEE 802.11ac WIFI (20MHz, MCS2, 99pc duty cycle) Y 4.72 4.74 66.51 66.51 16.04 150.0 10528- 10528- 10529- 10531- 10529- 10531- 10531- 10531- 10531- 10531- 10531- 10531- 10531- 10531- 10531- 10532-									ii
AAB 99pc duty cycle) Y 4.70 66.40 15.97 150.0 10527- AAB 12EE 802.11ac WIFI (20MHz, MCS2, AAB X 4.75 66.76 16.27 0.00 150.0 ±9.8 % 10527- AAB 99pc duty cycle) Y 4.62 66.65 16.22 150.0 ±9.8 % 10528- AAB 1EEE 802.11ac WIFI (20MHz, MCS3, AAB X 4.77 66.78 16.31 0.00 150.0 ±9.6 % 10529- 10529- 10529- 10529- 10529- 10529- 10531- 10531- 10531- 10531- 10532- 10532- 10532- 10532- 10532- 10532- 10532- 10533- 1EEE 802.11ac WIFI (20MHz, MCS6, AAB Y 4.64 66.38 15.95 150.0 ±9.6 % 10532- 10532- 10532- 10532- 10533- 10532- 10533- AAB Y 4.64 66.50 15.97 150.0 ±9.6 % 10532- 10533- AAB 99pc duty cycle) Y 4.64 66.53 16.00 150.0 ±9.6 % 10534- 0.00 150.0 Y 4.64 66.53 15.90 150.0 ±9.6 % 10534- 0.00 150.0 Y 4.64 66.53 15.90	10526						0.00		+06%
Z 4.82 66.64 16.09 150.0 AAB 99pc duty cycle) Y 4.62 66.76 16.27 0.00 150.0 ± 9.6 % AAB 99pc duty cycle) Y 4.62 66.36 15.92 150.0 ± 9.6 % 10528- IEEE 802.11ac WIFI (20MHz, MCS3, X 4.77 66.78 16.31 0.00 ± 9.6 % AAB 9pc duty cycle) Y 4.64 66.38 15.95 150.0 10529- IEEE 802.11ac WIFI (20MHz, MCS4, X 4.77 66.78 16.31 0.00 150.0 ± 9.6 % AAB 99pc duty cycle) Y 4.64 66.38 15.95 150.0 10531- IEEE 802.11ac WIFI (20MHz, MCS6, X 4.78 66.69 16.10 150.0 ± 9.6 % AAB 99pc duty cycle) Y 4.64 66.50 15.97 150.0 ± 9.6 % AAB 99pc duty cycle) Y 4.64 66.60 16.05							0.00		± 3,0 78
10527- AAB IEEE 802.11ac WiFi (20MHz, MCS2, 9pc duty cycle) X 4.75 66.76 16.27 0.00 150.0 ± 9.6 % ± 9.6 % 10528- AAB IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) X 4.77 66.76 16.31 0.00 150.0 ± 9.6 % ± 9.6 % 10528- AAB IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) Y 4.64 66.38 15.95 150.0 ± 9.6 % 10529- 10529- 000 IEEE 802.11ac WiFi (20MHz, MCS4, AAB Y 4.64 66.38 15.95 150.0 ± 9.6 % AAB 9pc duty cycle) Y 4.64 66.34 16.04 150.0 ± 9.6 % AAB 9pc duty cycle) Y 4.64 66.33 15.97 150.0 ± 9.6 % AAB 9pc duty cycle) Y 4.64 66.50 15.97 150.0 ± 9.6 % AAB 9pc duty cycle) Y 4.64 66.50 16.27 0.00 150.0 ± 9.6 % AAB 9pc duty cycle) Y 4.463 66.60 1									
AAB 99pc duty cycle) Y 4.62 66.36 15.92 150.0 10529. IEEE 802.11ac WIFI (20MHz, MCS3, 39pc duty cycle) X 4.77 66.78 16.04 150.0 ±9.6 % 10529. IEEE 802.11ac WIFI (20MHz, MCS3, X 4.77 66.78 16.31 0.00 150.0 ±9.6 % 10529. IEEE 802.11ac WIFI (20MHz, MCS4, X 4.77 66.78 16.31 0.00 150.0 ±9.6 % AAB 99pc duty cycle) Y 4.64 66.38 15.95 150.0 150.0 ±9.6 % AAB 99pc duty cycle) Y 4.64 66.33 16.34 0.00 150.0 ±9.6 % 10531- IEEE 802.11ac WIFI (20MHz, MCS6, X 4.78 66.69 16.10 150.0 ±9.6 % AAB 99pc duty cycle) Y 4.64 66.50 15.97 150.0 150.0 ±9.6 % AAB 99pc duty cycle) Y 4.43 66.35 15.90 150.0 ±9.6 % AAB	40507						0.00		
Z 4.74 66.51 16.04 150.0 10528- AAB S9pc duty cycle) Y 4.64 66.38 16.31 0.00 150.0 ± 9.6 % AAB S9pc duty cycle) Y 4.64 66.38 15.95 150.0 10529- AAB IEEE 802.11ac WiFI (20MHz, MCS4, AAB Y 4.64 66.38 15.95 150.0 10531- AAB Sppc duty cycle) Y 4.64 66.54 16.08 150.0 10531- AAB Sppc duty cycle) Y 4.64 66.50 16.97 150.0 10531- AAB Sppc duty cycle) Y 4.64 66.50 16.87 150.0 10532- IEEE 802.11ac WiFI (20MHz, MCS7, AB Y 4.64 66.35 15.90 150.0 10533- Bopc duty cycle) Y 4.464 66.35 15.90 150.0 150.0 10533- Bopc duty cycle) Y 4.464 66.56 16.05 150.0 150.0 10534- Bopc duty cycle) Y 4.65 66.81 15.94<							0.00		±9.6 %
10528- AAB IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) X 4.77 66.78 16.31 0.00 150.0 ± 9.6 % AAB 99pc duty cycle) Y 4.64 66.33 15.95 150.0 10529- AAB IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) X 4.77 66.78 16.31 0.00 150.0 ± 9.6 % AAB 90pc duty cycle) Y 4.64 66.38 15.95 150.0 105.0 ± 9.6 % AAB 90pc duty cycle) Y 4.64 66.54 16.08 150.0 105.0 ± 9.6 % AAB 90pc duty cycle) Y 4.64 66.50 15.97 150.0 150.0 150.0 150.0 150.0 105.0 ± 9.6 % AAB 90pc duty cycle) Y 4.63 66.80 16.29 0.00 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0									
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				5 10	66 66	16 12		150.0	╂
	L		Z	5.29	66.82	16.22		150.0	+

10541- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.28	66.90	16.36	0.00	150.0	± 9.6 %
		Y	5.16	66.53	16.05		150.0	
		Z	5.27	66.74	16.17		150.0	
10542- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.43	66.95	16.40	0,00	150.0	±9.6 %
		Y	5.32	66.61	16.11		150.0	
		Z	5.42	66.77	16.20		150.0	
10543- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.51	66.95	16.41	0.00	150.0	± 9.6 %
·····	·····	Y	5.40	66.65	16.14		150.0	
		Z	5.51	66.78	16.22		150.0	
10544- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.56	66.97	16.30	0.00	150.0	±9.6 %
h		Y	5.46	66.64	16.02		150.0	
		Z	5.54	66.80	16.11		150.0	
10545- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	Х	5.78	67.41	16.46	0.00	150.0	±9.6 %
		Y	5.68	67.09	16.19		150.0	
		Z	5.76	67.21	16.25		150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.66	67.27	16.41	0.00	150.0	±9.6 %
		Y	5.55	66.90	16.11		150.0	
	····	Z	5.65	67.10	16.22		150.0	
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.75	67.34	16.43	0.00	150.0	± 9.6 %
		Y	5.64	66.99	16.14		150.0	
		Z	5.73	67.16	16.24		150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	6.10	68.57	17.02	0.00	150.0	± 9.6 %
		Y	5.97	68.15	16.70		150.0	
		Z	6.06	68.30	16.78		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.68	67.21	16.39	0.00	150.0	± 9.6 %
		Y	5.57	66.88	16.11		150.0	
	4/r/	Ż	5.66	67.04	16.20		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.70	67.30	16.39	0.00	150.0	± 9.6 %
		Y	5.58	66.93	16.09		150.0	
		Z	5.68	67.15	16.21		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.59	67.05	16.28	0.00	150.0	±9.6 %
		Y	5.48	66.70	15.99		150.0	
		Ż	5.58	66.90	16.10		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.69	67.10	16.33	0.00	150.0	± 9.6 %
		Y	5.57	66.76	16.05		150.0	
		Z	5.67	66.95	16.15		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.97	67.34	16.39	0.00	150.0	±9.6 %
		Y	5.87	67.02	16.12		150.0	
		Z	5.94	67.19	16.21	1	150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	6.12	67.69	16.53	0.00	150.0	± 9.6 %
		Y	6.01	67.35	16.26		150.0	
		Z	6.10	67.54	16.36		150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.13	67.71	16.53	0.00	150.0	±9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	6.03	67.38	16.27		150.0	
		Z	6.11	67.54	16.35		150.0	
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	6.12	67.66	16.53	0.00	150.0	± 9.6 %
		Y	6.00	67.31	16.25		150.0	
		Z	6.10	67.52	16.36		150.0	

10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.18	67.86	16.65	0.00	150.0	± 9.6 %
		Y	6.06	67.49	16.36		150.0	
	·····	Ż	6.16	67.71	16.47		150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.16	67.67	16.59	0.00	150.0	± 9.6 %
		Y	6.05	67.32	16.31		150.0	
	······································	Z	6.15	67.54	16.42		150.0	
10561-	IEEE 802.11ac WiFi (160MHz, MCS7,	X	6.08	67.64	16.61	0.00	150.0	± 9.6 %
AAC	99pc duty cycle)	Y	5.97	67.29	16.33	0.00	150.0	2 0.0 70
		z	6.06	67.49	16.44		150.0	
10562-	IEEE 802.11ac WiFi (160MHz, MCS8,	X	6.25	68.16	16.88	0.00	150.0	± 9.6 %
AAC	99pc duty cycle)					0.00		± 9.0 %
		Y	6.13	67.77	16.57		150.0	
40500		Z	6.23	68.01	16.70		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.60	68.73	17.10	0.00	150.0	± 9.6 %
		Y	6.50	68.45	16.86		150.0	
		Z	6.53	68.43	16.86		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	5.01	67.24	16.68	0.46	150.0	± 9.6 %
		Y	4.90	66.90	16.36		150.0	
		Z	5.01	67.05	16.49		150.0	
10565- AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	5.27	67.70	16.99	0.46	150.0	± 9.6 %
		Y	5.15	67.37	16.68		150.0	
		Z	5.27	67.52	16.80		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	5.11	67.60	16.84	0.46	150.0	± 9.6 %
		Y	4.98	67.23	16.50		150.0	
•		z	5.11	67.41	16.64		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	5.13	67.96	17.16	0.46	150.0	± 9.6 %
		Y	5.01	67.61	16.84		150.0	
	~~~	Ż	5.13	67.75	16.95		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	5.02	67.36	16.62	0.46	150.0	±9.6 %
		Y	4.90	67.01	16.28		150.0	
		Z	5.02	67.16	16.41		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	5.07	67.97	17.18	0.46	150.0	± 9.6 %
		TY	4.96	67.67	16.89		150.0	
		Ż	5.06	67.76	16.96		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	5.11	67.83	17.12	0.46	150.0	± 9.6 %
2001		Y	5.00	67.52	16.83		150.0	
		Z	5.00	67.61	16.91		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.43	67.78	17.55	0.46	130.0	± 9.6 %
		Y	1.29	65.83	16.01		130.0	
		Z	1.29	66.57	16.56		130.0	
10572-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	X	1.37			0.49		+06%
10572- AAA	Mbps, 90pc duty cycle)			68.62	18.01	0.46	130.0	± 9.6 %
		Y	1.32	66.50	16.39	ļ	130.0	
		. 7	1.40	67.26	16.95	ļ	130.0	[
		Z						
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	100.00	147.77	39.50	0.46	130.0	± 9.6 %
					39.50 25,26	0.46	130.0	± 9.6 %
		X Y Z	100.00 5.11	147.77		0.46		± 9.6 %
AAA 10574-	Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	X Y	100.00	147.77 95.86	25.26	0.46	130.0	± 9.6 %
AAA	Mbps, 90pc duty cycle)	X Y Z	100.00 5.11 11.46	147.77 95.86 108.94	25,26 29.46		130.0 130.0	

10575- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 90pc duty cycle)	X	4.84	67.12	16.79	0.46	130.0	± 9.6 %
		Y	4.72	66.80	16.47	[	130.0	<u> </u>
		Z	4.83	66.93	16.59		130.0	
10576- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	Х	4.86	67.28	16.85	0.46	130.0	± 9.6 %
		Y	4.75	66.95	16.53		130.0	[
		Z	4.86	67.08	16,65		130.0	
10577- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	Х	5.09	67.60	17.02	0.46	130.0	± 9.6 %
		Y	4.97	67.26	16.71		130.0	
		Z	5.10	67.41	16.83		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.99	67.77	17.12	0.46	130.0	± 9.6 %
		Y	4.86	67.43	16.80		130.0	
40		Z	4.99	67.57	16.91		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.77	67.19	16.53	0.46	130.0	±9.6 %
······		Y	4.64	66.77	16.15		130.0	
145		Z	4.78	67.01	16.33		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	Х	4.81	67.17	16.53	0.46	130.0	±9.6 %
		Y	4.68	66.78	16.16		130.0	
		Z	4.82	66.97	16.32		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.90	67.87	17.09	0.46	130.0	± 9.6 %
		Y	4.77	67.49	16.75		130.0	
		Z	4.90	67.66	16.87		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	Х	4.73	66.96	16.34	0.46	130.0	± 9.6 %
		Y	4.59	66.53	15.94		130.0	
		Z	4.73	66.78	16.14		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.84	67.12	16.79	0.46	130.0	± 9.6 %
		Y	4.72	66.80	16.47		130.0	
		Z	4.83	66.93	16.59		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.86	67.28	16.85	0.46	130.0	± 9.6 %
		Y	4.75	66.95	16.53		130.0	
		Z	4.86	67.08	16.65		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	5.09	67.60	17.02	0.46	130.0	± 9.6 %
		Y	4.97	67.26	16.71		130.0	
		Z	5.10	67.41	16.83		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.99	67.77	17.12	0.46	130.0	± 9.6 %
		Y	4.86	67.43	16.80		130.0	
		Z	4.99	67.57	16.91		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.77	67.19	16.53	0.46	130.0	±9.6 %
		Y	4.64	66.77	16.15		130.0	
		Z	4.78	67.01	16.33		130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	Х	4.81	67.17	16.53	0.46	130.0	±9.6 %
		Y	4.68	66.78	16.16		130.0	
	· ······	Z	4.82	66.97	16.32		130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.90	67.87	17.09	0.46	130.0	± 9.6 %
		Y	4.77	67.49	16.75		130.0	
		Z	4.90	67.66	16.87		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.73	66.96	16.34	0.46	130.0	± 9.6 %
		Y	4.59	66.53	15.94		130.0	
		Z	4.73	66.78	16,14		130.0	1

10591-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.98	67.15	16.87	0.46	130.0	±9,6 %
AAB	MCS0, 90pc duty cycle)		4.07	00.05	40.57		420.0	
		Y	4.87	66.85 66.97	16.57 16.68		130.0 130.0	
10592-	IEEE 802.11n (HT Mixed, 20MHz,	Z	<u>4.98</u> 5.15	67.50	16.99	0.46	130.0	± 9.6 %
AAB	MCS1, 90pc duty cycle)		0.10	07.50	10.99	0.40	130.0	1 9.0 %
		Y	5.04	67.19	16.69		130.0	
		Z	5.16	67.32	16.80		130.0	
10593-	IEEE 802.11n (HT Mixed, 20MHz,	X	5.09	67.46	16.91	0.46	130.0	±9.6 %
AAB	MCS2, 90pc duty cycle)							
		Y	4.96	67.12	16.59		130.0	
		Z	5.09	67.29	16.72		130.0	
10594-	IEEE 802.11n (HT Mixed, 20MHz,	X	5.14	67.60	17.04	0.46	130.0	± 9.6 %
AAB	MCS3, 90pc duty cycle)							
		Y	5.02	67.28	16.73		130.0	
		Z	5.14	67.42	16.84		130.0	
10595-	IEEE 802.11n (HT Mixed, 20MHz,	X	5.11	67.58	16.95	0.46	130,0	± 9.6 %
AAB	MCS4, 90pc duty cycle)						400.0	
		Y	4.99	67.24	16.64		130.0	
/		Z	5.12	67.40	16.76	0.40	130.0	100%
10596-	IEEE 802.11n (HT Mixed, 20MHz,	X	5.05	67.59	16.96	0.46	130.0	± 9.6 %
AAB	MCS5, 90pc duty cycle)		4.00	67.04	10.04		120.0	
		Y	4.93	67.24	16.64		130.0	
10507	IFFE 002 41p (HT Minod 2004)	ZX	5.06 5.00	67.40 67.53	16.76 16.87	0.46	130.0 130.0	± 9.6 %
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)		0.00	07.53	10.01	0.40	130.0	I. 9.0 %
AAD			4.88	67.16	16.53		130.0	
		Z	5.01	67.35	16.68		130.0	
10598-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.98	67.77	17.12	0.46	130.0	± 9.6 %
AAB	MCS7, 90pc duty cycle)		4.50		11.16	0.40	100.0	2 0.0 /0
		Y	4.86	67.40	16.79		130.0	
		Z	4.99	67.58	16.92		130.0	
10599-	IEEE 802.11n (HT Mixed, 40MHz,	X	5.65	67.74	17.05	0.46	130.0	± 9.6 %
AAB	MCS0, 90pc duty cycle)		0.00					- 010 /0
		Y	5.54	67.42	16.77		130.0	
		Z	5.65	67.58	16.87		130.0	
10600-	IEEE 802.11n (HT Mixed, 40MHz,	X	5.86	68.37	17.35	0.46	130.0	± 9.6 %
AAB	MCS1, 90pc duty cycle)							
		Y	5.74	68.03	17.05		130.0	
		Z	5.87	68.25	17.19		130.0	
10601-	IEEE 802.11n (HT Mixed, 40MHz,	X	5.71	67.99	17.17	0.46	130.0	± 9.6 %
AAB	MCS2, 90pc duty cycle)			*				
		Y	5.59	67.67	16.88		130.0	
		Z	5.71	67.84	16,99		130.0	
10602-	IEEE 802.11n (HT Mixed, 40MHz,	X	5.80	67.99	17.09	0.46	130.0	± 9.6 %
AAB	MCS3, 90pc duty cycle)							
		Y	5.68	67.66	16.80	<u> </u>	130.0	
		Z	5.80	67.87	16.93	<u> </u>	130.0	
10603-	IEEE 802.11n (HT Mixed, 40MHz,	X	5,88	68.27	17.35	0.46	130.0	± 9.6 %
AAB	MCS4, 90pc duty cycle)		6 70	07.07	47.07		400.0	
		Y	5.76	67.95	17.07		130.0	
40001		Z	5.91	68.22	17.22	0.40	130.0	1.0.0.0/
10604-	IEEE 802.11n (HT Mixed, 40MHz,	X	5.65	67.69	17.05	0.46	130.0	± 9.6 %
		1		1	ļ		400.0	
AAB	MCS5, 90pc duty cycle)		<u> </u>	67.00	1 40 70			
		Y	5.55	67.38	16.78		130.0	
AAB	MCS5, 90pc duty cycle)	Z	5.65	67.55	16.88	0.46	130.0	+06%
AAB 10605-	MCS5, 90pc duty cycle)					0.46		± 9.6 %
AAB	MCS5, 90pc duty cycle)	X	5.65 5.77	67.55 68.03	16.88 17.23	0.46	130.0 130.0	± 9.6 %
AAB 10605-	MCS5, 90pc duty cycle)	X Y	5.65 5.77 5.67	67.55 68.03 67.75	16.88 17.23 16.97	0.46	130.0 130.0 130.0	± 9.6 %
AAB 10605- AAB	MCS5, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	Z X Y Z	5.65 5.77 5.67 5.76	67.55 68.03 67.75 67.86	16.88 17.23 16.97 17.04		130.0 130.0 130.0 130.0	
AAB 10605- AAB 10606-	MCS5, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40MHz,	X Y	5.65 5.77 5.67	67.55 68.03 67.75	16.88 17.23 16.97	0.46	130.0 130.0 130.0	± 9.6 %
AAB 10605- AAB	MCS5, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	Z X Y Z	5.65 5.77 5.67 5.76	67.55 68.03 67.75 67.86	16.88 17.23 16.97 17.04		130.0 130.0 130.0 130.0	

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10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.81	66.46	16.48	0.46	130.0	± 9.6 %
		Y	4.70	66.13	16,17		130.0	
		Z	4.81	66.25	16.27	* ******	130.0	
10608- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	5.03	66.90	16.65	0.46	130.0	±9.6 %
		Y	4.90	66.55	16.34		130.0	
		Z	5.02	66.68	16.44		130.0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.92	66.79	16.52	0.46	130.0	± 9.6 %
		Y	4.79	66.41	16.18		130.0	
40040		Z	4.92	66.57	16.31		130.0	
10610- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.97	66.94	16.67	0.46	130.0	± 9.6 %
		Y	4.84	66.57	16.34	-	130.0	
10611-	IEEE 802.11ac WiFi (20MHz, MCS4,	Z	4.97	66.72	16.46		130.0	
AAB	90pc duty cycle)		4.89	66.78	16.54	0.46	130.0	± 9.6 %
		Y	4.76	66.39	16.20		130.0	
10612-	IEEE 802.11ac WiFI (20MHz, MCS5,	Z	4.89	66.57	16.33		130.0	
AAB	90pc duty cycle)	X	4.92	66.95	16.59	0.46	130.0	±9.6 %
		Y	4.78	66.55	16.24		130.0	
10613-	IEEE 802.11ac WiFi (20MHz, MCS6,	ZX	4.91	66.73	16.37	0.10	130.0	
AAB	90pc duty cycle)		4.93	66.87	16.50	0.46	130.0	± 9.6 %
·····	····	Y	4.79	66.46	16.14		130.0	
10614-	IEEE 802.11ac WiFi (20MHz, MCS7,	ZX	4.93	66.66	16.28	0.40	130.0	
AAB	90pc duty cycle)		4.85	67.03	16.71	0.46	130.0	± 9.6 %
		Y	4.72	66.63	16.36		130.0	
10615-	IEEE 802.11ac WiFI (20MHz, MCS8,	Z	4.85	66.82	16.49		130.0	
AAB	90pc duty cycle)	X	4.90	66.61	16.33	0.46	130.0	±9.6 %
		Y	4.76	66.22	15.98		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	Z X	<u>4.90</u> 5.47	66.40 66.98	16.12 16.66	0.46	130.0 130.0	± 9.6 %
/ / (0)		Y	5.36	66.66	16,38		130.0	
		Z	5.46	66.82	16.30		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.52	67.09	16.68	0.46	130.0	± 9.6 %
		Y	5.42	66.80	16.41		130.0	
•		Z	5.52	66.93	16.49		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	x	5.42	67.18	16.74	0.46	130.0	±9.6 %
		Y	5.31	66.84	16.45		130.0	
		Z	5.41	67.00	16.54		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.45	67.00	16.59	0.46	130.0	± 9.6 %
		Y	5.34	66.68	16.31		130.0	
		Z	5.44	66.82	16.40		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	Х	5.56	67.11	16.69	0.46	130.0	±9.6 %
		Y	5.44	66.75	16.39		130.0	
40004		Z	5.56	66.95	16.51		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.53	67.13	16.81	0.46	130.0	±9.6 %
	4	Y	5.42	66.81	16.54		130.0	
1007-		Z	5,53	66.98	16.63		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.53	67.27	16.87	0.46	130.0	±9.6 %
····		Y	5,43	66.97	16.61		130.0	
		Z	5.52	67.09	16.67		130.0	

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10623- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.42	66.86	16.56	0.46	130.0	±9.6 %
		Y	5.30	66.51	16.26		130.0	
		Z	5.42	66.73	16.39		130.0	
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.61	67.03	16.70	0.46	130.0	±9.6 %
		Y	5.50	66.72	16.43		130.0	
		Z	5.60	66.86	16.51		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	6.05	68.19	17.33	0.46	130.0	± 9.6 %
		Y	5.94	67.90	17.07		130.0	
		Z	6.01	67.90	17.08		130.0	
10626- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.72	66.99	16.57	0.46	130.0	± 9.6 %
		Y	5.63	66.69	16.31		130.0	
		Z	5.71	66.84	16.40		130.0	
10627- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.99	67.59	16.82	0.46	130.0	± 9.6 %
		Y	5,90	67.32	16.58		130.0	
		Z	5.97	67.39	16.62		130.0	
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.80	67.20	16.57	0.46	130.0	± 9.6 %
		Y	5.69	66.85	16.29		130.0	
		Z	5.79	67.05	16.40		130.0	<u> </u>
10629- AAB	IEEE 802.11ac WIFi (80MHz, MCS3, 90pc duty cycle)	X	5.88	67.25	16.59	0.46	130.0	± 9.6 %
		Y	5.77	66.92	16.31		130.0	
		Z	5.87	67.12 /	16.43		130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.51	69.31	17.62	0.46	130.0	± 9.6 %
		Y	6.37	68.86	17.28		130.0	
		Z	6.46	69.04	17.39		130.0	
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.31	68.81	17.54	0.46	130.0	± 9.6 %
		Y	6.17	68.39	17.24		130.0	
		Z	6.30	68.62	17.35		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.95	67.61	16.96	0.46	130.0	± 9.6 %
		Y	5.85	67.34	16.73		130.0	
	\\	Z	5,94	67.45	16.78		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.89	67.42	16.71	0.46	130.0	± 9.6 %
		Y	5.75	67.01	16.39		130.0	
		Z	5.89	67.32	16.56		130.0	
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.85	67.37	16.74	0.46	130.0	± 9.6 %
		Y	5.73	67.02	16.46		130.0	
		Z	5.86	67.27	16.59		130.0	ļ
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5,75	66.78	16.20	0.46	130.0	± 9.6 %
		Y	5.62	66.39	15.89		130.0	
		Z	5.75	66.67	16.05		130.0	
10636- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.13	67.38	16.66	0.46	130.0	± 9.6 %
		Y	6.05	67.09	16.42	<u> </u>	130.0	
		Z	6.12	67.24	16.50		130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.31	67.79	16.85	0.46	130.0	± 9.6 %
		Y	6.21	67.50	16.60		130.0	
		Z	6.29	67.65	16.68		130.0	
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.31	67.76	16.81	0.46	130.0	± 9.6 %
		Y	6.21	67.47	16.56		130.0	
		Z	6.29	67.60	16.64		130.0	

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10639-			T	···				
AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.30	67.76	16.86	0.46	130.0	± 9.6 %
		Y	6.20	67.43	16.59		130.0	
40040		Z	6.29	67.63	16.70		130.0	
10640- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.34	67.87	16.86	0.46	130.0	± 9.6 %
		Y	6.22	67.50	16.57		130.0	1
		Z	6.33	67.75	16.70		130.0	1
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	Х	6.33	67.58	16.73	0.46	130.0	± 9.6 %
		Y	6.23	67.29	16.48	]	130.0	
10010		Z	6.31	67.45	16.57	[	130.0	1
10642- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.39	67.88	17.04	0.46	130.0	± 9.6 %
		Y	6.28	67.58	16.79		130.0	
		Z	6.38	67.76	16.88		130.0	
10643- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.22	67.60	16.81	0.46	130.0	± 9.6 %
••••••		Y	6.12	67.28	16.54		130.0	
		Z	6.21	67.48	16.65		130.0	
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.47	68.34	17.21	0.46	130.0	± 9.6 %
		Y	6.34	67.93	16.89		130.0	<b> </b>
		Z	6.46	68.22	17.05		130.0	1
10645- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.86	69.01	17.48	0.46	130.0	± 9.6 %
		Y	6.84	68.95	17.35		130.0	
		Z	6.77	68.66	17.21		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	39.97	118.78	39.16	9.30	60.0	±9.6 %
		Y	36.64	117.33	38.51		60.0	
		Z	28.19	109.42	36.13	•• • • • • • • • • • • • • • • • • • • •	60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	43.22	121.45	40.07	9.30	60.0	± 9.6 %
		Y	37.61	118.78	39.06	,	60.0	
		Z	29.77	111.44	36.87		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.92	67.44	13.60	0.00	150.0	± 9.6 %
		Y	0.67	63.31	10.51		150.0	
		Z	0.80	64.88	12.09	·····	150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	4.65	69.66	17.99	2.23	80.0	± 9.6 %
		Y	4.35	68.72	17.32		80.0	
		Z	4.56	68.93	17.55			
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	5.05	68.61	17.89	2.23	80.0 80.0	± 9.6 %
		Y	4.81	67.90	17.37		80.0	
		Z	5.01	68.17	17.57		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.97	68.24	17.87	2.23	80.0	±9.6 %
		ΤΥ T	4.75	67.55	17.37		80.0	
		z	4.94	67.85	17.56		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	5.03	68.27	17.91	2.23	80.0	± 9.6 %
		Y	4.81	67.56	17.41		80.0	
10658-	Pulso Mayoform (2001 (= 4000)	Z	4.99	67.90	17.61		80.0	
AAA	Pulse Waveform (200Hz, 10%)	X	13.25	86.83	23.62	10.00	50.0	± 9,6 %
		Y	14.38	88.09	23.44		50.0	
40070		Z	11.47	83.98	22.82		50.0	
10659- AAA	Pulse Waveform (200Hz, 20%)	X	55.89	109.63	28.77	6.99	60.0	±9.6 %
		Y	73.21	111.71	28.47		60.0	······

10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	116.44	28.38	3.98	80.0	± 9.6 %
		Y	100.00	113.18	26.58		80.0	
		Z	100.00	116.19	28.39		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	X	100.00	118,35	27.71	2.22	100.0	± 9.6 %
		Y	100.00	112.59	24.89		100.0	
		Z	100.00	116.83	27.13		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	X	100.00	126.67	29.16	0.97	120.0	± 9.6 %
		Y	100.00	111.31	22.51		120.0	
		Z	100.00	120.40	26.63		120.0	

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

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

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

Client	PC Test
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Certificate	No: ES	3-3332	2 Aug	17	

## CALIBRATION CERTIFICATE

Object
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ES3DV3 - SN:3332

Calibration procedure(s)

QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes

Calibration date:

August 14, 2017

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 0		04-Apr-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02525)	Apr-18
Reference 20 dB Attenuator	SN: S5277 (20x)	07-Apr-17 (No. 217-02528)	Apr-18
Reference Probe ES3DV2	SN: 3013	31-Dec-16 (No. ES3-3013_Dec16)	Dec-17
DAE4	SN: 660	7-Dec-16 (No. DAE4-660_Dec16)	Dec-17
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	(AILA
Approved by:	Kalja Pokovic	Technical Manager	
	이 같은 것 같은 것 같은 것 같은 것은 것 같은 것 같은 것 같은 것		Acto 45
		1. Allow Conditions and an end of the data	Issued: August 16, 2017
This calibration certificat	e shall not be reproduced except in fu	ill without written approval of the lat	boratory.



S С S

Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura

Swiss Calibration Service

Accreditation No.: SCS 0108

8/27/17

#### Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst

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

Accreditation No.: SCS 0108

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

Glossary:	
TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization 9	9 rotation around an axis that is in the plane normal to probe axis (at measurement center),
	i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DACV evotors to align probe concervation the test of and in the evotors

#### 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).

# Probe ES3DV3

## SN:3332

Manufactured: Calibrated:

January 24, 2012 August 14, 2017

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ² ) ^A	1.00	0.93	0.88	± 10.1 %
DCP (mV) ^B	104.0	103.0	103.0	

#### **Modulation Calibration Parameters**

UID	Communication System Name		Α	В	С	D	VR	Unc ^E
			dB	dBõV		dB	mV	(k=2)
0	CW	X	0.0	0.0	1.0	0.00	192.0	±3.5 %
1		Y	0.0	0.0	1.0		194.3	
		Z	0.0	0.0	1.0		179.9	

Note: For details on UID parameters see Appendix.

#### **Sensor Model Parameters**

	C1	C2	α	T1	T2	T3	T4	T5	Т6
	fF	fF	V ^{−1}	ms.V ²	ms.V ⁻¹	ms	V⁻²	V⁻¹	
X	76.72	548.9	35.46	56.44	4.600	5.1	0.000	0.903	1.011
Y	44.78	323.3	35.85	29.01	2.529	5.1	0.000	0.546	1.009
Z	38.01	268.3	34.56	26.38	1.777	5.1	0.096	0.424	1.004

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

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

 ^B Numerical linearization parameter: uncertainty not required.
 ^E Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	6.81	6.81	6.81	0.72	1.31	± 12.0 %
835	41.5	0.90	6.64	6.64	6.64	0.80	1.21	± 12.0 %
1750	40.1	1.37	5.56	5.56	5.56	0.80	1.20	± 12.0 %
1900	40.0	1.40	5.33	5.33	5.33	0.76	1.26	± 12.0 %
2300	39.5	1.67	4.99	4.99	4.99	0.70	1.36	± 12.0 %
2450	39.2	1.80	4.68	4.68	4.68	0.63	1.48	± 12.0 %
2600	39.0	1.96	4.56	4.56	4.56	0.80	1.23	± 12.0 %

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

^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. Above 5 GHz frequency validity can be extended to  $\pm$  110 MHz.

validity can be extended to  $\pm$  110 MHz. ^F At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm$  10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to  $\pm$  5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. ^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

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

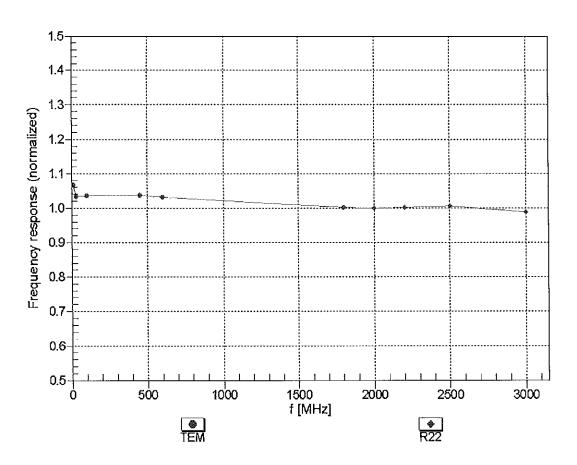
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	6.54	6.54	6.54	0.55	1.43	± 12.0 %
835	55.2	0.97	6.47	6.47	6.47	0.71	1.27	± 12.0 %
1750	53.4	1.49	5.16	5.16	5.16	0.80	1.22	± 12.0 %
1900	53.3	1.52	4.95	4.95	4.95	0.54	1.56	± 12.0 %
2300	52.9	1.81	4.74	4.74	4.74	0.80	1.30	± 12.0 %
2450	52.7	1.95	4.55	4.55	4.55	0.80	1.17	± 12.0 %
2600	52.5	2.16	4.43	4.43	4.43	0.80	1.12	± 12.0 %

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

^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. Above 5 GHz frequency validity can be extended to  $\pm$  110 MHz.

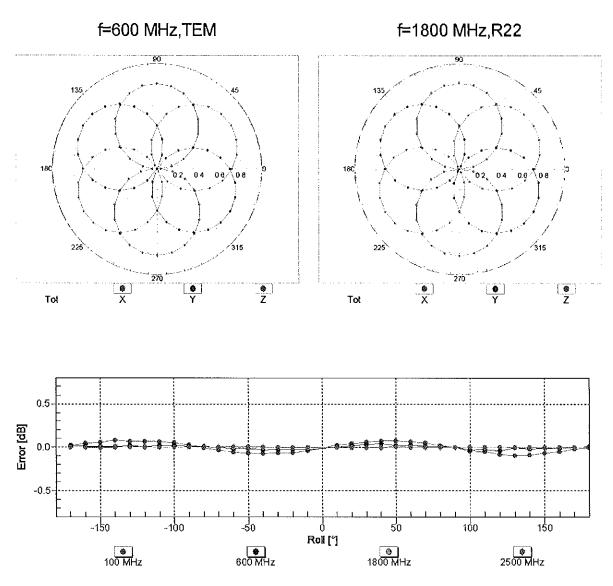
validity can be extended to  $\pm$  110 MHz. ^F At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm$  10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to  $\pm$  5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. ^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

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



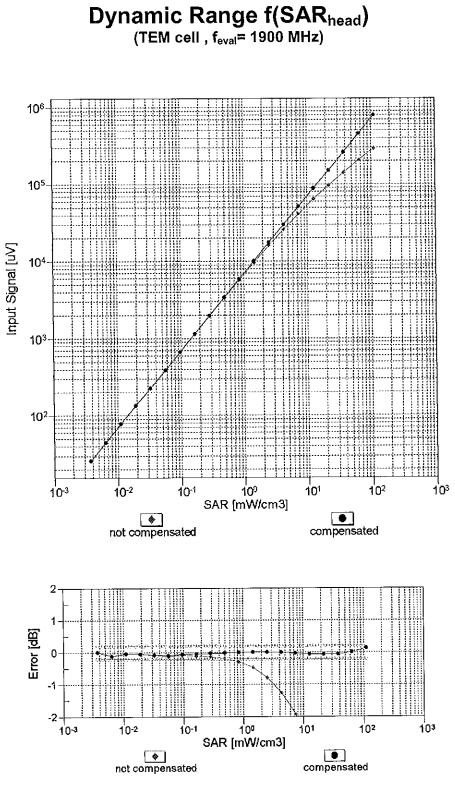
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

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

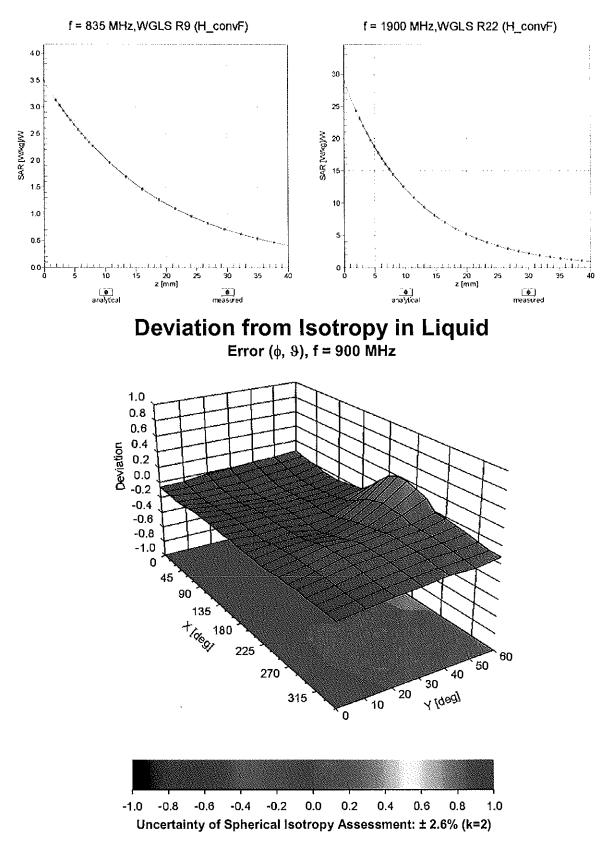


## Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

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



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



**Conversion Factor Assessment** 

#### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	50
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

## Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	192.0	± 3.5 %
		Y	0.00	0.00	1.00		194.3	
10010-	SAR Validation (Square, 100ms, 10ms)	ZX	0.00	0.00	1.00		179.9	
CAA	SALVandation (Square, 100ms, 10ms)		9.02	77.08	18.94	10.00	25.0	± 9.6 %
		Y	12.19	85.73	21.41		25.0	
10011-		Z	23.02	95.31	23.86	·	25.0	
CAB	UMTS-FDD (WCDMA)	X	1.60	76.05	19.77	0.00	150.0	±9.6 %
		Y	1.08	68.15	15.73		150.0	
10012-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	Z X	1.25	71.36	17.60		150.0	
CAB	Mbps)		1.52	68.53	17.98	0.41	150.0	± 9.6 %
		1 <	1.33	65.39	16.06		150.0	
10013-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	1.37	66.35	16.79		150.0	
CAB	OFDM, 6 Mbps)	X	5.37	67.71	17.82	1.46	150.0	± 9.6 %
		Y	5.07	67.50	17.57		150.0	
10021-	GSM-FDD (TDMA, GMSK)	Z	4.99	67.81	17.71	0.00	150.0	
DAC		X	11.16	81.48	22.11	9.39	50.0	± 9.6 %
		Y	61.59	115.23	32.13		50.0	
10023-	GPRS-FDD (TDMA, GMSK, TN 0)	Z X	100.00 11.07	122.78	33.35	0.57	50.0	
DAC				81.20	22.06	9.57	50.0	± 9.6 %
		Y	43.11	109.07	30.52		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	Z X	100.00 12.88	122.63 85.34	33.33 22.06	6.56	50.0 60.0	± 9.6 %
DAG		Y	100.00	120.15	31.36		60.0	
		Z	100.00	120.15	30.99	<u> </u>	60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	19.49	99.22	36.41	12.57	50.0	±9.6 %
		Y	15.67	100.74	38.44		50.0	
		Z	29.43	124.69	47.97		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	18.92	96.32	32.19	9.56	60.0	± 9.6 %
		Y	17.33	101.02	35.08		60.0	· · · · · · · · · · · · · · · · · · ·
		Z	24.89	113.23	39.81		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	24.19	95.70	24.33	4.80	80.0	± 9.6 %
		Y	100.00	119.30	30.03		80.0	
146		Z	100.00	120.36	30.17	1	80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	115.36	28.49	3.55	100.0	± 9.6 %
		Y	100.00	119.83	29.45		100.0	
10000		Z	100.00	122.10	30.18		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	16.27	93.78	30.32	7.80	80.0	± 9.6 %
		Y	11.67	92.24	30.90		80.0	
10030-	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Z X	13.37 15.68	97.80 88.86	33.46 22.54	5.30	80.0 70.0	± 9.6 %
CAA		Y	100.00	118.49	29.99	1	70.0	1
		Z	100.00	118.49	29.99		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	116.01	29.00	1.88	100.0	± 9.6 %
		Y	100.00	121.13	28.42		100.0	
		Z	100.00	121.13	30.32	1	100.0	

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10032-	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	119.38	27.36	1.17	100.0	± 9.6 %
CAA						1.17	100.0	1 3.0 70
		Y	100.00	126.54	29.58		100.0	
		Z	100.00	136.16	33.43		100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	13.27	88.21	24.10	5.30	70.0	± 9.6 %
		Y	20.91	99.02	27.13		70.0	
		Z	58.05	115.59	31.27		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	16.18	96.67	25.44	1.88	100.0	± 9.6 %
		Y	10.83	91.57	22.94		100.0	
10005		Z	52.78	113.06	28.24		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	12.45	95.04	24.79	1.17	100.0	± 9.6 %
		<u>Y</u>	5.49	83.70	20.10		100.0	
10036-	JEEE 202 45 1 Divetorth (0 DDDV( DU4)	Z	18.62	100.06	24.56		100.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	14.34	89.63	24.62	5.30	70.0	± 9.6 %
		Y	26.79	103.24	28.41		70.0	ļ
10037-	1666 902 15 1 Plusteath (0 DDDI/, D110)	Z	95.10	123.67	33.30	4	70.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	15.98	96.45	25.32	1.88	100.0	± 9.6 %
		Y	9.62	89.98	22.43	ļ	100.0	
10038-	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Z	37.04	108.35	27.08		100.0	
CAA		X	13.91	96.94	25.41	1.17	100.0	± 9.6 %
		Y	5.69	84.50	20.47		100.0	
10039-		Z	19.52	101.18	25.01		100.0	
CAB	CDMA2000 (1xRTT, RC1)	X	3.28	80.46	20.53	0.00	150.0	± 9.6 %
		Y	1.92	73.09	15.89		150.0	
10010		Z	3.08	80.13	18.22		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	11.60	82.51	21.10	7.78	50.0	± 9.6 %
		Y	100.00	118.83	31.00		50.0	
40044		Z	100.00	118.47	30.39		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.02	128.88	9.05	0.00	150.0	± 9.6 %
		Y	0.00	96.92	0.26		150.0	
		Z	0.02	60.00	140.78		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	10.75	78.30	22.86	13.80	25.0	± 9.6 %
		Y	15.61	90.30	26.65		25.0	
10040		Z	32.75	104.57	30.45		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	10.92	80.23	22.15	10.79	40.0	± 9.6 %
<u>.</u>		Y	20.87	96.36	27.22		40.0	
10056-	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	Z	64.62	115.72	32.06		40.0	
CAA	UMTS-TUD (TD-SCUMA, 1.28 Mcps)	X	11.51	81.76	22.84	9.03	50.0	± 9.6 %
		Y	15.28	90.93	25.77		50.0	
10058-	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	Z	25.94	101.11	28.65		50.0	
DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	14.19	91.88	29.00	6.55	100.0	± 9.6 %
		Y	8.68	86.53	28.09	<u> </u>	100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	Z X	9.12 2.01	89.51 72.72	29.70 19.70	0.61	100.0 110.0	± 9.6 %
<u> </u>		Y	1.51	67.00	47.40	ļ	440.0	
		T Z	1.51	67.62 68.78	17.16	<u> </u>	110.0	
10060-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	X	100.00		17.99	1 20	110.0	
CAB	Mbps)			126.29	32.07	1.30	110.0	± 9.6 %
		Y	100.00	132.71	34.39		110.0	
		Z	100.00	137.07	36.21		110.0	

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	36.66	112.50	30.92	2.04	110.0	± 9.6 %
		Y	11.07	98.15	27.76	i	110.0	
		Z	22.12	112.16	32.18		110.0	
10062- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	5.03	67.33	17.05	0.49	100.0	± 9.6 %
·		Y	4.77	67.19	16.82		100.0	
		Z	4.70	67.51	16.97		100.0	
10063- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	Х	5.09	67.56	17.23	0.72	100.0	± 9.6 %
		Y	4.81	67.36	16.96		100.0	
······		Z	4.74	67.68	17.11	·	100.0	
10064- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.47	67.93	17.49	0.86	100.0	± 9.6 %
		Y	5.10	67.63	17.20		100.0	
10000		Z	5.00	67.90	17.32		100.0	
10065- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	5.40	68.08	17.70	1.21	100.0	±9.6 %
		Y	5.02	67.68	17.39		100.0	
		Z	4.92	67.92	17.50		100.0	
10066- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.49	68.31	17.98	1.46	100.0	± 9.6 %
		Y	5.08	67.82	17.62		100.0	
		Z	4.97	68.04	17.73		100.0	
10067- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.84	68.47	18.45	2.04	100.0	± 9.6 %
		Y	5.42	68.13	18.14		100.0	
		Z	5.31	68.42	18.28		100.0	
10068- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	6.07	69.08	18.91	2.55	100.0	±9.6 %
		Y	5.53	68.32	18.44		100.0	
		Z	5.39	68.51	18.54		100.0	
10069- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	6.13	68.90	19.06	2.67	100.0	± 9.6 %
		Y	5.61	68.37	18.66		100.0	
		Z	5.48	68.58	18.76		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.56	68.08	18.26	1.99	100.0	±9.6 %
		Y	5.22	67.75	17.96		100.0	
		Z	5.14	68.03	18.10		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	5.71	68.87	18.66	2.30	100.0	±9.6 %
		Y	5.28	68.28	18.29		100.0	
		Z	5.18	68.53	18.42		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.93	69.43	19.17	2.83	100.0	±9.6 %
		Y	5.43	68.68	18.74		100.0	
		Z	5.32	68.95	18.89		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	6.04	69.75	19.56	3.30	100.0	± 9.6 %
		Y	5.49	68.80	18.99		100.0	
		Z	5.38	69.07	19.15		100.0	
10075- CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	6.35	70.65	20.23	3.82	90.0	± 9.6 %
		Y	5.63	69.18	19.44		90.0	
		Z	5.49	69.37	19.56		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	6.37	70.50	20.38	4.15	90.0	±9.6 %
		Y	5.68	69.10	19.63		90.0	
		Z	5.56	69.34	19.78		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	6.43	70.65	20.50	4.30	90.0	± 9.6 %
		Y	5.73	69.22	19.75		90.0	
		Z	5.61	69.48	19.91		90.0	

10081-				1 00	1			
CAB	CDMA2000 (1xRTT, RC3)	X	1.62	75.66	18.40	0.00	150.0	± 9.6 %
		Y	0.87	66.71	12.69		150.0	
10082-		Z	1.13	71.02	14.45		150.0	
CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	3.53	66.20	10.93	4.77	80.0	± 9.6 %
		Y	2.19	64.40	9.18		80.0	
		Z	1.96	64.15	8.74		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	12.79	85.25	22.06	6.56	60.0	± 9.6 %
		Y	100.00	120.23	31.42		60.0	
		Z	100.00	120.31	31.04		60.0	
10097- CAB	UMTS-FDD (HSDPA)	X	2.06	70.06	17.46	0.00	150.0	± 9.6 %
		Y	1.88	68.31	15.96		150.0	
		Z	2.04	70.38	16.98		150.0	
10098- CAB	UMTS-FDD (HSUPA, Subtest 2)	X	2.02	70.12	17.47	0.00	150.0	± 9.6 %
		Y	1.84	68.27	15.94		150.0	·
		Z	2.00	70.37	16.98	1	150.0	<b></b>
10099- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	18.80	96.14	32.13	9.56	60.0	± 9.6 %
		Y	17.28	100.91	35.04		60.0	
		Z	24.81	113.10	39.77		60.0	
10100- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.84	73.61	18.19	0.00	150.0	± 9.6 %
		Y	3.15	70.58	16.91		150.0	
		Z	3.25	71.69	17.61		150.0	
10101- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.58	69.11	16.83	0.00	150.0	± 9.6 %
		Y	3.26	67.74	16.10		150.0	···
		Z	3.26	68.29	16.47	· · · · · ·	150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.66	68.88	16.84	0.00	150.0	±9.6 %
		Y	3.36	67.71	16.19		150.0	
		Z	3.36	68.23	16.52		150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	9.75	77.78	20.81	3.98	65.0	± 9.6 %
		Y	8.78	79.16	21.83		65.0	
		Z	9.34	81.38	22.82		65.0	
10104- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	9.87	77.22	21.49	3.98	65.0	± 9.6 %
		Y	8.42	77.09	21.77	·	65.0	
<u> </u>		Ż	8.44	78.16	22.31		65.0	
10105- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	9.19	75.82	21.15	3.98	65.0	±9.6 %
		Y	8.07	76.20	21.66		65.0	
		Z	8.27	77.70	21.00	<u> </u>	65.0	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	3.37	72.69	18.02	0.00	150.0	± 9.6 %
		Y	2.75	69.90	16.77		150.0	
		Ż	2.82	71.09	17.51	<u> </u>	150.0	
10109- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.26	68.97	16.85	0.00	150.0	± 9.6 %
		Y	2.91	67.66	16.01		150.0	
40442		Z	2.92	68.36	16.42		150.0	
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.79	71.81	17.85	0.00	150.0	±9.6 %
		Y	2.23	69.12	16.39		150.0	
		Z	2.31	70.62	17.23	· · ·	150.0	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.96	69.58	17.27	0.00	150.0	± 9.6 %
		Y	2.63	68.64	16.31		150.0	
		Z	2.69	69.84	16.85		150.0	

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.36	68.71	16.80	0.00	150.0	± 9.6 %
		Y	3.03	67.66	16.06		150.0	
		Z	3.04	68.35	16.45		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	3.10	69.46	17.27	0.00	150.0	± 9.6 %
		Y	2.78	68.78	16.44	İ	150.0	
		Z	2.83	69.92	16.93		150.0	
10114- CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	Х	5.34	67.65	16.76	0.00	150.0	± 9.6 %
		Y	5.17	67.50	16.64		150.0	
		Z	5.08	67.64	16.74		150.0	
10115- CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.80	68.17	17.01	0.00	150.0	± 9.6 %
		Y	5.44	67.60	16.69		150.0	
		Z	5.33	67.71	16.77		150.0	
10116- CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.47	67.90	16.79	0.00	150.0	±9.6 %
		Y	5.25	67.68	16.65		150.0	
		Z	5.17	67.85	16.77		150.0	
10117- CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.34	67.65	16.78	0.00	150.0	± 9.6 %
		Y	5.12	67.32	16.56		150.0	
		Z	5.07	67.59	16.73		150.0	
10118- CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16- QAM)	X	5.79	68.04	16.95	0.00	150.0	± 9.6 %
		Y	5.52	67.82	16.81		150.0	
		Z	5.42	67.93	16.89		150.0	
10119- CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64- QAM)	X	5.44	67.84	16.78	0.00	150.0	± 9.6 %
0/10		Y	5.24	67.66	16.65		150.0	
		Z	5.17	67.84	16.77		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.72	68.86	16.76	0.00	150.0	± 9.6 %
		Y	3.39	67.72	16.10		150.0	
		Z	3.39	68.26	16.45		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.82	68.79	16.84	0.00	150.0	± 9.6 %
		Y	3.51	67.83	16.27		150.0	
		Z	3.51	68.36	16.60		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.57	71.96	17.88	0.00	150.0	±9.6 %
		Y	2.01	69.21	16.02		150.0	
		Z	2.13	71.18	16.95		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.89	70.53	17.42	0.00	150.0	±9.6 %
		Y	2.49	69.45	15.95		150.0	
		Z	2.62	71.11	16.52		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.69	68.52	16.05	0.00	150.0	± 9.6 %
		Y	2.23	66.92	14.20		150.0	
		Z	2.23	67.85	14.42		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	2.07	72.06	16.97	0.00	150.0	± 9.6 %
		Y	1.17	64.90	11.31		150.0	
		Z	1.08	64.84	10.72		150.0	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	4.64	77.66	18.95	0.00	150.0	± 9.6 %
		Y	1.89	66.33	11.57		150.0	
		Z	1.28	62.78	8.70		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	5.86	81.36	20.54	0.00	150.0	±9.6 %
		Y	2.26	68.50	12.73		150.0	
		Z		63.59				

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10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	3.27	69.03	16.89	0.00	150.0	± 9.6 %
		Y	2.92	67.72	16.06		150.0	╂────
		Ż	2.93	68.43	16.47		150.0	
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.37	68.76	16.84	0.00	150.0	± 9.6 %
		Y	3.04	67.71	16.11	· · · · · · · · · · · · · · · · · · ·	150.0	<u> </u>
		Z	3.05	68.41	16.50		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	9.88	78.98	21.39	3.98	65.0	± 9.6 %
		Y	9.54	82.00	22.98		65.0	1
		Z	10.52	85.01	24.21		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	9.59	77.49	21.44	3.98	65.0	± 9.6 %
		Y	8.05	77.33	21.53		65.0	
		Z	8.15	78.63	22.11		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	9.88	78.01	21.96	3.98	65.0	± 9.6 %
		Y	8.51	78.32	22.28		65.0	
		Z	8.64	79.68	22.87		65.0	1
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.88	72.43	18.21	0.00	150.0	± 9.6 %
		Y	2.28	69.53	16.65		150.0	
		Z	2.36	71.01	17.47		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.96	69.57	17.27	0.00	150.0	± 9.6 %
		Y	2.63	68.66	16.33		150.0	1
		Z	2.70	69.87	16.88		150.0	1
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	2.50	72.75	18.17	0.00	150.0	± 9.6 %
		Y	1.86	69.32	15.77		150.0	
		Z	2.00	71.53	16.72		150.0	· · · · · ·
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.58	69.56	16.46	0.00	150.0	± 9.6 %
		Y	2.07	67.52	14.21		150.0	
		Z	2.11	68.66	14.46		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	3.11	69.51	17.31	0.00	150.0	± 9.6 %
·		Y	2.79	68.85	16.49		150.0	
		Z	2.84	70.00	16.99		150.0	1
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.70	69.94	16.71	0.00	150.0	± 9.6 %
		Y	2.17	67.94	14.47	· · · ·	150.0	· · ·
		Z	2.21	69.05	14.68		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	3.17	70.70	17.47	0.00	150.0	±9.6 %
		Y	2.80	69.22	16.63		150.0	
		Z	2.84	70.27	17.24		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.25	68.62	16.80	0.00	150.0	± 9.6 %
		Y	2.93	67.68	16.03		150.0	<b> </b>
		Z	2.94	68.43	16.42		150.0	<u>↑</u>
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.34	68.54	16.80	0.00	150.0	± 9.6 %
·		Y	3.04	67.85	16.15		150.0	
10100		Z	3.05	68.62	16.54		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	4.29	71.19	20.11	3.01	150.0	± 9.6 %
·		Y	3.58	69.86	19.45		150.0	
		Z	3.34	69.55	19.26	· ·	150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	5.65	74.34	20.64	3.01	150.0	± 9.6 %
		Y	4.34	72.64	19.86		150.0	
		Z	3.97	72.28	19.65		150.0	

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	6.08	75.90	21.58	3.01	150.0	± 9.6 %
		Y	4.83	75.01	21.26		150.0	
		Ż	4.38	74.50	20.98		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	4.41	74.54	21.42	3.01	150.0	± 9.6 %
		Y	2.96	68.83	19.02		150.0	
		Z	2.72	67.99	18.57		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	6.70	80.82	23.44	3.01	150.0	± 9.6 %
		Y	3.91	74.17	21.18		150.0	
40474		Z	3.42	72.70	20.49		150.0	]
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	5.50	76.54	20.93	3.01	150.0	± 9.6 %
		Y	3.29	70.45	18.57		150.0	
40470	ITC TOD (00 FOMA ( DD 00 ML)	Z	2.94	69.58	18.14		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	25.76	101.07	30.32	6.02	65.0	± 9.6 %
		1	18.45	102.75	32.10		65.0	
10170		Z	20.86	107.70	33.85		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	19.21	92.24	26.33	6.02	65.0	± 9.6 %
		Y	26.29	105.14	31.12		65.0	
40474		Z	28.49	108.55	32.12		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	17.46	89.68	25.13	6.02	65.0	± 9.6 %
		Y	21.35	100.13	29.12		65.0	
40475		Z	22.92	103.28	30.05		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	4.34	74.12	21.15	3.01	150.0	±9.6 %
		Y	2.93	68.55	18.79		150.0	
		Z	2.70	67.77	18.36		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	6.71	80.84	23.45	3.01	150.0	±9.6%
		Y	3.92	74.20	21.19		150.0	
		Z	3.42	72.72	20.50		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	4.38	74.32	21.26	3.01	150.0	± 9.6 %
		Y	2.95	68.69	18.87		150.0	
		Z	2.71	67.87	18.43		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	6.59	80.50	23.29	3.01	150.0	± 9.6 %
		Y	3.89	74.02	21.09		150.0	
		Z	3.41	72.61	20.43		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	6.03	78.45	22.01	3.01	150.0	±9.6 %
		Y	3.58	72.24	19.76		150.0	
		Z	3.16	71.11	19.23		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	5.47	76.42	20.86	3.01	150.0	±9.6 %
		Y	3.28	70.40	18.53		150.0	
		Z	2.94	69.55	18.12		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	4.38	74.30	21.25	3.01	150.0	± 9.6 %
		Y	2.95	68.67	18.87		150.0	
		Z	2.71	67.86	18.43		150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	6.58	80.48	23.29	3.01	150.0	± 9.6 %
		Y	3.88	74.00	21.08		150.0	
		Z	3.40	72.59	20.42		150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	5.46	76.40	20.85	3.01	150.0	± 9.6 %
		Y	3.28	70.38	18.52		150.0	
		Z	2.93	69.53	18.11	I.	150.0	

10184-	LTE-FDD (SC-FDMA, 1 RB, 3 MHz,	X	4.39	74.34	21.27	3.01	150.0	± 9.6 %
CAD	QPSK)	<b> </b>						
		Y	2.96	68.71	18.89		150.0	
40405		Z	2.72	67.89	18.44		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	6.61	80.55	23.32	3.01	150.0	± 9.6 %
		Y	3.90	74.06	21.11		150.0	
		Z	3,42	72.64	20.45		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	5.49	76.46	20.88	3.01	150.0	± 9.6 %
		Υ	3.29	70.44	18.55		150.0	
40407		Z	2.95	69.59	18.14		150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	4.40	74.38	21.31	3.01	150.0	± 9.6 %
		Y	2.97	68.77	18.95		150.0	
10188-		Z	2.73	67.95	18.51		150.0	
CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	×	6.86	81.30	23.70	3.01	150.0	±9.6 %
		Y	4.01	74.64	21.46		150.0	
40400		Z	3.49	73.09	20.74		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	5.63	76.95	21.16	3.01	150.0	± 9.6 %
		Y	3.36	70.82	18.81		150.0	
40400		Z	3.00	69.90	18.37		150.0	
10193- CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	×	4.76	66.98	16.56	0.00	150.0	±9.6 %
		Y	4.53	66.89	16.29		150.0	· · · · ·
		Z	4.48	67.27	16.46		150.0	
10194- CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.98	67.40	16.66	0.00	150.0	± 9.6 %
		Y	4.70	67.19	16.42		150.0	
		Z	4.63	67.53	16.59		150.0	
10195- CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	5.02	67.38	16.65	0.00	150.0	± 9.6 %
		ΙΥ	4.74	67.22	16.44		150.0	·
<b>.</b>		Z	4.67	67.55	16.61		150.0	· · · · · · · · · · · · · · · · · · ·
10196- CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.79	67.12	16.61	0.00	150.0	± 9.6 %
		Y	4.53	66.94	16.30		150.0	· · · · · · · · · · · · · · · · · · ·
		Z	4.47	67.29	16.46		150.0	
10197- CAB	IEEE 802.11n (HT Mixed, 39 Mbps, 16- QAM)	X	5.00	67.41	16.67	0.00	150.0	± 9.6 %
		Y	4.71	67.21	16.43		150.0	······································
		Z	4.64	67.54	16.60		150.0	
10198- CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM)	X	5.02	67.39	16.66	0.00	150.0	± 9.6 %
		Y	4.74	67.23	16.45	·	150.0	
		Z	4.67	67.55	16.61		150.0	
10219- CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.75	67.15	16.58	0.00	150.0	± 9.6 %
		Y	4.48	66.96	16.27		150.0	···-
		Ζ	4.43	67.33	16.43		150.0	
10220- CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16- QAM)	X	5.00	67.42	16.67	0.00	150.0	± 9.6 %
		Y	4.70	67.17	16.42		150.0	·····
1		Z	4.63	67.50	16.58		150.0	
10221- CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64- QAM)	X	5.03	67.33	16.65	0.00	150.0	±9.6 %
		Y	4.75	67.16	16.44		150.0	
		Z	4.68	67.49	16.60		150.0	
10222- CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	х	5.32	67.70	16.79	0.00	150.0	± 9.6 %
CAB								
		Y	5.10	67.32	16.56		150.0	

10223- CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16- QAM)	X	5.69	67.90	16.90	0.00	150.0	± 9.6 %
		Y	5.41	67.62	16.73		150.0	·
		Z	5.32	67.79	16.83		150.0	
10224- CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64- QAM)	X	5.40	67.86	16.79	0.00	150.0	± 9.6 %
		Y	5.14	67.44	16.54		150.0	
		Z	5.08	67.68	16.69		150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	3.04	66.91	16.27	0.00	150.0	± 9.6 %
		Y	2.80	66.45	15.40		150.0	
		Z	2.79	67.13	15.62		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	19.62	92.68	26.54	6.02	65.0	± 9.6 %
		Y	28.14	106.53	31.60		65.0	
		Z	30.74	110.09	32.63		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	17.31	89.65	25.20	6.02	65.0	± 9.6 %
		Y	25.62	103.45	30.17	·	65.0	
		Z	27.71	106.63	31.05		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	25.12	101.14	30.46	6.02	65.0	± 9.6 %
		Y	22.85	107.40	33.58		65.0	
		Z	23.56	110.42	34.69		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	19.21	92.22	26.33	6.02	65.0	± 9.6 %
		Y	26.37	105.18	31.14		65.0	·
		Z	28.56	108.58	32.13		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	16.99	89.27	25.02	6.02	65.0	± 9.6 %
		Y	24.08	102.25	29.76		65.0	
		Z	25.76	105.25	30.60		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	24.47	100.57	30.23	6.02	65.0	± 9.6 %
		Y	21.54	106.10	33.13		65.0	
_		Z	22.10	109.02	34.22		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	19.21	92.23	26.33	6.02	65.0	± 9.6 %
		Y	26.35	105.17	31.13		65.0	
		Z	28.56	108.59	32.14		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	16.99	89.29	25.03	6.02	65.0	± 9.6 %
		Y	24.05	102.24	29.76		65.0	
		Z	25.73	105.25	30.60		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	23.75	99.87	29.94	6.02	65.0	± 9.6 %
		Y	20.44	104.88	32.66		65.0	
		Z	20.94	107.73	33.73		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	19.23	92.26	26.34	6.02	65.0	± 9.6 %
		Y	26.43	105.24	31.16		65.0	
		Z	28.68	108.68	32.16		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	17.05	89.34	25.04	6.02	65.0	± 9.6 %
		Y	24.28	102.38	29.79		65.0	
		Z	26.05	105.43	30.64		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	24.65	100.72	30.28	6.02	65.0	± 9.6 %
		Y	21.67	106.26	33.17		65.0	
		Z	22.28	109.22	34.28		65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	19.21	92.24	26.33	6.02	65.0	± 9.6 %
		Y	26.34	105.18	31.13		65.0	
		Z	28.55	108.60	32.14		65.0	

10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	17.00	89.31	25.04	6.02	65.0	± 9.6 %
		Y	24.00	102.22	29.75		65.0	
		Z	25.68	105.23	30.60		65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	24.60	100.69	30.26	6.02	65.0	± 9.6 %
		Y	21.61	106.21	33.16		65.0	
		Z	22.24	109.18	34.27		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	14.83	87.15	27.43	6.98	65.0	± 9.6 %
		Y	11.87	87.25	27.69		65.0	
		Z	12.27	89.81	28.71		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	14.03	85.86	26.85	6.98	65.0	± 9.6 %
		Y	11.07	85.73	27.03		65.0	
		Z	11.88	89.15	28.39		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	12.50	85.61	27.61	6.98	65.0	± 9.6 %
		Y	8.91	82.53	26.67		65.0	
100.000		Z	9.40	85.62	28.06		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	10.84	80.28	21.46	3.98	65.0	± 9.6 %
		Y	8.60	79.06	19.82		65.0	
		Z	7.30	76.79	18.14		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	10.80	80.00	21.33	3.98	65.0	± 9.6 %
		Y	8.32	78.30	19.47		65.0	
		Z	7.01	75.95	17.75		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	10.19	81.67	21.72	3.98	65.0	± 9.6 %
		Y	9.19	82.92	21.40		65.0	
		Z	10.28	85.26	21.82		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	9.24	78.33	20.99	3.98	65.0	± 9.6 %
		Y	7.42	77.41	19.87		65.0	
		Z	7.44	78.18	19.81		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	9.29	78.02	20.88	3.98	65.0	± 9.6 %
		Y	7.28	76.69	19.57		65.0	
		Ζ	7.17	77.21	19.40		65.0	}
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	10.52	82.18	22.29	3.98	65.0	± 9.6 %
		Y	10.94	86.37	23.51		65.0	
		Z	13.59	90.89	24.82		65.0	
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	9.84	79.38	22.27	3.98	65.0	± 9.6 %
		Y	8.59	80.24	22.59		65.0	
4005 /		Z	8.91	81.95	23.17		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	9.48	77.77	21.45	3.98	65.0	± 9.6 %
		Y	7.96	77.76	21.28		65.0	
40070		Z	8.06	79.03	21.69		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	10.35	81.23	22.32	3.98	65.0	± 9.6 %
<b></b>		Y	10.67	85.75	24.25		65.0	
10253-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	Z X	12.80 9.41	90.26 77.10	25.85 21.37	3.98	65.0 65.0	± 9.6 %
CAD	16-QAM)							ļ
		Y	7.89	76.83	21.30		65.0	ļ
10054		Z	7.98	78.11	21.82		65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	9.73	77.64	21.86	3.98	65.0	± 9.6 %
		Y	8.31	77.74	21.96		65.0	
		Z	8.42	79.03	22.48		65.0	

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10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	9.76	78.98	21.63	3.98	65.0	± 9.6 %
		Y	9.21	81.58	22.99		65.0	ł
		Z	10.10	84.50	24.17		65.0	<u> -</u>
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	10.36	79.33	20.55	3.98	65.0	± 9.6 %
		Y	6.89	75.10	17.29		65.0	1
· · · · · · · · · · · · · · · · · · ·		Z	5.38	71.84	15.02		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	10.33	78.98	20.36	3.98	65.0	±9.6 %
		Y	6.60	74.15	16.79		65.0	· · · · ·
		Z	5.14	70.90	14.50		65.0	1
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	9.84	80.89	21.06	3.98	65.0	± 9.6 %
		Y	6.93	77.80	18.67		65.0	
10050		Z	6.67	77.68	18.06		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	9.48	78.65	21.42	3.98	65.0	± 9.6 %
		Υ	7.89	78.48	20.85		65.0	1
		Z	8.05	79.67	21.05		65.0	1
10260- LTE-TDD (SC-F CAB 64-QAM)	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	9.52	78.48	21.39	3.98	65.0	± 9.6 %
		Y	7.84	78.08	20.70		65.0	
		Z	7.93	79.11	20.83		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	10.28	81.56	22.27	3.98	65.0	± 9.6 %
		Y	10.28	85.25	23.51		65.0	
		Z	12.40	89.51	24.85		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	9.83	79.35	22.25	3.98	65.0	± 9.6 %
		Y	8.56	80.18	22.55		65.0	
		Z	8.88	81.87	23.12		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	9.48	77.78	21.46	3.98	65.0	± 9.6 %
		Y	7.94	77.74	21.28		65.0	1
		Z	8.05	79.01	21.68	•	65.0	İ
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	10.32	81.15	22.28	3.98	65.0	± 9.6 %
		Y	10.57	85.55	24.15		65.0	
		Z	12.63	90.00	25.74		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	9.59	77.50	21.45	3.98	65.0	± 9.6 %
		Y	8.04	77.33	21.54		65.0	
		Z	8.14	78.63	22.11		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	9.89	78.01	21.96	3.98	65.0	± 9.6 %
		Y	8.50	78.31	22.27		65.0	
		Z	8.64	79.67	22.86		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	9.88	78.96	21.38	3.98	65.0	±9.6 %
		Y	9.52	81.96	22.96		65.0	
		Z	10.50	84.95	24.19		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	9.95	76.96	21.54	3.98	65.0	± 9.6 %
		Y	8.52	76.88	21.79		65.0	
10269-	LTE-TDD (SC-FDMA, 100% RB, 15	Z X	8.53 9.89	77.92 76.68	22.30 21.52	3.98	65.0 65.0	± 9.6 %
CAD	MHz, 64-QAM)	+	<b>A</b> + 2				L	
		Y	8.46	76.46	21.67		65.0	
40070		Z	8.45	77.44	22.15		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	9.66	77.24	20.86	3.98	65.0	±9.6 %
		Y	8.81	78.78	21.90		65.0	
		Z	9.16	80.58	22.73		65.0	

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10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.74	67.26	16.17	0.00	150.0	± 9.6 %
		Y	2.61	66.92	15.38		150.0	
		Z	2.66	67.94	15.80		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	2.05	72.21	18.03	0.00	150.0	± 9.6 %
		Y	1.65	68.50	15.87		150.0	1
		Z	1.80	70.74	17.08		150.0	
10277- CAA	PHS (QPSK)	X	8.03	72.61	16.76	9.03	50.0	± 9.6 %
		Υ	5.31	69.07	13.45		50.0	
		Z	4.52	67.70	12.08		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	10.53	79.27	21.29	9.03	50.0	± 9.6 %
		Y	8.21	77.64	19.35		50.0	
10070		Z	7.62	76.93	18.36		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	10.71	79.48	21.37	9.03	50.0	± 9.6 %
		Y	8.29	77.74	19.41		50.0	
40000		Z	7.68	77.01	18.42	<u> </u>	50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	2.46	75.92	18.53	0.00	150.0	± 9.6 %
		Y	1.45	69.17	13.90		150.0	
10004		Z	1.74	72.52	15.01		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	1.54	75.02	18.13	0.00	150.0	±9.6 %
		Y	0.85	66.46	12.55		150.0	
40000		Z	1.09	70.54	14.22		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	2.85	86.00	22.76	0.00	150.0	± 9.6 %
		Y	1.20	72.00	15.52		150.0	
		Z	3.37	86.48	20.58	<u> </u>	150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	6.08	98.98	27.50	0.00	150.0	± 9.6 %
		Y	2.38	81.80	19.81		150.0	
10005		Z	91.77	132.75	32.89		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	11.42	82.00	23.75	9.03	50.0	± 9.6 %
		Y	13.54	88.04	25.23		50.0	
	·····	Ζ	20.14	95.71	27.34		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	3.39	72.81	18.09	0.00	150.0	± 9.6 %
		Y	2.76	70.00	16.84		150.0	
		Z	2.84	71.20	17.58		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	2.33	72.89	17.78	0.00	150.0	± 9.6 %
		Y	1.54	67.89	13.96		150.0	
40000		Z	1.61	69.51	14.40		150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	4.61	76.96	19.19	0.00	150.0	±9.6 %
		Y	2.70	70.48	14.61		150.0	
40200		Z	1.96	66.96	12.10		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	3.49	71.59	16.26	0.00	150.0	± 9.6 %
		Y	1.91	65.24	11.36		150.0	
40004		Z	1.47	63.13	9.40		150.0	
10301- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	6.59	70.34	20.04	4.17	80.0	± 9.6 %
		Y	5.68	68.74	18.85		80.0	
10000		Z	5.70	69.67	19.26		80.0	
10302- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	7.28	71.73	21.22	4.96	80.0	± 9.6 %
		Y	6.10	69.04	19.43		80.0	
		Z	6.04	69.77	19.77		80.0	

10303- AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	7.35	72.51	21.62	4.96	80.0	± 9.6 %
	1014112, 040(A1V), FUSU)	Y	E 0.4	00.00		<u> </u>	l	
· · · · · ·			5.94	69.06	19.41		80.0	ļ
10304-	IEEE 802.16e WiMAX (29:18, 5ms,	Z X	5.89	69.82	19.76		80.0	
AAA	10MHz, 64QAM, PUSC)		6.69	70.97	20.39	4.17	80.0	± 9.6 %
		Y	5.59	68.42	18.66		80.0	
10205		Z	5.56	69.20	19.00		80.0	
10305- AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	14.75	90.64	29.58	6.02	50.0	± 9.6 %
		Y	10.18	84.38	26.41		50.0	
10000		Z	10.30	85.54	26.72		50.0	
10306- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	9.44	79.58	25.56	6.02	50.0	± 9.6 %
·		Y	7.33	75.98	23.40		50.0	
		Z	6.44	73.04	21.64		50.0	
10307- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	10.22	81.50	26.08	6.02	50.0	± 9.6 %
		Y	7.67	77.32	23.80		50.0	
		Z	7.49	77.77	23.93		50.0	
10308- IEEE 802.16e WIMAX (29:18, 10ms, AAA 10MHz, 16QAM, PUSC)	X	10.67	82.66	26.55	6.02	50.0	± 9.6 %	
		Y	7.93	78.29	24.23		50.0	
		Z	7.77	78.85	24.42	·	50.0	· · · · · · · · · · · · · · · · · · ·
10309- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	9.59	79.83	25.67	6.02	50.0	±9.6 %
		Y	7.43	76.26	23.57		50.0	····· ···
		Z	6.50	73.23	21.79	·	50.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	9.69	80.24	25.70	6.02	50.0	± 9.6 %
		Y	7.48	76.59	23.59		50.0	
		Z	7.35	77.19	23.79		50.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.76	71.88	17.62	0.00	150.0	± 9.6 %
		Y	3.12	69.22	16.46		150.0	
		Z	3.20	70.27	17.11		150.0	
10313- AAA	iDEN 1:3	X	8.04	75.55	17.71	6.99	70.0	± 9.6 %
		Y	8.89	81.65	20.17		70.0	
		Z	12.54	87.83	22.26		70.0	
10314- AAA	IDEN 1:6	X	10.06	79.94	21.38	10.00	30.0	± 9.6 %
		Y	12.66	89.89	25.48	·	30.0	
		Z	20.06	99.62	28.65		30.0	
10315- AAB	IEEE 802.11b WIFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.30	67.68	17.69	0.17	150.0	± 9.6 %
		Y	1.18	64.90	15.80		150.0	· · · · ·
		Ż	1.23	65.94	16.59		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	x	4.90	67.26	16.78	0.17	150.0	± 9.6 %
		Y	4.64	67.10	16.54	· · ·	150.0	
		Z	4.58	67.43	16.69		150.0	h <b>-</b>
10317- AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.90	67.26	16.78	0.17	150.0	± 9.6 %
		Y	4.64	67.10	16.54		150.0	
		Ż	4.58	67.43	16.69		150.0	
10400- AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	5.01	67.47	16.66	0.00	150.0	±9.6%
		Y	4.68	67.24	16.42		150.0	· · · · · · · · · · · · · · · · · · ·
	1	Z	4.61	67.58	16.60		150.0	
					1 10.00		100.0	
10401- AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.58	67.43	16.66	0.00	150.0	± 9.6 %
10401- AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)					0.00	150.0 150.0	± 9.6 %

10402- AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.90	68.07	16.80	0.00	150.0	± 9.6 %
		Y	5.66	67.67	16.59		150.0	
		Z	5.60	67.87	16.71		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	2.46	75.92	18.53	0.00	115.0	± 9.6 %
		Y	1.45	69.17	13.90		115.0	<u> </u>
		Z	1.74	72.52	15.01		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	2.46	75.92	18.53	0.00	115.0	±9.6 %
		Y	1.45	69.17	13.90		115.0	
		Z	1.74	72.52	15.01		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	38.96	111.40	30.01	0.00	100.0	± 9.6 %
		Y	96.63	125.46	32.24		100.0	
10110		Z	100.00	123.89	30.87		100.0	
10410- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	79.33	113.95	29.40	3.23	80.0	± 9.6 %
		Y	100.00	123.80	32.02		80.0	
40445		Z	100.00	124.20	31.74		80.0	
10415- AAA	IEEE 802.11b WiFl 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.01	64.64	16.23	0.00	150.0	± 9.6 %
		Y	1.03	63.36	14.90		150.0	
10110		Z	1.08	64.37	15.69		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.76	67.00	16.58	0.00	150.0	± 9.6 %
		Y	4.53	66.92	16.37		150.0	
40447		Z	4.48	67.28	16.53		150.0	
10417- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.76	67.00	16.58	0.00	150.0	± 9.6 %
		Y	4.53	66.92	16.37		150.0	
10110		Z	4.48	67.28	16.53		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.74	67.14	16.57	0.00	150.0	± 9.6 %
		Y	4.53	67.10	16.40		150.0	
		Z	4.48	67.49	16. <u>5</u> 9	-	150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.77	67.10	16.59	0.00	150.0	± 9.6 %
		Y	4.55	67.04	16.39		150.0	
		Z	4.49	67.42	16.58		150.0	
10422- AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.90	67.10	16.59	0.00	150.0	± 9.6 %
		Υ	4.66	67.03	16.41		150.0	1
		Z	4.60	67.38	16.58		150.0	
10423- AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	5.14	67.54	16.75	0.00	150.0	± 9.6 %
		Y	4.81	67.33	16.51		150.0	
101		Z	4.74	67.65	16.67		150.0	
10424- AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	×	5.04	67.47	16.71	0.00	150.0	± 9.6 %
		Y	4.74	67.28	16.49		150.0	
10105		Z	4.66	67.61	16.65		150.0	
10425- AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.61	67.86	16.86	0.00	150.0	± 9.6 %
		Y	5.36	67.59	16.69		150.0	
10.0-		Z	5.29	67.80	16.81		150.0	
10426- AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.62	67.87	16.86	0.00	150.0	±9.6 %
		Y	5.40	67.74	16.76	· · · · · ·	150.0	·
		Z	5.31	67.91	10.10		100.0	

V         5.39         67.63         167.60         150.0           10430.         LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)         X         4.60         70.33         18.46         0.00         150.0         ± 8.6 %           AB         Y         4.28         71.46         18.38         150.0         ± 8.6 %           IO431.         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)         X         4.56         67.66         16.75         0.00         150.0         ± 9.6 %           IO432.         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)         X         4.56         67.65         16.72         0.00         150.0         ± 9.6 %           IO432.         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)         X         4.83         67.55         16.72         0.00         150.0         ± 9.6 %           AB         Z         4.43         67.74         16.61         150.0         ± 9.6 %           AB         Z         4.43         67.74         16.61         150.0         ± 9.6 %           AB         Z         4.43         67.74         16.43         150.0         ± 9.6 %           AB         Z         4.68         67.64         16.75         0.00         150.0         ± 9.6 % <t< th=""><th>10427- AAA</th><th>IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)</th><th>X</th><th>5.65</th><th>67.92</th><th>16.88</th><th>0.00</th><th>150.0</th><th>± 9.6 %</th></t<>	10427- AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.65	67.92	16.88	0.00	150.0	± 9.6 %
10430- AAB         LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)         X         4,50         77.03         18,46         0.00         150.0         ± 9.6 %           10431- AAB         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)         X         4,26         77.32         18,66         150.0         ± 9.6 %           10431- AAB         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)         X         4,56         67.66         16.75         0.00         150.0         ± 9.6 %           10432- AAB         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)         X         4.63         67.55         16.72         0.00         150.0         ± 9.6 %           10432- AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)         X         4.63         67.54         16.61         150.0         ± 9.6 %           10433- LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)         X         5.06         67.54         16.67         150.0         ± 9.6 %           10434- MAA         W-CDMA (BS Test Model 1, 64 DPCH)         X         4.58         70.97         18.48         160.0         ± 9.6 %           10435- LTE-TDD (SC-FDMA, 1 RB, 20 MHz, CIPSK, UL Subframez, 3.4,7,8,9)         Y         70.07         112.66         29.06         3.23         80.0         ± 9.6 %           10447- LTE-TDD (SC-FDMA, 1 RB, 20 MHz, CIPSK, UL Subframez, 3.4,7,8,9)				5 30	67.62	46.70	·	450.0	
10430- AB       LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)       X       4.50       70.33       18.46       0.00       150.0       ± 9.6 %         10431- AB       LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)       X       4.56       67.60       16.75       0.00       150.0         10431- AB       LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)       X       4.56       67.50       16.75       0.00       150.0       ± 9.6 %         10432- AB       LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)       X       4.83       67.55       16.72       0.00       150.0       ± 9.6 %         10432- AB       LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)       X       5.06       67.54       16.75       0.00       150.0       ± 9.6 %         10433- AB       LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)       X       5.06       67.54       16.75       0.00       150.0       ± 9.6 %         10434- AAB       V-CDMA (BS Test Model 1, 64 DPCH)       X       4.56       70.97       18.48       0.00       150.0       ± 9.6 %         10444- AAA       W-CDMA (BS Test Model 1, 64 DPCH)       X       4.56       70.87       18.48       0.60       160.0       ± 9.6 %         10445- CHE-TDD (SC-FDMA, 1 RB, 20 MHz, AC       73.07       112.66       29.06       3.23       60.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
AAB         Find         Find <thf< td=""><td>10430-</td><td></td><td></td><td>* ···</td><td></td><td></td><td></td><td></td><td></td></thf<>	10430-			* ···					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $							0.00		± 9.6 %
10431.       LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)       X       4.56       67.66       16.75       0.00       150.0       ± 9.6 %         AAB       Y       4.19       67.71       16.63       160.0       150.0       ± 9.6 %         I0432.       LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)       X       4.83       67.55       16.72       0.00       150.0       ± 9.6 %         AAB       Y       4.50       67.35       16.43       160.0       ± 9.6 %         I0433.       LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)       X       5.06       67.74       16.75       0.00       150.0       ± 9.6 %         AAB       Y       4.56       67.32       16.61       150.0       ± 9.6 %         AAB       Y       4.58       70.37       18.48       0.00       150.0       ± 9.6 %         AAA       Y       4.39       72.38       18.32       150.0       ± 9.6 %         AAA       Y       4.39       72.38       18.48       150.0       ± 9.6 %         AAA       Y       100.00       123.60       31.93       80.0       ± 9.6 %         AAA       CIPPSK, UL Subframe=2,3.4.7,8.9       Y       100.00       123.60       31.64 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>150.0</td><td></td></t<>								150.0	
10431.       LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)       X       4.56       67.66       16.75       0.00       150.0       ± 9.6 %         AB       Z       4.12       67.51       16.33       160.0         10432.       LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)       X       4.83       67.55       16.72       0.00       150.0       ± 9.6 %         AAB       Y       4.50       67.35       16.61       160.0       ± 9.6 %         10433.       LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)       X       5.06       67.74       16.61       150.0       ± 9.6 %         AAB       Y       4.75       67.32       16.51       150.0       ± 9.6 %         I0434.       W-CDMA (BS Test Model 1, 64 DPCH)       X       4.58       70.79       18.48       0.00       150.0       ± 9.6 %         AAA       Y       4.39       72.38       18.32       160.0       ± 9.6 %       A.64       150.0       ± 9.6 %       A.64       150.0       ± 9.6 %       A.64       16.67       150.0       ± 9.6 %       A.64       150.0       ± 9.6 %       A.64       16.67       150.0       ± 9.6 %       A.64       150.0       ± 9.6 %       A.64       16.00       150.0       ± 9.6 %			Z	4.28	72.32	18.56		150.0	
Z         4.12         67.97         16.50         150.0           AAB         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)         X         4.83         67.55         16.72         0.00         150.0         ± 9.6 %           AAB         Z         4.43         67.36         16.43         150.0         ± 9.6 %           AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)         X         5.06         67.54         16.75         0.00         150.0         ± 9.6 %           AAB         Y         4.75         67.22         16.51         150.0         ± 9.6 %           AAA         Y         4.75         67.22         16.51         150.0         ± 9.6 %           AAA         Y         4.39         72.38         18.48         0.00         150.0         ± 9.6 %           AAA         Y         4.39         72.38         18.48         150.0         ± 9.6 %           AAC         QPSK, UL Subframe=2.34,7.8,9)         Y         100.00         123.89         31.64         80.0           10447-         LTE-FDD (OFDMA, 5 MHz, E-TM 3.1,         X         3.91         67.87         16.49         0.00         150.0         ± 9.6 %           AAB         LTE-FDD (OFDMA, 16 MHz, E-TM 3.		LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.56			0.00		± 9.6 %
Class- AAB         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)         X         4.82 4.83         67.55         16.72 16.73         0.00         150.0         ± 9.6 %           AAB         Y         4.60         67.35         16.73         16.83         150.0         ± 9.6 %           AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)         X         5.06         67.54         16.71         150.0         ± 9.6 %           AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)         X         5.06         67.54         16.71         150.0         ± 9.6 %           AAA         Y         4.76         67.32         16.61         150.0         ± 9.6 %           AAA         Y         4.39         72.38         18.48         0.00         150.0         ± 9.6 %           AAA         Y         4.39         72.38         18.48         150.0         ± 9.6 %           AAA         Z         4.42         73.07         112.66         29.06         3.23         80.0         ± 9.6 %           AAS         QPSK ULSubframe=2,34,78,9)         Y         100.00         123.86         31.64         80.0           10447-         LTE-FDD (OFDMA, 5 MHz, E-TM 3.1,         X         3.91         67.87         16.49<			Y	4.19	67.51	16.33		150.0	
10432. AAB         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)         X         4.83         67.55         16.72         0.00         156.0           10433. AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)         X         5.06         67.54         16.61         160.0         ±9.6 %           10433. AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)         X         5.06         67.54         16.75         0.00         150.0         ±9.6 %           10434- MAA         W-CDMA (BS Test Model 1, 64 DPCH)         X         4.58         70.97         18.48         0.00         150.0         ±9.6 %           AAA         W-CDMA (BS Test Model 1, 64 DPCH)         X         4.58         70.97         18.48         0.00         150.0         ±9.6 %           AAA         UTE-FDD (SC-FDMA, 1 R8, 20 MHz, AAC         QPSK, UL Subframe=2,3.4.7,8,9)         Y         73.07         112.66         29.06         3.23         80.0         ± 9.6 %           AAB         Clippin 44%)         Y         3.41         66.80         156.2         150.0           10444-         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, AB         X         4.36         67.43         16.81         0.00         150.0         ± 9.6 %           10444-         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, AB			Z	4.12	67.97	16.50			
Intersection         Z         4.43         67.74         16.61         150.0           AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)         X         5.06         67.54         16.75         0.00         150.0         ± 9.6 %           10434- AAB         W-CDMA (BS Test Model 1, 64 DPCH)         X         4.58         70.97         18.48         0.00         150.0         ± 9.6 %           10434- MAA         W-CDMA (BS Test Model 1, 64 DPCH)         X         4.58         70.97         18.48         0.00         150.0         ± 9.6 %           AAA         Y         4.33         72.38         18.32         150.0         ± 9.6 %           AAC         GPSK, UL Subframe=2,3.4,7,8,9)         Y         100.00         123.60         31.93         80.0         ± 9.6 %           AAC         GPSK, UL Subframe=2,3.4,7,8,9)         Y         100.00         123.60         31.93         80.0         ± 9.6 %           AAB         Clipping 44%)         Y         3.47         67.50         16.53         150.0         ± 9.6 %           AAB         Clipping 44%)         Y         3.47         67.63         16.61         0.00         150.0         ± 9.6 %           AAB         Clipping 44%)		LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X				0.00		± 9.6 %
Z         4.43         67.74         16.61         150.0           AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)         X         5.06         67.54         16.75         0.00         150.0         ± 9.6 %           AAB         Y         4.75         67.32         16.51         150.0         ± 9.6 %           10434-         W-CDMA (BS Test Model 1, 64 DPCH)         X         4.58         70.97         18.48         0.00         150.0         ± 9.6 %           AAA			Y	4.50	67.35	16.43		150.0	
10433- AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)         X         5.06         67.54         16.75         0.00         150.0         ± 9.6 %           10434- AAA         W-CDMA (BS Test Model 1, 64 DPCH)         X         4.88         67.64         16.67         150.0         ± 9.6 %           10434- AAA         W-CDMA (BS Test Model 1, 64 DPCH)         X         4.88         67.64         16.67         150.0         ± 9.6 %           10435- AAC         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)         Y         73.07         112.66         29.06         3.23         80.0         ± 9.6 %           10447- AAC         LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, AB         Y         100.00         123.86         31.64         80.0         ± 9.6 %           10447- CHping 44%)         Y         3.31         67.87         16.49         0.00         150.0         ± 9.6 %           10448- CHping 44%)         Y         3.47         67.50         15.53         150.0         ± 9.6 %           10448- CHping 44%)         Y         4.34         68.08         15.62         150.0         ± 9.6 %           10448- CHping 44%)         Y         4.32         67.77         16.33         150.0         ± 9.6 % <t< td=""><td></td><td></td><td>Z</td><td>4.43</td><td></td><td></td><td></td><td></td><td></td></t<>			Z	4.43					
Z         4.68         67.64         16.67         150.0           AAA         W-CDMA (BS Test Model 1, 64 DPCH)         X         4.58         70.97         18.48         0.00         150.0         ± 9.6 %           AAA         Y         4.39         72.38         18.42         150.0         ± 9.6 %           10435- AAC         QPSK, UL Subfram=2,3,4,7,8,9)         Y         100.00         123.60         31.93         60.0           10447- AAB         CIIpping 44%)         Y         3.91         67.67         16.49         0.00         150.0         ± 9.6 %           10447- AAB         CIIpping 44%)         Y         3.47         67.50         15.53         150.0         ± 9.6 %           10447- AAB         CIIpping 44%)         Y         3.44         68.08         15.62         150.0         ± 9.6 %           AAB         CIIppin 44%)         Y         4.36         67.43         16.61         0.00         150.0         ± 9.6 %           AAB         CIIppin 44%)         Y         4.427         67.58         16.63         0.00         150.0         ± 9.6 %           10449- AAB         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, CIIppin 44%)         Y         4.27         67.58		LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)					0.00		± 9.6 %
Z         4.68         67.64         16.67         150.0           AAA         W-CDMA (BS Test Model 1, 64 DPCH)         X         4.58         70.97         18.48         0.00         150.0         ± 9.6 %           AAA         Y         4.39         72.38         18.42         150.0         ± 9.6 %           10435- AAC         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subfram=2,3,4,7,8,9)         Y         100.00         123.60         31.93         60.0           10447- AAC         QPSK, UL Subfram=2,3,4,7,8,9)         Y         100.00         123.98         31.64         80.0         150.0         ± 9.6 %           10447- AAB         CIlpping 44%)         X         3.91         67.67         15.53         150.0         ± 9.6 %           AAB         CIlpping 44%)         Y         3.47         67.60         15.62         150.0         ± 9.6 %           AB         Cilppin 44%)         Y         4.04         67.29         16.20         150.0         ± 9.6 %           AB         Cilppin 44%)         Y         4.36         67.73         16.63         0.00         150.0         ± 9.6 %           AB         Cilppin 44%)         Y         4.32         67.58         16.51			Y	4.75	67.32	16.51		150.0	
10434- AAA         W-CDMA (BS Test Model 1, 64 DPCH)         X         4.58         70.97         18.48         0.00         150.0         ± 9.6 %           Idvada         X         4.39         72.38         18.32         150.0         10435-           Idvada         LTE-TDD (SC-FDMA, 1 RB, 20 MHz, GPSK, UL Subframe=2,3,4,7,8,9)         X         73.07         112.66         29.06         3.23         80.0         ± 9.6 %           AAC         GPSK, UL Subframe=2,3,4,7,8,9)         Y         100.00         123.60         31.93         80.0         ± 9.6 %           AAB         Clipping 44%)         Y         100.00         123.60         31.93         80.0         ± 9.6 %           10447-         LTE-FDD (OFDMA, 5 MHz, E-TM 3.1,         X         3.91         67.87         16.49         0.00         150.0         ± 9.6 %           10448-         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1,         X         4.36         67.43         16.61         0.00         150.0         ± 9.6 %           AAB         Clippin 44%)         Y         4.04         87.29         16.20         150.0         ± 9.6 %           AAB         Clippin 44%)         Y         4.32         67.77         16.38         150.0         150.0									
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		W-CDMA (BS Test Model 1, 64 DPCH)					0.00		± 9.6 %
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	MMA		+			<u> </u>			
10435- AAC       LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       Y       100.00       123.60       31.93       80.0       ± 9.6 %         10447- AAB       LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, AB       X       3.91       67.87       16.49       0.00       150.0       ± 9.6 %         10444- AAB       LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, AB       X       3.91       67.87       16.49       0.00       150.0       ± 9.6 %         10448- AAB       LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, AB       X       4.36       67.43       16.61       0.00       150.0       ± 9.6 %         10448- AAB       LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, AB       X       4.36       67.43       16.61       0.00       150.0       ± 9.6 %         10449- AAB       LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, AB       X       4.59       67.77       16.33       150.0       ± 9.6 %         10449- Clipping 44%)       Y       4.62       67.08       16.51       150.0       ± 9.6 %         AAB       Clipping 44%)       Y       4.52       67.08       16.54       150.0       ± 9.6 %         AAB       Clipping 44%)       Y       4.52       67.08       16.54       150.0       ± 9.6 %         AAB       Clipping 44%									
AAC         QPSK, UL Subframe=2,3,4,7,8,9         Y         100.00         123.60         31.93         80.0           10447-         LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, AAB         Z         100.00         123.80         31.64         80.0           10447-         LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, AAB         X         3.91         67.87         16.49         0.00         150.0         ± 9.6 %           10448-         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, AAB         X         4.36         67.43         16.61         0.00         150.0         ± 9.6 %           10449-         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, AAB         X         4.36         67.43         16.61         0.00         150.0         ± 9.6 %           10449-         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, AAB         X         4.59         67.37         16.63         0.00         150.0         ± 9.6 %           10450-         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, AAB         X         4.59         67.37         16.63         0.00         150.0         ± 9.6 %           AAB         Clipping 44%)         Y         4.32         67.18         16.36         150.0         ± 9.6 %           AAB         Clipping 44%)         Y         4.52         67.08         16.36								150.0	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)					3.23	80.0	± 9.6 %
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				100.00	123.60	31.93		80.0	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			Z	100.00	123.98	31.64			
Industa         Z         3.41         68.08         15.62         150.0           10448- AAB         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)         X         4.36         67.43         16.61         0.00         150.0         ± 9.6 %           10449- AAB         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)         Y         4.04         67.29         16.20         150.0         ± 9.6 %           AAB         Cliping 44%)         Y         4.02         67.37         16.63         0.00         150.0         ± 9.6 %           AAB         Cliping 44%)         Y         4.32         67.18         16.53         150.0         ± 9.6 %           10450- AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         X         4.75         67.28         16.61         150.0         ± 9.6 %           10450- AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         X         4.75         67.28         16.54         150.0         ± 9.6 %           AAB         Clipping 44%)         Y         4.52         67.08         16.35         0.00         150.0         ± 9.6 %           AAA         W-CDMA (BS Test Model 1, 64 DPCH, AAA         X         3.88         68.25         16.35         0.00         150.0			X	3.91	67.87	16.49	0.00		± 9.6 %
Industa         Z         3.41         68.08         15.62         150.0           10448- AAB         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)         X         4.36         67.43         16.61         0.00         150.0         ± 9.6 %           10449- AAB         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)         Y         4.04         67.29         16.20         150.0         ± 9.6 %           AAB         Cliping 44%)         Y         4.02         67.37         16.63         0.00         150.0         ± 9.6 %           AAB         Cliping 44%)         Y         4.32         67.18         16.53         150.0         ± 9.6 %           10450- AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         X         4.75         67.28         16.61         150.0         ± 9.6 %           10450- AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         X         4.75         67.28         16.54         150.0         ± 9.6 %           AAB         Clipping 44%)         Y         4.52         67.08         16.35         0.00         150.0         ± 9.6 %           AAA         W-CDMA (BS Test Model 1, 64 DPCH, AAA         X         3.88         68.25         16.35         0.00         150.0			Y	3.47	67.50	15.53		150.0	
10448- AAB         LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)         X         4.36         67.43         16.61         0.00         150.0         ± 9.6 %           I0449- AAB         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)         Y         4.04         67.29         16.20         150.0         ± 9.6 %           I0449- AAB         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)         X         4.59         67.37         16.63         0.00         150.0         ± 9.6 %           I0450- AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         X         4.59         67.37         16.62         0.00         150.0         ± 9.6 %           I0450- AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         X         4.75         67.29         16.62         0.00         150.0         ± 9.6 %           I0451- AAB         V-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         X         3.88         68.25         16.35         0.00         150.0         ± 9.6 %           I0456- AAA         V-CDMA (BS Test Model 1, 64 -QAM, AAA         Y         3.34         67.60         15.06         150.0         ± 9.6 %           I0456- AAA         IEEE 802.11ac WiFi (160MHz, 64-QAM, AAA         X         6.45         68.48         17.01         0.00         1									
Y         4.04         67.29         16.20         150.0           I0449- AAB         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)         X         4.59         67.37         16.63         0.00         150.0         ± 9.6 %           I0450- AAB         Y         4.32         67.18         16.33         150.0         ± 9.6 %           I0450- AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         X         4.75         67.29         16.62         0.00         150.0         ± 9.6 %           I0450- AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)         X         4.75         67.29         16.62         0.00         150.0         ± 9.6 %           I0451- AAA         W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         X         3.88         68.25         16.35         0.00         150.0         ± 9.6 %           I0451- AAA         W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         X         3.88         68.25         16.35         0.00         150.0         ± 9.6 %           I0455- AAA         IEEE 802.11ac WiFi (160MHz, 64-QAM, AAA         X         6.45         68.48         17.01         0.00         150.0         ± 9.6 %           I0455- AAA         IEEE 802.11ac WiFi (160MHz, 64-QAM, AAA         X         6.4							0.00		± 9.6 %
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			Y	4 04	67.29	16.20		150.0	
10449- AAB         LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)         X         4.59         67.37         16.63         0.00         150.0         ± 9.6 %           AAB         Y         4.32         67.18         16.33         150.0         10450-           10450- AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, AAB         X         4.75         67.29         16.62         0.00         150.0         ± 9.6 %           10450- AAB         LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, AAB         X         4.75         67.29         16.62         0.00         150.0         ± 9.6 %           AAB         Clipping 44%)         Y         4.52         67.08         16.36         150.0         ± 9.6 %           I0451- AAA         W-CDMA (BS Test Model 1, 64 DPCH, AAA         X         3.88         68.25         16.35         0.00         150.0         ± 9.6 %           I0456- AAA         V-CDMA (BS Test Model 1, 64 -QAM, AAA         X         6.45         68.48         17.01         0.00         150.0         ± 9.6 %           I0456- AAA         IEEE 802.11ac WiFi (160MHz, 64-QAM, AAA         X         6.45         68.48         17.01         0.00         150.0         ± 9.6 %           I0457- AAA         UMTS-FDD (DC-HSDPA)         X									
$\begin{array}{c c c c c c c c c c c c c c c c c c c $							0.00		±9.6 %
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			İΥ	4.32	67.18	16.33		150.0	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $									
$\begin{array}{c c c c c c c c c c c c c c c c c c c $							0.00		± 9.6 %
Z         4.47         67.43         16.54         150.0           10451- AAA         W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)         X         3.88         68.25         16.35         0.00         150.0         ± 9.6 %           AAA         Y         3.34         67.60         15.06         150.0         ± 9.6 %           AAA         Y         3.34         67.60         15.06         150.0         ± 9.6 %           IMAS         Y         3.34         67.60         15.06         150.0         ± 9.6 %           10456- AAA         IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)         X         6.45         68.48         17.01         0.00         150.0         ± 9.6 %           AAA         99pc duty cycle)         Y         6.28         68.20         16.88         150.0         ± 9.6 %           AAA         Y         3.87         65.68         16.38         0.00         150.0         ± 9.6 %           10457- AAA         UMTS-FDD (DC-HSDPA)         X         3.87         65.68         16.38         0.00         150.0         ± 9.6 %           AAA         Z         3.81         65.57         16.07         150.0         ± 9.6 %           AAA			Y	4.52	67.08	16.36		150.0	
10451- AAA       W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)       X       3.88       68.25       16.35       0.00       150.0       ± 9.6 %         AAA       Y       3.34       67.60       15.06       150.0       150.0       ± 9.6 %         Image: Clipping 44%)       Z       3.25       68.08       15.03       150.0       ± 9.6 %         10456- AAA       IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)       Y       6.45       68.48       17.01       0.00       150.0       ± 9.6 %         AAA       99pc duty cycle)       Y       6.28       68.20       16.88       150.0       ± 9.6 %         Image: Clipping 44%)       Y       6.28       68.20       16.88       150.0       ± 9.6 %         AAA       99pc duty cycle)       Y       6.28       68.20       16.88       150.0       ± 9.6 %         10457- AAA       UMTS-FDD (DC-HSDPA)       X       3.87       65.68       16.37       0.00       150.0       ± 9.6 %         AAA       CDMA2000 (1xEV-DO, Rev. B, 2       X       3.63       67.17       15.82       0.00       150.0       ± 9.6 %         AAA       Clipping 44%       Y       3.13       66.82       14.32       150.0					1				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			X		+		0.00		± 9.6 %
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			Y	3.34	67.60	15.06		150.0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$									
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $							0.00		± 9.6 %
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			Y	6.28	68.20	16.88		150.0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$									
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		UMTS-FDD (DC-HSDPA)	X	3.87			0.00		±9.6 %
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			Y	3.81	65.57	16.07		150.0	
10458- AAA       CDMA2000 (1xEV-DO, Rev. B, 2 carriers)       X       3.63       67.17       15.82       0.00       150.0       ± 9.6 %         Y       3.13       66.82       14.32       150.0       150.0       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
Z         2.97         66.93         13.99         150.0           10459- AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         X         4.79         65.36         16.37         0.00         150.0         ± 9.6 %           Y         4.24         65.27         15.46         150.0         150.0							0.00		±9.6 %
Z         2.97         66.93         13.99         150.0           10459- AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         X         4.79         65.36         16.37         0.00         150.0         ± 9.6 %           Y         4.24         65.27         15.46         150.0         150.0			Y	3.13	66.82	14.32		150.0	
10459- AAA         CDMA2000 (1xEV-DO, Rev. B, 3 carriers)         X         4.79         65.36         16.37         0.00         150.0         ± 9.6 %           Y         4.24         65.27         15.46         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±         150.0         ±									
Y 4.24 65.27 15.46 150.0							0.00		± 9.6 %
			l v	4 24	65.27	15.46		150.0	
			Z	4.13	65.72	15.38		150.0	

10460-	UMTS-FDD (WCDMA, AMR)	X	1.54	79.74	21.99	0.00	150.0	± 9.6 %
AAA			0.05		10.01			
		Y Z	0.95	69.06 73.20	16.64		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	118.00	19.00 30.59	3.29	150.0 80.0	± 9.6 %
		Y	100.00	127.27	33.69		80.0	
		Z	100.00	128.13	33.61		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.76	26.18	3.23	80.0	± 9.6 %
		Y	100.00	111.69	26.26		80.0	
40400		Z	100.00	109.78	24.92		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	61.06	101.21	23.94	3.23	80.0	± 9.6 %
		Y	100.00	108.45	24.70		80.0	
10464-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz,	Z X	9.38 100.00	82.48 116.66	17.38 29.84	3.23	80.0 80.0	± 9.6 %
AAA	QPSK, UL Subframe=2,3,4,7,8,9)							
		Y	100.00	125.35	32.64		80.0	
10465-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-	Z X	100.00	125.94	32.43		80.0	
AAA	QAM, UL Subframe=2,3,4,7,8,9)	Y		108.47	26.02	3.23	80.0	± 9.6 %
			100.00 44.16	<u>111.17</u> 100.58	26.01 22.73	<u> </u>	80.0	
10466-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-	X	44.10	96.75	22.73	3.23	80.0	100%
AAA	QAM, UL Subframe=2,3,4,7,8,9)	Y	42.99	98.93		3.23	80.0	± 9.6 %
		Z	42.99 5.89	77.61	22.41 15.84		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	116.79	29.90	3.23	80.0 80.0	± 9.6 %
		Y	100.00	125.60	32.75		80.0	
		Z	100.00	126.22	32.56		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.56	26.07	3.23	80.0	± 9.6 %
		Y	100.00	111.35	26.09		80.0	
		Z	61.74	104.33	23.64		80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	43.83	97.08	22.83	3.23	80.0	± 9.6 %
		Y	46.06	99.70	22.59		80.0	
10170		Z	6.04	77.89	15.93		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	116.81	29.90	3.23	80.0	±9.6 %
111		Y	100.00	125.63	32.76	<u> </u>	80.0	
10471-		Z	100.00	126.25	32.56		80.0	
AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.53	26.05	3.23	80.0	±9.6 %
		Y Z	100.00	111.31	26.07		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	61.64 44.10	104.26 97.14	23.61 22.84	3.23	80.0 80.0	± 9.6 %
		Y	46.39	99.73	22.59	<u> </u>	80.0	— —
		z	6.02	77.83	15.90	<u> </u>	80.0	
10473- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	116.79	29.89	3.23	80.0	±9.6 %
		Y	100.00	125.60	32.74		80.0	
		Z	100.00	126.23	32.55		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.54	26.05	3.23	80.0	±9.6 %
		Y	100.00	111.32	26.07		80.0	
40475		Z	60.20	104.02	23.55		80.0	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	43.66	97.03	22.81	3.23	80.0	±9.6 %
		Y	44.87	99.39	22.51		80.0	
		Z	5.94	77.72	15.87		80.0	

10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.43	26.00	3.23	80.0	±9.6 %
		Y	100.00	111.14	25.99		80.0	
		Z	48.11	101.47	22.92		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	43.04	96.84	22.76	3.23	80.0	± 9.6 %
		Y	43.24	98.94	22.39		80.0	
		Z	5.86	77.55	15.80		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	18.43	95.26	26.62	3.23	80.0	± 9.6 %
		Y	47.63	113.17	30.89		80.0	
10480-		Z	79.42	120.84	32.18		80.0	
AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	15.38	87.90	23.16	3.23	80.0	± 9.6 %
•		Y	35.80	101.51	25.84		80.0	
10481-	ITE TOD (00 EDMA SON DD 4 410)	Z	33.10	99.76	24.57		80.0	
AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	14.20	86.14	22.35	3.23	80.0	± 9.6 %
		Y	23.64	94.76	23.60		80.0	
10482-		Z	17.83	90.68	21.64		80.0	
AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	11.00	86.13	22.59	2.23	80.0	± 9.6 %
		Y	6.54	80.66	19.81		80.0	
10400		Z	10.00	86.91	21.46	0.00	80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	11.81	84.53	22.26	2.23	80.0	± 9.6 %
		<ul> <li>I</li> </ul>	9.59	82.56	20.08		80.0	
10404		Z	5.79	75.74	16.81	0.00	80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	11.16	83.50	21.93	2.23	80.0	± 9.6 %
		Y	8.15	80.18	19.27		80.0	
10105		Z	5.05	73.86	16.10		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	11.03	86.44	23.15	2.23	80.0	± 9.6 %
		Y	6.87	82.16	21.41		80.0	
10100		Z	9.87	88.59	23.41		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.95	77.02	19.85	2.23	80.0	± 9.6 %
		Y	4.98	74.27	17.96		80.0	
		Z	5.53	76.50	18.48		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	6.82	76.43	19.65	2.23	80.0	±9.6 %
		Y	4.85	73.54	17.65		80.0	
10488-	LTE-TDD (SC-FDMA, 50% RB, 10 MHz,	Z X	5.25 9.46	75.41 82.96	18.04 22.30	2.23	80.0 80.0	± 9.6 %
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	Y	5.99	78.96	21.12		80.0	l ·
		Z	6.82	82.33	21.12	1	80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.62	75.52	19.96	2.23	80.0	± 9.6 %
		Y	4.91	73.20	18.90		80.0	
	· · · · · · · · · · · · · · · · · · ·	Z	5.11	74.84	19.54		80.0	1
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.56	74.88	19.76	2.23	80.0	± 9.6 %
		Y	4.94	72.82	18.76		80.0	
		Z	5.10	74.33	19.33		80.0	
10491- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.98	78.75	20.93	2.23	80.0	± 9.6 %
		Y	5.56	75.73	20.09		80.0	ļ
		Z	5.84	77.68	21.00	L	80.0	l
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.52	73.74	19.47	2.23	80.0	± 9.6 %
		Y	5.01	71.66	18.63		80.0	
		Z	5.04	72.68	19.10		80.0	

10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.52	73.38	19.36	2.23	80.0	± 9.6 %
		Y	5.05	71.42	18.55	<u> </u>	80.0	
		Ż	5.05	72.38	18.97	<u> </u>	80.0	
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	9.30	81.16	21.56	2.23	80.0	± 9.6 %
		Y	6.19	77.55	20.65	·	80.0	1
		Z	6.63	79.81	21.68		80.0	· · · ·
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.75	74.54	19.74	2.23	80.0	± 9.6 %
		Y	5.09	72.10	18.86		80.0	
		Z	5.10	73.07	19.34		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.67	73.87	19.53	2.23	80.0	±9.6 %
		Y	5.11	71.66	18.72		80.0	
10.107		Z	5.11	72.57	19.16		80.0	
10497- LTE-TDD (SC AAA MHz, QPSK, U	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	9.58	84.00	21.43	2.23	80.0	± 9.6 %
		Y	4.27	74.12	16.39		80.0	
40400		Z	5.12	76.54	16.66		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.19	75.19	17.72	2.23	80.0	± 9.6 %
		Ý	2.33	64.39	11.23		80.0	· · · · · ·
1010-		Z	1.83	62.54	9.68		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.08	74.60	17.40	2.23	80.0	± 9.6 %
		Y	2.20	63.55	10.68		80.0	<u> </u>
		Z	1.70	61.64	9.07		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	9.69	83.97	22.50	2.23	80.0	± 9.6 %
		Y	6.26	80.30	21.12		80.0	
10501		Z	7.99	85.23	22.80		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.73	76.14	19.79	2.23	80.0	± 9.6 %
		Y	4.97	73.89	18.33		80.0	
40,000		Z	5.41	76.03	18.94		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.66	75.65	19.59	2.23	80.0	± 9.6 %
		Y	4.97	73.54	18.13		80.0	
40500		Z	5.36	75.51	18.67		80.0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	9.33	82.74	22.21	2.23	80.0	± 9.6 %
		Y	5.90	78.70	21.01		80.0	
10504-		Z	6.71	82.03	22.35		80.0	
AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.59	75.44	19.92	2.23	80.0	± 9.6 %
			4.88	73.08	18.84		80.0	
10505-	LTE-TDD (SC-FDMA, 100% RB, 5 MHz,	Z X	5.07	74.71	19.47		80.0	
AAC	64-QAM, UL Subframe=2,3,4,7,8,9)		6.52	74.79	19.72	2.23	80.0	±9.6 %
	<u> </u>	Y	4.91	72.71	18.70		80.0	
10506-	LTE-TDD (SC-FDMA, 100% RB, 10	Z X	5.07	74.21	19.27		80.0	
AAC	MHz, QPSK, UL Subframe=2,3,4,7,8,9)		9.21	81.00	21.50	2.23	80.0	± 9.6 %
		Y	6.13	77.37	20.57		80.0	
10507-	LTE-TDD (SC-FDMA, 100% RB, 10	Z	6.56	79.62	21.60		80.0	L
10507- AAC	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.72	74.48	19.71	2.23	80.0	± 9.6 %
		Y	5.07	72.03	18.82		80.0	

10509-       LTE-T         AAC       MHz, 0         10510-       LTE-T         AAC       MHz, 0         10511-       LTE-T         AAC       MHz, 0         10511-       LTE-T         AAC       MHz, 0         10511-       LTE-T         AAC       MHz, 0         10512-       LTE-T         AAC       MHz, 0         10513-       LTE-T         AAC       MHz, 0         10513-       LTE-T         AAC       MHz, 6         Subfra       Subfra         10513-       LTE-T         AAC       MHz, 6         Subfra       Subfra         10514-       LTE-T         AAC       MHz, 6         Subfra       Subfra         10514-       LTE-T         AAA       Mbps,         10515-       IEEE &         AAA       Mbps,         10517-       IEEE &         AAA       Mbps,         10518-       IEEE &         AAA       Mbps,         10519-       IEEE &	ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 15 QPSK, UL Subframe=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 15 16-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 15 64-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 20 QPSK, UL Subframe=2,3,4,7,8,9)	Y Z X Y Z X Y Z X Y Y	5.09 5.09 8.15 5.99 6.17 6.94 5.42 5.37 6.87	71.58 72.48 77.43 74.82 76.24 73.36 71.16 71.81	18.67 19.12 20.26 19.62 20.35 19.32 18.60	2.23	80.0 80.0 80.0 80.0 80.0 80.0 80.0	± 9.6 %
AAC         MHz, 0           10510-         LTE-T           AAC         MHz, 0           Subfra         -           10511-         LTE-T           AAC         MHz, 0           10511-         LTE-T           AAC         MHz, 0           10512-         LTE-T           AAC         MHz, 0           10512-         LTE-T           AAC         MHz, 0           10513-         LTE-T           AAC         MHz, 0           Subfra         -           10514-         LTE-T           AAC         Mbps,           10515-         IEEE 8           AAA         Mbps,           10517-         IEEE 8           AAA         Mbps,           10518-         IEEE 8           AAA         Mbps,           10519-         IEEE 8	QPSK, UL Subframe=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 15 16-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 15 64-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 20	X Y Z X Y Z X Y	8.15 5.99 6.17 6.94 5.42 5.37	72.48 77.43 74.82 76.24 73.36 71.16	19.12 20.26 19.62 20.35 19.32		80.0 80.0 80.0 80.0	
AAC         MHz, 0           10510-         LTE-T           AAC         MHz, 0           10511-         LTE-T           AAC         MHz, 0           10511-         LTE-T           AAC         MHz, 0           10511-         LTE-T           AAC         MHz, 0           10512-         LTE-T           AAC         MHz, 0           10513-         LTE-T           AAC         MHz, 0           10513-         LTE-T           AAC         MHz, 0           10513-         LTE-T           AAC         MHz, 6           Subfra         Subfra           10514-         LTE-T           AAC         MHz, 6           Subfra         Subfra           10515-         IEEE &           AAA         Mbps,           10516-         IEEE &           AAA         Mbps,           10518-         IEEE &           AAA         Mbps,           10519-         IEEE &	QPSK, UL Subframe=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 15 16-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 15 64-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 20	Y Z X Y Z X Y	5.99 6.17 6.94 5.42 5.37	74.82 76.24 73.36 71.16	19.62 20.35 19.32		80.0 80.0 80.0	
AAC         MHz, f Subfra           10511- AAC         LTE-T MHz, 6 Subfra           10512- AAC         LTE-T MHz, 6           10513- AAC         LTE-T MHz, 6           10513- AAC         LTE-T MHz, 6           10513- AAC         LTE-T MHz, 6           10514- AAC         LTE-T MHz, 6           10515- AAA         IEEE 8 Mbps,           10516- AAA         IEEE 8 Mbps,           10517- AAA         IEEE 8 Mbps,           10518- AAA         IEEE 8 Mbps,           10518- AAA         IEEE 8 Mbps,           10518- AAA         IEEE 8 Mbps,           10519-         IEEE 8 IEEE 8	16-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 15 64-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 20	Z X Y Z X Y	6.17 6.94 5.42 5.37	76.24 73.36 71.16	20.35 19.32	2.23	80.0	± 9.6 %
AAC         MHz, f Subfra           10511- AAC         LTE-T MHz, 6 Subfra           10512- AAC         LTE-T MHz, 6           10513- AAC         LTE-T MHz, 6           10513- AAC         LTE-T MHz, 6           10514- AAC         LTE-T MHz, 6           10515- AAC         LTE-T MHz, 6           10515- AAA         Mbps,           10516- AAA         IEEE 8 Mbps,           10517- AAA         IEEE 8 Mbps,           10518- AAA         IEEE 8 Mbps,           10518- AAA         IEEE 8 Mbps,           10519- IEEE 8         IEEE 8	16-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 15 64-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 20	X Y Z X Y	6.94 5.42 5.37	73.36 71.16	19.32	2.23		±9.6 %
AAC         MHz, f Subfra           10511- AAC         LTE-T MHz, 6 Subfra           10512- AAC         LTE-T MHz, 6           10513- AAC         LTE-T MHz, 6           10513- AAC         LTE-T MHz, 6           10513- AAC         LTE-T MHz, 6           10514- AAC         LTE-T MHz, 6           10515- AAA         IEEE 8 Mbps,           10516- AAA         IEEE 8 Mbps,           10517- AAA         IEEE 8 Mbps,           10518- AAA         IEEE 8 Mbps,           10518- AAA         IEEE 8 Mbps,           10518- AAA         IEEE 8 Mbps,           10519-         IEEE 8 IEEE 8	16-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 15 64-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 20	Y Z X Y	5.42 5.37	71.16		2.23	80.0	± 9.6 %
AAC         MHz, 6           Subfra         -           10512-         LTE-T           AAC         MHz, 0           10513-         LTE-T           AAC         MHz, 0           10513-         LTE-T           AAC         MHz, 0           10513-         LTE-T           AAC         MHz, 6           Subfra         -           10514-         LTE-T           AAC         MHz, 6           Subfra         -           10515-         IEEE 8           AAA         Mbps,           10516-         IEEE 8           AAA         Mbps,           10517-         IEEE 8           AAA         Mbps,           10518-         IEEE 8           AAA         Mbps,           10518-         IEEE 8           AAA         Mbps,           10519-         IEEE 8	64-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 20	Z X Y	5.37		18.60		1 1	//
AAC         MHz, 6           Subfra	64-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 20	X Y		71.81			80.0	Í
AAC         MHz, 6           Subfra         -           10512-         LTE-T           AAC         MHz, 0           10513-         LTE-T           AAC         MHz, 0           10513-         LTE-T           AAC         MHz, 0           10513-         LTE-T           AAC         MHz, 6           Subfra         -           10514-         LTE-T           AAC         MHz, 6           Subfra         -           10515-         IEEE 8           AAA         Mbps,           10516-         IEEE 8           AAA         Mbps,           10517-         IEEE 8           AAA         Mbps,           10518-         IEEE 8           AAA         Mbps,           10518-         IEEE 8           AAA         Mbps,           10519-         IEEE 8	64-QAM, UL ame=2,3,4,7,8,9) TDD (SC-FDMA, 100% RB, 20	Y	6.87		18.97		80.0	
AAC         MHz, 0           10513-         LTE-TI           AAC         MHz, 0           10513-         LTE-TI           AAC         MHz, 0           10514-         LTE-TI           AAC         MHz, 0           10515-         IEEE &           AAA         Mbps,           10516-         IEEE &           AAA         Mbps,           10517-         IEEE &           AAA         Mbps,           10518-         IEEE &           AAA         Mbps,           10518-         IEEE &           AAA         Mbps,           10519-         IEEE &				72.87	19.19	2.23	80.0	± 9.6 %
AAC         MHz, 0           10513-         LTE-TI           AAC         MHz, 0           10513-         LTE-TI           AAC         MHz, 0           Subfra         Subfra           10514-         LTE-T           AAC         MHz, 6           Subfra         Subfra           10515-         IEEE &           AAA         Mbps,           10516-         IEEE &           AAA         Mbps,           10517-         IEEE &           AAA         Mbps,           10518-         IEEE &           AAA         Mbps,           10518-         IEEE &           AAA         Mbps,           10519-         IEEE &			5.44	70.83	18.50		80.0	
AAC         MHz, 0           10513-         LTE-TI           AAC         MHz, 0           10513-         LTE-TI           AAC         MHz, 0           Subfra         Subfra           10514-         LTE-T           AAC         MHz, 6           Subfra         Subfra           10515-         IEEE &           AAA         Mbps,           10516-         IEEE &           AAA         Mbps,           10517-         IEEE &           AAA         Mbps,           10518-         IEEE &           AAA         Mbps,           10518-         IEEE &           AAA         Mbps,           10519-         IEEE &		Ζ	5.39	71.45	18.85		80.0	
AAC         MHz, f           10514-         LTE-T           AAC         MHz, f           Subfra         Subfra           10515-         IEEE &           10516-         IEEE &           AAA         Mbps,           10517-         IEEE &           10518-         IEEE &           10518-         IEEE &           10518-         IEEE &           AAA         Mbps,           10518-         IEEE &           AAA         Mbps,           10518-         IEEE &           AAA         Mbps,           I0519-         IEEE &		X	9.41	80.22	21.09	2.23	80.0	±9.6 %
AAC         MHz, f           10514-         LTE-T           AAC         MHz, f           Subfra         Subfra           10515-         IEEE &           10516-         IEEE &           AAA         Mbps,           10517-         IEEE &           10518-         IEEE &           10518-         IEEE &           10518-         IEEE &           AAA         Mbps,           10518-         IEEE &           AAA         Mbps,           10518-         IEEE &           AAA         Mbps,           I0519-         IEEE &		Y	6.52	76.83	20.24		80.0	
AAC         MHz, f           10514-         LTE-T           AAC         MHz, f           Subfra         Subfra           10515-         IEEE &           10516-         IEEE &           AAA         Mbps,           10517-         IEEE &           10518-         IEEE &           10518-         IEEE &           10518-         IEEE &           AAA         Mbps,           10518-         IEEE &           AAA         Mbps,           10518-         IEEE &           AAA         Mbps,           I0519-         IEEE &		Z	6.84	78.58	21.10		80.0	
AAC MHz, 6 Subfra 10515- AAA Mbps, 10516- AAA Mbps, 10517- 10517- IEEE 6 AAA Mbps, 10518- IEEE 6 AAA Mbps, 10518- IEEE 6 AAA Mbps,	TDD (SC-FDMA, 100% RB, 20 16-QAM, UL ame=2,3,4,7,8,9)	X	7.03	74.19	19.61	2.23	80.0	± 9.6 %
AAC MHz, 6 Subfra 10515- AAA Mbps, 10516- IEEE 6 AAA Mbps, 10517- IEEE 6 AAA Mbps, 10518- IEEE 6 AAA Mbps, 10518- IEEE 6 AAA Mbps,		Y	5.36	71.56	18.76		80.0	
AAC MHz, 6 Subfra 10515- AAA Mbps, 10516- IEEE 6 AAA Mbps, 10517- IEEE 6 AAA Mbps, 10518- IEEE 6 AAA Mbps, 10518- IEEE 6 AAA Mbps,		Z	5.31	72.21	19.14		80.0	
AAA Mbps, 10516- AAA Mbps, 10517- 10517- 10518- 10518- AAA Mbps, 10518- 10518- 10518- 10519- 10519- 10518-	TDD (SC-FDMA, 100% RB, 20 64-QAM, UL ame=2,3,4,7,8,9)	X	6.85	73.42	19.39	2.23	80.0	± 9.6 %
AAA Mbps, 10516- AAA Mbps, 10517- 10517- 10518- 10518- AAA Mbps, 10518- 10518- 10518- 10519- 10519- 10518- 10519- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518- 10518		Υ	5.32	71.03	18.59		80.0	Î
AAA Mbps, 10516- AAA Mbps, 10517- 10517- 10518- 10518- AAA Mbps, 10518- 10518- 10518- 10519- 10519- 10518-		Z	5.27	71.61	18.94		80.0	
AAA Mbps, 10517- IEEE & AAA Mbps, 10518- IEEE & AAA Mbps, 10519- IEEE &	802.11b WiFi 2.4 GHz (DSSS, 2 , 99pc duty cycle)	X	0.98	65.05	16.44	0.00	150.0	± 9.6 %
AAA Mbps, 10517- IEEE & AAA Mbps, 10518- IEEE & AAA Mbps, 10519- IEEE &		Y	1.00	63.56	14.97		150.0	
AAA Mbps, 10517- IEEE & AAA Mbps, 10518- IEEE & AAA Mbps, 10519- IEEE &		Z	1.05	64.66	15.82		150.0	L
AAA Mbps, 10518- AAA Mbps, 10519- IEEE (	802.11b WiFi 2.4 GHz (DSSS, 5.5 , 99pc duty cycle)	X Y	100.00 0.67	168.11	45.87	0.00	150.0	±9.6 %
AAA Mbps, 10518- AAA Mbps, 10519- IEEE (		Z	1.04	71.83 80.65	18.15 22.82		150.0	
AAA Mbps, 10518- AAA Mbps, 10519- IEEE 8	802.11b WiFi 2.4 GHz (DSSS, 11	X	0.96	70.11	18.69	0.00	150.0	
AAA Mbps, 10519- IEEE 8	, 99pc duty cycle)	Ŷ	0.85	65.61	15.70	0.00	150.0 150.0	± 9.6 %
AAA Mbps, 10519- IEEE 8	• · · · · · · · · · · · · · · · · · · ·	z	0.93	67.57	17.12		150.0	
	802.11a/h WiFi 5 GHz (OFDM, 9 , 99pc duty cycle)	X	4.76	67.10	16.57	0.00	150.0	±9.6 %
		Y	4.53	67.01	16.35		150.0	
		Z	4.47	67.38	16.53		150.0	
	802.11a/h WiFi 5 GHz (OFDM, 12 , 99pc duty cycle)	X	5.02	67.44	16.72	0.00	150.0	±9.6 %
		Y	4.70	67.22	16.46		150.0	
		Z	4.63	67.55	16.62		150.0	
	802.11a/h WiFi 5 GHz (OFDM, 18 , 99pc duty cycle)	X	4.86	67.45	16.66	0.00	150.0	±9.6 %
		Y	4.55	67.17	16.38		150.0	
		Z	4.48	67.50	16.54	0.00	150.0	100%
	802.11a/h WiFi 5 GHz (OFDM, 24 , 99pc duty cycle)	X	4.79	67.47	16.66	0.00	150.0	± 9.6 %
		Z	4.48	67.16	16.36		150.0	
10522- IEEE 8	, applied uty cycle)	X	4.42	67.48	16.53	0.00	150.0	+069/
		Y Y	4.82	67.32 67.29	16.63 16.46	0.00	150.0	± 9.6 %
·····	, 99pc duty cycle) 802.11a/h WiFi 5 GHz (OFDM, 36 , 99pc duty cycle)	Z	4.55	67.62	16.63		150.0 150.0	

10523- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.69	67.31	16.53	0.00	150.0	± 9.6 %
		Y	4.44	67.17	16.32		150.0	
		Z	4.39	67.59	16.54	<u> </u>	150.0	
10524- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	Х	4.78	67.32	16.64	0.00	150.0	± 9.6 %
		Y	4.49	67.20	16.43		150.0	
		Z	4.42	67.57	16.62		150.0	
10525- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.72	66.35	16.23	0.00	150.0	± 9.6 %
		Y	4.49	66.26	16.02		150.0	
		Z	4.45	66.66	16.22		150.0	
10526- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.95	66.78	16.37	0.00	150.0	± 9.6 %
		Y	4.64	66.60	16.16		150.0	
40507		Z	4.58	66.96	16.34		150.0	
10527- IEEE 802.11ac AAA 99pc duty cycle	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.86	66.80	16.35	0.00	150.0	± 9.6 %
		Y	4.57	66.56	16.10		150.0	
40500		Z	4.51	66.93	16.29		150.0	
10528- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.89	66.82	16.38	0.00	150.0	±9.6 %
		Y	4.58	66.57	16.13		150.0	
10500		Z	4.52	66.94	16.32		150.0	
10529- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.89	66.82	16.38	0.00	150.0	± 9.6 %
		Y	4.58	66.57	16.13		150.0	
40504		Z	4.52	66.94	16.32		150.0	
10531- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.92	67.00	16.42	0.00	150.0	± 9.6 %
·		Y	4.57	66.66	16.14		150.0	
		Z	4.49	66.99	16.31		150.0	
10532- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.76	66.93	16.40	0.00	150.0	± 9.6 %
		Y	4.43	66.51	16.07		150.0	
		Z	4.37	66.85	16.25		150.0	
10533- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.90	66.82	16.35	0.00	150.0	± 9.6 %
		Y	4.59	66.64	16.13		150.0	
		Z	4.53	67.03	16.33		150.0	· · · · · ·
10534- 	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.38	66.99	16.41	0.00	150.0	± 9.6 %
		Y	5.14	66.65	16.20		150.0	
		Z	5.08	66.89	16.34		150.0	
10535- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.47	67.13	16.46	0.00	150.0	± 9.6 %
		Y	5.21	66.87	16.30		150.0	
40500		Z	5.13	67.05	16.42		150.0	
10536- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.32	67.12	16.45	0.00	150.0	± 9.6 %
		Y	5.08	66.81	16.25		150.0	
		Z	5.02	67.06	16.40		150.0	
10537- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.39	67.07	16.42	0.00	150.0	± 9.6 %
		Y	5.13	66.76	16.23		150.0	
10500		Z	5.08	67.03	16.39		150.0	
10538- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.52	67.19	16.52	0.00	150.0	± 9.6 %
		Y	5.21	66.77	16.27		150.0	
		Z	5.14	66.99	16.41	<u> </u>	150.0	·
10540- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.40	67.10	16.49	0.00	150.0	± 9.6 %
		Y	5.15	66.79	16.30		150.0	
		Z	5.07	66.96	16.41		150.0	

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10541- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.41	67.10	16.49	0.00	150.0	± 9.6 %
		Y	5.12	66.64	16.21		150.0	
		Z	5.05	66.85	16.21		150.0	
10542-	IEEE 802.11ac WiFi (40MHz, MCS8,	X	5.53	67.02	16.46	0.00	150.0	± 9.6 %
AAA 10543-	99pc duty cycle)	Y	5.28	66.73	16.27		150.0	
		Z	5.20	66.95	16.40			
	IEEE 802.11ac WiFi (40MHz, MCS9,	X	5.65			0.00	150.0	
<u>AAA</u>	99pc duty cycle)			67.09	16.50	0.00	150.0	± 9.6 %
		Y	5.35	66.75	16.31		150.0	
		Z	5.28	67.01	16.46		150.0	
10544- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.63	67.05	16.36	0.00	150.0	± 9.6 %
		Y	5.46	66.75	16.19		150.0	
		Z	5.42	66.95	16.31		150.0	
10545- AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.85	67.43	16.48	0.00	150.0	± 9.6 %
		ΤY Ι	5.67	67.24	16.39		150.0	
		z	5.61	67.44	16.52	l	150.0	
10546- AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.76	67.40	16.49	0.00	150.0	± 9.6 %
,		Y	5.52	66.02	16.05		450.0	
	<u> </u>	Z	<u> </u>	66.93 67.09	16.25		150.0	
10547-	IEEE 802.11ac WiFi (80MHz, MCS3,	$\frac{2}{x}$			16.35	0.00	150.0	1000
<u>AAA</u>	99pc duty cycle)		5.86	67.50	16.53	0.00	150.0	±9.6 %
		Y	5.59	67.00	16.28		150.0	
		Z	5.54	67.20	16.40		150.0	
10548- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	6.21	68.68	17.08	0.00	150.0	± 9.6 %
		Y	5.87	68.02	16.76		150.0	
		Z	5.72	67.95	16.76		150.0	
10550- AAA 10551-	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.77	67.31	16.45	0.00	150.0	± 9.6 %
		Y	5.57	67.05	16.32		150.0	
		z	5.52	67.30	16.47		150.0	
	IEEE 802.11ac WiFi (80MHz, MCS7,	X	5.80	67.45	16.48	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)					0.00		1 3.0 78
		Y	5.55	67.00	16.26		150.0	
		Z	5.45	67.07	16.32		150.0	
10552- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.69	67.19	16.37	0.00	150.0	± 9.6 %
		Y	5.47	66.81	16.17		150.0	
		ΪZ	5.43	67.06	16.31		150.0	
10553- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.78	67.21	16.40	0.00	150.0	± 9.6 %
		Y	5.54	66.82	16.20		150.0	
		Z	5.48	67.01	16.32		150.0	
10554- AAB	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	6.03	67.43	16.45	0.00	150.0	± 9.6 %
		Y	5.89	67.12	16.28		150.0	
		Z	5.84	67.28	16.38		150.0	
			6.22	67.88	16.64	0.00	150.0	± 9.6 %
10555- AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	0.22					
10555- AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	Y	6.02	67.44	16.43		150.0	
AAB	99pc duty cycle)	Y Z	6.02 5.95	67.44 67.54	16.50	· · · · · · · · · · · · · · · · · · ·	150.0 150.0	
	99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS2,	Y	6.02	67.44		0.00		± 9.6 %
AAB 10556-	99pc duty cycle)	Y Z X	6.02 5.95 6.20	67.44 67.54 67.79	16.50 16.59	0.00	150.0 150.0	± 9.6 %
AAB 10556-	99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS2,	Y Z X Y	6.02 5.95 6.20 6.04	67.44 67.54 67.79 67.49	16.50 16.59 16.44	0.00	150.0 150.0 150.0	± 9.6 %
AAB 10556- AAB 10557-	99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS3,	Y Z X	6.02 5.95 6.20	67.44 67.54 67.79	16.50 16.59	0.00	150.0 150.0	± 9.6 %
AAB 10556- AAB	99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	Y Z X Y Z	6.02 5.95 6.20 6.04 5.99	67.44 67.54 67.79 67.49 67.66	16.50 16.59 16.44 16.55		150.0 150.0 150.0 150.0	

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10558- AAB	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.28	68.03	16.75	0.00	150.0	± 9.6 %
		Y	6.04	67.52	16.49		150.0	· [· · · · · · · · · · · · · · · · · ·
		Ż	5.95	67.59	16.55		150.0	<u> </u>
10560- AAB	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.28	67.87	16.71	0.00	150.0	± 9.6 %
		Y	6.03	67.35	16.44		150.0	
		Z	5.96	67.49	16.53		150.0	
10561- AAB	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	6.18	67.80	16.71	0.00	150.0	± 9.6 %
		Y	5.96	67.36	16.48		150.0	
		Z	5.90	67.49	16.57		150.0	
10562- AAB	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.37	68.38	17.01	0.00	150.0	± 9.6 %
		Y	6.06	67.66	16.63		150.0	
		Z	5.96	67.67	16.66		150.0	
10563- AAB	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.58	68.54	17.02	0.00	150.0	± 9.6 %
		Y	6.18	67.65	16.59		150.0	}
		Z	6.05	67.62	16.60		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	5.11	67.26	16.76	0.46	150.0	± 9.6 %
		Y	4.86	67.10	16.52		150.0	
		Z	4.80	67.44	16.68		150.0	1
10565- AAA	IEEE 802.11g WiFI 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	5.41	67.77	17.08	0.46	150.0	± 9.6 %
		Y	5.08	67.53	16.83		150.0	
		Z	5.00	67.82	16.97		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	5.23	67.67	16.93	0.46	150.0	± 9.6 %
		Y	4.92	67.38	16.66		150.0	
		Z	4.84	67.67	16.80		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	5.26	68.03	17.24	0.46	150.0	± 9.6 %
		Y	4.95	67.77	17.01		150.0	
		_ Z _	4.87	68.04	17.15		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	5.14	67.36	16.67	0.46	150.0	± 9.6 %
		Y	4.84	67.19	16.45		150.0	
		Z	4.75	67.49	16.60		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	5.19	68.02	17.24	0.46	150.0	± 9.6 %
		Y	4.92	67.92	17.11		150.0	
		Z	4.86	68.27	17.29		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	5.23	67.81	17.17	0.46	150.0	±9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	4.94	67.74	17.02		150.0	
10571		Z	4.86	68.06	17.18		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.68	70.36	18.73	0.46	130.0	± 9.6 %
		Y	1.37	66.32	16.49		130.0	
40570		Z	1.41	67.39	17.29		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.75	71.47	19.28	0.46	130.0	±9.6 %
		Y	1.40	67.01	16.89		130.0	
40070		Z	1.45	68.17	17.74		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	100.00	142.31	37.38	0.46	130.0	± 9.6 %
		Y	5.69	99.12	27.30		130.0	
40574		Z	66.26	143.73	39.41		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	3.57	87.71	25.60	0.46	130.0	±9.6 %
		Y	1.70	74.22	20.29		130.0	
		Z	1.88	76.94	21.86		130.0	

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10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.95	67.19	16.89	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)							
		Y	4.69	67.03	16.64		130.0	
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.63	67.35	16.80		130.0	
AAA	OFDM, 9 Mbps, 90pc duty cycle)	X	4.98	67.35	16.96	0.46	130.0	±9.6 %
		Y	4.72	67.20	16.72		130.0	
40577		Z	4.66	67.55	16.88		130.0	
10577- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	X	5.24	67.69	17.13	0.46	130.0	± 9.6 %
		Y	4.90	67.46	16.87		130.0	
40570		Z	4.82	67.76	17.01		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	5.14	67.89	17.23	0.46	130.0	± 9.6 %
		Y	4.81	67.63	16.98		130.0	
10579-		Z	4.73	67.92	17.12		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.94	67.39	16.68	0.46	130.0	± 9.6 %
		Y	4.58	66.91	16.29		130.0	
10590		Z	4.50	67.21	16.45		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	X	4.98	67.29	16.65	0.46	130.0	± 9.6 %
		Y	4.62	66.97	16.32		130.0	
10504		Z	4.54	67.27	16.48		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	5.07	68.07	17.23	0.46	130.0	±9.6 %
		Y	4.72	67.70	16.95		130.0	
40500		Z	4.65	68.04	17.12		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.90	67.13	16.49	0.46	130.0	±9.6 %
		Y	4.51	66.68	16.07		130.0	
		Z	4.43	67.00	16.24		130.0	
10583- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.95	67.19	16.89	0.46	130.0	±9.6 %
··		Y	4.69	67.03	16.64		130.0	
		Z	4.63	67.35	16.80		130.0	
10584- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.98	67.35	16.96	0.46	130.0	± 9.6 %
		Y	4.72	67.20	16.72		130.0	
		Z	4.66	67.55	16.88		130.0	
10585- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	5.24	67.69	17.13	0.46	130.0	± 9.6 %
		Y	4.90	67.46	16.87		130.0	
		Z	4.82	67.76	17.01		130.0	
10586- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	5.14	67.89	17.23	0.46	130.0	± 9.6 %
		Y	4.81	67.63	16.98		130.0	
		Z	4.73	67.92	17.12		130.0	
10587- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.94	67.39	16.68	0.46	130.0	±9.6 %
		Y	4.58	66.91	16.29	·	130.0	
10501		Z	4.50	67.21	16.45		130.0	
10588- AAA	IEEE 802.11a/h WiFl 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.98	67.29	16.65	0.46	130.0	± 9.6 %
		Y	4.62	66.97	16.32		130.0	· · · · · · · · · · · · · · · · · · ·
40500		Z	4.54	67.27	16.48	L	130.0	
10589- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	5.07	68.07	17.23	0.46	130.0	±9.6 %
		Y	4.72	67.70	16.95		130.0	
10505		Z	4.65	68.04	17.12		130.0	
10590- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.90	67.13	16.49	0.46	130.0	± 9.6 %
		Y	4.51	66.68	16.07		130.0	
	1	Z	4.43	67.00	16.24		130.0	1

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10591- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	5.10	67.21	16.96	0.46	130.0	± 9.6 %
		Y	4.84	67.07	16.74		130.0	
		z	4.77	67.39	16.89		130.0	
10592- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	5.29	67.56	17.07	0.46	130.0	± 9.6 %
		Y	4.98	67.40	16.87	···· ·	130.0	
		Z	4.90	67.69	17.01		130.0	
10593- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	5.23	67.57	17.01	0.46	130.0	±9.6 %
		Ý	4.90	67.30	16.75		130.0	
		Z	4.82	67.59	16.88		130.0	
10594- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	5.28	67.68	17.13	0.46	130.0	± 9.6 %
		Ϋ́	4.96	67.47	16.91		130.0	
		Z	4.88	67.75	17.04		130.0	
10595- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	5.27	67.71	17.06	0.46	130.0	± 9.6 %
		Y	4.93	67.44	16.81		130.0	
10565		Z	4.85	67.75	16.96		130.0	
10596- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	5.21	67.70	17.06	0.46	130.0	± 9.6 %
		Y	4.86	67.44	16.81		130.0	
10505		Z	4.78	67.74	16.97		130.0	
10597- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	5.16	67.68	17.00	0.46	130.0	± 9.6 %
		Y	4.81	67.32	16.68		130.0	
		Z	4.73	67.61	16.83		130.0	
10598- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	5.15	67.96	17.27	0.46	130.0	± 9.6 %
		Y	4.80	67.55	16.95		130.0	
		Z	4.72	67.82	17.08		130.0	
10599- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.77	67.84	17.13	0.46	130.0	± 9.6 %
		Y	5.52	67.58	16.96		130.0	
		Z	5.45	67.81	17.10		130.0	
10600- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	6.05	68.67	17.52	0.46	130.0	± 9.6 %
		Y	5.68	68.13	17.21		130.0	
		Z	5.58	68.26	17.30		130.0	
10601- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.85	68.16	17.28	0.46	130.0	± 9.6 %
		Y	5.55	67.80	17.06		130.0	
		Z	5.46	67.98	17.17		130.0	
10602- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.99	68.30	17.27	0.46	130.0	± 9.6 %
		Y	5.68	67.95	17.06		130.0	
1005-		Z X	5.60	68.17	17.19		130.0	
10603- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)		6.09	68.64	17.55	0.46	130.0	± 9.6 %
		Y	5.74	68.19	17.31		130.0	
		Z	5.66	68.42	17.44		130.0	
10604- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.79	67.86	17.16	0.46	130.0	± 9.6 %
		Y	5.59	67.76	17.08		130.0	
100-5		Z	5.54	68.06	17.25		130.0	
10605- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.90	68.15	17.31	0.46	130.0	± 9.6 %
		Y	5.67	68.01	17.21		130.0	
		Z	5.56	68.12	17.28		130.0	
10606- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.65	67.59	16.91	0.46	130.0	±9.6 %
		Y	5.37	67.19	16.65		130.0	
		Z	5.33	67.51	16.83		130.0	

#### ES3DV3-- SN:3332

10607- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.92	66.49	16.57	0.46	130.0	± 9.6 %
<u>////</u>				<u> </u>		·		
		Y	4.68	66.39	16.37	ļ	130.0	
10608-		Z	4.62	66.76	16.54		130.0	
AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	5.16	66.93	16.72	0.46	130.0	± 9.6 %
		Y	4.85	66.77	16.53		130.0	
		Z	4.77	67.10	16.69		130.0	
10609- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	5.06	66.87	16.62	0.46	130.0	± 9.6 %
		Y	4.74	66.62	16.36		130.0	
		Z	4.67	66.96	16.53		130.0	· ·······
10610- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	x	5.11	67.01	16.76	0.46	130.0	± 9.6 %
		Y	4.79	66.78	16.53		130.0	
		Z	4.72	67.11	16.69		130.0	
10611- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	5.05	66.92	16.66	0.46	130.0	± 9.6 %
		Y	4.71	66.59	16.38	·	130.0	
*		Z	4.64	66.93	16.55		130.0	
10612- AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	5.07	67.04	16.68	0.46	130.0	± 9.6 %
		- Y	4.72	66.76	16.43		130.0	
		Z	4.64	67.09	16.61		130.0	·
10613- AAA	IEEE 802.11ac WiFI (20MHz, MCS6, 90pc duty cycle)	X	5.09	66.98	16.60	0.46	130.0	± 9.6 %
		Y	4.71	66.61	16.29		130.0	
		Z	4.63	66.91	16.45		130.0	
10614- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	5.02	67.21	16.84	0.46	130.0	± 9.6 %
		Y	4.67	66.81	16.53		130.0	
		Z	4.59	67.11	16.69		130.0	
10615- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	5.05	66.70	16.43	0.46	130.0	± 9.6 %
		Y	4.71	66.43	16.16		130.0	
		Z	4.64	66.79	16.34		130.0	
10616- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.58	67.10	16.74	0.46	130.0	± 9.6 %
		Y	5.33	66.79	16.55		130.0	
		Z	5.25	67.00	16.67		130.0	
10617- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.66	67.25	16.77	0.46	130.0	± 9.6 %
		Y	5.41	67.04	16.65		130.0	
		Z	5.31	67.19	16.74		130.0	
10618- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.54	67.29	16.82	0.46	130.0	± 9.6 %
		Y	5.29	67.03	16.66		130.0	
		Z	5.22	67.24	16.78		130.0	
10619- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.56	67.09	16.66	0.46	130.0	± 9.6 %
		Y	5.30	66.81	16.48		130.0	
		Z	5.23	67.05	16.63		130.0	
10620- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.71	67.30	16.81	0.46	130.0	± 9.6 %
<u> </u>		Y	5.38	66.84	16.54		130.0	
		Z	5.30	67.04	16.67		130.0	
10621- AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.66	67.28	16.90	0.46	130.0	±9.6 %
		Y	5.39	66.98	16.73		130.0	
		Z	5.30	67.12	16.82		130.0	
10622- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.65	67.37	16.94	0.46	130.0	± 9.6 %
		ΤΥ T	5.40	67.13	16.80		130.0	
		Ż	5.30	67.22	16.87		130.0	

#### ES3DV3- SN:3332

10623-	IEEE 802.11ac WiFi (40MHz, MCS7,		E E0	07.44	10 70	0.40	1 100.0	
AAA	90pc duty cycle)	X	5.58	67.14	16.73	0.46	130.0	± 9.6 %
		Y	5.28	66.65	16.43		130.0	
		Z	5.18	66.78	16.52	· · · ·	130.0	
10624-	IEEE 802.11ac WiFi (40MHz, MCS8,	X	5.72	67.10	16.77	0.46	130.0	± 9.6 %
AAA	90pc duty cycle)				-			
		Y	5.47	66.85	16.60		130.0	
40005		Z	5.38	67.03	16.70		130.0	
10625- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	6.05	67.87	17.19	0.46	130.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	5.77	67.66	17.06		130.0	
40000		Z	5.49	67.24	16.87		130.0	
10626- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.80	67.08	16.64	0.46	130.0	± 9.6 %
		Y	5.63	66.82	16.50		130.0	
10007		Z	5.57	66.99	16.60		130.0	
10627- AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	6.05	67.56	16.82	0.46	130.0	± 9.6 %
		Y	5.90	67.51	16.81		130.0	
		Z	5.83	67.67	16.91		130.0	
10628- AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.89	67.33	16.66	0.46	130.0	± 9.6 %
		Y	5.66	66.90	16.43		130.0	
		Z	5.58	67.01	16.51		130.0	
10629- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	6.01	67.46	16.71	0.46	130.0	± 9.6 %
		Y	5.74	67.00	16.48		130.0	
		Z	5.68	67.19	16.60		130.0	
10630- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.66	69.52	17.74	0.46	130.0	± 9.6 %
		Y	6.23	68.64	17.29		130.0	
		Z	5.99	68.32	17.17		130.0	
10631- AAA	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.51	69.16	17.72	0.46	130.0	± 9.6 %
		Y	6.05	68.21	17.27		130.0	
		Z	5.91	68.16	17.27		130.0	·
10632- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	6.07	67.76	17.04	0.46	130.0	± 9.6 %
		Y	5.87	67.57	16.97		130.0	
		Z	5.81	67.79	17.10	·	130.0	
10633- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	6.04	67.71	16.86	0.46	130.0	± 9.6 %
		Y	5.71	67.04	16.54		130.0	
		Z	5.62	67.14	16.61		130.0	
10634- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	6.01	67.64	16.89	0.46	130.0	± 9.6 %
		Y	5.69	67.06	16.60		130.0	
		Z	5.63	67.23	16.71		130.0	
10635- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.88	66.99	16.33	0.46	130.0	± 9.6 %
		Y	5.57	66.39	16.00		130.0	
		Z	5.49	66.55	16.11	· · · ·	130.0	
10636- AAB	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.20	67.47	16.73	0.46	130.0	± 9.6 %
		Y	6.06	67.19	16.58	·	130.0	·
		Z	6.01	67.33	16.67		130.0	
10637- AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.43	68.00	16.96	0.46	130.0	± 9.6 %
		Y	6,23	67.63	16.79		130.0	·······
		Z	6.14	67.69	16.84		130.0	
10638- AAB	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.38	67.82	16.85	0.46	130.0	± 9.6 %
		Y	6.23	67.59	16.75		130.0	

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10639- AAB	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.40	67.91	16.95	0.46	130.0	± 9.6 %
		Y	6.18	67.47	16.73	<u>†                                    </u>	130.0	<u> </u>
		Z	6.11	67.58	16.80	<u> </u>	130.0	· ·
10640- AAB	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.45	68.06	16.97	0.46	130.0	±9.6 %
		Y	6.19	67.49	16.68	········	130.0	
		Z	6.09	67.54	16.73		130.0	
10641- AAB	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.42	67.72	16.82	0.46	130.0	± 9.6 %
		Y	6.26	67.48	16.70		130.0	
		Z	6.18	67.60	16.78		130.0	· · ···
10642- AAB	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.51	68.09	17.16	0.46	130.0	± 9.6 %
		Υ	6.27	67.64	16.94	· · · · · ·	130.0	
		Z	6.19	67.74	17.01	-	130.0	
10643- AAB	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.33	67.78	16.92	0.46	130.0	± 9.6 %
		Y	6.13	67.39	16.71		130.0	
		Z	6.05	67.49	16.79	t	130.0	
10644- AAB	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.62	68.66	17.38	0.46	130.0	± 9.6 %
····-		Y	6.24	67.74	16.91		130.0	
10015		Z	6.11	67.69	16.91		130.0	
10645- AAB	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.82	68.76	17.37	0.46	130.0	± 9.6 %
		Y	6.42	67.94	16.97		130.0	
10010		Z	6.29	67.89	16.97		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	22.37	99.45	32.18	9.30	60.0	± 9.6 %
		Y	34.93	118.52	39.50		60.0	
40047		Z	65.31	137.01	45.15		60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	23.87	101.54	32.95	9.30	60.0	± 9.6 %
		Y	35.03	119.53	39.96		60.0	
40040		Z	61.92	136.93	45.35		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	1.11	70.04	15.37	0.00	150.0	± 9.6 %
		Y	0.68	63.85	10.64		150.0	
40050		Z	0.72	65.39	11.21		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	5.43	70.91	18.53	2.23	80.0	± 9.6 %
·		Y	4.44	69.41	17.59		80.0	
40050		Z	4.46	70.35	17.94		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	5.75	69.79	18.37	2.23	80.0	± 9.6 %
		Y	4.85	68.29	17.59		80.0	
1005		Z	4.80	68.81	17.83		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	5.63	69.47	18.36	2.23	80.0	± 9.6 %
		Y	4.81	67.88	17.59		80.0	
1005-		Z	4.76	68.31	17.81		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	5.69	69.55	18.41	2.23	80.0	± 9.6 %
		Y	4.87	67.81	17.62		80.0	
		Z	4.82	68.18	17.82		80.0	

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

#### Calibration Laboratory of

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



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

24-2018

Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS) Ac The Swiss Accreditation Service is one of the signatories to the EA

Accreditation No.: SCS 0108

Client PC Test

Certificate No: EX3-3589_Jan18

### CALIBRATION CERTIFICATE

Multilateral Agreement for the recognition of calibration certificates

Object

EX3DV4 - SN:3589

Calibration procedure(s)

QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes

Calibration date:

January 16, 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 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificale No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02525)	Apr-18
Reference 20 dB Allenuator	SN: S5277 (20x)	07-Apr-17 (No. 217-02528)	Apr-18
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-17)	In house check: Oct-18

Calibrated by:	Name Jeton Kastrati	Function Laboratory Technician	Signature
Approved by:	Katja Pokovic	Technical Manager	Solo let
This calibration certificate	shall not be reproduced except in full without	written approval of the laborato	Issued: January 16, 2018 pry.

#### Calibration Laboratory of

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





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Service suisse d'étalonnage

- Servizio svizzero di taratura
- Swiss Calibration Service

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

Accreditation No.: SCS 0108

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

NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization 9	9 rotation around an axis that is in the plane normal to probe axis (at measurement center),
	i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DACK autom to align marks a surger X to the state of the state of the

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).

# Probe EX3DV4

## SN:3589

Manufactured: Calibrated:

March 30, 2006 January 16, 2018

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.46	0.40	0.38	± 10.1 %
DCP (mV) ^B	101.9	98.2	100.6	

#### **Modulation Calibration Parameters**

UID	Communication System Name		A	В	С	D	VR	Unc ^E
			dB	dB√μV		dB	mV	(k=2)
0	CW	X	0.0	0.0	1.0	0.00	145.6	±3.0 %
		Y	0.0	0.0	1.0		149.6	
		Z	0.0	0.0	1.0		140.9	

Note: For details on UID parameters see Appendix.

#### **Sensor Model Parameters**

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ^{~₂}	T2 ms.V⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	Τ6
X	54.53	405.9	35.45	27.61	1.364	5.100	0.831	0.591	1.009
<u>Y</u>	48.12	366.5	36.73	22.62	1.695	5.057	0.000	0.758	1.010
Z	46.44	344.4	35.16	24.05	1.187	5.077	1.521	0.435	1.010

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

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

^B Numerical linearization parameter: uncertainty not required. ^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

_ f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
5250	35.9	4.71	4.69	4.69	4.69	0.35	1.80	± 13.1 %
5600	35.5	5.07	4.17	4.17	4.17	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.42	4.42	4.42	0.40	1.80	± 13.1 %

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

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

measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (c and o) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. ⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

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

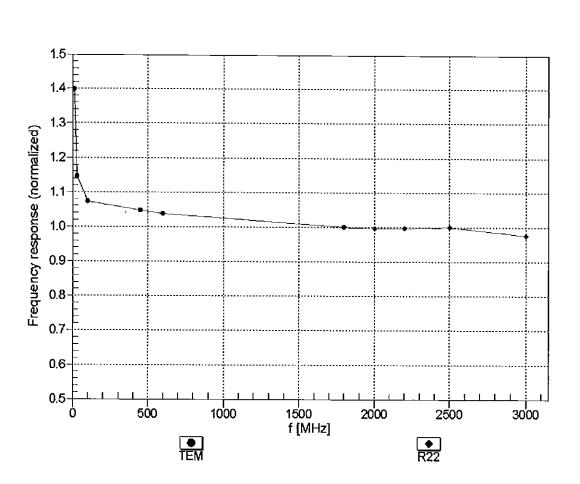
	f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
	5250	48.9	5.36	4.22	4.22	4.22	0.35	1.90	± 13.1 %
	5600	48.5	5.77	3.69	3.69	3.69	0.40	1.90	± 13.1 %
l	5750	48.3	5.94	3.97	3.97	3.97	0.40	1.90	± 13.1 %

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

⁶ 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. Above 5 GHz frequency validity can be extended to  $\pm$  110 MHz. ^F At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm$  10% if liquid compensation formula is applied to

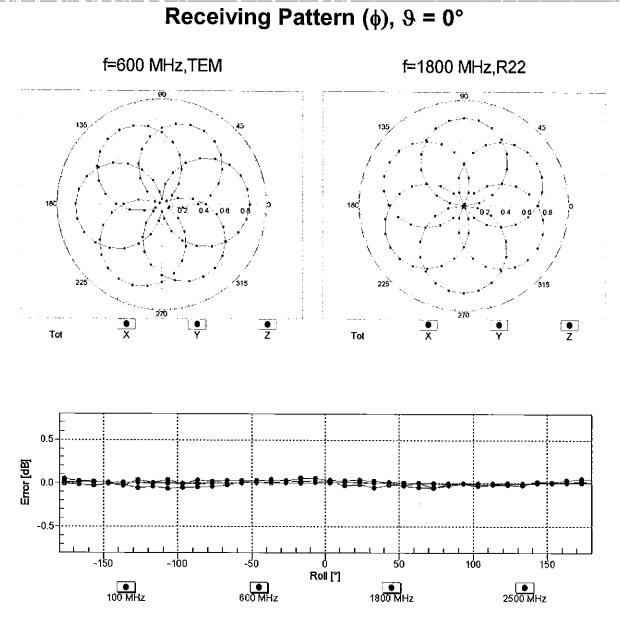
measured SAR values. At frequencies above 3 GHz, the validity of lissue parameters (s and o) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. ⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is ⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

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



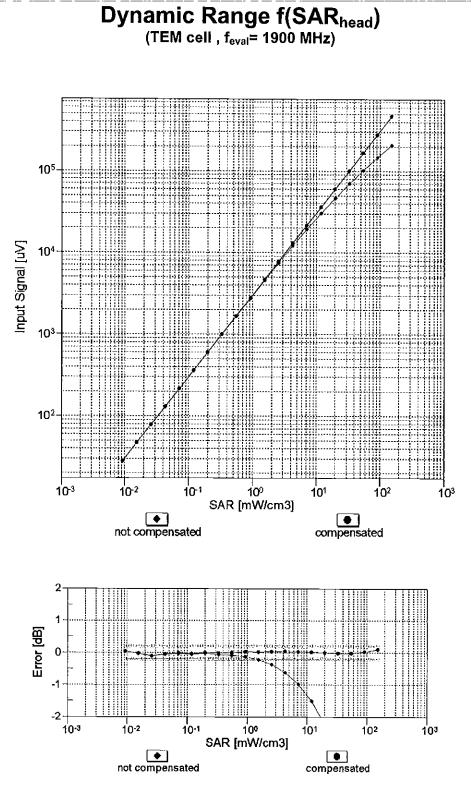
## Frequency Response of E-Field

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

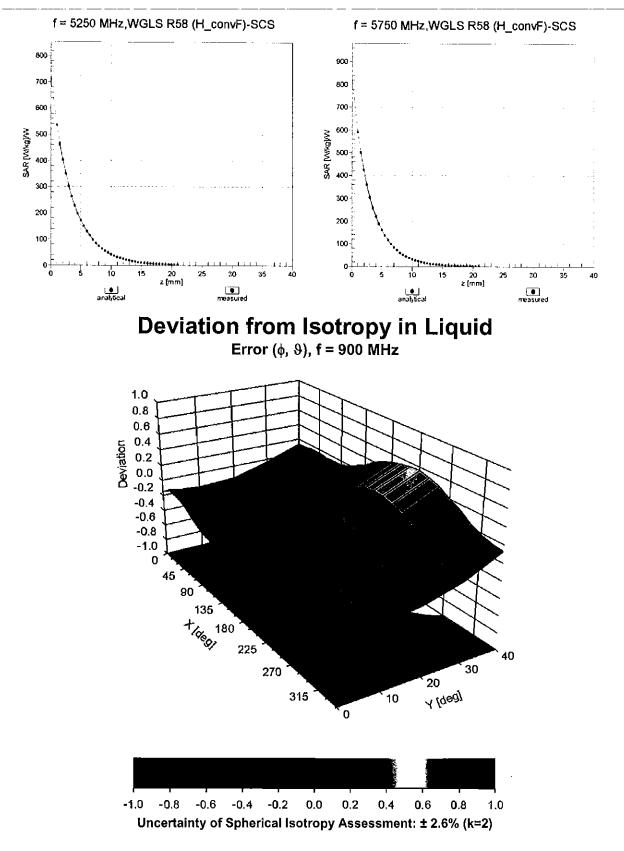


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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



### **Conversion Factor Assessment**

#### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	-36.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

#### Appendix: Modulation Calibration Parameters

UID	Communication System Name		Α	В	C	D	VR	Max
		·	dB	dB√µV−		dB	mV	Unc ^{t:} (k=2)
0	CW	X	0.00	0.00	1.00	0.00	145.6	± 3.0 %
		Y	0.00	0.00	1.00		149.6	
		Z	0.00	0.00	1.00		140.9	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	9.99	82.03	18.50	10.00	20.0	± 9.6 %
		Y	3.61	68.62	12.70		20.0	
		Z	6.12	76.04	15.89		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.07	68.14	15.72	0.00	150.0	± 9.6 %
		Y	0.81	64.60	12.95		150.0	
		Z	0.96	66.53	14.61		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.26	64.97	15.89	0.41	150.0	± 9.6 %
		Y	1.09	63.16	_14.28		150.0	
		Z	1.20	64.25	15.26		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	5.02	66.95	17.30	1.46	150.0	± 9.6 %
		Y	4.84	66.53	16.88		150.0	
		Z	4.90	66.87	17.12		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	100.00	118.58	30.90	9.39	50.0	± 9.6 %
		Y	26.12	96.77	24.34		50.0	
		Z	100.00	117.35	29.93		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	118.53	30.93	9.57	50.0	± 9.6 %
		Y	18.86	92.09	23.00		50.0	
		Z	100.00	117.23	29.92		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	115.85	28.57	6.56	60.0	± 9.6 %
		Y	100.00	111.10	26.02		60.0	
		Ż	100.00	114.31	27.50		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	15.59	105.48	41.04	12.57	50.0	±9.6 %
		Y	4.26	66.41	22.61		50.0	
		Z	6.75	80.99	30.81		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	26.87	114.05	39.53	9.56	60.0	± 9.6 %
		Y	12.16	93.46	31.76		60.0	
		Z	17.01	103.53	36.03		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	115.28	27.52	4.80	80.0	± 9.6 %
		Y	100.00	108.67	24.10		80.0	· · ·
		z	100.00	113.48	26.36		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	115.90	27.07	3.55	100.0	± 9.6 %
		Y	100.00	106.89	22.60		100.0	t — —
		z	100.00	113.76	25.79		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	13.97	98.08	33.11	7.80	80.0	± 9.6 %
		Ŷ	8.37	85.77	27.91		80.0	
		z	9.97	90.97	30.48		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	114.41	27.43	5.30	70.0	± 9.6 %
-		Y	87.04	107.07	24.03		70.0	· — —
		Z	100.00	112.49	26.20		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	116.58	25.91	1.88	100.0	± 9.6 %
-		Y	6.32	79.53	13.62		100.0	
			100.00	112.45	23.86	+		

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10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	×	100.00	121.24	26.80	1.17	100.0	± 9.6
		Y	0.57	63.68	7.10		100.0	
		Z	100.00	115.03	23.96	1	100.0	1
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	100.00	126.01	34.21	5.30	70.0	± 9.6
		Y	9.48	86.17	21.89	<u> </u>	70.0	<u> </u>
		Z	36.97	108.65	29.12		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Х	12.93	96.17	24.85	1.88	100.0	± 9.6
		Y	2.97	73.87	15.92		100.0	
10005		Z	6.70	85.72	20.80		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	5.17	84.55	21.02	1.17	100.0	± 9.6 9
	<u> </u>	<u> </u>	1.93	70.01	14.08		100.0	
10036-		Z	3.33	77.79	17.83		100.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	100.00	126.30	34.35	5.30	70.0	± 9.6 9
	<u>+</u>	Y	11.77	89.53	23.03		70.0	
10037-	IEEE 802 15 1 Plustanth (0 DDD// DL/0)	Z	64.78	117.54	31.43	L	70.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	11.80	94.89	24.44	1.88	100.0	± 9.6 9
· · · · · ·	<u> </u>	Y	2.82	73.30	15.67		100.0	
10038-	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Z X	6.03	84.36	20.32	<u> </u>	100.0	
		X Y	5.40	85.48	21.44	1.17	100.0	± 9.6 9
	<u> </u>	Z	3.42	70.41	14.34		100.0	<u> </u>
10039-	CDMA2000 (1xRTT, RC1)	X	2.08	78.42	18.17	0.00	100.0	
CAB		Y	1.21		16.75	0.00	150.0	± 9.6 %
		Z	1.63	66.59 70.60	12.35	I	150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	100.00	114.16	27.98	7.78	150.0 50.0	± 9.6 %
		Y	18.08	89.51	20.47	ł	50.0	
		Z	100.00	112.63	26.92		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	107.14	5.87	0.00	150.0	±9.6 %
		Y	0.21	123.93	6.31		150.0	
		Z	0.01	111.19	11.86		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Fuil Slot, 24)	X	69.67	114.61	31.81	13.80	25.0	± 9.6 %
		Y	9.51	81.03	21.19		25.0	
40040		Ζ	70.93	113.80	30.88		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	100.00	119.03	31.49	10.79	40.0	± 9.6 %
	<u> </u>	Y	11.04	84.08	20.83		40.0	
10056-	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	Z	100.00	117.60	30.41		40.0	
CAA		X	34.83	106.19	29.98	9.03	50.0	± 9.6 %
	<u> </u>	Y	10.33	84.00	22.00		50.0	
10058-	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	Z	26.35	100.92	27.85		50.0	
DAC		X	9.27	89.32	29.23	6.55	100.0	± 9.6 %
		Y	6.37	80.89	25.35		100.0	
10059-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	Z X	7.13	84.12 67.11	<u>27.15</u> 16.98	0.61	100.0 110.0	+0.00
<u>CAB</u>	Mbps)	Ŷ	1.18	64.62		.01		± 9.6 %
		Z	1.31	65.99	14.99		110.0	
					16.14	1 20	110.0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	Х	100.00	132.86	34.11	1.30	110.0	±9.6%
	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X Y	8.12	92.52	22.19	1.30	110.0	±9.6%

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10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	16.26	106.04	30.06	2.04	110.0	± 9.6 %
		Y	4.18	82.31	21.49-	F	-110.0-	
		Z	7.27	92.62	25.78		110.0	<u>  ·</u>
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.78	66.80	16.63	0.49	100.0	± 9.6 %
		Y	4.59	66.36	16.23		100.0	
		Z	4.66	66.72	16.47		100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.81	66.94	16.76	0.72	100.0	± 9.6 %
		Y	4.62	66.48	16.34		100.0	
		Z	4.69	66.85	16.59		100.0	·
10064- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.12	67.25	17.01	0.86	100.0	± 9.6 %
		Y	4.91	66.78	16.59		100.0	
		Z	4.97	67.11	16.82		100.0	
10065- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	5.01	67.24	17.17	1.21	100.0	± 9.6 %
		Ý	4.80	66.73	16.70	· -	100.0	
		Z	4.87	67.07	16.96		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.05	67.33	17.38	1.46	100.0	± 9.6 %
		Y	4.84	66.81	16.90		100.0	
		Z	4.90	67.15	17.15		100.0	
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.36	67.48	17.83	2.04	100.0	± 9.6 %
		Y	5.15	67.05	17.38		100.0	
		Z	5.21	67.38	17.63		100.0	
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.46	67.74	18.16	2.55	100.0	± 9.6 %
		Y	5.24	67.20	17.64		100.0	
		Z	5.29	67.50	17.90		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.54	67.67	18.33	2.67	100.0	± 9.6 %
		Y	5.32	67.21	17.84		100.0	
		Z	5.37	67.50	18.08		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.14	67.13	17.66	1.99	100.0	± 9.6 %
		Y	4.96	66.70	17.22		100.0	
		Z	5.02	67.03	17.47		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	5.18	67.63	17.97	2.30	100.0	± 9.6 %
		Y	4.97	67.11	17.46		100.0	
		Z	5.03	67.45	17.74		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.28	67.91	18.36	2.83	100.0	± 9.6 %
		Y	5.07	67.38	17.83		100.0	
		Z	5.13	67.72	18.12		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.29	67.91	18.59	3.30	100.0	± 9.6 %
		Y	5.09	67.38	18.02		100.0	
		Z	5.15	67.72	18.32		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.40	68.27	19.03	3.82	90.0	± 9.6 %
		Y	5.18	67.65	18.40		90.0	
	· · · · · · · · · · · · · · · · · · ·	Z	5.23	67.97	18.70		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.40	68.04	19.14	4.15	90.0	± 9.6 %
		Y	5.21	67.49	18.53		90.0	
		Z	5.25	67.79	18.84		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.43	68.12	19.24	4.30	90.0	± 9.6 %
		Y	5.24	67.58	18.64		90.0	
		Z	5.29	67.89	18.95		90.0	

10081-	CDMA2000 (1xRTT, RC3)	X	0.92	67.03	13.48	0.00	150.0	± 9.6 %
		Y	0.59	62.42	9.51	+	150.0	<u> </u>
10082-	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-	$\frac{z}{x}$	0.75 1.45	64.90	11.66		150.0	+
CAB	DQPSK, Fullrate)		1.40	61.55	6.80	4.77	80.0	± 9.6 %
		Y	1.13	60.00	5.38		80.0	+
		Z	1.17	60.40	5.80		80.0	<u>├</u> ───
10090-	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	115.92	28.63	6.56	60.0	± 9.6 %
DAC								20.0 /0
		<u>Y</u>	100.00	111.20	26.09		60.0	<u> </u>
10097-	UMTS-FDD (HSDPA)	_ Z	100.00	114.38	27.55		60.0	
CAB	OWIS-FUD (HSUPA)	Х	1.85	67.86	15.91	0.00	150.0	± 9.6 %
		Y	1.59	65.86	44.07			└───
		- z	1.76	67.30	14.27 15.32		150.0	<u>-</u>
10098-	UMTS-FDD (HSUPA, Subtest 2)	<u> </u>	1.82	67.83	15.88	0.00	150.0	
CAB			1.02	07.00	10.00	0.00	150.0	± 9.6 %
		Y	1.56	65.79	14.21		150.0	
		Z	1.73	67.24	15.29	<u> </u>	150.0	
10099-	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	26.88	114.00	39.51	9.56	60.0	± 9.6 %
DAC		<u> </u>						/0
	<u> </u>	Y	12.18	93.46	31.75		60.0	
10100-		<u>Z</u>	17.07	103.56	36.04		60.0	
CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.25	70.85	16.89	0.00	150.0	± 9.6 %
		Y-	2.82	60.00	45.50	<u> </u>	ł	L
	<u> </u>	Z	3.04	68.69 69.96	15.58		150.0	
10101-	LTE-FDD (SC-FDMA, 100% RB, 20	X	3.31	67.75	<u>16.42</u> 16.04	0.00	150.0	
CAD	MHz, 16-QAM)		0.01	07.75	10.04	0.00	150.0	± 9.6 %
		Y	3.05	66.63	15.24		150.0	├── <b>─</b> ─
		Z	3.18	67.32	15.73		150.0	<u> </u>
10102-	LTE-FDD (SC-FDMA, 100% RB, 20	X	3.41	67.69	16.12	0.00	150.0	± 9.6 %
CAD	MHz, 64-QAM)						100.0	10.0 %
		Y	3.17	66.67	15.38		150.0	
10103-		Z	3.28	67.31	15.84	··	150.0	
CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	8.79	79.64	21.90	3.98	65.0	± 9.6 %
				·				
		Y -	6.79	75.26	19.82		65.0	
10104-	LTE-TDD (SC-FDMA, 100% RB, 20	Z	8.10	78.75	21.47		65.0	
CAD	MHz, 16-QAM)	X	8.30	77.30	21.84	3.98	65.0	± 9.6 %
		$\uparrow$	7.10	74.52	20.25			
		z	7.59	76.13	20.35 21.24		65.0	
10105-	LTE-TDD (SC-FDMA, 100% RB, 20	Ī	8.21	77.11	21.24	2 00	65.0	- <u></u>
CAD	MHz, 64-QAM)		5.21	(1.11	42.03	3.98	65.0	± 9.6 %
		Y	6.30	72.23	19.66		65.0	
1010-		Z	7.24	75.16	21.14		65.0	
10108-	LTE-FDD (SC-FDMA, 100% RB, 10	X	2.85	70.02	16.71	0.00	150.0	± 9.6 %
CAE	MHz, QPSK)							- 0.0 /0
	·	Y	2.45	67.95	15.38		150.0	
10109-		Z	2.64	69.18	16.23		150.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.97	67.58	15.97	0.00	150.0	± 9.6 %
		+						
		Y	2.71	66.39	15.06		150.0	
10110-	LTE-FDD (SC-FDMA, 100% RB, 5 MHz,	Z   X	2.83	67.15	15.62		150.0	
CAE	QPSK)	^	2.32	69.07	16.36	0.00	150.0	± 9.6 %
		TY	1.96	66.93	- 1/ 0/			
					14.84		150.0	
	·	7	212 1					
	LTE-FDD (SC-FDMA, 100% RB. 5 MHz		2.13	68.23	15.78	-	150.0	
	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Z X	2.13	68.33	<u>15.78</u> 16.30	0.00	150.0 150.0	± 9.6 %
10111- CAE						0.00		± 9.6 %

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10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.09	67.53	16.01	0.00	150.0	± 9.6 %
			-2.84-	66.45	-15.17-		150:0-	<u> </u>
		Z	2.96	67.17	15.69		150.0	· · · · · · · · · · · · · · · · · · ·
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.84	68.42	16.41	0.00	150.0	± 9.6 %
		Y	2.55	67.17	15.36		150.0	
		Z	2.70	68.15	16.04		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.16	67.17	16.41	0.00	150.0	± 9.6 %
		ΓY	5.01	66.82	16.13		150.0	
		Z	5.07	67.12	16.32		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.50	67.45	16.56	0.00	150.0	± 9.6 %
		Y	5.30	66.98	16.23		150.0	
		Z	5.35	67.23	16.39		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.27	67.41	16.46	0.00	150.0	± 9.6 %
		Y	5.10	67.01	16.16		150.0	
		Z	5.16	67.30	16.34		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.14	67.12	16.41	0.00	150.0	± 9.6 %
		Y	4.97	66.67	16.08		150.0	
		Z	5.04	66.98	16.27		150.0	
10118- <u>CAC</u>	IEEE 802.11n (HT Mixed, 81 Mbps, 16- QAM)	X	5.57	67.61	16.64	0.00	150.0	± 9.6 %
		Y	5.39	67.20	16.35		150.0	
<u> </u>		Z	5.43	67.42	16.49		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64- QAM)	X	5.24	67.35	16.44	0.00	150.0	± 9.6 %
		Y	5.08	66.96	16.14		150.0	
		Z	5.14	67.25	16.33		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.45	67.69	16.04	0.00	150.0	± 9.6 %
		Y	3.20	66.67	15.30		150.0	
		Z	3.32	67.31	15.76		150.0	•
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.57	67.75	16.20	0.00	150.0	± 9.6 %
		Y	3.33	66.82	15.50		150.0	
		Z	3.44	67.44	15.94		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.10	69.09	16.14	0.00	150.0	± 9.6 %
		Y	1.72	66.61	14.28		150.0	
		Z	1.90	68.15	15.38		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.57	69.15	16.17	0.00	150.0	± 9.6 %
		Y	2.19	67.18	14.56		150.0	
		Z	2.40	68.64	15.52		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.35	66.96	14.64	0.00	150.0	± 9.6 %
		Υ	2.01	65.20	13.08		150.0	
		Z	2.16	66.27	13.86		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.41	66.68	13.17	0.00	150.0	± 9.6 %
		Y Z	0.96	62.51 64.29	9.67 11.10		150.0 150.0	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	3.10	71.59	14.90	0.00	150.0	± 9.6 %
		Y	1.79	64.92	10.83		150.0	
		Z	2.43	68.48	12.61		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	4.18	75.64	16.70	0.00	150.0	± 9.6 %
		Y	2.03	66.39	11.70		150.0	
	+-· · · · · · · · · · · · · · · · · · ·	z	3.22	71.87	14.21	I . —	150.0	<u> </u>

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10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.98	67.64	16.01	0.00	150.0	± 9.6 %
		Υ	2.71	66.45	15.11	<u> </u>	150.0	
		Z	2.84	67.21	15.66	<u> </u>	150.0	<u> </u>
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.10	67.58	16.05	0.00	150.0	± 9.6 %
		Y	2.84	66.51	15.21		150.0	
		Z	2.97	67.23	15.73		150.0	-
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	9.77	82.83	23.21	3.98	65.0	± 9.6 %
	<u> </u>	Y	7.53	78.32	21.06		65.0	
40450		Z	8.80	81.58	22.62		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	7.95	77.63	21.74	3.98	65.0	± 9.6 %
		<u>Y</u>	6.62	74.40	19.97		65.0	<u> </u>
10153-		Z	7.17	76.26	20.98		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	8.37	78.52	22.46	3.98	65.0	± 9.6 %
	+	×	7.08	75.55	20.84		65.0	
10151		Z	7.65	77.37	21.81		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.37	69.54	16.64	0.00	150.0	±9.6 %
	- <u> </u>	Y	2.00	67.32	15.10	L	150.0	
10155		Z	2.18	68.65	16.05		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.69	68.33	16.31	0.00	150.0	± 9.6 %
·	<u> </u>	Y	2.39	66.95	15.18		150.0	
404 50		Z	2.55	67.99	15.90	_	150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.96	69.34	16.07	0.00	150.0	±9.6 %
		Y	1.55	66.39	13.86		150.0	
		Z	1.74	68.16	15.11		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.20	67.66	14.79	0.00	150.0	± 9.6 %
		LY	1.81	65.37	12.85		150.0	
		Z	1.99	66.75	13.83		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.84	68.47	16.45	0.00	150.0	± 9.6 %
_		Y	2.55	67.23	15.41		150.0	
		Z	2.71	68.22	16.08		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.32	68.16	15.10	0.00	150.0	± 9.6 %
		Y	1.90	65.77	13.13		150.0	
		Z	2.10	67.23	14.13		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	2.81	68.83	16.41	0.00	150.0	± 9.6 %
	<u> </u>	Y	2.51	67.36	15.34		150.0	
10104		Z	2.66	68.30	16.03		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.99	67.51	15.99	0.00	150.0	±9.6 %
	<u> </u>	Y	2.74	66.42	15.12		150.0	
10162-		Z	2.86	<u>67.17</u>	15.66		150.0	
CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	×	3.10	67.61	16.08	0.00	150.0	±9.6 %
		Y	2.85	66.59	15.25		150.0	
10166		Z	2.97	67.33	15.78		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.94	70.56	19.62	3.01	150.0	±9.6 %
		Y	3.62	69.51	18.92	_	150.0	
10407		Z	3.88	71.03	19.81		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	5.13	74.04	20.28	3.01	150.0	± 9.6 %
		Ý	4.50	72.11	19.19		150.0	
		Z	5.19	75.12	20.64			

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10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	5.71	76.34	21.57	3.01	150.0	± 9.6 %
		Y-	<del>5.08</del>	<del>74.75</del>	-20.72-		150.0-	
		z	5.99	78.20	22.27		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.58	71.57	20.04	3.01	150.0	± 9.6 %
		Y	3.13	69.16	18.69		150.0	
		Z	3.49	71.65	20.05		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	5.52	78.92	22.69	3.01	150.0	± 9.6 %
		Y	4.42	74.92	20.91		150.0	
		Z	5.83	80.69	23.36		150.0	-
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	4.37	73.98	19.76	3.01	150.0	± 9.6 %
		Y	3.54	70.32	17.92		150.0	
		Z	4.35	74.54	19.90		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	31.66	113.22	34.95	6.02	65.0	± 9.6 %
		Y	9.38	89.05	26.85		65.0	
		Z	27.88	112.00	34.58		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	63.77	119.68	34.61	6.02	65.0	± 9.6 %
		Y_	15.75	94.23	26.84		65.0	
		<u>Z</u>	78.46	124.11	35.52		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	43.93	111.32	31.85	6.02	65.0	± 9.6 %
		Y	9.41	84.90	23.38		65.0	
		Z	45.51	112.81	32.05		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.52	71.19	19.77	3.01	150.0	± 9.6 %
		Y	3.08	68.79	18.41		150.0	
		Z	3.43	71.23	19.76		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	5.53	78.94	22.70	3.01	150.0	± 9.6 %
		Y	4.42	74.94	20.92		150.0	
		Z	5.84	80.72	23.37		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.56	71.37	19.87	3.01	150.0	± 9.6 %
		Y	3.11	68.97	18.52		150.0	-
		Z	3.47	71.42	19.87		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	5.45	78.64	22.56	3.01	150.0	± 9.6 %
		Y	4.37	74.68	20.78		150.0	
		Z	5.75	80.40	23.22		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	4.88	76.27	21.07	3.01	150.0	± 9.6 %
		Y	3.91	72.36	19.22		150.0	
		Z	5.00	77.35	21.45		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	4.35	73.89	19.70	3.01	150.0	± 9.6 %
		Y	3.53	70.24	17.87		150.0	
		Z	4.34	74.43	19.84		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.55	71.35	19.86	3.01	150.0	± 9.6 %
		Y	3.11	68.95	18.51		150.0	
		Z	3.46	71.40	<u>19.86</u>		150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	5.44	78.62	22.55	3.01	150.0	± 9.6 %
		<u>Y</u>	4.36	74.65	20.76		150.0	
		Z	5.74	80.37	23.20	ļ	150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	4.34	73.86	19.69	3.01	150.0	±9.6 %
		Y	3.53	70.21	17.86		150.0	
		Z	4.33	74.40	19.83	[	150.0	

10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.57	71.40	19.89	3.01	150.0	± 9.6
		Y	3.12	69.00	18.54		150.0	
		Z	3.48	71.45	19.88		150.0	1
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	5.46	78.70	22.58	3.01	150.0	± 9.6
		Y	4.38	74.73	20.80		150.0	
		Z	5.78	80.46	23.25		150.0	<u> </u>
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	4.37	73.93	19.73	3.01	150.0	± 9.6
		Y	3.54	70.28	17.89		150.0	
		Ζ	4.35	74.48	19.86		150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	x	3.57	71.45	19.95	3.01	150.0	± 9.6 °
		Y	3.13	69.05	18.60		150.0	
		Z	3.49	71.53	19.95		150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	5.68	79.51	23.00	3.01	150.0	±9.6
		Y	4.55	75.50	21.23		150.0	
		Z	6.06	81.46	23.73		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	4.48	74.44	20.02	3.01	150:0	± 9.6 9
_		Y	3.62	70.71	18.18		150.0	
10/00		Z	4.49	75.08	20.20		150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	×	4.58	66.61	16.17	0.00	150.0	±9.69
		Ϋ́	4.39	<u>6</u> 6.18	15.79		150.0	
		Z	4.47	66.55	16.02		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	x	4.76	66.95	16.29	0.00	150.0	± 9.6 9
		Y	4.56	66.50	15.92		150.0	
		Z	4.64	66.85	16.15	·	150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.80	66.97	16.30	0.00	150.0	± 9.6 9
		Y	4.60	66.53	15.94		150.0	
		Z	4.68	66.88	16.17		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.59	66.69	16.20	0.00	150.0	± 9.6 9
		Y	4.40	66.24	15.81		150.0	r
		Z	4.47	66.60	16.04		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16- QAM)	X	4.78	66.97	16.30	0.00	150.0	± 9.6 9
		Y	4.58	66.52	15.93		150.0	
10155		Z	4.65	66.87	16.16		150.0	1
10198- CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM)	X	4.81	66.99	16.31	0.00	150.0	± 9.6 9
		Y	4.61	66.55	15.95		150.0	
10010		Z	4.68	66.90	16.18		150.0	
10219- CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.54	66.70	16.16	0.00	150.0	±9.6 %
	<u> </u>	Y	4.34	66.24	15.76		150.0	
10000		Z	4.42	<u>6</u> 6.61	16.00		150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16- QAM)	X	4.77	66.95	16.30	0.00	150.0	±9.6 %
	<u> </u>	Y	4.57	66.49	15.92		150.0	
40004		Z	4.64	66.84	16.15		150.0	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64- QAM)	X	4.81	66.92	16.30	0.00	150.0	± 9.6 %
	<u> </u>	Y	4.62	66.48	15.94		150.0	
40000		Z	4.69	66.83	16.16		150.0	
10222- CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.12	67.14	16.41	0.00	150.0	± 9.6 %
		Y	4.95	66.68	16.07		150.0	
	<u>+</u>	ż	5.01		10.07		100.0	

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10223-	IEEE 802.11n (HT Mixed, 90 Mbps, 16-	X	5.44	67.33	16.52	0.00	150.0	± 9.6 %
CAC	QAM)				[	0.00		2 0.0 70
		<u>+</u>	<del>5.25</del>	66.92	1 <del>6.22</del>		-150.0-	
10001		Z	5.31	67.18	16.39		150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64- QAM)	X	5.17	67.24	16.38	0.00	150.0	± 9.6 %
-		Y	4.99	66.79	16.05		150.0	
		Z	5.06	67.10	16.25		150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	2.86	66.19	15.49	0.00	150.0	± 9.6 %
		Y	2.63	65.32	14.64		150.0	
		Z	2.74	65.98	15.11		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	71.24	121.88	35.27	6.02	65.0	± 9.6 %
	<u> </u>	Ϋ́	16.91	95.59	27.35		65.0	
		Z	92.42	127.27	36.40		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	50.30	113.83	32.60	6.02	65.0	± 9.6 %
		Y	15.15	92.51	25.87		65.0	
		Z	68.30	119.77	33.89		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	55.50	124.73	38.12	6.02	65.0	± 9.6 %
		Y	14.70	<u>97.8</u> 8	29.79		65.0	
		Z	38.30	118.72	36.53		65.0	_
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	63.93	119.72	34.63	6.02	65.0	± 9.6 %
		Y	15.85	94.32	26.88		65.0	
		Z	79.00	124.23	35.56		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	46.15	112.18	32.09	6.02	65.0	± 9.6 %
		Y	14.25	91.41	25.45		65.0	
		Z	59.72	117.30	33.19		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	50.49	122.68	37.51	6.02	65.0	± 9.6 %
		Y	13.80	96.56	29.30		65.0	
		Z	34.60	116.55	35.86		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	64.00	119.75	34.64	6.02	65.0	± 9.6 %
		Y	15.83	94.31	26.87		65.0	
		Z	79.03	124.24	35.57	[	65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	46.17	112.21	32.10	6.02	65.0	± 9.6 %
		Y	14.23	91.39	25.44		65.0	
		Z	59.65	117.30	33.19		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	46.07	120.60	36.84	6.02	65.0	±9.6 %
		Y	13.04	95.31	28.79		65.0	
		Z	31.63	114.51	35.18		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	64.33	119.85	34.67	6.02	65.0	± 9.6 %
		Y	15.85	94.34	26.88		65.0	
		Z	79.51	124.37	35.60		65.0	1
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	46.79	112.40	32.14	6.02	65.0	± 9.6 %
		Y	14.34	91.49	25.47		65.0	
		Z	60.62	117.54	33.24		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	51.22	123.00	37.59	6.02	65.0	± 9.6 %
		Y	13.84	96.65	29.32		65.0	
		Z	34.93	116.77	35.92		65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	64.07	119.77	34.64	6.02	65.0	± 9.6 %
		Y	15.80	94.29	26.87		65.0	
		Z	79.05	124.26	35.57		65.0	

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10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	46.17	112.22	32.10	6.02	65.0	± 9.6 %
		Y	14.20	91.37	25.44		65.0	
		Ż	59.56	117.29	33.19		65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	51.02	122.93	37.57	6.02	65.0	± 9.6 %
		Y	13.80	96.60	29.31		65.0	
		Z	34.81	116.71	35.90		65.0	<u> </u>
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	12.30	87.67	27.92	6.98	65.0	± 9.6 %
		Y	9.73	82.62	25.44		65.0	
		Z	11.99	88.11	27.90		65.0	<u> </u>
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	12.00	87.14	27.64	6.98	65.0	± 9.6 %
		Y	8.11	78.88	23.86		65.0	
100 (0		Z	10.85	86.00	27.03		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	9.42	83.90	27.37	6.98	65.0	± 9.6 %
		Y	6.64	76.16	23.58		65.0	
10012		Z	8.16	81.56	26.26		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	10.44	82.93	21.79	3.98	65.0	± 9.6 %
	<u> </u>	Y	6.79	75.71	18.18		65.0	
40045		Z	9.21	80.92	20.37		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	×	10.08	82.11	21.44	3.98	65.0	± 9.6 %
		Y	6.62	75.11	17.89		65.0	
40010		Z	8.78	79.92	19.95		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	11.42	87.52	23.40	3.98	65.0	± 9.6 %
		Y	5.98	76.83	18.54		65.0	<u> </u>
		Z	8.49	82.82	21.13		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	7.75	79.05	20.99	3.98	65.0	± 9.6 %
		Y	5.69	73.82	18.06		65.0	
		L Z	6.60	76.66	19.49		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	7.60	78.24	20.65	3.98	65.0	± 9.6 %
		Y	5.66	73.30	17.84		65.0	
		Z	6.46	75.86	19.15		65.0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	12.84	89.97	24.97	3.98	65.0	± 9.6 %
		Y	7.45	80.54	20.84		65.0	
400		Ζ	10.45	86.75	23.43		65.0	i —
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	8.59	80.97	23.10	3.98	65.0	± 9.6 %
	<u> </u>	Y	6.88	77.02	21.00		65.0	
10251-		Z	7.71	79.50	22.24		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	7.91	78.24	21.71	3.98	65.0	± 9.6 %
	<u> </u>	Y	6.42	74.62	19.67		65.0	
10252-		Z	7.08	76.75	20.80		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	x	11.43	87.56	24.93	3.98	65.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	7.91	81.04	22.00		65.0	
10252		Z	9.97	85.71	24.05		65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	7.70	76.94	21.48	3.98	65.0	± 9.6 %
	<u> </u>	Y	6.48	73.90	19.75		65.0	
10254		Z	7.00	75.70	20.74		65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	8.12	77.80	22.14	3.98	65.0	± 9.6 %
		Y	6.90	74.95	20.52		65.0	
		ΖŢ	7.44	76.71	21.47		65.0	

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10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	9.27	82.17	23.21	3.98	65.0	± 9.0
		Y-	-7.25-	77.88	21.10		-65.0-	<u> </u>
		Z	8.37	80.94	22.58		65.0	1
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	8.78	79.64	19.68	3.98	65.0	± 9.6
		Y	5.26	71.61	15.48		65.0	<u> </u>
		Ż	6.86	75.83	17.39		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	8.34	78.50	19,16	3.98	65.0	± 9.6
		Y	5.12	70.92	15.09		65.0	1
_		Z	6.46	74.63	16.81		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	8.92	82.95	21.11	3.98	65.0	± 9.6
		İΥ	4.50	72.26	15.88		65.0	
		Z	6.02	76.94	18.10		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	8.07	79.69	21.71	3.98	65.0	± 9.6
		Y	6.15	75.00	19.12		65.0	
		Z	7.04	77.72	20.48		65.0	İ
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	8.02	79.27	21.57	3.98	65.0	± 9.6
		Y	6.17	74.75	19.03		65.0	
		Z	7.00	77.32	20.33		65.0	1
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	11.37	87.81	24.60	3.98	65.0	± 9.0
		Y	7.29	80.02	21.07	l	65.0	1
		Z	9.57	85.23	23.32	İ	65.0	1
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	×	8.58	80.91	23.06	3.98	65.0	± 9.0
		Y	6.86	76.94	20.95		65.0	
		Z	7.69	79.43	22.19		65.0	1
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	7.90	78.22	21.71	3.98	65.0	± 9.0
		Y	6.41	74.61	19.67		65.0	1
		Z	7.06	76.73	20.79	İ	65.0	†
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	11.30	87.33	24.83	3.98	65.0	± 9.0
		Y	7.82	80.82	21.90		65.0	-
		Z	9.85	85.46	23.94	· · · · · ·	65.0	1
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	7.95	77.63	21.74	3.98	65.0	± 9.0
		Y	6.61	74.40	19.97		65.0	1
		Z	7.17	76.26	20.99		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	8.37	78.51	22.45	3.98	65.0	± 9.0
		Y	7.07	75.53	20.83		65.0	
		Z	7.65	77.35	21.80		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	9.74	82.78	23.19	3.98	65.0	± 9.6
		Y	7.51	78.28	21.05		65.0	
		Z	8.78	81.53	22.59		65.0	İ
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	8.35	76.91	21.81	3.98	65.0	± 9.6
		Y	7.25	74.40	20.43		65.0	
		Z	7.70	75.89	21.26		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	8.25	76.41	21.67	3.98	65.0	± 9.0
		Y	7.21	74.02	20.34		65.0	
		Z	7.64	75.43	21.12		65.0	
	LTE-TDD (SC-FDMA, 100% RB, 15	X	8.73	79.00	21.90	3.98	65.0	± 9.0
10270- CAD	MHz, QPSK)							
		Y	7.29	75.91	20.32		65.0	

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10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.62	66.51	15.38	0.00	150.0	± 9.6 °
		Y	2.40	65.49	14.41		150.0	
		Z	2.53	66.32	15.01		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.66	68.37	15.85	0.00	150.0	± 9.6 9
		Y	1.36	65.72	13.86		150.0	
		Z	1.53	67.34	15.09		150.0	<u> </u>
10277- CAA	PHS (QPSK)	X	4.01	66.28	11.28	9.03	50.0	± 9.6 9
		Y	3.27	63.73	9.40		50.0	
		Z	3.24	64.17	9.56	· · · · · · · · · · · · · · · · · · ·	50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	10.72	83.49	21.29	9.03	50.0	± 9.6 9
		Y	5.37	71.76	15.68		50.0	
		Z	6.95	76.49	17.84		50.0	· · · ·
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	10.91	83.69	21.40	9.03	50.0	± 9.6 9
		Y	5.48	71.97	15.81		50.0	F
		Z	7.09	76.71	17.97		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	1.63	69.96	14.95	0.00	150.0	± 9.6 %
		Y	1.04	64.71	11.14		150.0	<u> </u>
		Z	1.29	67.48	13.09		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	0.90	66.75	13.33	0.00	150.0	± 9.6 %
		Ý	0.58	62.29	9.42		150.0	
		Z	0.74	64.70	11.54		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	1.21	71.81	16.09	0.00	150.0	± 9.6 %
		Y	0.65	64.19	10.77		150.0	
		Z	0.93	68.53	13.82		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	1.97	79.16	19.55	0.00	150.0	± 9.6 %
		Y	0.85	67.30	12.80	·	150.0	
			1.50	75.07	17.10		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	12.27	88.66	25.82	9.03	50.0	± 9.6 %
		Y	8.75	80.85	21.80		50.0	
1000-		Z	11.52	87.13	24.56		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.86	70.12	16.78	0.00	150.0	± 9.6 %
		Y	2.47	68.04	15.44		150.0	
10000		Z	2.66	69.28	16.30		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.72	68.67	14.95	0.00	150.0	±9.6 %
	<u>                                      </u>	Y I	1.25	64.84	11.99		150.0	
10299-	TEEDD (SO TONA FOR DE ONE	Z	1.45	66.83	13.43		150.0	
AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	3.76	73.98	16.75	0.00	150.0	± 9.6 %
	<u> </u>	Y	2.44	68.23	13.44		150.0	
10300-		Z	3.56	73.19	15.68		150.0	
AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	2.57	67.80	13.32	0.00	150.0	±9.6 %
	<u> </u>	Y	1.89	64.33	10.83		150.0	
10301-		Z	2.25	66.42	11.95		150.0	
10301- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	5.34	67.21	18.36	4.17	50.0	±9.6 %
		Y	4.92	66.04	17.49		50.0	
		Z	5.00	66.39	17.73		50.0	
10202								
	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	х	5.75	67.51	18.91	4.96	50.0	± 9.6 %
10302- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)		5.75 5.39 5.48	67.51 66.46	18.91	4.96	50.0	±9.6 %

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10303- AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	5.55	67.40	18.88	4.96	50.0	± 9.6 %
		- Y	- 5.18-	66.25	17.96		-50.0-	
		Z	5.26	66.77	18.34		50.0	
10304- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	5.27	66.95	18.19	4.17	50.0	± 9.6 %
		Y	4.92	65.91	17.36		50.0	
		Z	5.02	66.46	17.74		50.0	
10305- AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	6.02	73.68	22.76	6.02	35.0	± 9.6 %
		Ý	5.62	72.10	21.29		35.0	
		Z	5.50	71.99	21.48		35.0	
10306- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	5.71	70.24	21.22	6.02	35.0	± 9.6 %
		Y	5.41	69.23	20.17		35.0	
		Z	5.36	69.27	20.36		35.0	
10307- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	5.75	70.97	21.43	6.02	35.0	± 9.6 %
		Υ	5.41	69.78	20.28		35.0	
		Z	5.34	69.76	20.46		35.0	
10308- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	5.78	71.40	21.67	6.02	35.0	± 9.6 %
		Y	5.44	70.16	20.49		35.0	
100		Z	5.37	70.16	20.68		35.0	
10309- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	5.81	70.57	21.41	6.02	35.0	± 9.6 %
		Y	5.47	69.45	20.31		35.0	
		Z	5.42	69.49	20.51		35.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	5.71	70.51	21.28	6.02	35.0	± 9.6 %
		Y _	5.40	69.46	20.21		35.0	
		Z	5.35	69.48	20.40		35.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.22	69.41	16.42	0.00	150.0	± 9.6 %
		Ý	2.80	67.40	15.19		150.0	
		Z	3.01	68.61	15.98		<u>150</u> .0	
10313- AAA	IDEN 1:3	X	8.72	81.59	19.46	6.99	70.0	± 9.6 %
		Ý	4.16	71.30	14.92		70.0	
		Z	6.60	78.28	18.09		70.0	
10314- AAA	IDEN 1:6	X	16.37	95.12	26.54	10.00	30.0	± 9.6 %
		Y	5.55	77.14	19.77		30.0	
		Z	11.38	90.04	24.85		30.0	
10315- AAB	IEEE 802.11b WIFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.13	64.52	15.64	0.17	150.0	± 9.6 %
		Υ	0.98	62.76	14.03		150.0	
		Z	1.08	63.88	15.03		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	X	4.66	66.76	16.37	0.17	150.0	± 9.6 %
		Υ	4.47	66.30	15.96	L	150.0	
		Z	4.54	66.67	16.21		_ 150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.66	66.76	16.37	0.17	150.0	± 9.6 %
		Y	4.47	66.30	15.96		150.0	
		Z	4.54	66.67	16.21		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.76	67.01	16.29	0.00	150.0	± 9.6 %
		Y	4.55	66.53	15.90		150.0	
		Z	4.62	66.89	16.13		150.0	
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.41	67.10	16.39	0.00	150.0	± 9.6 %
		Y	5.28	66.83	16.15		150.0	
		Z	5.32	67.06	16.30		150.0	

10402- 	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duly cycle)	X	5.69	67.55	16.46	0.00	150.0	± 9.6
		Y	5.51	67.10	16.14		150.0	
40.400		Z	5.58	67.39	16.32		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.63	69.96	14.95	0.00	115.0	±9.6
		Y	1.04	64.71	11.14		115.0	-
40404		Z	1.29	67.48	13.09		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	1.63	69.96	14.95	0.00	115.0	± 9.6
		Y	1.04	64.71	11.14		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	Z X	1.29 100.00	<u>67.48</u> 121.60	13.09 30.91	0.00	1 <u>15.0</u> 100.0	±9.6
		Y Y	14.90	94.78	23.76	<u> </u>	100.0	<u> </u>
		z	100.00	118.00	28.98	<u> </u>	100.0	<u> </u>
10410- AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	120.72	30.61	3.23	80.0	± 9.6
		Y	52.68	109.61	27.00		80.0	
		Z	100.00	120.47	30.13		80.0	†·
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	x	1.00	63.11	14.78	0.00	150.0	± 9.6
	<u> </u>	Y	0.88	61.69	13.34		150.0	
10416-		Z	0.97	62.68	14.28		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.58	66.65	16.23	0.00	150.0	± 9.6
	<u>+</u>	Y	4.40	66.22	15.86	<u> </u>	150.0	
10417-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6	ZX	4.47	66.58	16.09		150.0	<u> </u>
AAB	Mbps, 99pc duty cycle)	Y	4.58	66.65 66.22	16.23	0.00	150.0	± 9.6
		Z	4.40	66.58	15.86	<u> </u>	150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.57	66.80	16.24	0.00	150.0 150.0	± 9.6
		Y	4.38	66.37	15.87		150.0	
		Z	4.46	66.75	16.11		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.59	66.75	16.24	0.00	150.0	±9.6
		Y	4.41	66.32	15.88		150.0	
10422-		Z	4.48	66.69	16.11		150.0	· · · · ·
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.71	66.75	16.26	0.00	150.0	±9.6
		Y	4.52	66.34	15.90	L	150.0	
10423-	IEEE 802.11n (HT Greenfield, 43.3	Z X	4.60	66.69	16.13		150.0	
<u>AAB</u>	Mbps, 16-QAM)		4.89	67.10	16.38	0.00	150.0	± 9.6
		Z	<u>4.69</u> 4.76	<u>66.65</u> 67.00	16.02	<u> </u>	150.0	
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.81	67.04	16.24 16.35	0.00	150.0 150.0	± 9.6
		Y	4.61	66.59	15.99		150.0	
		Z	4.68	66.95	16.21		150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.39	67.34	16.50	0.00	150.0	± 9.6
		Y	5.22	66.97	16.22		150.0	
40400		Z	5.27	67.22	16.38		150.0	
10426- AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	x	5.39	67.34	16.50	0.00	150.0	± 9.6 9
		Y	5.23	67.01	16.23		150.0	
	1	Z	5.28	67.26	16.39		150.0	

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10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.41	67.34	16.49	0.00	150.0	± 9.6 %
		Γγ-		66.97	-16.22-	<u> </u>	-150:0-	
	· · · · · · · · · · · · · · · · · · ·	z	5.29	67.23	16.38		150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.30	70.55	18.18	0.00	150.0	± 9.6 %
		Y	4.12	70.52	17.85		150.0	
		Z	4.23	71.03	18.16		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	x	4.29	67.21	16.27	0.00	150.0	± 9.6 %
		Y	4.05	66.67	15.77		150.0	
		Z	4.14	67.11	16.06		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.58	67.09	16.31	0.00	150.0	± 9.6 %
		Y	4.37	66.61	15.90		150.0	_
		Ζ	4.44	66.99	16.15		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.82	67.08	16.38	0.00	150.0	± 9.6 %
		Υ	4.62	66.63	16.01		150.0	
		Z	4.69	66.98	16.23		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.41	71.40	18.19	0.00	150.0	± 9.6 %
		Y	4.20	71.25	17.73		150.0	
		Z	4.35	71.94	18.12		150.0	
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	120.54	30.53	3.23	80.0	± 9.6 %
		Y	46.85	107.92	26.54		80.0	
		Z	100.00	120.26	30.03		80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.60	67.27	15.72	0.00	150.0	± 9.6 %
		Y	3.31	66.43	14.88		150.0	
		Z	3.42	67.06	15.30		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	4.12	66.99	16.13	0.00	150.0	± 9.6 %
		Y	3.90	66.44	15.61		150.0	
		Z	3.98	66.89	15.92		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.38	66.92	16.22	0.00	150.0	± 9.6 %
		ΙY	4.18	66.42	15.78		150.0	
		Z	4.26	66.82	16.05		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.57	66.85	16.23	0.00	150.0	± 9.6 %
		Y	4.38	66.38	15.84		150.0	· · · ·
		Z	4.46	66.75	16.09		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.51	67.52	15.42	0.00	150.0	± 9.6 %
		Y	3.17	66.45	14.38		150.0	
		Z	3.30	67.16	14.86		150.0	
10456- AAB	IEEE 802.11ac WIFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.24	67.91	16.66	0.00	150.0	± 9.6 %
		Y	6.09	67.55	16.40		150.0	
		Z	6.14	67.78	16.54	[	150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.80	65.28	15.95	0.00	150.0	± 9.6 %
		Y	3.67	64.86	15.55		150.0	
		Z	3.74	65.24	15.80		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	4.04	70.60	17.63	0.00	150.0	± 9.6 %
		Y :	3.78	70.18	16.90		150.0	
		Z	3.96	71.06	17.41		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	5.10	67.92	18.04	0.00	150.0	±9.6 %
		1.1	<b>- - - -</b>			r	1	
		Y	5.04	68.55	18.14		150.0	

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10460- AAA	UMTS-FDD (WCDMA, AMR)	X	0.93	69.01	16.61	0.00	150.0	± 9.6 %
		Y	0.67	64.78	13.34	<del>                                      </del>	150.0	<u> </u>
		Ż	0.83	67.12	15.34		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	x	100.00	125.37	32.80	3.29	80.0	± 9.6 %
		Y	100.00	120.09	30.00		80.0	
		Z	100.00	125.85	32.64		80.0	t —
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.15	25.16	3.23	80.0	± 9.6 %
	<u> </u>	Y	2.88	68.96	12.87		80.0	
10463-		Z	100.00	106.54	23.60		80.0	
AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.92	23.62	3.23	80.0	± 9.6 %
		Y	1.89	64.22	10.46		80.0	
10464-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz,	Z	16.73	86.00	17.87		80.0	
	QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.34	31.70	3.23	80.0	± 9.6 %
	<u> </u>	Z	100.00	117.53	28.68		80.0	
10465-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-	$\frac{2}{x}$	100.00	123.49 108.60	31.39	0.00	80.0	<u> </u>
AAA	QAM, UL Subframe=2,3,4,7,8,9)	Y	2.49	67.43	24.90	3.23	80.0	± 9.6 %
		Z	100.00	105.93			80.0	
10466-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-		99.93	105.93	23.31 23.38	3.23	80.0	
AAA	QAM, UL Subframe=2,3,4,7,8,9)	Y	1.76	63.52	10.09	3.23	80.0	± 9.6 %
		Ż	7.76	78.49	15.68		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.57	31.81	3.23	80.0 80.0	± 9.6 %
		Y	100.00	117.78	28.79		80.0	
		Z	100.00	123.77	31.51		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.77	24.97	3.23	80.0	± 9.6 %
		Y	2.58	67.81	12.37		80.0	
40,000		Z	100.00	106.13	23.39		80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.42	23.38	3.23	80.0	± 9.6 %
		Y	1.76	63.54	10.10		80.0	_
40470		Z	7.98	78.76	15.76		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.60	31.81	3.23	80.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	100.00	117.78	28.78		80.0	
10471-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-	Z	100.00	123.80	31.51		80.0	
AAC	QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.72	24.94	3.23	80.0	±9.6 %
	<u> </u>	Y Z	2.56	67.74	12.33		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	<u>100.00</u> 99.99	106.06 105.37	23.36 23.35	3.23	<u>80.0</u> 80.0	± 9.6 %
		Y	1.76	63.49	10.07		80.0	
		z	7.85	78.59	15.70			
10473-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	X	100.00	123.57	31.80	3.23	80.0 80.0	+ 0 0 0/
	QPSK, UL Subframe=2,3,4,7,8,9)	Ŷ	100.00	117.75	28.77	J.Z0	80.0	± 9.6 %
		Z	100.00	123.76	31.50		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	х	100.00	108.72	24.94	3.23	80.0	± 9.6 %
		Y	2.55	67.70	12.31	_	80.0	
		Z	100.00	106.07	23.36		80.0	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.38	23.36	3.23	80.0	± 9.6 %
		Y	1.75	62.40	10 00			
		z		63.48	10.06	1	80.0	

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10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.56	24.86	3.23	80.0	± 9.6 %
		- Y_	0.40	67.00	40.47		00.0	<u> </u>
		Z	<u></u>	67.39	12.17		80.0	
10478-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-		100.00	105.88	23.27		80.0	
AAC	QAM, UL Subframe=2,3,4,7,8,9)	X	99.93	105.32	23.33	3.23	80.0	± 9.6 %
		Y	1.75	63.43	10.04		80.0	·
		Z	7.52	78.16	15.56		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	24.99	103.36	28.63	3.23	80.0	± 9.6 %
		Y	10.71	88.94	23.39		80.0	
		Z	51.18	<u>114</u> .04	30.82		80.0	
10480- <u>A</u> AA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	27.08	97.74	25.20	3.23	80.0	± 9.6 %
		Υ	7.39	78.93	18.50		80.0	
		Z	49.11	104.52	26.12		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	20.64	93.00	23.51	3.23	80.0	± 9.6 %
		Y	5.77	75.21	16.85		80.0	
		Z	27.39	95.68	23.40		80.0	1
1048 <mark>2-</mark> AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.61	81.76	20.77	2.23	80.0	± 9.6 %
		Y	2.69	68.93	14.80		80.0	F
		Z	4.28	75.68	17.93		80.0	1
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	11.30	85.70	21.82	2.23	80.0	± 9.6 %
		Y	4.71	72.93	16.32		80.0	
		Z	10.22	83.74	20.39	<u>-</u>	80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	9.81	83.50	21.12	2.23	80.0	± 9.6 %
		Y	4.39	71.84	15.90		80.0	
		Z	8.50	81,12	19.54		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.41	81.73	21.60	2.23	80.0	± 9.6 %
		Y	3.29	71.60	16.89		80.0	·
		Z	4.73	77.46	19.61		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.82	74.22	18.45	2.23	80.0	± 9.6 %
		Y	3.14	68.00	14.98		80.0	
		Z	3.94	71.61	16.84		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	x	4.72	73.57	18.19	2.23	80.0	± 9.6 %
		Y	3.14	67.70	14.85		80.0	
		z	3.89	71.06	16.60		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.77	78.61	21.05	2.23	80.0	± 9.6 %
		Y	3.74	71.84	17.80		80.0	
		Z	4.64	75.66	19.71		80.0	F.
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.63	72.48	18.80	2.23	80.0	± 9.6 %
		Y	3.63	68.80	16.66		80.0	
		Z	4.11	71.03	17.91		80.0	1
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.68	72.08	18.66	2.23	80.0	± 9.6 %
		Y	3.73	68.67	16.64		80.0	
		Z	4.18	70.76	17.81		80.0	
10491- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.40	75.41	19.95	2.23	80.0	± 9.6 %
		Y	3.98	70.66	17.54		80.0	
		Z	4.61	73.35	18.98		80.0	
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.79	71.03	18.46	2.23	80.0	± 9.6 %
		Y -	4.01	68.31	16.84		80.0	1
		Ż						

10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.84	70.78	18.38	2.23	80.0	± 9.6
		ΤY	4.07	68.21	16.82	+	80.0	+
		Ż	4.41	69.73	17.72	<u> </u>	80.0	
10494-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	X	6.18	77.69	20.63	2.23	80.0	
AAC	QPSK, UL Subframe=2,3,4,7,8,9)		0.10	11.05	20.05	2.23	00.0	± 9.6
		Y	4.27	71.91	17.89	+	80.0	+
		z z	5.10	75.11				
10495-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	X	4.89	71.61	19.51	0.00	80.0	
AAC	16-QAM, UL Subframe=2,3,4,7,8,9)				18.71	2.23	80.0	± 9.6
		Y	4.04	68.68	17.03		80.0	
		Z	4.41	70.35	18.00		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.91	71.12	18.55	2.23	80.0	± 9.6
		Y	4.12	68.46	16.98		80.0	<u> </u>
		Ż	4.46	69.99	17.89	-	80.0	+
10497-	LTE-TDD (SC-FDMA, 100% RB, 1.4	X	5.03	77.46	18.40	2.23		+
AAA	MHz, QPSK, UL Subframe=2,3,4,7,8,9)					2.23	80.0	± 9.6 9
		Y	1.85	64.41	11.81		80.0	
10400		Z	2.83	69.89	14.64		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	3.04	68.00	13.73	2.23	80.0	±9.6 9
		Y	<u>1.</u> 58	60.64	9.01		80.0	<u> </u>
		Z	1.87	62.71	10.38		80.0	1
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.89	67.10	13.20	2.23	80.0	± 9.6 9
		Y	1.55	60.27	8.69	_	80.0	
		Z	1.80	62.06	9.91		80.0	†
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.85	79.67	21.13	2.23	80.0	± 9.6 %
		Y	3.43	71.51	17.20		80.0	<u> </u>
		Z	4.56	76.29	19.51		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.71	73.38	18.53	2.23	80.0	± 9.6 %
		Y	3.37	68.44	15.69		80.0	<u> </u>
		Z	4.04	71.45	17.28		80.0	<u> </u>
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.74	73.07	18.35	2.23	80.0	± 9.6 %
		Y	3.42	68.30	15.58		80.0	
		Z	4.07	71.20	17.12		80.0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.68	78.36	20.94	2.23	80.0	± 9.6 %
		Y	3.69	71.63	47.70	<u> </u>		
	<u> </u>		4.57		17.70		80.0	<u> </u>
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz,	X	4.61	75.41 72.37	19.60 18.74	2.23	80.0 80.0	± 9.6 %
	16-QAM, UL Subframe=2,3,4,7,8,9)	+,-		<u> </u>				
	<u> </u>	Y	3.61	68.70	16.60		80.0	
10505-		Z	4.08	70.92	17.85		80.0	
AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.65	71.98	18.60	2.23	80.0	± 9.6 %
		Y	3.70	68.57	16.58		80.0	
		Z	4.15	70.65	17.75		80.0	<u> </u>
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.12	77.51	20.55	2.23	80.0	±9.6%
		Y	4.23	71.76	17.81		80.0	
		Z	5.05	74.93	19.43		80.0	
10507- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.87	71.54	18.67	2.23	80.0	± 9.6 %
		Y	4.03	68.61	16.98		80.0	

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10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL -Subframe=2,3,4,7,8,9)	x	4.89	71.05	18.50	2.23	80.0	± 9.6 %
		Y	4.11	68.38	16.94	<u> </u>	80.0	
		z	4.44	69.91	17.84		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.96	74.88	19.56	2.23	80.0	± 9.6 %
		Y	4.57	70.72	17.48	<u> </u>	80.0	
		Ζ	5.19	73.07	18.73		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.27	70.82	18.44	2.23	80.0	± 9.6 %
		Y	4.52	68.43	17.07		80.0	
		Z	4.83	69.75	17.85		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.27	70.43	18.33	2.23	80.0	± 9.6 %
		Y	4.58	68.22	17.03		80.0	
		Z	4.86	69.45	17.77		80.0	
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.66	77.38	20.34	2.23	80.0	± 9.6 %
		Y	4.73	71.97	17.80		80.0	
		Z	5.58	74.94	19.30		80.0	
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.21	71.34	18.64	2.23	80.0	± 9.6 %
	+	Y	4.41	68.67	17.14		80.0	
10511		Z	4.74	70.10	17.99		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.16	70.71	18.44	2.23	80.0	± 9.6 %
		Y	4.43	68.30	17.06		80.0	
		Z	4.73	69.61	17.84		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.96	63.31	14.85	0.00	150.0	± 9.6 %
	<u> </u>	Y	0.84	61.78	13.32		150.0	
		Z	0.94	62.83	14.31		150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duly cycle)	X	0.65	72.36	18.25	0.00	150.0	± 9.6 %
		Y	0.38	65.35	12.87		150.0	
10517		Z	0.52	68.34	15.90		150.0	
10517- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.82	65.48	15.61	0.00	150.0	± 9.6 %
		Y	0.66	62.90	13.28		150.0	
10518- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	Z X	<u>0.77</u> 4.57	64.43 66.72	<u>14.74</u> 16.21	0.00	150.0 150.0	± 9.6 %
		Y	4.39	66.29	15.83		150.0	
		z	4.46	66.66	16.07	-·	150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.77	66.98	16.33	0.00	150.0	± 9.6 %
_		Y	4.57	66.53	15.96		150.0	
		Z	4.64	66.88	16.18		150.0	
10520- AAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.62	66.95	16.26	0.00	150.0	± 9.6 %
		Y	4.42	66.47	15.86		150.0	
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	Z X	4.49 4.56	66.83 66.96	<u>16.10</u> 16.25	0.00	150.0 150.0	± 9.6 %
		Y	4.35	66.45	15.84		150.0	
		Z	4.43	66.82	16.08		150.0	
10522- AAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.61	67.00	16.31	0.00	150.0	± 9.6 %
		Y	4.41	66.56	15.94		150.0	
		Z	4.49	66.93	16.18		150.0	

10523- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.49	66.88	16.16	0.00	150.0	± 9.6 %
		Y	4.29	66.41	15.77		150.0	
		Z	4.37	66.81	16.03	<u> </u>	150.0	+
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	Х	4.56	66.93	16.29	0.00	150.0	± 9.6 %
		Y	4.35	66.47	15.90		150.0	
		Z	4.43	66.84	16.14		150.0	I — —
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.53	65.97	15.88	0.00	150.0	± 9.6 %
		Y	4.34	65.51	15.50		150.0	
10526-		Z	4.42	65.91	15.75		150.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.72	66.36	16.02	0.00	150.0	± 9.6 %
		Y	4.50	65.86	15.64		150.0	
10527-	IEEE 802.11ac WiFi (20MHz, MCS2,	Ż	4.58	66.26	15.88	<u> </u>	150.0	<u> </u>
AAB	99pc duty cycle)	X	4.63	66.33	15.97	0.00	150.0	± 9.6 %
		Y	4.42	65.81	15.57		150.0	
10528-		Z	4.50	66.22	15.82		150.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.65	66.35	16.00	0.00	150.0	± 9.6 %
	+	Y	4.44	65.83	15.60		150.0	
10529-		Z	4.52	66.23	15.85		150.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.65	66.35	16.00	0.00	150.0	± 9.6 %
		Y	4.44	65.83	15.60		150.0	
10531-		Z	4.52	66.23	15.85		150.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.65	66.47	16.02	0.00	150.0	± 9.6 %
		Y	4.43	65.92	15.60		150.0	
40500		<u>Z</u>	4.51	66.32	15.86		150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.51	66.33	15.96	0.00	150.0	± 9.6 %
	<u> </u>	Y	4.29	65.76	15.53		150.0	
40500		Z	4.37	66.17	15.79		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.66	66.38	15.99	0.00	150.0	± 9.6 %
		Y	4.45	65.88	15.59		150.0	
		Z	4.53	66.29	15.85		150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.17	66.46	16.05	0.00	150.0	±9.6 %
		Y	4,99	66.00	15.72		150.0	
		Z	5.06	66.33	15.92		150.0	
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.23	66.61	16.11	0.00	150.0	±9.6 %
	<u> </u>	Y	5.05	66.18	15.80		150.0	
10500		Z	5.12	66.50	16.00		150.0	
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.11	66.59	16.08	0.00	150.0	±9.6 %
		Y	4.92	66.11	15.74		150.0	
10507		Z	4.99	66.46	15.96		150.0	
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	x	5.17	66.55	16.07	0.00	150.0	±9.6 %
		Υ	4.98	66.09	15.73		150.0	
0500		Z	5.05	66.42	15.94		150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.27	66.59	16.13	0.00	150.0	± 9.6 %
		Y	5.07	66.11	15.79		150.0	
		Ζ	5.13	66.43	15.99		150.0	
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.18	66.58	16.14	0.00	150.0	±9.6 %
		Y	5.00	66.14	15.81		150.0	
		z		00.14	10.01	1	150.0	

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10541- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	x	5.16	66.47	16.08	0.00	150.0	± 9.6 %
		Y	-4.98-	66.00	-15.74-		-150:0-	
		Z	5.04	66.33	15.94		150.0	-
10542- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.31	66.52	16.12	0.00	150.0	± 9.6 %
		_ Y	5.13	66.08	15.80		150.0	
		Z	5.20	66.40	15.99		150.0	
10543- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.39	66.55	16.15	0.00	150.0	±9.6 %
		Y	5.21	66.12	15.85		150.0	
		Z	5.27	66.42	16.03		150.0	
10544- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)		5.46	66.58	16.04	0.00	150.0	± 9.6 %
		Y	5.30	66.13	15.73		150.0	
10515		Z	5.37	66.45	15.92		150.0	
10545- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.66	66.96	16.17	0.00	150.0	± 9.6 %
		Y	5.49	66.55	15.89		150.0	
105.15		Z	5.55	66.83	16.06		150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.54	66.82	16.12	0.00	150.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	5.36	66.33	15.79		150.0	
		Z	5.43	66.63	15.98		150.0	
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.62	66.87	16.14	0.00	150.0	± 9.6 %
		Y	5.43	66.37	15.81		150.0	
		Z	5.50	66.68	15.99		150.0	
10548- AAB	IEEE 802.11ac WiFl (80MHz, MCS4, 99pc duly cycle)	X	5.86	67.74	16.55	0.00	150.0	± 9.6 %
		Y	5.67	67.27	16.23		150.0	
		Z	5.69	67.44	16.35		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.56	66.80	16.12	0.00	150.0	± 9.6 %
		Y	5.39	66.36	15.82		150.0	
		Z	5.46	66.66	16.01		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.57	66.85	16.11	0.00	150.0	± 9.6 %
		Y	5.40	66.39	15.80		150.0	
		Z	5.46	66.70	15.98		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.49	66.65	16.02	0.00	150.0	± 9.6 %
		Y	5.31	66.19	15.71		150.0	
		Z	5.39	_ 66.53	15.91		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.58	66.70	16.08	0.00	150.0	± 9.6 %
		Y	5.40	66.23	15.76		150.0	
		Z	5.46	66.55	15.95	_	150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.86	66.94	16.13	0.00	150.0	± 9.6 %
		Y	5.71	66.51	15.83		150.0	
		Z	5.78	66.81	16.01		150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.99	67.23	16.25	0.00	150.0	±9.6 %
		Y	5.84	66.80	15.96		150.0	
		Z	5.90	67.08	16.13		150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.01	67.27	16.26	0.00	150.0	± 9.6 %
		Y	5.86	66.85	15.98		150.0	
		Z	5.92	67.13	16.14		150.0	
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.99	67.21	16.25	0.00	150.0	± 9.6 %
		Y	5.82	66.75	15.94		150.0	1
		Z	5.88	67.04	16.12		150.0	

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10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.04	67.37	16.35	0.00	150.0	± 9.6 %
L		Y	5.87	66.91	16.04		150.0	1
		Z	5.93	67.19	16.21		150.0	<u>├──</u> ─
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	Х	6.04	67.24	16.32	0.00	150.0	± 9.6 %
		Y	5.86	66.76	16.01	†	150.0	
		Z	5.93	67.06	16.18	<u> </u>	150.0	T
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.96	67.19	16.33	0.00	150.0	± 9.6 %
		Y	5.79	66.74	16.03	1	150.0	
		Z	5.85	67.02	16.20		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.09	67.59	16.54	0.00	150.0	± 9.6 %
		<u>Y</u>	5.90	67.09	16.20		150.0	
4050		Z_	5.95	67.34	16.36		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.40	68.10	16.74	0.00	150.0	± 9.6 %
		Y	6.09	67.26	16.25		150.0	
40501		Z	6.10	67.40	16.34		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	4.91	66.83	16.38	0.46	150.0	±9.6 %
	<u> </u>	Y	4.72	66.39	16.00		150.0	
40505		Z	4.79	66.74	16.23		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duly cycle)	X	5.15	67.28	16.70	0.46	150.0	± 9.6 %
		Y	4.95	66.86	16.35	_	150.0	
40500		Z	<u>5.01</u>	67.18	16.55		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	Х	4.98	67.15	16.53	0.46	150.0	± 9.6 %
		Y	4.78	66.68	16.14		150.0	
		Z	4.85	67.02	16.37		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	5.01	67.53	16.87	0.46	150.0	±9.6 %
		Y	4.81	67.10	16.52		150.0	
		Z	4.88	67.43	16.73		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	4.90	66.92	16.31	0.46	150.0	± 9.6 %
		Y ]	4.69	66.43	15.89		150.0	
10-00		Z	4.76	66.79	16.13		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	4.96	67.60	16.92	0.46	150.0	± 9.6 %
	<u> </u>	Y	4.77	67.21	16.59		150.0	
40570		Z	4.85	67.56	16.82		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	5.00	67.44	16.85	0.46	150.0	± 9.6 %
		<u>Y</u>	4.80	67.04	16.52		150.0	
10571-		Ż	4.87	67.38	16.73		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.29	65.85	16.32	0.46	130.0	±9.6 %
	+	Y	1.10	63.71	14.50		130.0	
10572-		Z	1.22	64.94	15.58		130.0	
AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.31	66.54	16.72	0.46	130.0	± 9.6 %
	<u>+</u>	Y	1.11	64.23	14.81		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duly cycle)	Z X	1.23 9.74	65.55 108.45	15.95 29.70	0.46	130.0 130.0	± 9.6 %
		Y	1.30	75 70	47.45		400	
		z	2.64	75.72	17.45		130.0	
10574-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	X		87.43	23.09		130.0	
10574- AAA	Mbps, 90pc duty cycle)		1.61	74.07	20.25	0.46	130.0	± 9.6 %
		I V I	4 4 0		47.00			
		Y Z	<u>1.18</u> 1.41	69.07 71.71	17.08 18.93		130.0 130.0	

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10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-		474	00.00	10.10	0.10	400.0	
AAA	OFDM, 6 Mbps, 90pc duty cycle)	X	4.71	66.68	16.48	0.46	130.0	± 9.6 %
		Ι Y Ι	-4.52-	-66.23	16.07		-130.0-	
		Z	4.60	66.59	16.31		130.0	
10576- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	X	4.74	66.84	16.54	0.46	130.0	± 9.6 %
		Y	4.55	66.40	16.14	· · -	130.0	
		Z	4.62	66.76	16.38		130.0	
10577- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	X	4.95	67.14	16.71	0.46	130.0	± 9.6 %
		Y	4.75	66.69	16.32		130.0	
		Z	4.81	67.03	16.54		130.0	
10578- <u>A</u> AA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.85	67.32	16.81	0.46		± 9.6 %
		Y	4.65	66.85	16.42			
		Z	4.72	67.20	16.65			
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.62	66.66	16.16	0.46		± 9.6 %
		Y	4.40	66.07	15.67			
40505		Z	4.48	66.45	15.94		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	X	4.67	66.65	16.17	0.46		± 9.6 %
		Y	4.45	66.12	15.69			
		Z	4.52	66.50	15.96			
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.76	67.38	16.77	0.46		± 9.6 %
		Y	4.54	66.88	16.35			
		Z	4.62	67.26	16.61			
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.57	66.41	15.96	0.46	130.0	± 9.6 %
		Y	4.35	65.82	15.45		130.0	
		Z	4.42	66.20	15.72		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.71	66.68	16.48	0.46	130.0	± 9.6 %
		Y	4.52	66.23	16.07		130.0	
		Z	4.60	66.59	16.31		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.74	66.84	16.54	0.46	130.0	± 9.6 %
		Y	4.55	66.40	16.14		130.0	
		Z	4.62	66.76	16.38		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.95	67.14	16.71	0.46	130.0	± 9.6 %
		Y	4.75	66.69	16.32		130.0	
		Z	4.81	67.03	16.54		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.85	67.32	16.81	0.46	130.0	± 9.6 %
		Ϋ́	4.65	66.85	16.42		130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0         130.0	
		Z	4,72	67.20	16.65			
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.62	66.66	16.16	0.46	130.0	± 9.6 %
		Y	4.40	66.07	15.67			
	· · · · · · · · · · · · · · · · · · ·	Z	4.48	66.45	15.94			
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.67	66.65	16.17	0.46		± 9.6 %
		Y	4.45	66.12	15.69			
		Z	4.52	66.50	15.96			
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.76	67.38	16.77	0.46	130.0	± 9.6 %
		Y	4.54	66.88	16.35			
		Z	4.62	67.26	16.61		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.57	66.41	15.96	0.46	130.0	± 9.6 %
		Y	4.35	65.82	15.45		130.0	
		Z	4.42	66.20	15.72		130.0	

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10591- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.86	66.73	16.57	0.46	130.0	± 9.6 %
		Y	4.68	66.31	16.19		130.0	
		Ż	4.75	66.65	16.42		130.0	
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	5.03	67.07	16.70	0.46	130.0	± 9.6 %
		Y	4.82	66.64	16.32		130.0	
		Z	4.89	66.98	16.55		130.0	
10593-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.95	67.01	16.59	0.46	130.0	± 9.6 %
AAB	MCS2, 90pc duty cycle)	Y	4.74	66.53	16.19	0.40	130.0	
		Ż	4.81	66.88	16.42	-	130.0	<u> </u>
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	5.00	67.16	16.74	0.46	130.0	± 9.6 %
		Y	4.80	66.71	16.35		130.0	
		Z	4.87	67.05	16.58		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.98	67.12	16.64	0.46	130.0	± 9.6 %
		- Y	4.77	66.66	16.24		130.0	
		Z	4.84	67.01	16.48		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.91	67.13	16.65	0.46	130.0	± 9.6 %
		Y	4.70	66.64	16.23		130.0	
		Z	4.77	67.00	16.48		130.0	<u> </u>
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.86	67.05	16.54	0.46	130.0	± 9.6 %
		Y	4.65	66.53	16.11		130.0	
		Ż	4.72	66.89	16.35	<u> </u>	130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.85	67.29	16.80	0.46	130.0	± 9.6 %
		Y	4.64	66.79	16.39		130.0	
	· · · · · · · · · · · · · · · · · · ·	z	4.71	67.14	16.62		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.52	67.26	16.75	0.46	130.0	± 9.6 %
		· Y	5.35	66.89	16.44		130.0	
		Z	5.40	67.12	16.60		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	x	5.66	67.69	16.93	0.46	130.0	±9.6%
		Y	5.48	67.29	16.61		130.0	
		Z	5.51	67.49	16.75		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	x	5.55	67.44	16.82	0.46	130.0	± 9.6 %
		Y	5.37	67.03	16.50		130.0	
		Z	5.41	67.28	16.67		130.0	·
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.63	67.42	16.73	0.46	130.0	± 9.6 %
	l	Y	5.47	67.07	16.43		130.0	
		_ Z	5.52	67.35	16.62		130.0	
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duly cycle)	X	5.73	67.77	17.03	0.46	130.0	± 9.6 %
	<u> </u>	Y	5.54	67.38	16.72		130.0	
4000:		Z	5.59	67.61	16.88		130.0	_
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.52	67.21	16.74	0.46	130.0	± 9.6 %
	╀─────────────────────────────────────	Y	5.37	66.89	16.47		130.0	
		Z	5.43	67.20	16.66		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.62	67.51	16.90	0.46	130.0	± 9.6 %
	·	Y	5.47	67.18	16.61		130.0	
		Z	5.51	67.41	16.77		130.0	
10606- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.41	67.01	16.51	0.46	130.0	± 9.6 %
		Y	5.20	66.48	16.11		130.0	
			I	00.10			י יו.טב,ן ן	

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10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duly cycle)	X	4.70	66.05	16.19	0.46	130.0	± 9.6 %
			4.50	-65.58-	15.79		130.0-	
		<u>Z</u>	4.58	65.97	16.04		130.0	
10608- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.90	66.46	16.36	0.46	130.0	± 9.6 %
		Y	4.68	65.97	15.95		130.0	
		Z	4.76	66.35	16.20		130.0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.79	66.33	16.21	0.46	130.0	± 9.6 %
		Y	4.57	65.80	15.77		130.0	
40040		Z	4.65	66.20	16.03		130.0	
10610- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.84	66.49	16.37	0.46	130.0	± 9.6 %
		Y	4.62	65.97	15.94		130.0	·
40044		Z	4.70	66.36	16.20		130.0	
10611- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duly cycle)	X	4.76	66.30	16.22	0.46	130.0	± 9.6 %
		Y	4.54	65.77	15.78		130.0	
100/2		Z	4.62	66.16	16.05		130.0	
10612- AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.77	66.46	16.27	0.46	130.0	± 9.6 %
		Y	4.54	65.90	15.81		130.0	
104		Z	4.62	66.31	16.09		130.0	
10613- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.78	66.37	16.16	0.46	130.0	± 9.6 %
		Y	4.54	65.78	15.69		130.0	
		Z	4.62	66.17	15.96		130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.71	66.54	16.39	0.46	130.0	± 9.6 %
		Y	4.49	65.99	15.94		130.0	
-		Z	4.57	66.38	16.21		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.76	66.13	16.01	0.46	130.0	± 9.6 %
		Y	4.53	65.58	15.54		130.0	
		Z	4.61	65.99	15.82		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.34	66.54	16.37	0.46	130.0	± 9.6 %
		Y	5.15	66.08	16.02		130.0	
		Z	5.22	66.40	16.23		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.40	66.66	16.40	0.46	130.0	± 9.6 %
		Y	5.22	66.26	16.08	-	130.0	
		Z	5.28	66.57	16.28		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.29	66.72	16.45	0.46	130.0	± 9.6 %
		Y	5.11	66.26	16.09		130.0	
		Z	5.17	66.59	16.31		130.0	1
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.31	66.54	16.30	0.46	130.0	± 9.6 %
		Y	5.12	66.05	15.93		130.0	
		Z	5.19	66.37	16.14		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.42	66.61	16.38	0.46	130.0	± 9.6 %
		Y	5.21	66.11	16.00		130.0	
		Z	5.27	66.42	16.21		130.0	
10621- 	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.40	66.69	16.53	0.46	130.0	± 9.6 %
		Y	5.22	66.26	16.21		130.0	
		Z	5.28	66.57	16.40		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.40	66.82	16.59	0.46	130.0	± 9.6 %
		Y	5.23	66.42	16.28		130.0	
		Z	5.29	66.72	16.47		130.0	

10623- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.29	66.39	16.26	0.46	130.0	± 9.6 %
		Y	5.10	65.92	15.89		130.0	
		Z	5.17	66.24	16.10		130.0	<b>—</b>
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.48	66.58	16.41	0.46	130.0	± 9.6 %
		Y	5.30	66.14	16.07		130.0	
_		Z	5.36	66.44	16.27			
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.86	67.56	16.95	0.46	130.0	± 9.6 %
		Y	5.64	67.07	16.59		130.0	<u> </u>
		Z	5.66	67.24	16.72			<u> </u>
10626- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	Х	5.61	66.59	16.31	0.46	130.0	± 9.6 %
		Y	5.45	66.15	15.99		130.0	
		Z	5.52	66.46	16.19			_
10627- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.85	67.11	16.53	0.46	130.0	± 9.6 %
			5.69	66.72	16.24		130.0	
		Z	5.74	66.98	16.41			F
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.66	66.72	16.28	0.46	130.0	± 9.6 %
		Y	5.48	66.22	15.91		130.0	
		Z	5.54	66.51	16.11			F
10629- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.75	66.81	16.31	0.46	130.0	± 9.6 %
		TY	5.55	66.27	15.93		130.0	
		Z	5.61	66.56	16.12			
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.18	68.27	17.04	0.46	130.0	± 9.6 %
		Y	5.98	67.75	16.67		130.0	
		Z	5.96	67.79	16.74			
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	Ī	6.10	68.12	17.15	0.46	130.0	± 9.6 %
		TY	5.88	67.58	16.79		130.0	
		Z	5.92	67.78	16.93			
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.82	67.18	16.70	0.46	130.0	±9.6 %
		Y	5.67	66.81	16.43	_	130.0	
		z	5.72	67.07	16.59			
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.73	66.90	16.39	0.46	130.0	±9.6 %
		Y	5.54	66.39	16.03		130.0	
		Z	5.61	66.71	16.24			
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.72	66.92	16.46	0.46	130.0	± 9.6 %
		Y	5.53	66.43	16.11		130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0           130.0 </td <td></td>	
		Z	5.60	66.74	16.31			
10635- VAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.61	66.29	15.89	0.46		±9.6 %
		Y	5.40	65.72	15.48		130.0	
		Z	5.47	66.04	15.69			
10636- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duly cycle)	X	6.02	66.96	16.40	0.46		±9.6 %
		Y	5.87	66.52	16.09		130.0	
		Z	5.93	66.81	16.27			
10637- \AC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.18	67.32	16.56	0.46		± 9.6 %
		Y	6.02	66.91	16.26		130.0	_
		Z	6.07	67.17	16.43			
10638- AC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duly cycle)	Ī	6.18	67.31	16.53	0.46		± 9.6 %
		1 Y	6.02	66.87	16.22		120.0	
		Z	6.08	67.16			130.0	
		14	0.00	I 07.16	_ 16.40 [		130.0	

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10639- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.17	67.29	16.57	0.46	130.0	± 9.6 %
		Y I	6.00	66.82	16.24		130.0	
		Z	6.05	67.10	16.42	· ·	130.0	
10640- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.18	67.33	16.53	0.46	130.0	± 9.6 %
/ / (0		Y	6.00	66.82	16.18		130.0	-
	· · · · · · · · · · · · · · · · · · ·	Ż	6.05	67.09	16.35		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.20	67.15	16.46	0.46	130.0	± 9.6 %
		İΥ	6.05	66.75	16.16		130.0	
		Z		67.02			130.0	
10642- AAC	IEEE 802.11ac WIFi (160MHz, MCS6, 90pc duty cycle)	X	6.26	67.46	16.78	0.46	130.0	± 9.6 %
			6.09		16.47		130.0	
							130.0	
10643- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duly cycle)					0.46	130.0	± 9.6 %
							130.0	
	-						130.0	
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)					0.46	130.0	± 9.6 %
	<u> </u>						130.0	
40045						0.15	130.0	
10645- AAC	Y         6.05         66.75         16.16           Z         6.10         67.02         16.33           IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)         Y         6.09         67.46         16.78           Y         6.09         67.01         16.47         2         6.15         67.28         16.64           IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)         Y         5.92         66.67         16.19           Z         5.98         66.95         16.36         16.83           IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)         Y         5.92         66.67         16.19           Z         5.98         66.95         16.36         16.83           90pc duty cycle)         Y         6.07         67.13         16.44           Z         6.12         67.37         16.60           IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)         X         6.69         68.48         17.16           Y         6.31         67.59         16.66         16.61         Z         6.31         67.59         16.66           LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)         X         81.88         138.93         44.99           QPSK, UL Subframe=2,7)<	0.46	130.0	± 9.6 %				
	· · ·						130.0	
10646- AAD						9.30	130.0 60.0	± 9.6 %
			20.09	105 55	34 68		60.0	
	-						60.0	
10647- AAC						9.30	60.0	± 9.6 %
		Y	19.01	105.10	34.68		60.0	
	•	Z					60.0	
10648- AAA	CDMA2000 (1x Advanced)		0.73	64.13	11.44	0.00	150.0	± 9.6 %
							150.0	
				62.66	9.90		150.0	
10652- AAB						2.23	80.0	± 9.6 %
							80.0	
10653- AAB						2.23	80.0 80.0	± 9.6 %
		+ v	4 26	66.28	16 44		80.0	1
						<b>ŀ</b> −.	80.0	1
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.61	67.29	17.38	2.23	80.0	± 9.6 %
		Y	4.24	65.98	16.48		80.0	
		Z	4.40	66.77	16.98		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.67	67.29	17.41	2.23	80.0	± 9.6 %
		Y	4.30	65.98	16.52		80.0	
40050			4.46	66.74	17.01	40.00	80.0	
10658- AAA	Pulse Waveform (200Hz, 10%)	X	77.76	113.37	29.51	10.00	50.0	± 9.6 %
		Y	8.85	80.14	18.93		50.0	
		Z	55.85	107.32	27.27	0.07	50.0	
10659- AAA	Pulse Waveform (200Hz, 20%)	X	100.00	113.86	27.83	6.99	60.0	± 9.6 %
		Y	15.18	87.15	19.66	L	60.0	I
		Z	100.00	112.04	26.63		60.0	l

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10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	112.50	25.83	3.98	80.0	± 9.6 %
		Y	63.58	100.49	21.01		80.0	
		Z	100.00	110.06	24,42		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	x	100.00	114.00	25.19	2.22	100.0	± 9.6 %
		Y	13.64	84.95	15.36		100.0	
		Z	100.00	110.38	23.34		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	X	100.00	118.57	25.30	0.97	120.0	± 9.6 %
		Y	0.28	60.00	4.66		120.0	
		Z	100.00	111.08	22,00		120.0	

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