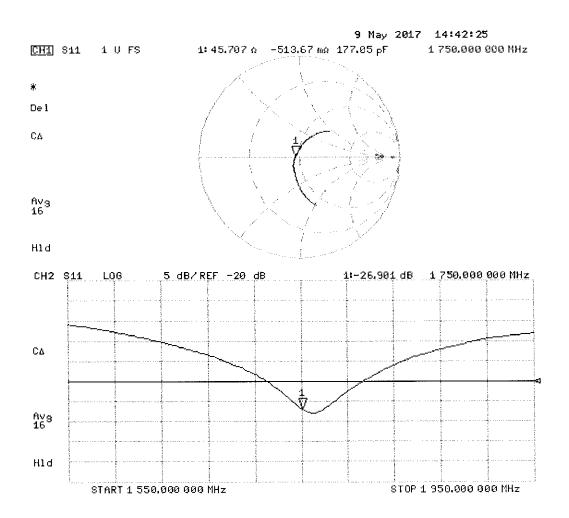
Impedance Measurement Plot for Body TSL



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 D1750V2 – SN: 1148

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

Extended Calibration date: May 09, 2018

Description: SAR Validation Dipole at 1750 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	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	6/1/2017	Annual	6/1/2018	MY53401181
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	2/9/2018	Annual	2/9/2019	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/21/2017	Annual	6/21/2018	1333
SPEAG	DAK-3.5	Dielectric Assessment Kit	9/12/2017	Annual	9/12/2018	1091
SPEAG	ES3DV3	SAR Probe	9/18/2017	Annual	9/18/2018	3287
SPEAG	ES3DV3	SAR Probe	2/13/2018	Annual	2/13/2019	3213
Anritsu	MA2411B	Pulse Power Sensor	3/2/2018	Annual	3/2/2019	1207364
Anritsu	MA2411B	Pulse Power Sensor	3/2/2018	Annual	3/2/2019	1339018
Agilent	N5182A	MXG Vector Signal Generator	4/18/2018	Annual	4/18/2019	MY47420800
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
Agilent	8753ES	S-Parameter Network Analyzer	9/14/2017	Annual	9/14/2018	US39170118
Pasternack	NC-100	Torque Wrench	4/18/2018	Annual	4/18/2019	1445
Anritsu	ML2495A	Power Meter	10/22/2017	Annual	10/22/2018	941001

Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Brodie Halbfoster	Test Engineer	BRODTE HALBFOSTER
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	20K

Object:	Date Issued:	Page 1 of 4
D1750V2 – SN: 1148	05/09/2018	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:

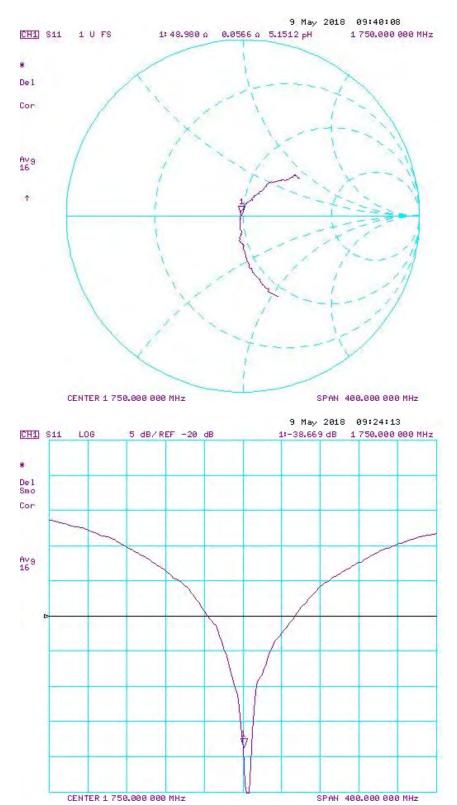
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance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

Date	Extension Date	Certificate Electrical Delay (ns)	Head (1g) W/kg @ 20.0 dBm	Head SAR (1g)	(%)	VV/kg @ 20.0 dBm	(10g) W/kg @ 20.0 dBm		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	Head (dB)	Head (dB)	Deviation (%)	
5/9/2017	5/9/2018	1.223	3.64	3.59	-1.37%	1.93	1.91	-1.04%	49.8	49.0	0.8	-0.7	0.1	0.8	-42.9	-38.7	9.90%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)		Mar @ 20 0	(9/.)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	(10a) W/ka @	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	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
5/9/2017	5/9/2018	1.223	3.7	3.88	4.86%	1.98	2.06	4.04%	45.7	45.4	0.3	-0.5	-2.6	2.1	-26.9	-25.0	7.20%	PASS

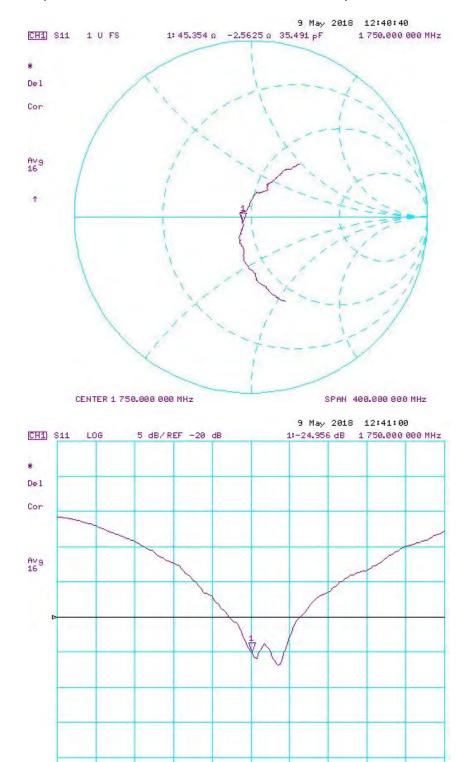
Object:	Date Issued:	Page 2 of 4
D1750V2 – SN: 1148	05/09/2018	rage 2 01 4

Impedance & Return-Loss Measurement Plot for Head TSL



Object:	Date Issued:	Page 2 of 4
D1750V2 – SN: 1148	05/09/2018	Page 3 of 4

Impedance & Return-Loss Measurement Plot for Body TSL



CENTER 1 750.000 000 MHz

Object:	Date Issued:	Page 4 of 4
D1750V2 – SN: 1148	05/09/2018	Page 4 of 4

SPAN 400.000 000 MHz

Calibration Laboratory of

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





- Schweizerischer Kalibrierdienst
- C Service suisse d'étalonnage
- S 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

Accreditation No.: SCS 0108

Client

PC Test

Certificate No: D1750V2-1150_Jul16

CALIBRATION CERTIFICATE

Object

D1750V2 - SN:1150

Calibration procedure(s)

QA CAL-05.v9

Calibration procedure for dipole validation kits above 700 MHz

7/9/16

Calibration date:

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Data (O. IIII)	
Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 7349 SN: 601	Cal Date (Certificate No.) 06-Apr-16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02289) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295) 15-Jun-16 (No. EX3-7349_Jun16) 30-Dec-15 (No. DAE4-601_Dec15)	Scheduled Calibration Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16
Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer HP 8753E	ID # SN: GB37480704 SN: US37292783 SN: MY41092317 SN: 100972 SN: US37390585	Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 15-Jun-15 (in house check Jun-15) 18-Oct-01 (in house check Oct-15)	Scheduled Check In house check: Oct-16
Calibrated by:	Name Jeton Kastrati	Function Laboratory Tech ni cian	Signature
Approved by:	Katja Pokovic	Technical Manager	

Issued: July 14, 2016

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

Certificate No: D1750V2-1150_Jul16

Calibration Laboratory of

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





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

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%.

Certificate No: D1750V2-1150_Jul16 Page 2 of 8

Measurement Conditions

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

DASY Version	DASY5	V52.8.8
	DAG15	V32.6.6
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	38.8 ± 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	9.06 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	36.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	4.80 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	19.2 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	53.4 ± 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	9.09 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	36.5 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	4.85 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	19.5 W/kg ± 16.5 % (k=2)

Certificate No: D1750V2-1150_Jul16 Page 3 of 8

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$50.9 \Omega + 0.4 j\Omega$
Return Loss	- 40.2 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.4 Ω - 0.5 jΩ
Return Loss	- 28.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.218 ns
	1.210115

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

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

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

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	April 10, 2015

DASY5 Validation Report for Head TSL

Date: 14.07.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1150

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

Medium parameters used: f = 1750 MHz; $\sigma = 1.36 \text{ S/m}$; $\varepsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(8.46, 8.46, 8.46); 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:

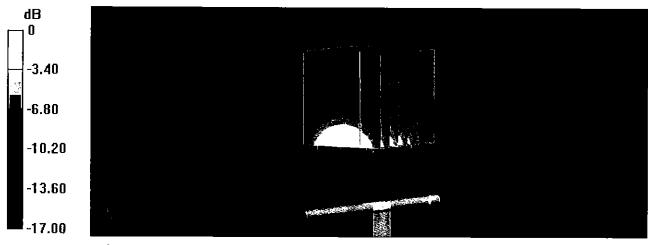
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 104.4 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 16.6 W/kg

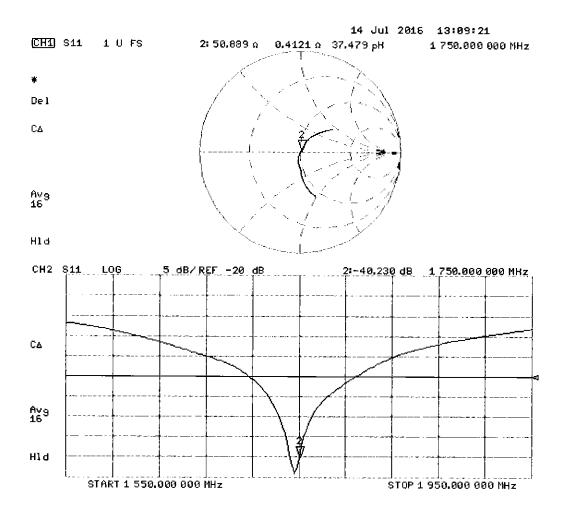
SAR(1 g) = 9.06 W/kg; SAR(10 g) = 4.8 W/kg

Maximum value of SAR (measured) = 13.9 W/kg



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

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 14.07.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1150

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

Medium parameters used: f = 1750 MHz; $\sigma = 1.48$ S/m; $\varepsilon_r = 53.4$; $\rho = 1000$ 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: 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:

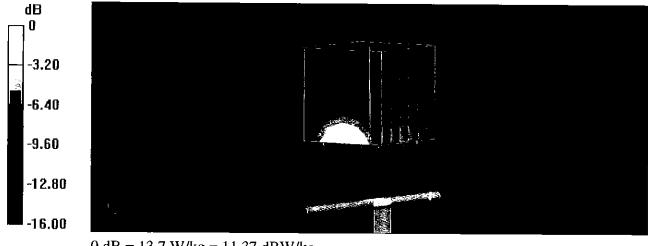
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.4 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 16.0 W/kg

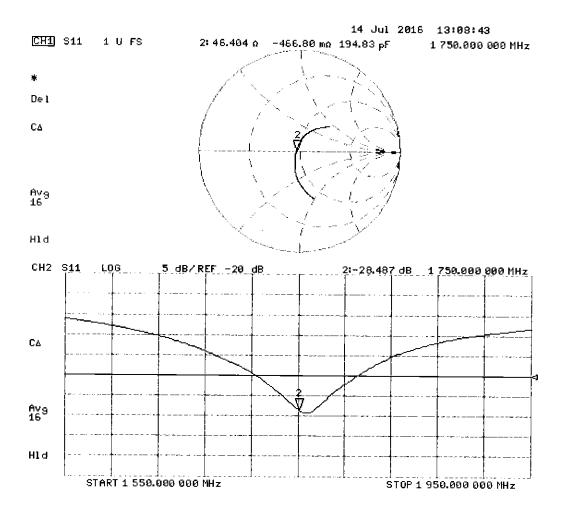
SAR(1 g) = 9.09 W/kg; SAR(10 g) = 4.85 W/kg

Maximum value of SAR (measured) = 13.7 W/kg



0 dB = 13.7 W/kg = 11.37 dBW/kg

Impedance Measurement Plot for Body TSL



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 D1750V2 – SN: 1150

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

Calibration date: July 07, 2017

Description: SAR Validation Dipole at 1750 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	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
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	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	BROPTE HALBFOSTER
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	20K

Object:	Date Issued:	Page 1 of 4
D1750V2 – SN: 1150	07/07/2017	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:

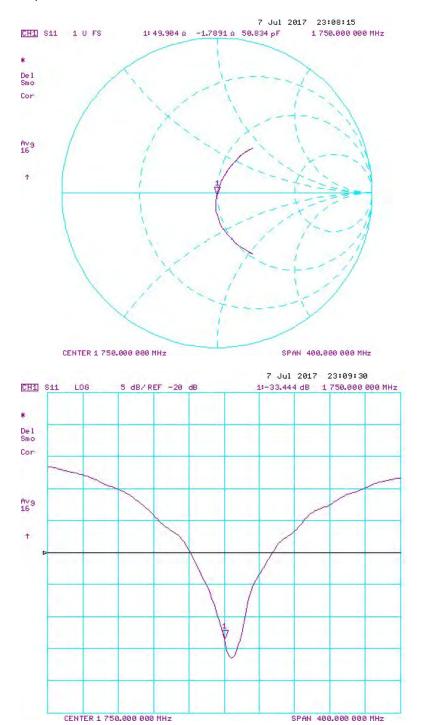
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance 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)	Certificate SAR Target Head (1g) W/kg @ 20.0 dBm	Measured Head SAR (1g) W/kg @ 20.0 dBm	70/)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	Measured Head SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
7/14/2016	7/7/2017	1.218	3.61	3.57	-1.11%	1.92	1.88	-2.08%	50.9	49.9	1	0.4	-1.8	2.1	-40.2	-33.4	16.90%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Body (1g) W/kg @ 20.0 dBm	Measured Body SAR (1g) W/kg @ 20.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm		Deviation 10g (%)		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
7/14/2016	7/7/2017	1.218	3.65	3.68	0.82%	1.95	1.97	1.03%	46.4	45.5	0.9	-0.5	0.7	1.2	-28.5	-23.6	17.20%	PASS

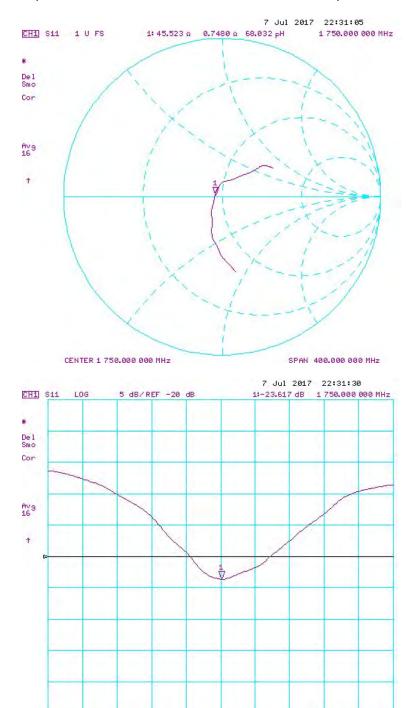
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D1750V2 – SN: 1150	07/07/2017	rage 2 01 4

Impedance & Return-Loss Measurement Plot for Head TSL



Object:	Date Issued:	Page 3 of 4
D1750V2 – SN: 1150	07/07/2017	rage 3 01 4

Impedance & Return-Loss Measurement Plot for Body TSL



CENTER 1 750.000 000 MHz

Object:	Date Issued:	Page 4 of 4
D1750V2 – SN: 1150	07/07/2017	Page 4 of 4

SPAN 400.000 000 MHz

Calibration Laboratory of

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





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

Accreditation No.: SCS 0108

Swiss Calibration Service

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

Multilateral Agreement for the recognition of calibration certificates

Client

PC Test

Certificate No: D1900V2-5d080_Jul16

		"	
Object	D1900V2 - SN:5	5d080	
Calibration procedure(s)	QA CAL-05.v9		
	Calibration proc	edure for dipole validation kits ab	ove 700 MHz
			RN/
	etti oli oli saasaa etti oli oli oli oli oli oli oli oli oli ol		Phy 7/16/2 T/16/2 Ext 0 1/2 nits of measurements (SI). nd are part of the certificate.
Calibration date:	July 08, 2016		
	Section of the sectio		Exte
This calibration continues decimal	-uka di sa		7/2
This campiation certificate docum	ents the traceability to na	tional standards, which realize the physical u	nits of measurements (SI).
me we was a rome in a large time time time time time time time tim	rtainties with confidence	probability are given on the following pages a	nd are part of the certificate.
All calibrations have been conduc	cted in the closed laborate	ory facility: environment temperature $(22 \pm 3)^{\circ}$	20 and by selection
		5.) Resincy: environment temperature (22 ± 3)	C and numidity < 70%.
Calibration Equipment used (M&	TE critical for calibration)		
rimary Standards	ID#	Cal Date (Certificate No.)	Oshaddado III. II
Power meter NRP	SN: 104778	06-Apr-16 (No. 217-02288/02289)	Scheduled Calibration Apr-17
ower sensor NRP-Z91	SN: 103244	06-Apr-16 (No. 217-02288)	Apr-17 Apr-17
ower sensor NRP-Z91	SN: 103245	06-Apr-16 (No. 217-02289)	
Reference 20 dB Attenuator	SN: 5058 (20k)	05-Apr-16 (No. 217-02292)	Apr-17
ype-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)	Apr-17
DAE4	SN: 601	30-Dec-15 (No. DAE4-601_Dec15)	Jun-17 Dec-16
econdary Standards	ID #		
ower meter EPM-442A	SN: GB37480704	Check Date (in house)	Scheduled Check
ower sensor HP 8481A	SN: US37292783	07-Oct-15 (No. 217-02222)	In house check: Oct-16
ower sensor HP 8481A		07-Oct-15 (No. 217-02222)	In house check: Oct-16
RF generator R&S SMT-06	SN: MY41092317	07-Oct-15 (No. 217-02223)	In house check: Oct-16
letwork Analyzer HP 8753E	SN: 100972	15-Jun-15 (in house check Jun-15)	In house check: Oct-16
etwork Analyzer Fir 6753E	SN: US37390585	18-Oct-01 (in house check Oct-15)	In house check: Oct-16
	Name	Function	Signature
alibrated by:	Jeton Kastrati	Laboratory Technician	1 7
			te 14-
pproved by:	Katja Pokovic	and the state of	
· · · · · · · · · · · · · · · · · · ·	· saija i okovic	Technical Manager	AS US
	and a state of the		

Certificate No: D1900V2-5d080_Jul16

Page 1 of 8

Calibration Laboratory of

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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL

tissue simulating liquid

ConvF

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
SAR for nominal Head TSL parameters	normalized to 1W	20.5 W/kg ± 16.5 % (k=2)

Body TSL parametersThe 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 cm³ (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)

Certificate No: D1900V2-5d080_Jul16 Page 3 of 8

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	$47.4 \Omega + 6.8 j\Omega$
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; $\sigma = 1.38 \text{ S/m}$; $\varepsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(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:

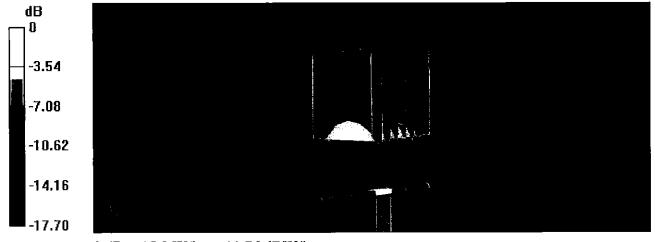
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 106.6 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 18.4 W/kg

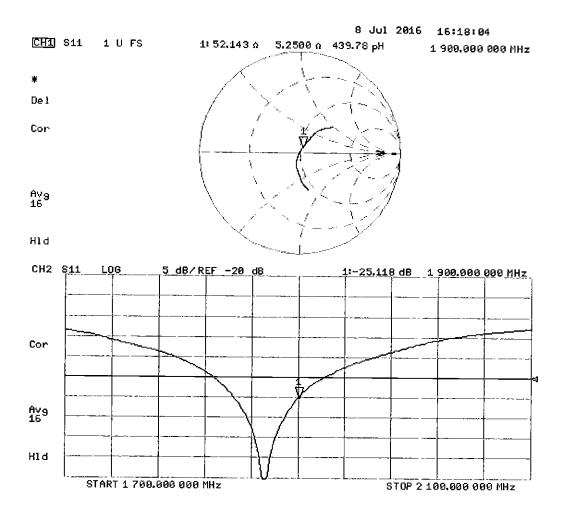
SAR(1 g) = 9.76 W/kg; SAR(10 g) = 5.1 W/kg

Maximum value of SAR (measured) = 15.0 W/kg



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

Impedance Measurement Plot for Head TSL



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; $\sigma = 1.51 \text{ S/m}$; $\varepsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(8.03, 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:

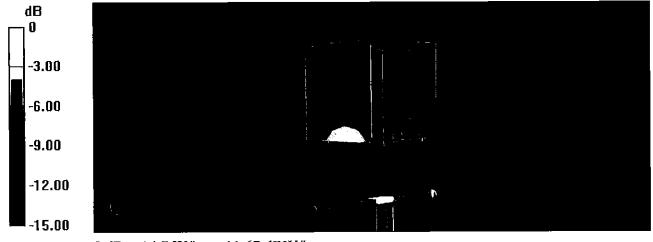
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.1 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 17.1 W/kg

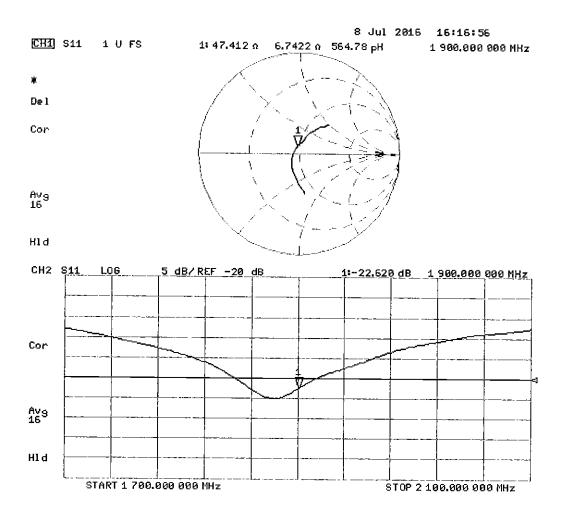
SAR(1 g) = 9.75 W/kg; SAR(10 g) = 5.17 W/kg

Maximum value of SAR (measured) = 14.7 W/kg



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

Impedance Measurement Plot for Body TSL



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 = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Brodie Halbfoster	Test Engineer	BRODIE HALBFOSTER
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	20K

Object:	Date Issued:	Dogo 1 of 4
D1900V2 - SN: 5d080	07/06/2017	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:

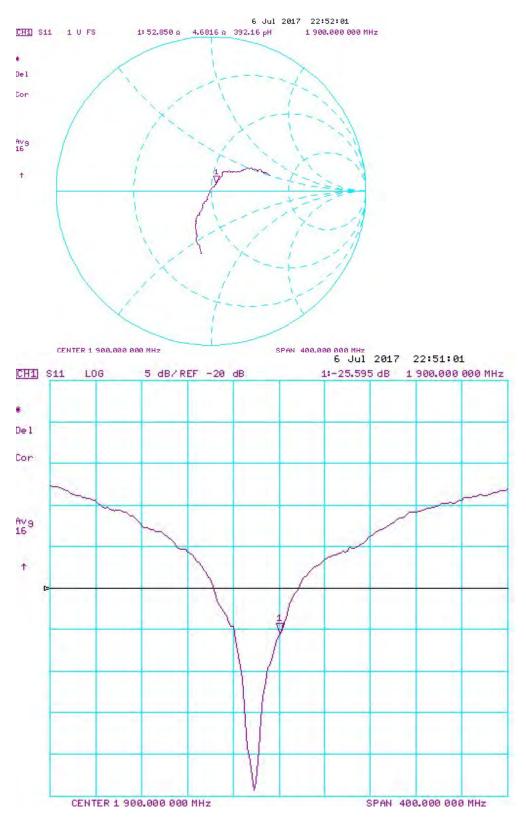
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance 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)	Certificate SAR Target Head (1g) W/kg @ 20.0 dBm	Measured Head SAR (1g) W/kg @ 20.0 dBm	70/)		(10a) W//ka @	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
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		Deviation 10g (%)		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

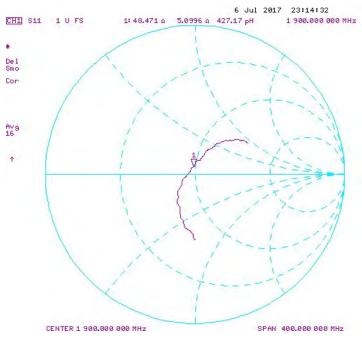
Object:	Date Issued:	Page 2 of 4
D1900V2 - SN: 5d080	07/06/2017	Page 2 of 4

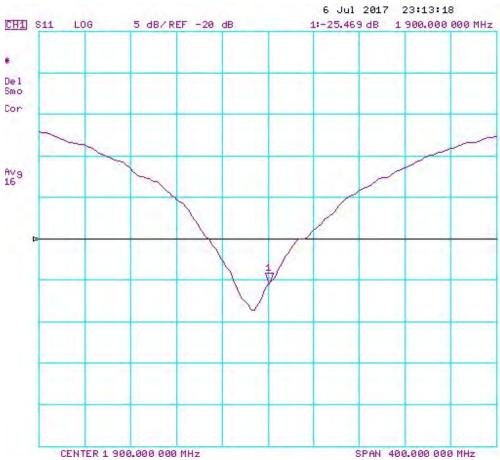
Impedance & Return-Loss Measurement Plot for Head TSL



Object:	Date Issued:	Page 3 of 4
D1900V2 - SN: 5d080	07/06/2017	rage 3 01 4

Impedance & Return-Loss Measurement Plot for Body TSL





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

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Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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Client

PC Test

Certificate No: D1900V2-5d148_Feb18

CALIBRATION CERTIFICATE

Object

D1900V2 - SN:5d148

Calibration procedure(s)

QA CAL-05.v9

Calibration procedure for dipole validation kits above 700 MHz

13-05-5018

Calibration date:

February 07, 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. 217-02522)	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
	Name	Function	Signature
Calibrated by:	Claudio Leubler	Laboratory Technician	(IA)
Approved by:	Katja Pokovic	Technical Manager	I M

Issued: February 7, 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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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)

Certificate No: D1900V2-5d148_Feb18

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$52.1 \Omega + 5.8 j\Omega$
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 (one direction)	4 400
Liectical Delay (one direction)	1.199 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	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; $\sigma = 1.39 \text{ S/m}$; $\varepsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(8.18, 8.18, 8.18); 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:

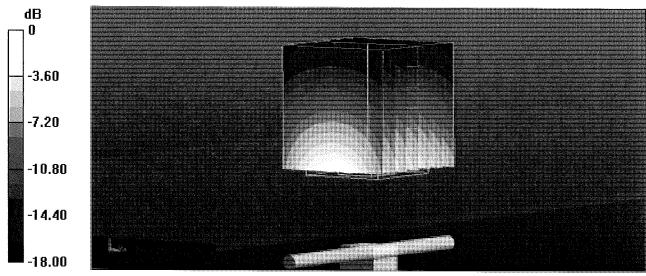
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 109.6 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 18.5 W/kg

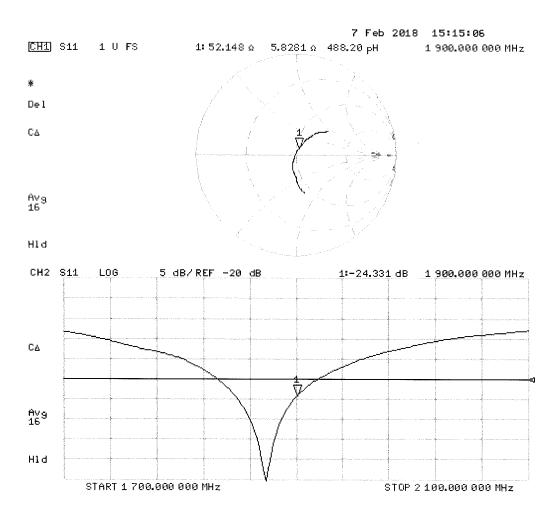
SAR(1 g) = 9.95 W/kg; SAR(10 g) = 5.22 W/kg

Maximum value of SAR (measured) = 15.3 W/kg



0 dB = 15.3 W/kg = 11.85 dBW/kg

Impedance Measurement Plot for Head TSL



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; $\sigma = 1.48 \text{ S/m}$; $\varepsilon_r = 55.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(8.15, 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:

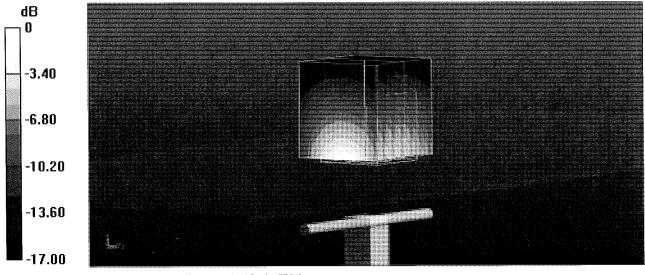
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.0 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 17.2 W/kg

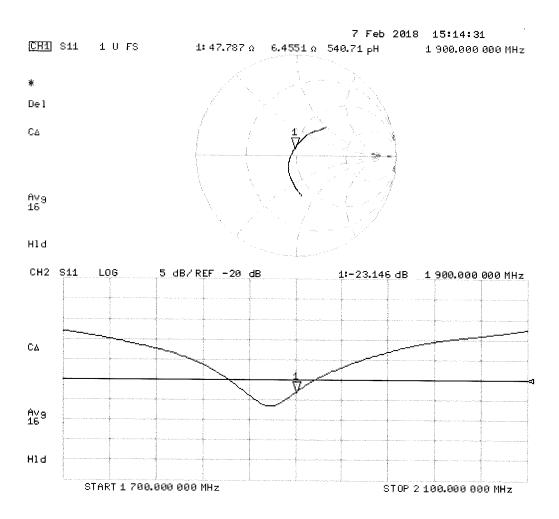
SAR(1 g) = 9.68 W/kg; SAR(10 g) = 5.14 W/kg

Maximum value of SAR (measured) = 14.4 W/kg



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

Impedance Measurement Plot for Body TSL



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





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

Accreditation No.: SCS 0108

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

Multilateral Agreement for the recognition of calibration certificates

Client

PC Test

Certificate No: D2450V2-797_Sep17

CALIBRATION CERTIFICATE

Object

D2450V2 - SN:797

Calibration procedure(s)

QA CAL-05.v9

Calibration procedure for dipole validation kits above 700 MHz

Calibration date:

September 11, 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 $(22 \pm 3)^{\circ}$ 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. 217-02522)	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
	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	MULCO
			11110X
Approved by:	Katja Pokovic	Technical Manager	0011
	and the second		Jones

Issued: September 11, 2017

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Certificate No: D2450V2-797_Sep17

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Swiss Calibration Service

Accreditation No.: SCS 0108

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Glossary:

TSL

tissue simulating liquid

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D2450V2-797_Sep17

Page 2 of 8

Measurement Conditions

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

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

Head TSL parameters

The following parameters and calculations were applied.

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

SAR result with Head TSL

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 cm³ (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)

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

Certificate No: D2450V2-797 Sep17

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; $\sigma = 1.86 \text{ S/m}$; $\varepsilon_r = 37.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(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=5mm

Reference Value = 113.5 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 26.9 W/kg

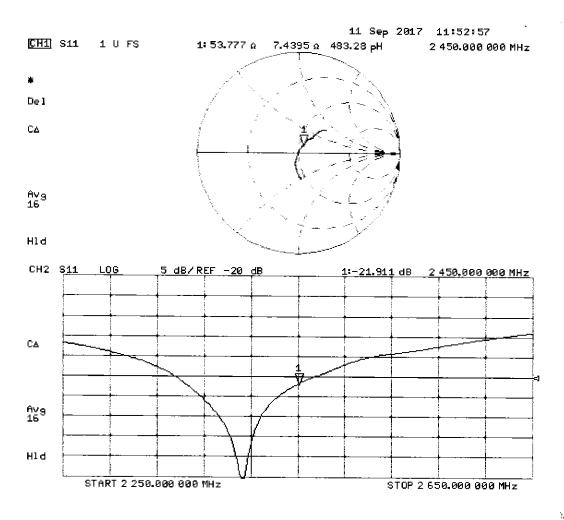
SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.28 W/kg

Maximum value of SAR (measured) = 21.6 W/kg



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

Impedance Measurement Plot for Head TSL



Certificate No: D2450V2-797_Sep17

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DASY5 Validation Report for Body TSL

Date: 11.09.2017

Test Laboratory: SPEAG, Zurich, Switzerland

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

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

Medium parameters used: f = 2450 MHz; $\sigma = 2.04$ S/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/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:

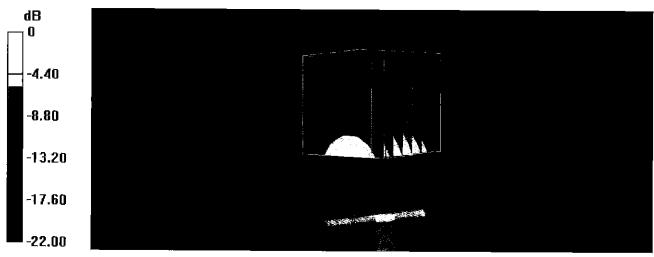
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 105.4 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 25.6 W/kg

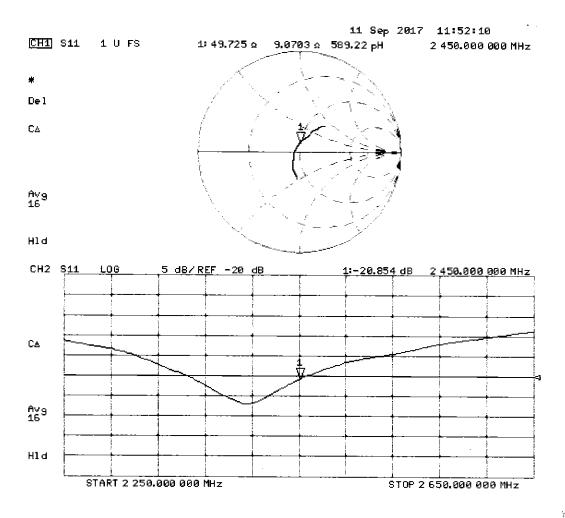
SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.14 W/kg

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



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

Impedance Measurement Plot for Body TSL



Certificate No: D2450V2-797_Sep17

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Client

PC Test

Certificate No: D2450V2-882_Feb18

CALIBRATION CERTIFICATE

Object

D2450V2 - SN:882

Calibration procedure(s)

QA CAL-05.v9

Calibration procedure for dipole validation kits above 700 MHz

13-02-2018

Calibration date:

February 07, 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. 217-02522)	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
	Name	Function	\$igna t ure
Calibrated by:	Claudio Leubler	Laboratory Technician	
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Approved by:	Katja Pokovic	Technical Manager	IS 114
			(° ' ' ' '

Issued: February 7, 2018

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Certificate No: D2450V2-882_Feb18

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Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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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, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D2450V2-882_Feb18

Measurement Conditions

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

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

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.9 ± 6 %	1.87 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	13.4 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.2 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.5 W/kg ± 16.5 % (k=2)

Body TSL parametersThe 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	51.4 ± 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	12.9 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.2 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.98 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23.6 W/kg ± 16.5 % (k=2)

Certificate No: D2450V2-882_Feb18 Page 3 of 8

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.0 Ω + 1.3 jΩ
Return Loss	- 32.6 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	48.8 Ω + 3.7 jΩ
Return Loss	- 28.1 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.156 ns

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

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

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

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	October 06, 2011

Certificate No: D2450V2-882_Feb18 Page 4 of 8

DASY5 Validation Report for Head TSL

Date: 07.02.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:882

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

Medium parameters used: f = 2450 MHz; $\sigma = 1.87 \text{ S/m}$; $\varepsilon_r = 37.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(7.88, 7.88, 7.88); 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:

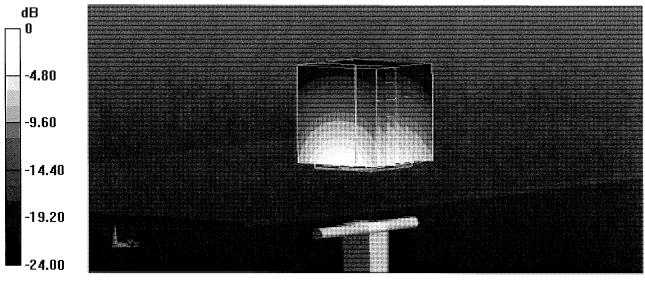
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 112.2 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 27.1 W/kg

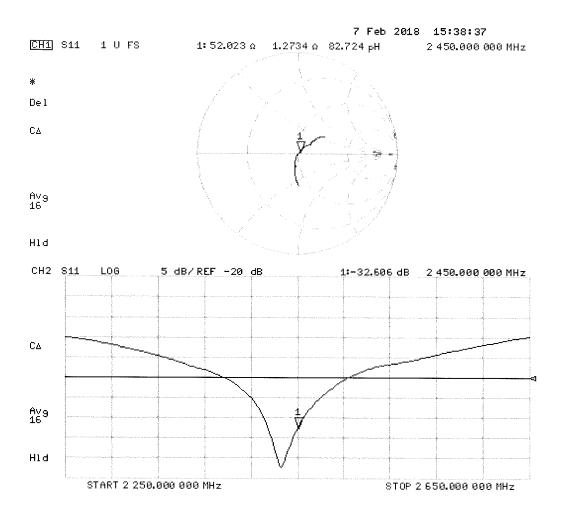
SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.22 W/kg

Maximum value of SAR (measured) = 21.6 W/kg



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

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 07.02.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:882

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

Medium parameters used: f = 2450 MHz; $\sigma = 2.04 \text{ S/m}$; $\varepsilon_r = 51.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(8.01, 8.01, 8.01); 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:

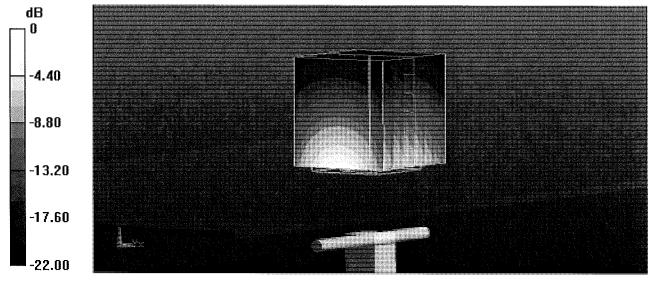
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 107.8 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 25.9 W/kg

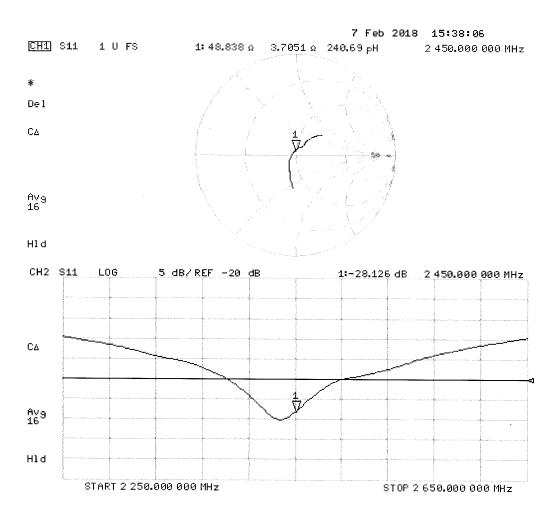
SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.98 W/kg

Maximum value of SAR (measured) = 21.2 W/kg



0 dB = 21.2 W/kg = 13.26 dBW/kg

Impedance Measurement Plot for Body TSL



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

Zeughausstrasse 43, 8004 Zurich, Switzerland





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Client

PC Test

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 8753F	SN: US37390585	18-Oct-01 (in house check Oct-17)	In house check: Oct-18

Function Name Calibrated by: Michael Weber Laboratory Technician

Approved by:

Katja Pokovic

Technical Manager

Issued: February 13, 2018

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

Certificate No: ES3-3213_Feb18

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Glossarv:

tissue simulatina 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., 9 = 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,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 ≤ 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
- 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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February 13, 2018

Probe ES3DV3

SN:3213

Manufactured: October 14, 2008

Calibrated:

February 13, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

February 13, 2018

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 ^Ŀ
			dB	dB√μV		dB	mV	(k=2)
0	CW	Х	0.0	0.0	1.0	0.00	219.3	±2.7 %
		Y	0.0	0.0	1.0		219.1	l:
		Z	0.0	0.0	1.0		213.7	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

į	C1 fF	C2 fF	α V⁻¹	T1 ms.V⁻²	T2 ms.V ⁻¹	T3 ms	T4 V⁻²	T5 V⁻¹	Т6
X	55.43	404.4	36.34	28.23	1.967	5.10	0.398	0.555	1.011
Υ	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).

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.

ES3DV3- SN:3213

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

Calibration Parameter Determined in Head Tissue Simulating Media

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 %

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^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.

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

the ConvF uncertainty for indicated target tissue parameters.

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

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

Calibration Parameter Determined in Body Tissue Simulating Media

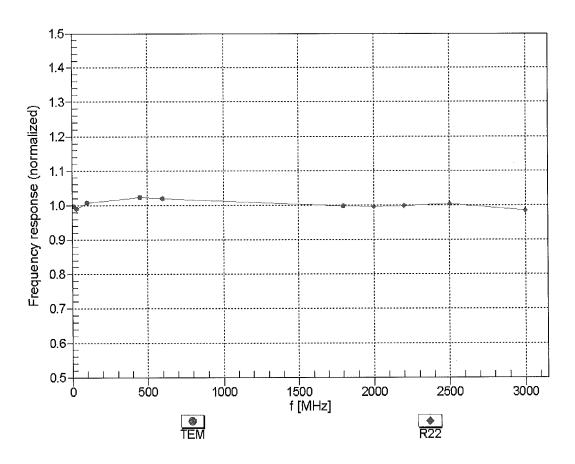
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	6.30	6.30	6.30	0.80	1.13	± 12.0 %
835	55.2	0.97	6.20	6.20	6.20	0.41	1.66	± 12.0 %
1750	53.4	1.49	5.10	5.10	5.10	0.37	1.82	± 12.0 %
1900	53.3	1.52	4.88	4.88	4.88	0.59	1.51	± 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 %

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

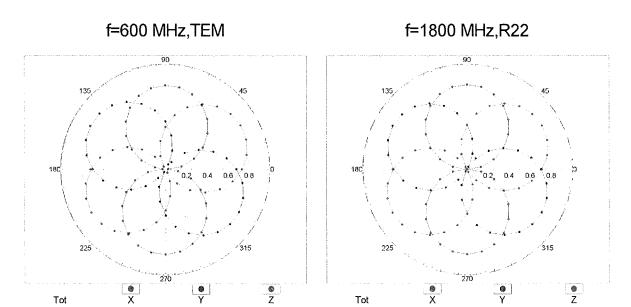
^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from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

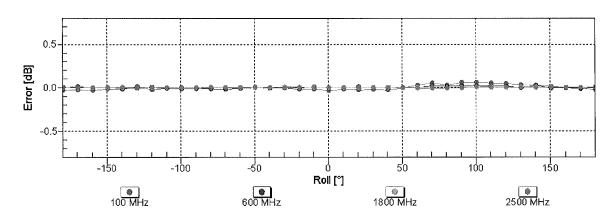
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

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

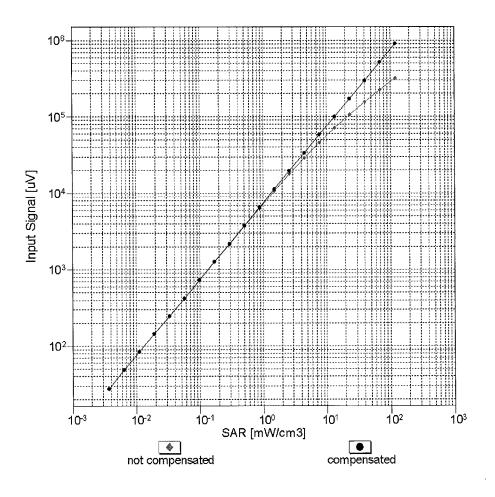


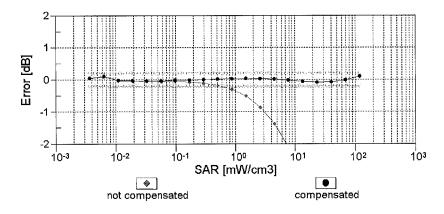


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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



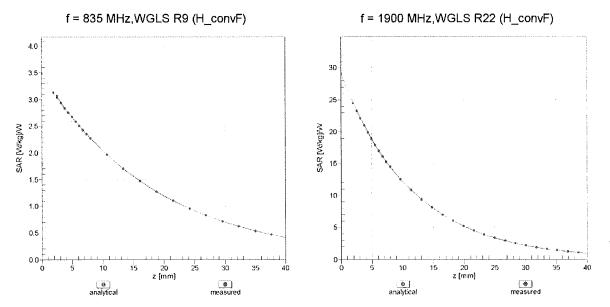


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

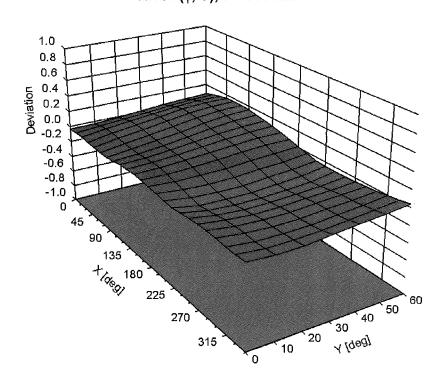
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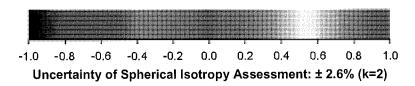
ES3DV3- SN:3213 February 13, 2018

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ, θ) , f = 900 MHz





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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

ÜİD	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 %
		Υ	0.00	0.00	1.00		219.1	
10010		Z	0.00	0.00	1.00		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	LIMITO EDD (MODIAL)	Z	7.43	77.97	17.46		25.0	
10011- CAB	UMTS-FDD (WCDMA)	X	0.94	65.73	13.94	0.00	150.0	± 9.6 %
		Y	1.08	67.98	15.48		150.0	
10012-	IEEE 000 11h M/E: 2 4 CH- /D000 4	Z	0.93	65.52	13.77	0.44	150.0	1.0.0.0/
CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.23	64.18	15.06	0.41	150.0	± 9.6 %
		Y	1.29	65.11	15.84		150.0	
10013-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	1.22 5.06	64.10 67.01	14.97 17.27	1.46	150.0 150.0	± 9.6 %
CAB	OFDM, 6 Mbps)					1,40		± 9.0 %
		Y	5.11	67.24	17.46		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	Z X	5.03 58.23	67.01 111.57	17.25 29.90	9.39	150.0 50.0	± 9.6 %
DAC		Υ	38.28	105.54	28.67		50.0	
		Z	83.35	116.76	31.01		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	42.41	106.55	28.63	9.57	50.0	± 9.6 %
5, 10		Υ	31.06	102.12	27.76		50.0	
		Z	55.17	110.35	29.43		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	Х	100.00	116.42	29.15	6.56	60.0	± 9.6 %
		Υ	100.00	117.64	29.89		60.0	
		Ζ	100.00	115.95	28.84		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	Х	22.66	114.16	43.61	12.57	50.0	± 9.6 %
		Y	32.36	125.54	47.77		50.0	
10000	EDOE EDD (TDIM ODOK TWO 4)	Z	20.92	112.18	42.96		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	22.06	107.62	37.21	9.56	60.0	± 9.6 %
		Y	29.09	114.84	39.79		60.0	
10027-	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	Z X	22.32 100.00	108.24 114.90	37.43 27.59	4.80	60.0 80.0	± 9.6 %
DAC		Υ	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 %
2, 10		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)	Х	13.21	95.56	31.98	7.80	80.0	± 9.6 %
		Υ	16.23	100.64	33.98		80.0	
40000	LEEE 000 45 4 Physical (CEOK Physical)	Z	13.05	95.55	31.99	F 00	80.0	1000
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Х	100.00	114.59	27.76	5.30	70.0	± 9.6 %
		Y	100.00	116.05	28.60		70.0	
40004	IEEE 000 45 4 Physically (OFOIX PUR)	Z	100.00	114.06	27.44	4.00	70.0	1000
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	l	100.0	

ES3DV3-SN:3213

10032-	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	100.00	112.51	23.27	1.17	100.0	± 9.6 %
CAA		V	400.00	440.00	00.40		400.0	
		Z	100.00 100.00	119.82	26.49		100.0	
10033-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	X	19.77	111.35 98.57	22.74	F 20	100.0	1000
CAA	DH1)				26.87	5.30	70.0	± 9.6 %
		Υ	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 %
		Υ	7.30	87.04	22.01		100.0	
		Z	5,17	81.44	19.55		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Х	2.97	75.56	17.30	1.17	100.0	± 9.6 %
		Υ	4.02	80.17	19.40		100.0	
		Z	2.90	75,11	16.93		100.0	
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Х	25.61	102.92	28.18	5.30	70.0	± 9.6 %
		Υ	28.89	105.33	29.15		70.0	
105		Z	27.23	103.63	28.21		70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Х	5.03	81.31	19.68	1.88	100.0	± 9.6 %
		Υ	7.01	86.52	21.80		100.0	
		Ζ	4.92	80.81	19.30		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	3.05	76.11	17.60	1.17	100.0	± 9.6 %
		Υ	4.14	80.86	19.74		100.0	
		Z	2.97	75.64	17.22		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	Х	1.52	68.64	14.11	0.00	150.0	± 9.6 %
		Y	1.86	71.69	15.85		150.0	
		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 %
		Υ	100.00	116.43	29.57		50.0	
		Z	100.00	114.73	28.50		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	111.44	0.10	0.00	150.0	± 9.6 %
		Υ	0.00	116.05	0.75		150.0	
		Z	0.00	113.36	0.21		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	15.69	90.02	25.55	13.80	25.0	± 9.6 %
		Υ	13.84	87.79	25.13		25.0	
		Z	17.52	91.95	25.99		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	19.88	94.41	25.54	10.79	40.0	± 9.6 %
		Υ	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)	Х	15.96	91.92	25.75	9.03	50.0	± 9.6 %
		Υ	16.02	92.06	26.04		50.0	
		Ζ	16.84	92.83	25.91		50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	9.21	88.16	28.55	6.55	100.0	± 9.6 %
		Υ	10.78	91.87	30.15		100.0	
		Z	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 %
		Υ	1.46	67.28	16.91		110.0	
		Ζ	1.35	65.96	15.91		110.0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	Х	52.62	119.34	30.14	1.30	110.0	± 9.6 %
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		Υ	100.00	130.86	33.40		110.0	

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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	
		Ż	7.56	91.41	25.11		110.0	
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6	X	4.79	66.76	16.54	0.49	100.0	± 9.6 %
CAC	Mbps)	+,,						
		Y	4.84	66.99	16.73		100.0	
40000	TEEE 000 44 # MIELE DAY 40 TO THE	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	X	5.04	67.27	17.12	1.21	100.0	± 9.6 %
CAC	Mbps)	 , 	F 40	07.54	47.04		100.0	
		Y	5.10	67.51	17.31		100.0	
40000	JEEE 000 44 # WEELE OLL (OFFILE OL	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	
		Z	5.06	67.37	17.32		100.0	
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	Х	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-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	X	5.53	67.90	18.19	2.55	100.0	± 9.6 %
CAC	Mbps)					2.00		1 3.0 %
		Y	5.60	68.19	18.41		100.0	
40000	IEEE 000 44 # WIE E OU (OED) 4 E4	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 %
		Υ	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)	Х	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)	Х	5.24	67.75	17.96	2.30	100.0	± 9.6 %
	(Decent Dini, 12 maps)	Y	5.31	68.03	18.18		100.0	
		Ż	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 %
5, 15	(DOSO/OF DIN, TO MIDPO)	TY	5.44	68.38	18.61		100.0	
		Z	5.33	68.07	18.36		100.0	
10074-	IEEE 802.11g WiFi 2.4 GHz	X	5.39	68.07	18.62	3.30	100.0	± 9.6 %
CAB	(DSSS/OFDM, 24 Mbps)	,				3.30		I 9.0 %
		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 %
		Υ	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)	Х	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	19.32		90.0	
10077-	IEEE 802.11g WiFi 2.4 GHz	X	5.57	68.46	19.22	4.30	90.0	± 9.6 %
CAB	(DSSS/OFDM, 54 Mbps)					4.50		⊥ 3.0 70
		Y	5.66	68.84	19.63		90.0	
		Z	5.54	68.44	19.32	t	90.0	I

10081-	CDMA2000 (1xRTT, RC3)	Х	0.76	64.13	11.38	0.00	150.0	± 9.6 %
CAB		 , , -	0.00	00.05	10.00			
		Y Z	0.90	66.35	12.99		150.0	
10082-	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-	X	0.73 1.73	63.81 62.47	11.00	4 77	150.0	1000
CAB	DQPSK, Fullrate)	^	1.73	02.47	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-	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	116.51	29.21	6.56	60.0	± 9.6 %
DAC							""	- 3.3 %
		Y	100.00	117.72	29.95		60.0	
		Z	100.00	116.03	28.90		60.0	
10097-	UMTS-FDD (HSDPA)	X	1.73	66.45	14.86	0.00	150.0	± 9.6 %
CAB		 ,,-						
		Y	1.84	67.58	15.67		150.0	
10098-	LIMTS EDD (HOURA Collaboration	Z	1.71	66.38	14.75		150.0	
CAB	UMTS-FDD (HSUPA, Subtest 2)	Х	1.70	66.40	14.82	0.00	150.0	± 9.6 %
		Y	1.81	67.56	15.65		150.0	
10000		Z	1.68	66.33	14.71		150.0	
10099- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	22.00	107.50	37.17	9.56	60.0	± 9.6 %
		Υ	28.88	114.61	39.71		60.0	
		Z	22.27	108.13	37.40		60.0	
10100- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.03	69.43	16.03	0.00	150.0	± 9.6 %
		Y	3.22	70.56	16.70		150.0	
		Z	2.99	69.29	15.96		150.0	
10101- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	Х	3.23	67.20	15.61	0.00	150.0	± 9.6 %
		Y	3.33	67.78	16.01		150.0	
		Z	3.20	67.12	15.56		150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	3.34	67.17	15.71	0.00	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)	Х	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)	Х	8.13	76.44	21.71	3.98	65.0	± 9.6 %
		Y	7.83	75.63	21.42		65.0	
		Z	7.93	76.10	21.55		65.0	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.67	68.71	15.86	0.00	150.0	± 9.6 %
		Y	2.83	69.80	16.55		150.0	
		Ż	2.63	68.57	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	± 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 %
		Υ	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	
		ż	2.53	67.28	15.48	****	150.0	908
	1		۷,00	01.20	10.40		U.UCI	

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	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 %
		Υ	2.81	68.13	16.19		150.0	
		Ζ	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 %
		Υ	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	
10110	1555 000 14 WIT 0	Z	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 %
		Υ	5.34	67.62	16.57		150.0	
40445		Z	5.27	67.41	16.40		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	Х	5.15	67.08	16.33	0.00	150.0	± 9.6 %
		Υ	5.20	67.30	16.50		150.0	
10110		Z	5.12	67.04	16.30		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.63	67.73	16.67	0.00	150.0	± 9.6 %
		Υ	5.66	67.91	16.81		150.0	
10110		Ζ	5.59	67.70	16.64		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.27	67.36	16.39	0.00	150.0	± 9.6 %
		Υ	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 %
		Υ	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 %
		Υ	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 %
		Υ	2.09	68.84	15.93		150.0	
		Z	1.89	67.35	14.89		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.38	67.70	15.18	0.00	150.0	± 9.6 %
		Y	2.51	68.61	15.82		150.0	
40444	LITE EDD (OO EDM)	Z	2.34	67.60	15.02		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	×	2.24	66.02	13.89	0.00	150.0	± 9.6 %
		Y	2.36	66.87	14.53		150.0	
40445	LIFE FOR (OO FOLK)	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	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4	Z X	1.15 2.40	64.01 68.51	11.10 13.38	0.00	150.0 150.0	± 9.6 %
UME	MHz, 16-QAM)	Υ	2.05	70.57	15 44		450.0	
			3.25 2.13	72.57	15.44		150.0	
10147-	LTE-FDD (SC-FDMA, 100% RB, 1.4	Z X		67.36	12.68	0.00	150.0	+000
CAE	MHz, 64-QAM)		2.86	70.85	14.59	0.00	150.0	± 9.6 %
		Y	4.17	75.98	16.98		150.0	
		Z	2.50	69.50	13.83		150.0	

10149-	LTE-FDD (SC-FDMA, 50% RB, 20 MHz,	Х	2.90	67.00	15.51	0.00	150.0	± 9.6 %
10150-	16-QAM)		0.00	07.00	15.05		450.0	
		Y	2.99	67.62	15.95		150.0	
	LTE-FDD (SC-FDMA, 50% RB, 20 MHz,		2.86	66.92	15.44	0.00	150.0	1000
CAD	64-QAM)	X	3.02	66.99	15.58	0.00	150.0	± 9.6 %
		Υ	3.11	67.55	15.98		150.0	
		Ζ	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 %
		Υ	9.32	81.32	22.60		65.0	
		Ζ	9.00	80.93	22.35		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	7.88	76.96	21.35	3.98	65.0	± 9.6 %
		Υ	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)	Х	8.28	77.78	22.03	3.98	65.0	± 9.6 %
		Υ	8.58	78.42	22.39		65.0	
TERRENIA I		Ż	8.24	77.86	22.04		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	2.21	68.11	15.68	0.00	150.0	± 9.6 %
	7	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)	Х	2.56	67.35	15.58	0.00	150.0	± 9.6 %
		Υ	2.66	68.05	16.10		150.0	
		Ż	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 %
	Q. 0.10	Y	1.94	68.94	15.78		150.0	
		ż	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 %
		Υ	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	
		Ż	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 %
O/IL		Υ	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 %
		Υ	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)	Х	3.77	69.87	19.29	3.01	150.0	± 9.6 %
		Υ	3.99	71.07	20.04		150.0	
		Z	3.62	69.43	19.11		150.0	
10167- CAE						2.04	150.0	1069/
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 %
		X	5.23	72.88	20.86	3.01	150.0	± 9.0 %

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	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 %
		Υ	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)	Х	4.60	76.17	21.67	3.01	150.0	± 9.6 %
		Υ	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	
40470	LITE TOD (OO FOLK)	Z	3.36	70.59	18.47		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	30.28	111.82	34.48	6.02	65.0	± 9.6 %
		Υ	76.86	130.98	39.85		65.0	
40470	LTE TOP (OO EDIM: 4 DD COM:	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 %
		Υ	74.54	122.99	35.68		65.0	
10171		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	
40475	1.TE EDD (0.0 ED) (0.1 ED) (0.1 ED)	Z	23.63	101.61	29.31		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	3.23	69.86	19.18	3.01	150.0	± 9.6 %
		Υ	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)	Х	4.60	76.19	21.68	3.01	150.0	± 9.6 %
		Υ	5.63	80.35	23.53		150.0	
		Ζ	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 %
		Υ	3.58	72.16	20.50		150.0	
		Ζ	3.00	68.84	18.80		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	4.55	75.95	21.56	3.01	150.0	± 9.6 %
		Υ	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)	Х	4.17	74.04	20.23	3.01	150.0	± 9.6 %
		Υ	5.04	77.87	21.99		150.0	
40400		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	
40404	LITE EDD (OO ED) (A EE CE	Ζ	3.36	70.53	18.43		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.25	69.99	19.27	3.01	150.0	± 9.6 %
		Y	3.58	72.15	20.49		150.0	
40400	LITE EDD (OO EDM) (DD (E) (E)	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 %
		Υ	5.55	80.04	23.38		150.0	
40:05		Ζ	3.94	73.93	20.85		150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	3.79	72.07	18.99	3.01	150.0	± 9.6 %
***************************************		Υ	4.51	75.56	20.68		150.0	
		Ζ	3.35	70.51	18.42		150.0	

10184-	LTE-FDD (SC-FDMA, 1 RB, 3 MHz,	X	3.26	70.03	19.29	3.01	150.0	± 9.6 %
CAD	QPSK)	^	3.20	70.03	19.29	3.01	150.0	± 9.0 %
		Υ	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 %
		Υ	5.57	80.12	23.42		150.0	
		Ζ	3.96	74.00	20.89		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	3.81	72.14	19.03	3.01	150.0	± 9.6 %
		Υ	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)	Х	3.27	70.08	19.34	3.01	150.0	± 9.6 %
		Y	3.60	72.24	20.57		150.0	
		Ζ	3.02	68.91	18.87		150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	4.71	76.65	21.94	3.01	150.0	± 9.6 %
		Y	5.78	80.88	23.80		150.0	
		Ζ	4.07	74.57	21.23		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	3.89	72.56	19.29	3.01	150.0	± 9.6 %
		Υ	4.65	76.13	21.00		150.0	
		Ζ	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 %
		Υ	4.61	66.73	16.23		150.0	
		Ζ	4.54	66.49	16.01		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	Х	4.75	66.84	16.16	0.00	150.0	± 9.6 %
		Υ	4.80	67.09	16.35		150.0	
		Ζ	4.71	66.82	16.14		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	Х	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)	Х	4.58	66.58	16.07	0.00	150.0	± 9.6 %
		Υ	4.63	66.82	16.26		150.0	
		Z	4.54	66.56	16.03		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	Х	4.77	66.86	16.18	0.00	150.0	± 9.6 %
		Υ	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 %
		Υ	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	
10000		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	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	Z X	4.72 4.80	66.82 66.82	16.14 16.18	0.00	150.0 150.0	± 9.6 %
	So will	Υ	4.86	67.06	16.37		150.0	
		Z	4.77	66.80	16.37		150.0	
10222- CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.13	67.08	16.32	0.00	150.0 150.0	± 9.6 %
	Viv	Y	5.18	67.32	16.50		150.0	
		Z	5.10	67.04	16.29	·	150.0 150.0	
	1		0.10	01.04	10.28		100.0	

10223-	IEEE 802.11n (HT Mixed, 90 Mbps, 16-	X	5.46	67.35	16.49	0.00	150.0	± 9.6 %
CAC	QAM)					0.00	100.0	2 3.0 %
		Υ	5.51	67.58	16.66		150.0	
10001		Z	5.42	67.30	16.45		150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	Х	5.17	67.18	16.29	0.00	150.0	± 9.6 %
		Υ	5.22	67.40	16.46		150.0	
1000=		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 %
		Υ	2.87	66.19	15.45		150.0	
10000		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 %
		Υ	81.50	124.82	36.22		65.0	
40007		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 %
		Υ	53.65	115.37	33.21		65.0	
10000		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 %
		Υ	69.82	129.54	39.59		65.0	
40000		Z	28.33	111.82	34.72		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	34.78	108.94	31.81	6.02	65.0	± 9.6 %
		Υ	74.32	122.93	35.67		65.0	
		Z	31.14	107.94	31.68		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	27.87	103.54	29.74	6.02	65.0	± 9.6 %
		Υ	50.12	114.03	32.79		65.0	
		Ζ	25.97	103.21	29.78		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	30.34	112.17	34.60	6.02	65.0	± 9.6 %
		Υ	64.44	127.76	39.06		65.0	
		Ζ	26.54	110.39	34.24		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	34.78	108.95	31.81	6.02	65.0	± 9.6 %
		Υ	74.45	122.97	35.68		65.0	
		Ζ	31.13	107.95	31.68		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	Х	27.88	103.55	29.75	6.02	65.0	± 9.6 %
		Υ	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)	Х	28.47	110.69	34.07	6.02	65.0	± 9.6 %
		Υ	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)	Х	34.92	109.04	31.84	6.02	65.0	± 9.6 %
		Υ	75.02	123.12	35.72		65.0	
		Ζ	31.25	108.03	31.71		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	28.18	103.71	29.79	6.02	65.0	± 9.6 %
		Υ	50.93	114.30	32.85		65.0	
		Ζ	26.26	103.39	29.82		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	30.66	112.40	34.66	6.02	65.0	± 9.6 %
		Υ	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)	Х	34.79	108.97	31.82	6.02	65.0	± 9.6 %
		Υ	74.62	123.02	35.69		65.0	

10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	27.87	103.57	29.75	6.02	65.0	± 9.6 %
CAD	04-QAW)	Y	50.30	114.13	22.02		GE O	
		Z	25.95	103.23	32.82 29.78		65.0 65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	30.53	112.33	34.64	6.02	65.0	± 9.6 %
0710	Q. City	Y	65.39	128.09	39.15		65.0	
		ż	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 %
0, 0,	10 4, 111)	Υ	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)	Х	11.41	85.92	27.17	6.98	65.0	± 9.6 %
		Υ	13.45	89.74	28.82		65.0	
		Z	10.57	84.73	26.73		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	Х	9.24	83.16	27.04	6.98	65.0	± 9.6 %
		Υ	10.64	86.64	28.68		65.0	
		Z	8.64	81.99	26.56		65.0	
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	
		Z	8.70	79.77	20.42		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	8.84	79.62	20.45	3.98	65.0	± 9.6 %
		Υ	9.72	81.20	21.24		65.0	
		Z	8.49	79.13	20.13		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	8.67	82.28	21.37	3.98	65.0	± 9.6 %
		Υ	9.40	83.61	22.04		65.0	
		Ζ	8.57	82.11	21.15		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	7.23	77.21	20.08	3.98	65.0	± 9.6 %
		Υ	7.59	77.99	20.54		65.0	
		Ζ	7.13	77.07	19.88		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	7.20	76.70	19.86	3.98	65.0	± 9.6 %
		Υ	7.57	77.51	20.35		65,0	
		Ζ	7.09	76.52	19.65		65,0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	9.92	84.79	23.00	3.98	65.0	± 9.6 %
		Υ	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)	Х	8.21	79.48	22.35	3.98	65.0	± 9.6 %
-		Υ	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)	Х	7.75	77.32	21.20	3.98	65.0	± 9.6 %
		Υ	8.11	78.10	21.64		65.0	
		Ζ	7.70	77.35	21.14		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	9.77	84.02	23.49	3.98	65.0	± 9.6 %
		Υ	10.31	84.92	23.94		65.0	
		Z	9.89	84.42	23.60		65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	7.68	76.36	21.13	3.98	65.0	± 9.6 %
		Υ	8.00	77.10	21.55		65.0	
		Z	7.63	76.40	21.10		65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	8.06	77.17	21.76	3.98	65.0	± 9.6 %
		Υ	8.36	77.82	22.13		65.0	
		Z	8.03	77.25	21.75		65.0	1

10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	8.65	80.28	22.35	3.98	65.0	± 9.6 %
07.12	Q OI()	Y	9.02	80.99	22.72		05.0	
		Z	8.68	80.54	22.72		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 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)	Х	7.44	76.40	18.29	3.98	65.0	± 9.6 %
		Υ	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 %
		Υ	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 %
		Υ	7.97	78.76	21.31		65.0	
40000	LITE TOP (OR STANK	Z	7.55	78.00	20.76		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	7.62	77.74	20.79	3.98	65.0	± 9.6 %
		Υ	7.97	78.46	21.21		65.0	
10001		Z	7.55	77.69	20.65		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	9.43	83.76	22.98	3.98	65.0	± 9.6 %
		Υ	10.04	84.84	23.52		65.0	
10000		Ζ	9.50	84.03	22.99		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	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 %
		Υ	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 %
		Υ	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 %
		Υ	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)	Х	8.27	77.77	22.03	3.98	65.0	± 9.6 %
		Y	8.58	78.42	22.39		65.0	
1000=	LITE TOP (OO TO	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 %
		Υ	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)	Х	8.36	76.49	21.55	3.98	65.0	± 9.6 %
		Υ	8.63	77.08	21.88		65.0	
10000		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 %
		Υ	8.55	76.65	21.78		65.0	
100==		Z	8.24	76.11	21.45		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	8.43	77.83	21.33	3.98	65.0	± 9.6 %
		Υ	8.69	78.31	21.60		65.0	
		Z	8.42	77.98	21.39		65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	Х	2.55	65.90	14.85	0.00	150.0	± 9.6 %
		Y	2.63	66.48	15.31		150.0	
		Ż	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 %
		Υ	1.66	68.17	15.66		150.0	
		Z	1.50	66.49	14.49		150.0	
10277- CAA	PHS (QPSK)	Х	4.62	67.49	12.27	9.03	50.0	± 9.6 %
		Υ	5.00	68.49	13.05		50.0	
		Ζ	4.42	66.98	11.81		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	Х	8.56	79.12	19.84	9.03	50.0	± 9.6 %
		Υ	9.04	80.04	20.47		50.0	
		Z	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 %
		Υ	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 %
		Υ	1.55	69.01	14.40		150.0	
		Z	1.25	66.21	12.49		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	Х	0.75	63.97	11.28	0.00	150.0	± 9.6 %
		Υ	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 %
		Υ	1.08	69.81	15.02		150.0	
		Z	0.81	65.82	12.39		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	Х	1.07	69.43	14.80	0.00	150.0	± 9.6 %
		Υ	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 %
		Υ	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 %
		Υ	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 %
		Υ	1.68	68.07	14.56		150.0	
40000	LITE EDD (OO ED)	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 %
		Υ	3.88	74.74	17.20		150.0	
		Z	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 %
		Υ	2.73	68.87	13.94		150.0	
10301- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	Z X	2.09 5.48	65.76 67.66	12.08 18.50	4.17	150.0 80.0	± 9.6 %
~~~	TOWITZ, GEON, FUOC)	Y	E 70	60.04	40.00		00.0	
		Z	5.78	68.84	19.23		80.0	
10302-	IEEE 802 160 WIMAY (20:19, 5mg		5.37	67.36	18.28	4.00	80.0	. 0 0 0′
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	
		Z	5.87	68.03	19.05		80.0	

10303- AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	Х	5.76	68.09	19.15	4.96	80.0	± 9.6 %
		Y	6.07	69.41	19.99		80.0	
		Z	5.69	67.97	19.02		80.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	Х	5.43	67.45	18.35	4.17	80.0	± 9.6 %
		Υ	5.68	68.54	19.05		80.0	
		Z	5.37	67.37	18.26		80.0	
10305- 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 902 460 WIMAY (20:40, 40:	Z	7.00	76.95	23.93		50.0	
AAA	IEEE 802.16e WiMAX (29:18, 10ms, 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	
10308-	IEEE 902 460 WIMAY (20:49, 40	Z	6.29	73.03	22.22	0.00	50.0	1000
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	
10309-	IEEE 802.16e WiMAX (29:18, 10ms,	Z	6.37	73.60	22.50	0.00	50.0	. 0.00/
AAA	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	
10310	IEEE 900 40° M/MAY (20:40, 40	Z	5.95	70.29	20.78	0.00	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	
10011		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 %
		Υ	3.19	69.13	16.23		150.0	
10010	IDEN 4.0	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 %
		Υ	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 %
		Υ	10.17	86.19	23.87		30.0	
		Ζ	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	
10316-	JEEE 000 44 - WIE: 0 4 OU / JEEP	Z	1.08	63.56	14.63	0.15	150.0	
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	
10247	IEEE 000 44- WEEE COLL (OED)4 C	Z	4.64	66.69	16.24	0.15	150.0	1000
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	
10400-	IEEE 802.11ac WiFi (20MHz, 64-QAM,	Z X	4.64 4.75	66.69 66.92	16.24 16.17	0.00	150.0 150.0	± 9.6 %
AAD	99pc duty cycle)	Y	4.04	67.40	46.07		4500	
			4.81	67.18	16.37		150.0	
10401-	IEEE 802.11ac WiFi (40MHz, 64-QAM,	Z	4.72 5.45	66.89 67.19	16.14 16.39	0.00	150.0 150.0	+0 C 0/
AAD	99pc duty cycle)					0.00		± 9.6 %
		Y	5.49	67.37	16.55		150.0	
		Z	5.44	67.22	16.40		150.0	

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	Х	5.72	67.54	16.41	0.00	150.0	± 9.6 %
7010	oope daty cycle)	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 %
		Υ	1.55	69.01	14.40		115.0	
		Z	1.25	66.21	12.49		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	Х	1.31	66.62	12.89	0.00	115.0	± 9.6 %
		Υ	1.55	69.01	14.40		115.0	
10100		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	
40440	LTE TOD (OO FDMA A DD AO MIL	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 %
		Υ	100.00	121.50	31.09		80.0	
4044=	1555 000 441 14151 5 1 5 1 5 1 5 1 5 1 5 1	Z	100.00	121.84	30.99		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	Х	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)	Х	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)	Х	4.57	66.54	16.10	0.00	150.0	± 9.6 %
		Υ	4.62	66.78	16.29		150.0	
40440	IEEE 000 14 MEET 0 1 OUT (DOOD	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 %
		Υ	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)	Х	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)	Х	4.89	67.00	16.27	0.00	150.0	± 9.6 %
		Y	4.94	67.25	16.46		150.0	
40404		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)	X	4.76 5.43	66.92 67.40	16.20 16.49	0.00	150.0 150.0	± 9.6 %
, , , ,	Di ON	Y	5.46	67.59	16.64		150.0	
		Z					150.0	
10426-	IEEE 802.11n (HT Greenfield, 90 Mbps,	X	5.40 5.43	67.39 67.42	16.48	0.00	150.0	1000
AAB	16-QAM)	Y			16.49	0.00	150.0	± 9.6 %
			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 %
		Υ	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 %
		Υ	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 %
		Υ	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 %
		Υ	4.87	67.22	16.44		150.0	
		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 %
		Υ	4.25	70.53	17.68		150.0	
		Z	4.16	70.46	17.47		150.0	
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	120.59	30.55	3.23	80.0	± 9.6 %
		Υ	100.00	121.33	31.01		80.0	
		Z	100.00	121.65	30.91		80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.54	66.87	15.35	0.00	150.0	± 9.6 %
		Υ	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%)	X	4.09	66.78	15.91	0.00	150.0	± 9.6 %
		Υ	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%)	X	4.36	66.75	16.04	0.00	150.0	± 9.6 %
		Υ	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%)	X	4.56	66.71	16.09	0.00	150.0	± 9.6 %
		Υ	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 %
		Υ	3.53	67.50	15.37		150.0	
		Z	3.37	66.93	14.84		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	Х	6.29	67.98	16.66	0.00	150.0	± 9.6 %
		Υ	6.32	68.16	16.79		150.0	
		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 %
		Υ	3.83	65.41	16.01		150.0	
		Z	3.78	65.16	15.77		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	Х	3.84	69.59	16.93	0.00	150.0	± 9.6 %
		Υ	3.91	69.84	17.18		150.0	
		Z	3.81	69.69	16.86		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	Х	5.05	67.70	17.82	0.00	150.0	± 9.6 %
		Υ	5.09	67.77	17.90		150.0	
		Z	5.00	67.75	17.77		150.0	·

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10460-	UMTS-FDD (WCDMA, AMR)	Х	0.79	65.91	14.37	0.00	150.0	± 9.6 %
AAA		- V	0.00	C0 57	40.40		450.0	
		Z	0.92 0.78	68.57 65.69	16.19		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	124.09	14.19 32.24	3.29	150.0 80.0	± 9.6 %
	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Y	100.00	125.81	33.13		80.0	
		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)	Х	82.18	106.66	24.50	3.23	80.0	± 9.6 %
		Υ	100.00	110.22	25.68		80.0	
		Z	90.90	108.32	24.86		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	13.11	84.75	18.36	3.23	80.0	± 9.6 %
		Υ	100.00	107.13	24.20		80.0	
		Z	11.64	83.97	18.10		80.0	
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	122.05	31.13	3.23	80.0	± 9.6 %
		Υ	100.00	123.91	32.10		80.0	
1015-		Z	100.00	123.17	31.52		80.0	
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Sübframe=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	
		Z	33.97	97.14	22.15		80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	8.66	80.23	16.95	3.23	80.0	± 9.6 %
		Υ	88.88	105.43	23.71		80.0	
		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 %
	-	Υ	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)	X	42.56	99.17	22.68	3.23	80.0	± 9.6 %
		Υ	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)	×	8.79	80.40	17.00	3.23	80.0	± 9.6 %
		Υ	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 %
		Υ	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 %
		Υ	100.00	109.85	25.49		80.0	
40470	LITE TOP (OO EDIM A SET ASSESSED	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)	Х	8.75	80.33	16.97	3.23	80.0	± 9.6 %
		Y	95.63	106.16	23.85		80.0	
40470	LITE TOP (OO EDMA 4 ED 45 : "	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	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Z X	100.00 41.57	123.40 98.89	31.61 22.60	3.23	80.0 80.0	± 9.6 %
/1/10	GAM, OL GUDITAINE-2,3,4,7,0,8)	Υ	100.00	109.86	25.40		90.0	
		Z	41.71	99.48	25.49 22.73		80.0	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-	X	8.66	80.23	16.94	3.23	80.0 80.0	± 9.6 %
7/10	QAM, UL Subframe=2,3,4,7,8,9)	V	00.70	105.00	00.70		00.0	
		Y Z	92.76	105,86	23.79		80.0	
			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)	Х	36.02	97.20	22.15	3.23	80.0	± 9.6 %
		Υ	100.00	109.70	25.42		80.0	
		Z	35.46	97.58	22.24		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	8.55	80.07	16.88	3.23	80.0	± 9.6 %
		Υ	89.69	105.45	23.69		80.0	
		Z	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 %
		Υ	18.65	98.88	27.57		80.0	
10100		Z	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	
40404	LTE TER (OO FEMA 500) ER 4 4 4 4	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 %
		Υ	16.05	89.97	22.81		80.0	
40400	LITE TOP (OO EDITA FOR EDITA	Z	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	
40400	LITE TOD (OO EDMA 500) DD 0.100	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 %
		Y	9.15	82.68	20.99		80.0	
40404	LTE TOP (OO FOLIA 500/ FD O LILL	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 %
		Υ	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)	Х	4.80	76.47	19.36	2.23	80.0	± 9.6 %
		Υ	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 %
		Υ	4.57	72.84	17.80		80.0	
		Ζ	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 %
		Υ	4.52	72.34	17.60		80.0	
		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 %
		Υ	5.59	77.40	20.48		80.0	
		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 %
		Υ	4.67	72.07	18.53		80.0	
		Z	4.33	71.01	17.90		80.0	
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.47	70.81	17.90	2.23	80.0	± 9.6 %
		Υ	4.74	71.76	18.43		80.0	
12:		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 %
		Υ	5.38	74.76	19.60		80.0	
		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)	Х	4.67	70.17	17.91	2.23	80.0	± 9.6 %
		Υ	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)	Х	4.74	70.00	17.86	2.23	80.0	± 9.6 %
	2, 2, 3, 2, 2, 2, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Y	4.96	70,77	18.30		80.0	
		Ż	4.68	69.97	17.81		80.0	1
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	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)	Х	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)	Х	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)	Х	2.52	65.21	12.20	2.23	80.0	± 9.6 %
		Υ	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)	Х	2.46	64.66	11.82	2.23	80.0	± 9.6 %
		Υ	2.87	66.51	12.93		80.0	
		Z	2,25	63.75	11.14	<u> </u>	80.0	-
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	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)	Х	4.26	71.24	17.39	2.23	80.0	± 9.6 %
***		Υ	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)	Х	4.30	71.03	17.26	2.23	80.0	± 9.6 %
		Y	4.65	72.20	17.90		80.0	
		Ζ	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)	Х	4.89	75.24	19.48	2.23	80.0	± 9.6 %
		Υ	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)	Х	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 %
		Υ	4.72	71.68	18.38		80.0	
10-0-		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)	Х	5.37	74.82	19.29	2.23	80.0	± 9.6 %
		Υ	5.93	76.44	20.05		80.0	
10505	. == ===	Z	5.29	74.72	19.25		80.0	
10507- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.72	70.58	18.07	2.23	80.0	± 9.6 %
					· · · · · · · · · · · · · · · · · · ·			
		Y	4.98	71.44	18.54		80.0	

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 %
		Υ	5.02	71.02	18.41		80.0	
		Z	4.72	70.18	17.93		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.48	73.02	18.63	2.23	80.0	± 9.6 %
		Υ	5.87	74.15	19.19		80.0	
10=10		Z	5.41	72.94	18.60		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.18	70.13	17.99	2.23	80.0	± 9.6 %
		Υ	5.40	70.84	18.39		80.0	
		Z	5.12	70.07	17.96		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.21	69.83	17.92	2.23	80.0	± 9.6 %
		Υ	5.42	70.49	18.29		80.0	
		Ζ	5.15	69.78	17.89		80.0	
10512- AAC	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 %
		Υ	6.39	76.18	19.80		80.0	
10510	LTE TOD (OO EDMA 1000) DD 00	Z	5.76	74.62	19.09		80.0	
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 %
		Y	5.34	71.31	18.56		80.0	
10511		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 %
		Y	5.29	70.75	18.40		80.0	
<del> </del>		Ζ	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 %
		Y	0.97	63.29	14.71		150.0	
10516-	IEEE 000 445 WIEL 0 4 OUE (D000 E.E.	Z	0.92	62.37	13.81		150.0	
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 0.47	71.79 66.19	17.60 14.01		150.0	
10517- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.47	63.81	14.01	0.00	150.0 150.0	± 9.6 %
7001	impo, ocpo daty dydio)	Y	0.83	65.38	15.37		150.0	
		Z	0.75	63.68	13.95		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 %
		Υ	4.61	66.85	16.27		150.0	
		Z	4.53	66.60	16.05		150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.76	66.88	16.21	0.00	150.0	± 9.6 %
		Y	4.82	67.13	16.41		150.0	
10500	IFFE 000 446/F WIFE F OUT (OFFICE 12)	Z	4.73	66.86	16.18	0.00	150.0	
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 %
		Z	4.67	67.09 66.81	16.32 16.09		150.0 150.0	
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 %
		Υ	4.60	67.09	16.31		150.0	
		Z	4.51	66.79	16.07		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	Х	4.60	66.88	16.17	0.00	150.0	± 9.6 %
		Υ	4.65	67.13	16.37		150.0	
		Z	4.56	66.87	16.15		150.0	

		,		,			<del>-</del>	,
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 %
		Υ	4.52	66.99	16.21		150.0	
		Z	4.44	66.72	15.98		150.0	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	Х	4.55	66.81	16.14	0.00	150.0	± 9.6 %
		Y	4.60	67.07	16.35		150.0	
		Z	4.51	66.79	16.12		150.0	
10525-	IEEE 802.11ac WiFi (20MHz, MCS0,	X	4.52	65.83	15.72	0.00	150.0	± 9.6 %
AAB	99pc duty cycle)	Y	4.57	66.08	15.92	0.00	150.0	2 0.0 70
		Z	4.49	65.82	15.70		150.0	
10526-	IEEE 802.11ac WiFi (20MHz, MCS1,	X	4.70	66.21	15.70	0.00	150.0	± 9.6 %
AAB	99pc duty cycle)	Y				0.00		1 9.0 %
			4.76	66.48	16.07		150.0	
10527-	IEEE 000 44 co MIEI (20MI) - MCCO	Z	4.66	66.20	15.85	0.00	150.0	. 0 0 0/
AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)		4.61	66.17	15.81	0.00	150.0	± 9.6 %
		Υ	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)	Х	4.63	66.19	15.85	0.00	150.0	± 9.6 %
		Υ	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)	Х	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	
		Ż	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 %
7 3 12	ospo dally sycloy	Y	4.55	66.44	16.01		150.0	
		Ż	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	
		Ż	4.60	66.20	15.80		150.0	
10534-	IEEE 802.11ac WiFi (40MHz, MCS0,	X	5.17	66.38	15.95	0.00	150.0	+06%
AAB	99pc duty cycle)					0.00		± 9.6 %
		Y	5.22	66.61	16.12		150.0	
10505	IEEE 000 44 W/E: /40MU - N004	Z	5.14	66.36	15.93		150.0	
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	Х	5.24	66.55	16.02	0.00	150.0	± 9.6 %
		Y	5.29	66.77	16.19		150.0	
10566	1555 000 44 1455	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 %
		Υ	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)	Х	5.17	66.48	15.97	0.00	150.0	± 9.6 %
		Y	5.22	66.71	16.14		150.0	
		Z	5.14	66.45	15.95		150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	Х	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	
W-1.11		Z	5.16	66.50				
			J. 10	1 00.00	16.03	<u> </u>	150.0	<u> </u>

10541- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	Х	5.16	66.38	15.97	0.00	150.0	± 9.6 %
		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 %
		Υ	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)	Х	5.41	66.52	16.08	0.00	150.0	± 9.6 %
		Y	5.45	66.73	16.24		150.0	
40544	1555 000 44 14054 (000 44 1405	Z	5.38	66.51	16.07		150.0	
10544- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.47	66.50	15.95	0.00	150.0	± 9.6 %
		Y	5.51	66.71	16.11		150.0	
10515	IEEE 000 44 WEE: (00MIL - MOO4	Z	5.45	66.47	15.93	2.00	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	
10546-	IEEE 900 44cc W/E: (004/11 - \$4000	Z	5.66	66.95	16.12		150.0	
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	
10547-	IEEE 902 44cc WEE! (90ML) MOOC	Z	5.52	66.71	16.02	0.00	150.0	
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	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	Z X	5.60 6.00	66.78 68.11	16.04 16.68	0.00	150.0 150.0	± 9.6 %
7/10	33pc duty cycle)	Y	6.04	68.30	16.83		150.0	
		$\frac{1}{Z}$	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 %
	cope and oyeley	Y	5.62	66.95	16.20		150.0	
		Ż	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	
105-:		Z	5.55	66.57	15.96		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	Х	5.88	66.89	16.06	0.00	150.0	± 9.6 %
	1-1-1076-000-0	Y	5.92	67.10	16.21		150.0	
105-5	1555 000 44	Z	5.86	66.86	16.04		150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	Х	6.03	67.23	16.21	0.00	150.0	± 9.6 %
		Y	6.07	67.43	16.35		150.0	
10556-	IEEE 802.11ac WiFi (160MHz, MCS2,	Z X	6.00 6.04	67.20 67.26	16.19 16.21	0.00	150.0 150.0	± 9.6 %
AAC	99pc duty cycle)	+,,	6.00	67.46	16.26		150.0	
		Y Z	6.08	67.46	16.36		150.0	
10557-	IEEE 802.11ac WiFi (160MHz, MCS3,	X	6.02 6.01	67.23 67.18	16.20 16.19	0.00	150.0 150.0	± 9.6 %
AAC	99pc duty cycle)	Y	6.00	67.00	10.05		150.0	
		Z	6.06	67.39	16.35		150.0	
		4	5.98	67.14	16.17	<u> </u>	150.0	

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10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	Х	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)	Х	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)	Х	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)	Х	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)	Х	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)	Х	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	1
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)	Х	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)	Х	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)	Х	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)	Х	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)	Х	1.27	65.48	15.72	0.46	130.0	± 9.6 %
		Υ	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)	Х	2.10	81.92	20.57	0.46	130.0	± 9.6 %
		Υ	6.18	99.59	26.88		130.0	
		Z	1.98	81.02	20.18		130.0	
		4	1.00	01.02				
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 %
						0.46	130.0	± 9.6 %

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)		1.,,	00.04	10.00	0.40	100.0	2 3.0 %
		Υ	4.77	66.88	16.58		130.0	
10570	1555 000 44 MISTO 4 001 15 000	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)	Х	4.74	66.78	16.44	0.46	130.0	± 9.6 %
		Y	4.79	67.02	16.63		130.0	
40577		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 Z	5.01 4.92	67.33 67.08	16.80		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.85	67.23	16.59 16.70	0.46	130.0 130.0	± 9.6 %
	The state of the s	Y	4.90	67.46	16.88		130.0	
		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)	Х	4.63	66.62	16.07	0.46	130.0	± 9.6 %
		Y	4.70	66.91	16.30		130.0	
		Z	4.60	66.59	16.04		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)	Х	4.75	67.28	16.64	0.46	130.0	± 9.6 %
		Y	4.81	67.52	16.83		130.0	
10582-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.71	67.26	16.61	0.40	130.0	1000
AAA	OFDM, 54 Mbps, 90pc duty cycle)		4.59	66.41	15.89	0.46	130.0	± 9.6 %
***************************************		Y	4.65	66.72	16.14		130.0	
10583-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6	Z	4.55 4.72	66.37 66.64	15.85 16.39	0.46	130.0 130.0	± 9.6 %
AAB	Mbps, 90pc duty cycle)	<u> </u>				51,10		2 010 70
		Y	4.77	66.88	16.58		130.0	
10501	IEEE 000 44- /- MIEE E OU- (OEDM O	Z	4.69	66.63	16.36	0.40	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	
10585-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12	Z	4.71	66.78	16.41	0.40	130.0	1000
AAB	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	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.92 4.85	67.08 67.23	16.59 16.70	0.46	130.0 130.0	± 9.6 %
, , , , ,	spe, cope daily office/	Y	4.90	67.46	16.88		130.0	
		Z	4.81	67.21	16.67		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	Х	4.63	66.62	16.07	0.46	130.0	± 9.6 %
		Υ	4.70	66.91	16.30		130.0	
		Z	4.60	66.59	16.04		130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	Х	4.68	66.64	16.09	0.46	130.0	± 9.6 %
		Y	4.74	66.93	16.33		130.0	
10500	IEEE 000 44-1/2 MIEE 5 OU 10EBY 10	Z	4.64	66.62	16.06	0.10	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	
10590-	IEEE 902 44 o/b W/F: 5 O! 1- (OED& 54	Z	4.71	67.26	16.61	0.40	130.0	1000
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	<u></u>	130.0	

10591-	IEEE 802.11n (HT Mixed, 20MHz,	Х	4.87	66.69	16.48	0.46	130.0	± 9.6 %
AAB	MCS0, 90pc duty cycle)	Υ	4.92	60.00	40.07		100.0	<u> </u>
				66.92	16.67		130.0	
10592-	IEEE 802.11n (HT Mixed, 20MHz,	Z	4.84 5.03	66.69	16.46	0.40	130.0	1000
AAB	MCS1, 90pc duty cycle)			67.03	16.61	0.46	130.0	± 9.6 %
		<u> Y</u>	5.08	67.26	16.79		130.0	
40500	1555 000 44 (UT14) 1 000 W	Z	5.00	67.02	16.59		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	Х	4.96	66.97	16.51	0.46	130.0	± 9.6 %
		Y	5.01	67.21	16.70		130.0	
40504	JEEE 000 44 (UEAN) 1 001414	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	
40505	1555 000 44 (UT1)	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 %
		Υ	5.04	67.32	16.74		130.0	
10555		Z	4.94	67.06	16.53		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	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 %
		Υ	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)	Х	5.61	67.58	16.85	0.46	130.0	± 9.6 %
		Υ	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)	Х	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 %
	,,,,,	Υ'	5.48	67.26	16.66		130.0	
		1 1 1	().40	0//n	]hhh		1 7.3(1)	

10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.70	65.95	16.07	0.46	130.0	± 9.6 %
		Y	4.75	66.19	16.26		130.0	
		Ż	4.67	65.95	16.05		130.0	
10608- 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	
		Z	4.86	66.36	16.22		130.0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	Х	4.78	66.23	16.09	0.46	130.0	± 9.6 %
		_ Y	4.84	66.50	16.29		130.0	
		Z	4.75	66.21	16.06		130.0	
10610- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 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	
10011	IFFE 000 44 - AMIFI (000411 AAOO4	Z	4.80	66.36	16.22		130.0	
10611- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 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	
10640	IEEE 000 44-2 MIE' (00MIL MOST	Z	4.72	66.18	16.07		130.0	
10612- 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 900 44c - MIEI (00MI) - MOOO	Z	4.73	66.35	16.12		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 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-	IEEE 000 44 co MIEI (OOM) III MOOZ	Z	4.74	66.25	16.02	0.10	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	
		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	
		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	
40040	IEEE 000 44- MEEL (400 H) 1100-	Z	5.28	66.66	16.36		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	Х	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 %
		<u> </u>	5.49	66.85	16.50		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5,	Z X	5.40 5.41	66.57 66.65	16.30 16.46	0.46	130.0 130.0	± 9.6 %
WVD	90pc duty cycle)		E 40	66.05	10.04		1000	
		Y	5.46	66.85	16.61		130.0	
10622-	IEEE 802.11ac WiFi (40MHz, MCS6,	Z	5.38	66.63	16.44	0.46	130.0	+0 C n/
AAB	90pc duty cycle)		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	

ES3DV3- SN:3213

February 13, 2018

10623- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	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 %
		Υ	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	
		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 %
		Υ	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)	X	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 %
		Υ	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)	Х	6.06	66.98	16.37	0.46	130.0	± 9.6 %
		Y	6.09	67.16	16.51		130.0	
1000=		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	<b>———</b>

10639- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.21	67.31	16.55	0.46	130.0	± 9.6 %
		Υ	6.25	67.51	16.69	<b>1</b>	130.0	
		Z	6.18	67.27	16.52		130.0	
10640- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	Х	6.23	67.39	16.53	0.46	130.0	± 9.6 %
		Y	6.28	67.61	16.69		130.0	
		Z	6.20	67.33	16.50		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 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 000 44 Wiei (400MH - M000	Z	6.22	67.18	16.44		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.29	67.45	16.73	0.46	130.0	± 9.6 %
		Y	6.33	67.63	16.87		130.0	
10643-		Z	6.26	67.41	16.72		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.13	67.18	16.51	0.46	130.0	± 9.6 %
		Y	6.18	67.38	16.66		130.0	
10644	IEEE 000 44a - WEE (400) *** - 100	Z	6.11	67.15	16.49		130.0	
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.35	67.83	16.86	0.46	130.0	± 9.6 %
		Υ	6.40	68.06	17.03		130.0	
40045	IEEE 000 44 - WEE (400 HI - 1400 O	Z	6.30	67.74	16.80		130.0	
10645- 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	
10646-	LTE TOD (OO FOM) 4 DD 5 MIL	Z	6.83	68.87	17.33		130.0	
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 %
		Υ	90.47	140.91	45.72		60.0	
10017		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 %
		Υ	98.14	143.92	46.67		60.0	
		Z	49.92	128.24	42.34		60.0	
10648- AAA	CDMA2000 (1x Advanced)	Х	0.66	62.51	9.96	0.00	150.0	± 9.6 %
		Υ	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 %
	***************************************	Υ	4.82	67.93	17.48		80.0	
100=1		Z	4.65	67.40	17.11		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	Х	4.64	67.10	17.16	2.23	80.0	± 9.6 %
		Y	4.76	67.59	17.48		80.0	
100==	LITE TOD (OFFICE OFFICE	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	4.82	67.61	17.53		80.0	
40050	D I - W - (000)	Z	4.67	67.08	17.17		80.0	
10658- AAA	Pulse Waveform (200Hz, 10%)	Х	17.27	91.20	23.98	10.00	50.0	± 9.6 %
		Υ	16.02	90.22	23.99		50.0	
100=0		Z	18.59	92.23	24.12		50.0	
10659- AAA	Pulse Waveform (200Hz, 20%)	X	100.00	114.98	28.67	6.99	60.0	± 9.6 %
		Υ	100.00	116.21	29.42		60.0	
		Z	100.00	114.43	28.33			

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%)	Х	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%)	Х	100.00	108.64	21.32	0.97	120.0	± 9.6 %
		Υ	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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Accreditation No.: SCS 0108

Client

**PC Test** 

Certificate No: ES3-3287_Sep17

### **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 10/03/2017

Calibration date:

September 18, 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	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

Calibrated by:

Name Leif Klysner Function

Laboratory Technician

Signature

Approved by:

Katja Pokovic

Technical Manager

Issued: September 19, 2017

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

Certificate No: ES3-3287_Sep17

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#### Calibration Laboratory of

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





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#### Glossary:

TSL

tissue simulating liquid sensitivity in free space

NORMx,y,z 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  $\phi$ 

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

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  $\vartheta = 0$  (f  $\leq 900$  MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the 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  $f \le 800 \text{ MHz}$ ) 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  $\pm$  50 MHz to  $\pm$  100

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).

Certificate No: ES3-3287_Sep17

# Probe ES3DV3

SN:3287

Manufactured:

June 7, 2010

Calibrated:

September 18, 2017

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

#### **Basic Calibration Parameters**

2.3	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) ^B	107.7	103.1	105.0	

#### **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	191.5	±3.3 %
		Y	0.0	0.0	1.0		198.9	
<u></u>		Z	0.0	0.0	1.0		180.8	

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
X	54.28	378.7	33.99	28.46	2.430	5.072	1.313	0.408	1.009
Y	59.16	422.2	35.13	29.85	3.583	5.094	0.041	0.732	1.008
<u>Z</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%.

Numerical linearization parameter: uncertainty not required.

Certificate No: ES3-3287_Sep17

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

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

Calibration Parameter Determined in Head Tissue Simulating Media

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	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 %

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

validity can be extended to ± 110 MHz.

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

the ConvF uncertainty for indicated target tissue parameters.

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

Calibration Parameter Determined in Body Tissue Simulating Media

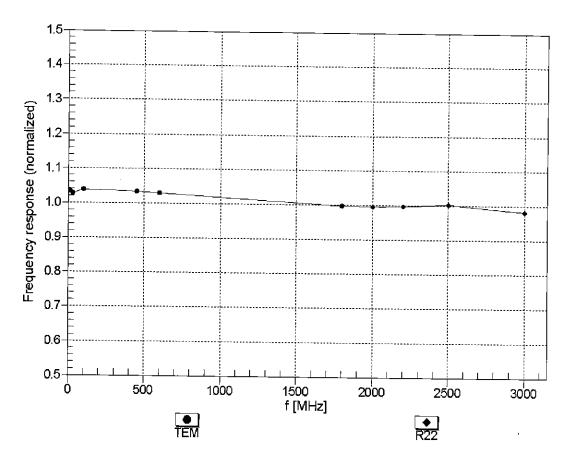
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	6.71	6.71	6.71	0.45	1.38	± 12.0 %
835	55.2	0.97	6.56	6.56	6.56	0.80	1.05	± 12.0 %
1750	53.4	1.49	5.19	5.19	5.19	0.37	1.73	± 12.0 %
1900	53.3	1.52	5.00	5.00	5.00	0.47	1.51	± 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 %

 $^{^{\}rm C}$  Frequency validity above 300 MHz of  $\pm$  100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to  $\pm$  50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is  $\pm$  10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. 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 ( $\epsilon$  and  $\sigma$ ) is restricted to  $\pm$  5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

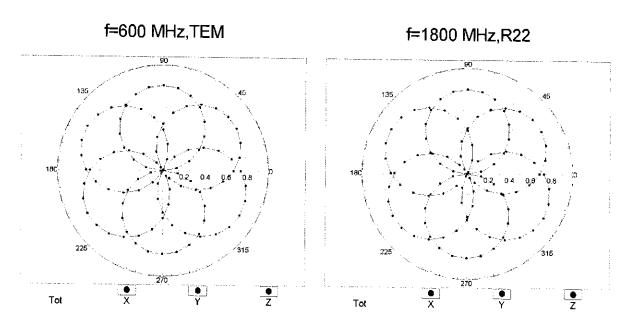
⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the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

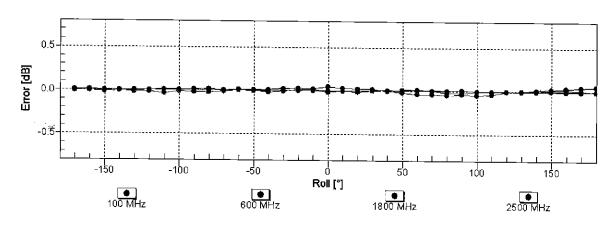
# Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

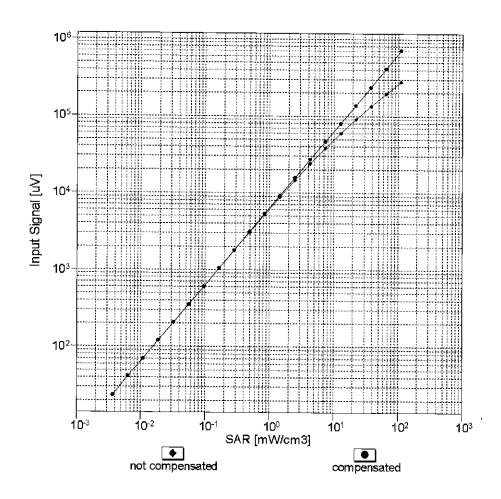
# Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

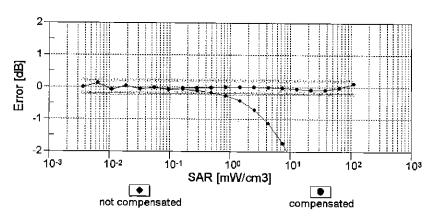




Uncertainty of Axial Isotropy Assessment:  $\pm$  0.5% (k=2)

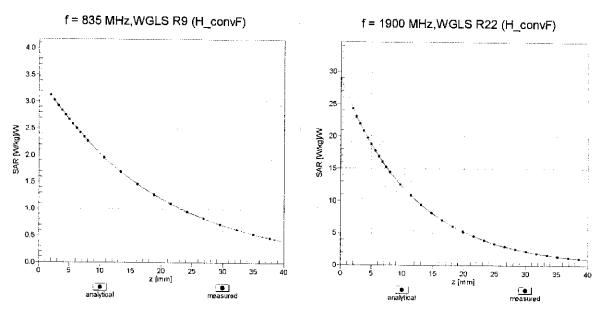
### Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



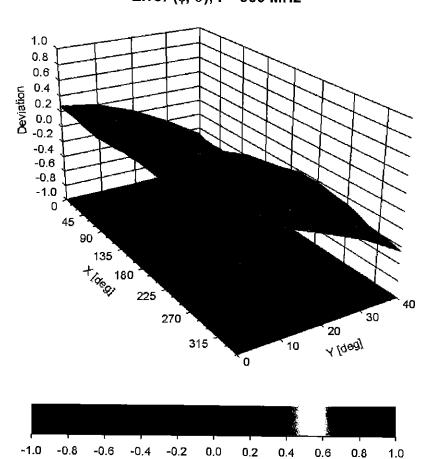


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

### **Conversion Factor Assessment**



Deviation from Isotropy in Liquid Error (φ, θ), f = 900 MHz



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

#### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	89.6
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 dB√μV	С	D d <b>B</b>	VR mV	Max Unc ^E (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	191.5	± 3.3 %
		Υ	0.00	0.00	1.00		198.9	2 0.0 /0
		Z	0.00	0.00	1.00		180.8	_
10010- CAA	SAR Validation (Square, 100ms, 10ms)	Х	10.31	82.54	19.92	10.00	25.0	± 9.6 %
		Y	9.70	81.57	20.65		25.0	
		Z	13.02	86.61	21.44		25.0	
10011- CAB	UMTS-FDD (WCDMA)	Х	1.65	76.64	20.39	0.00	150.0	± 9.6 %
		Y	1.11	68.31	15.89		150.0	
10012-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	Z X	1.20 1.42	70.53	17.08	0.44	150.0	
CAB	Mbps)	Y		67.62	17.77	0.41	150.0	± 9.6 %
		Z	<u>1.35</u> 1.35	65.44	16.09		150.0	
10013-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X		66.18	16.60	4.40	150.0	. 0 0 8/
CAB	OFDM, 6 Mbps)	Y	5.13	67.63	17.69	1.46	150.0	± 9.6 %
		Z	5.21 5.05	67.37 67.67	17.49		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	36.11	104.66	17.63 28.70	9.39	150.0 50.0	± 9.6 %
		Y	17.06	92.75	26.26		50.0	
		Ż	74.47	117.68	32.39		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	29.01	100.99	27.69	9.57	50.0	± 9.6 %
	-	Y	15.70	91,12	25.76		50.0	
	-	Z	50.86	111.27	30.76		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	Х	100.00	118.25	30.37	6.56	60.0	± 9.6 %
·		Υ	79.14	117.46	31.45		60.0	-
		Z	100.00	119.51	30.92		60.0	
10025- 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	
		Z	19.28	108.70	41.83		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Х	22.37	106.73	36.71	9.56	60.0	± 9.6 %
		Y	15.21	95.13	32.50		60.0	
10007	CDDC EDD (TDMA CMOK TN 0.4.0)	Z	23.85	109.99	38.29	4.55	60.0	
10027- 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	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00 100.00	118.96 118.56	29.76 28.79	3.55	80.0 100.0	± 9.6 %
		Y	100.00	119.98	29.90	<del>                                     </del>	100.0	
		Ż	100.00	119.90	29.38	<del></del>	100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	14.79	97.42	32.53	7.80	80.0	± 9.6 %
		Υ	11.52	89.75	29.55		80.0	
		Z	14.18	97.61	32.99		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	116.89	29.16	5.30	70.0	± 9.6 %
		Υ	100.00	119.53	30.94		70.0	
		Z	100.00	118.05	29.66		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Х	100.00	122.60	28.99	1.88	100.0	± 9.6 %
		Υ_	100.00	121.51	28.91	_	100.0	
	İ	Z	100.00	122.48	28.93		100.0	

10032-	IEEE 902 15 1 Blustooth (CECK DUS)	т <del></del>	T-400	T			<b></b>	<del>-</del>
CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	133.16	32.27	1.17	100.0	± 9.6 %
		Y	100.00	126.43	29.83		100.0	
10033-	IEEE COO 45 4 PL	Z	100.00	130.02	30.96		100.0	
CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	×	32.57	106.74	29.49	5.30	70.0	± 9.6 %
		Y	13.39	91.56	25.42		70.0	
40004		<u> Z</u>	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 %
		<u> </u>	7.50	87.12	22.45		100.0	
10035-	IEEE 000 45 4 Pl	Z	20.04	100.44	25.46		100.0	
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	81.47	20.26		100.0	
10036-	JEEE COO AE A DI LA LA LA COMPANIA	Z	9.42	91.44	22.56		100.0	
CAA	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	
10007	IFFE 000 45 4 PL	Z	38.95	109.34	29.96		70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	×	39.94	112.82	29.55	1.88	100.0	± 9.6 %
		Υ	7.15	86.45	22.19		100.0	
48888	<del></del>	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 %
		Ϋ́	4.66	82.21	20.61		100.0	
10000		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)	Х	100.00	117.06	30.06	7.78	50.0	± 9.6 %
		Υ	33.54	102.85	27.66		50.0	-
		Z	100.00	118.08	30.50		50.0	<del></del>
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	127.60	2.39	0.00	150.0	± 9.6 %
		Υ	0.00	96.78	0.00		150.0	
		Z	0.01	122.93	2.94	<del></del>	150.0	
10048- * CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	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 %
		Υ	12.58	86.37	24.53		40.0	
40050		Ζ	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 %
		Υ	11.72	85.08	24.19		50.0	<del></del> _
			47.40	93.38	26.42		50.0	
10050	FDOE FDD.	Z	17.40	<u> </u>	20.72			
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	Х	10.69	91.04	29.62	6.55	100.0	± 9.6 %
	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	9.07			6.55	100.0	± 9.6 %
DAC	,	X Y Z	9.07 9.88	91.04 85.67 90.10	29.62	6.55		± 9.6 %
	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)  IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	Y Z X	9.07 9.88 1.68	91.04 85.67 90.10 70.66	29.62	0.61	100.0	± 9.6 % ± 9.6 %
DAC 10059-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	X Y Z X Y	9.07 9.88 1.68	91.04 85.67 90.10 70.66 67.69	29.62 27.37 29.57		100.0 100.0 100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X Y Z X Y	9.07 9.88 1.68 1.55 1.56	91.04 85.67 90.10 70.66	29.62 27.37 29.57 19.16		100.0 100.0 100.0 110.0	
DAC 10059-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	X Y Z X Y Z X	9.07 9.88 1.68	91.04 85.67 90.10 70.66 67.69	29.62 27.37 29.57 19.16		100.0 100.0 100.0 110.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)  IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	X Y Z X Y	9.07 9.88 1.68 1.55 1.56	91.04 85.67 90.10 70.66 67.69 68.66	29.62 27.37 29.57 19.16 17.16 17.81	0.61	100.0 100.0 100.0 110.0	± 9.6 %

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	
		Ż	19.56	108.50	30.84		110.0	
10062- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	Х	4.87	67.49	17.06	0.49	100.0	± 9.6 %
		Υ	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 %
		Υ	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 %
		Υ	5.21	67.67	17.37		100.0	
		Z	5.00	67.84	17.45		_ 100.0	
10066- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	Х	5.18	68.06	17.79	1.46	100.0	± 9.6 %
		Υ	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 %
		Y	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)	Х	5.69	68.44	18.72	2.67	100.0	± 9.6 %
		Υ	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)	Х	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)	Х	5.34	68.42	18.38	2.30	100.0	± 9.6 %
		Υ	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)	Х	5.47	68.76	18.79	2.83	100.0	± 9.6 %
		Υ	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)	Х	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)	Х	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		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	Х	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	<del> </del>
						•		
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 %
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)				19.72 19.67	4.30	90.0	± 9.6 %

10081- CAB	CDMA2000 (1xRTT, RC3)	X	2.28	81.48	20.27	0.00	150.0	± 9.6 %
		Y	1.00	67.64	14.10	-	150.0	<del> </del>
		Z	1.04	69.66	14.21	T	150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	2.13	64.08	8.83	4.77	80.0	±9.6 %
		Υ	2.57	65.34	10.16		80.0	
		Z	2.13	64.35	9.02		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	Х	100.00	118.32	30.42	6.56	60.0	± 9.6 %
		Y	75.01	116.70	31.30		60.0	
10097-	LIMTS FDD (HSDDA)	Z	100.00	119.58	30.97		60.0	
CAB	UMTS-FDD (HSDPA)	X	2.20	71.50	18.09	0.00	150.0	± 9.6 %
		<u> Y</u>	1.90	67.97	16.04		150.0	
10098-	LIMTE EDD (HOURA O LL 10)	Z	1.97	69.50	16.62		150.0	
CAB	UMTS-FDD (HSUPA, Subtest 2)	X	2.16	71.55	18.11	0.00	150.0	± 9.6 %
	<del></del>	Y	1.86	67.93	16.01	ļ	150.0	
10099-	EDGE-FDD (TDMA, 8PSK, TN 0-4)	Z	1.93	69.49	16.61	<u> </u>	150.0	
DAC	LUGL-POD (TDINIA, 6PSK, TN 0-4)	X	22.24	106.54	36.64	9.56	60.0	± 9.6 %
	<del>                                     </del>	Y	15.16	95.02	32.46		60.0	
10100-	LTE-FDD (SC-FDMA, 100% RB, 20	Z	23.72	109.80	38.22		60.0	
CAD	MHz, QPSK)	X	3.77	73.97	18.60	0.00	150.0	± 9.6 %
		1<	3.32	71.02	16.99	ļ	150.0	
10101- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.27 3.50	71.57 69.24	17.41 17.00	0.00	150.0 150.0	± 9.6 %
	1 2 47 1117	TY	3.39	67.99	16.16	-	450.0	
		Z	3.29	68.22	16.35	<del></del>	150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.59	69.07	17.02	0.00	150.0 150.0	± 9.6 %
		TY	3.49	67.92	16.24	<del>                                     </del>	150.0	
		Z	3.39	68.14	16.41	<del></del>	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	<u> </u>	65.0	
		Z	9.22	80.33	22.26		65.0	
10104 CAD	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	
10105		Z	8.59	77.82	22.06		65.0	
10105- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	8.19	76.36	21.65	3.98	65.0	± 9.6 %
	<del> </del>	Y	7.71	74.18	20.67		65.0	
10108-	LITE FDD (DC FDMA 1000) FD	Z	7.86	76.00	21.56		65.0	
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	
10109-	TE-EDD (SC EDMA 4000) DD 40	Z	2.85	70.87	17.28		150.0	
CAE_	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.18	69.27	17.05	0.00	150.0	± 9.6 %
	<del> </del>	Y	3.05	67.82	16.11		150.0	
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.94 2.72	68.18 72.52	16.29 18.35	0.00	150.0 150.0	± 9.6 %
<u> </u>	T	Y	2.40	69.28	16.40		450.0	
		ż	2.33	70.22	16.49 16.99		150.0	
10111-							1001111	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.96	70.65	17.72	0.00	150.0 150.0	± 9.6 %
						0.00		± 9.6 %

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	3.29	69.10	17.02	0.00	150.0	± 9.6 %
		Υ	3.17	67.76	16.14		150.0	
		Ζ	3.06	68.15	16.32		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	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)	Х	5.26	67.86	16.86	0.00	150.0	± 9.6 %
		Y	5.25	67.40	16.53		150.0	
		Z	5.14	67.65	16.68		150.0	
10115- CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Х	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 %
		Υ	<u>5</u> .38	67.68	16.59		150.0	
		Ζ	5.23	67.82	16.70		150.0	
10117- CAB	JEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	Х	5.24	67.79	16.84	0.00	150.0	± 9.6 %
		Υ	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)	Х	5.68	68.30	17.08	0.00	150.0	± 9.6 %
		Y	5.70	67.92	16.80		150.0	
		Ζ	5.48	67.91	16.83		150.0	
101 <b>1</b> 9- 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	
		Ζ	5.21	67.79	16.69	-	150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	3.63	69.06	16.93	0.00	150.0	± 9.6 %
		Υ	3.53	67.92	16.17		150.0	
		Ζ	3.42	68.16	16.33		150.0	· · ·
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	3.75	69.06	17.04	0.00	150.0	± 9.6 %
		Υ	3.65	67.98	16.31		150.0	
		Ζ	3.54	68.23	16.48		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	2.58	73.34	18.51	0.00	150.0	± 9.6 %
		Υ	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)	Х	3.01	72.46	18.03	0.00	150.0	± 9.6 %
		Υ	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)	Х	2.64	69.45	16.13	0.00	150.0	± 9.6 %
		Υ	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)	Х	2.19	73.84	16.83	0.00	150.0	± 9.6 %
		Υ	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)	Х	6.00	80.94	18.56	0.00	150.0	± 9.6 %
		Υ	2.97	71.15	15.11		150.0	
		Ζ	2.39	68.87	12.55		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	13.14	91.59	22.17	0.00	150.0	± 9.6 %
	-	Y	3.76	74.52	16.70		150.0	<del>                                     </del>
		Z	3.21	72.37	14.16	<u> </u>	150.0	

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10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	3.19	69.34	17.10	0.00	150.0	± 9.6 %
		Υ	3.06	67.89	16.15		150.0	
		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	i
		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	
		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 %
		Υ	8.60	77.29	21.85		65.0	<u> </u>
		Z	8.71	79.10	22.58		65.0	<del> </del>
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	-
		Z	2.38	70.62	17.23		150.0	<del>                                     </del>
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	2.96	70.66	17.73	0.00	150.0	± 9.6 %
		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	<del></del>
		Z	2.00	70.89	16.58	-	150.0	<del></del> -
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 %
		T	2.30	67.95	15.09		150.0	
		Z	2.17	68.55	14.74		150.0	<del> </del>
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 %
		Y	2.92	68.65	16.60		150.0	<del></del>
		Z	2.84	69.48	16.81		150.0	<u> </u>
10159- 7 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	-
		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	<del></del>	150.0	
		Z	2.85	69.90	17.00		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.19	69.15	17.05	0.00	150.0	± 9.6 %
		T	3.08	67.73	16.13		150.0	
		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 %
		Υ	3.18	67.80	16.21		150.0	
10100	LITE EDD (OO ED) (A EOS)	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 %
		Υ	3.92	70.06	19.35	_	150.0	
1016=		Z	3.85	71.64	20.32		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	5.70	76.91	21.68	3.01	150.0	± 9.6 %
		Y	4.94	72.92	19.80		150.0	
		Z	5.14	76.11	21.32		150.0	<del></del>
								_

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 %
		Y	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)	Х	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 %
		Υ	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	<u> </u>
40470	1.75.700 (0.4.700)	<u>Z</u> _	4.25	75.40	20.64		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	×	82.16	130.26	39.09	6.02	65.0	± 9.6 %
	<u> </u>	Y	17.62	97.94	29.93		65.0	
10/50		Z	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 %
		Υ	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)	Х	55.61	114.43	32.46	6.02	65.0	± 9.6 %
		Υ	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 %
		Υ	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 %
		Y	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)	Х	3.85	73.93	21.31	3.01	150.0	± 9.6 %
		Υ	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 %
		Υ	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 %
		Υ	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 %
		Υ	3.51	70.61	19.47		150.0	
		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	
		Z	5.35	80.42	23.61		150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	5.17	78.15	21.69	3.01	150.0	± 9.6 %
		Υ	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		150.0	
40405	LTE FDD (OO FDL)	<u>  Z</u>	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 %
		Y	4.98	76.45	21.70		150.0	
40400	LTE EDD (6.5	Z	5.38	80.50	23.65		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	5.20	78.24	21.73	3.01	150.0	± 9.6 %
		<u> Y</u>	4.13	72.45	19.11		150.0	
10187-	LTE EDD (OO ED)	Z	4.25	75.38	20.62		150.0	
CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.87	74.02	21.39	3.01	150.0	± 9.6 %
		Y	3.53	70.69	19.55		150.0	
40400	1 TE EDD (00 TELL)	Z	3.37	71.71	20.36		150.0	
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	
10100	LTE EDD (00 ED)	Z	5.58	81.30	24.05		150.0	
10189- _AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	5.39	78.94	22.10	3.01	150.0	± 9.6 %
		Y	4.22	72.89	19.39		150.0	
10100	IEEE 000 44 /UT 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	
40404	ISSE COLUMN TO THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	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 %
		Υ	4.86	67.18	16.41		150.0	
10105		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 %
		Υ	4.90	67.20	16.42		150.0	
40400		<u></u>	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 %
		Υ	4.68	66.91	16.33		150.0	
1010=		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	
10100		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 %
		Υ	4.91	67.21	16.43		150.0	
40040	IEEE OOO 44 OUT 11	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 %
		Υ	4.63	66.93	16.29		150.0	
40000	1555 000 11	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 %
		Υ	4.88	67.19	16.42		150.0	
40004		Ζ	4.69	67.38	16.50		150.0	
10221- <u>C</u> AB	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	<del></del>	150.0	
40000		Z	4.74	67.37	16.52	<del></del> -	150.0	
10222- CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	Х	5.22	67.81	16.85	0.00	150.0	± 9.6 %
		Υ	5.23	67.42	16.55		150.0	
	<u> </u>	Z	5.08	67.50	16.62		150.0	
							100.0	

10223- CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.53	67.97	16.94	0.00	150.0	± 9.6 %
		T	5.59	67.74	16,73		150.0	
	-	Ż	5.38	67.75	16.76		150.0	<del> </del>
10224- CAB	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	
		Ż	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	<u> </u>
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	100.00	126.81	36.25	6.02	65.0	± 9.6 %
		Y	20.60	97.21	28.37		65.0	
		Z	100.00	129.54	37.41		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	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)	Х	79.85	130.36	39.26	6.02	65.0	± 9.6 %
		Υ	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)	Х	91.11	124.93	35.70	6.02	65.0	± 9.6 %
		Υ	19.80	96.38	28.04		65.0	İ
		Z	100.00	129.35	37.29		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	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)	Х	72.28	128.22	38.64	6.02	65.0	± 9.6 %
		Υ	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)	Х	91.25	124.96	35.71	6.02	65.0	± 9.6 %
		Y	19.78	96.37	28.04		65.0	
		Z	100.00	129.36	37.30		65.0	
10233- CAD	»LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	Х	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)	Х	65.41	125.97	37.96	6.02	65.0	± 9.6 %
		Υ	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)	X	91.93	125.11	35.75	6.02	65.0	± 9.6 %
		Y	19.81	96.41	28.05		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 %
		Υ	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 %
		Υ_	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 %
<u> </u>		1 37	40.70	00.00	00.04			
		Y	19.78 100.00	96.38	28.04		65.0	

CAD   64-QAM    Y   17.58   93.22   26.86   65.0   10240   QPSK    Y   19.44   102.72   35.05   65.0   19.6 %   10241   10241   10240   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   10241   1024	40000	LTC TDD (CO PD)							
10240-	10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	60.36	115.92	32.87	6.02	65.0	± 9.6 %
10240						26.66		65.0	1
CAD	-		<u> </u>		122.72	35.05		65.0	
10241-		QPSK) LTE-TDD (SC-FDMA, 1 RB, 15 MHz,			128.53	38.72	6.02	65.0	± 9.6 %
10241-   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,   X   14.22   90.30   28.70   6.98   65.0   ± 9.6 %			<u> </u>			30.69		65.0	
CAA	45544		Z		127.70	39.15		65.0	
10242-  CAA							6.98	65.0	± 9.6 %
10242- CAA 64-QAM)  10243- CAA 64-QAM)  10244- CAB 10244- CAB 10244- CAB 10245- CAB 10245- CAB 10246- CAB 10246- CAB 10247- CAB 10247- CAB 10246- CAB 10247- CAB 10247- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10248- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10250- CAB 10250- CAB 10250- CAB 10250- CAB 10260-							65.0		
CAA 64-QAM)    Y   11.04   83.09   25.82   65.0	40040	LTE TOP (OO EDING				29.82		65.0	
10243-   CAA   CPSK   CFDMA, 50% RB, 1.4 MHz,   X   9.46   83.32   26.91   6.98   65.0   ± 9.6 %   CAA   CPSK   CFDMA, 50% RB, 1.4 MHz,   X   9.46   83.32   26.91   6.98   65.0   ± 9.6 %   CFDMA, 50% RB, 3 MHz,   X   10.76   82.68   21.60   3.98   65.0   ± 9.6 %   CFDMA, 50% RB, 3 MHz,   X   10.76   82.68   21.60   3.98   65.0   ± 9.6 %   CFDMA, 50% RB, 3 MHz,   X   10.76   82.68   21.60   3.98   65.0   ± 9.6 %   CFDMA, 50% RB, 3 MHz,   X   10.44   81.95   21.29   3.98   65.0   ± 9.6 %   CFDMA, 50% RB, 3 MHz,   X   10.44   81.95   21.29   3.98   65.0   ± 9.6 %   CFDMA, 50% RB, 3 MHz,   X   10.44   81.95   21.29   3.98   65.0   ± 9.6 %   CFDMA, 50% RB, 3 MHz,   X   10.44   81.95   21.29   3.98   65.0   ± 9.6 %   CFDMA, 50% RB, 5 MHz,   X   10.44   81.95   21.69   65.0							6.98	65.0	± 9.6 %
10243- CAA OPSK)  LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK)  LTE-TDD (SC-FDMA, 50								65.0	
CAA         OPSK)         Y         9.15         80.79         25.71         65.0           10244-CAB         LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)         X         10.76         82.68         21.60         3.98         65.0         ±9.6 %           10245-CAB         LTE-TDD (SC-FDMA, 50% RB, 3 MHz, CAB         X         10.76         82.68         21.60         3.98         65.0         ±9.6 %           10245-CAB         LTE-TDD (SC-FDMA, 50% RB, 3 MHz, CAB         X         10.44         81.95         21.29         3.98         65.0         ±9.6 %           10246-CAB         LTE-TDD (SC-FDMA, 50% RB, 3 MHz, CAB         X         10.44         81.95         21.29         3.98         65.0         ±9.6 %           10246-CAB         LTE-TDD (SC-FDMA, 50% RB, 3 MHz, CAB         X         11.044         81.95         21.29         3.98         65.0         ±9.6 %           10247-CAB         LTE-TDD (SC-FDMA, 50% RB, 3 MHz, CAB         X         11.041         84.49         21.88         65.0         ±9.6 %           10247-CAD         LTE-TDD (SC-FDMA, 50% RB, 5 MHz, CAB         X         8.24         79.27         21.01         3.98         65.0         ±9.6 %           10249-CAD         LTE-TDD (SC-FDMA, 50% RB, 5 MHz, CAB	40010			14.66	92.40	29.55		65.0	
10,244					83.32	26.91	6.98	65.0	± 9.6 %
TO 244					80.79	25.71		65.0	T
10244- LTE-TDD (SC-FDMA, 50% RB, 3 MHz, CAB If-CABM)	1051								T
TO 245							3.98		± 9.6 %
Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tigh					79.37	20.74		65.0	Τ
10246-   CAB   GA-QAM   CAB   GA-QAM   CAB   GA-QAM   CAB   GA-QAM   CAB   GA-QAM   CAB	400:5				80.90	20.36	_		
10246-   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)				10.44	81.95	21.29	3.98	65.0	± 9.6 %
10246-   CAB			Υ	9.07	78.96	20.54		65.0	
10248- CAB QPSK)    TE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   Y   8.94   81.85   21.69   65.0   ±9.6 %	<del></del>		Z	9.24					
10247-   CAD   16-QAM    16-QAM    2   10.01   84.49   21.88   65.0   19.6 %			X	11.35	86.57	23.09	3.98		± 9.6 %
Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tigh			Υ	8.94	81.85	21.69		65.0	<del> </del>
10247-   CAD				10.01					
10248-   CAD   C			X	8.24			3.98		± 9.6 %
10248-   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 10 MHz, CAD   SC-FDMA, 50% RB, 1				7.74	77.28	20.43		65.0	
LTE-TDD (SC-FDMA, 50% RB, 5 MHz, CAD			Z				<del> </del> -		<del></del>
The color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the			Х				3.98		± 9.6 %
Tour			Υ	7.73	76.82	20.23	<del></del>	65.0	
10249- CAD CAD CRB, 50 MHz, CAD CAD CRB, 5 MHz, CAD CAD CAD CAD CRB, 50 MHz, CAD CAD CAD CAD CAD CAD CAD CAD CAD CAD			Ζ						<del>                                     </del>
Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   T			Х				3.98		± 9.6 %
Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   Tender   T			Υ	9.64	83.20	22.76		65.0	
10250- CAD 16-QAM)			Ζ						
10251-   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, C							3.98		± 9.6 %
Te-ton   Cade			Υ	8.50	78.84	22.20		65.0	
10251- CAD  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  Y 8.10 76.89 21.13 65.0  Z 8.20 78.63 21.61 65.0  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, X 11.59 86.92 24.65 3.98 65.0 ± 9.6 %  Y 9.53 82.29 23.01 65.0  Z 11.63 87.60 24.87 65.0  LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 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  LTE-TDD (SC-FDMA, 50% RB, 15 MHz, X 8.67 78.35 22.26 3.98 65.0 ± 9.6 %  Y 8.41 76.75 21.61 65.0			Z						
10252-   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, CAD   Y   9.53   82.29   23.01   65.0   ± 9.6 %							3.98		± 9.6 %
10252-   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, CAD   Y   9.53   82.29   23.01   65.0   ± 9.6 %			Y	8.10	76.89	21.13		65.0	
LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)									
10253-   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD     X     8.27     77.55     21.65     3.98     65.0     ± 9.6 %		LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)					3.98		± 9.6 %
10253-   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD     X     8.27     77.55     21.65     3.98     65.0     ± 9.6 %			Y	9.53	82.29	23.01		65 0	
10253- CAD 16-QAM)									
10254-   LTE-TDD (SC-FDMA, 50% RB, 15 MHz,   X   8.67   78.35   22.26   3.98   65.0   ± 9.6 %							3.98		± 9.6 %
10254-   LTE-TDD (SC-FDMA, 50% RB, 15 MHz,   X   8.67   78.35   22.26   3.98   65.0   ± 9.6 %			Y	8.04	76.02	21.02		65 A	<del></del>
10254- CAD LTE-TDD (SC-FDMA, 50% RB, 15 MHz, X 8.67 78.35 22.26 3.98 65.0 ± 9.6 % Y 8.41 76.75 21.61 65.0			-						<del></del>
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)					3.98		± 9.6 %
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			<del>-</del>	8.41	76.75	21 61		GE O	
			Z	8.50	78.49	22.25		65.0	

10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	9.69	82.20	23.16	3.98	65.0	± 9.6 %
		Υ	8.77	79.29	22.03		65.0	<del></del>
		Z	9.70	82.84	23.45		65.0	
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 %
		Υ	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)	Х	8.71	78.44	19.07	3.98	65.0	± 9.6 %
		Υ	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)	Х	9.16	82.49	20.98	3.98	65.0	± 9.6 %
		Υ	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 %
		Υ	8.03	77.80	21.03		65.0	
10000		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 %
		Υ	8.06	77.57	20.96		65.0	
1000:		Z	8.06	78.82	20.93		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	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	
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 %
		Υ	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)	Х	11.49	86.74	24.57	3.98	65.0	± 9.6 %
		Υ	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 %
		Υ	8.22	76.54	21.21		65.0	
		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)	Х	10.06	82.61	23.09	3.98	65.0	± 9.6 %
		Υ	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)	Х	8.87	77.45	21.95	3.98	65.0	± 9.6 %
		Υ	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)	Х	8.77	76.99	21.83	3.98	65.0	± 9.6 %
		Υ	8.66	75.80	21.31		65.0	
		Z	8.60	77.10	21.92		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	9.16	79.20	21.93	3.98	65.0	± 9.6 %
		Υ	8.71	77.35	21.19		65.0	
		Z	9.06	79.57	22.19		65.0	1

10274-	UMTS-FDD (HSUPA, Subtest 5, 3GPP	Х	2.80	68.17	16.47	0.00	150.0	± 9.6 %
CAB	Rel8.10)	ļ						= 5.0 %
		Y	2.67	66.63	15.50		150.0	
40075	1,11,170	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 %
		Υ	1.72	68.53	16.00		150.0	
		Z	1.76	70.05	16.72		150.0	
10277- CAA	PHS (QPSK)	Х	5.32	68.96	13.42	9.03	50.0	± 9.6 %
		Υ	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	
10000		Z	8.30	77.91	19.28		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	3.59	82.57	20.48	0.00	150.0	± 9.6 %
		Υ	1.73	70.44	15.45		150.0	
		Z	1.75	72.09	15.26		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	2.13	80.55	19.92	0.00	150.0	± 9.6 %
		Y	0.98	67.37	13.95		150.0	
		Z	1.01	69.27	14.02		150.0	
10292- _AAB	CDMA2000, RC3, SO32, Full Rate	Х	12.02	108.71	29.17	0.00	150.0	± 9.6 %
		Υ	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 %
·		Υ	10.44	82.50	23.85		50.0	_
<u></u> -		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)	Х	2.53	75.50	18.42	0.00	150.0	± 9.6 %
		Υ	1.83	69.14	15.39		150.0	
		Z	1.69	69.62	14.84		150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	6.61	82.78	20.21	0.00	150.0	± 9.6 %
		Υ	3.43	72.67	16.51		150.0	
10055		Ζ	3.82	74.80	16.21		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	3.24	71.51	15.06	0.00	150.0	± 9.6 %
		Υ	2.57	67.68	13.54		150.0	
40004	IEEE 000 to Without	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 %
		Y	5.93	68.63	18.94		80.0	
40000	IEEE 000 40	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 Z	6.38	69.08	19.58		80.0	

10303-	IEEE 802.16e WIMAX (31:15, 5ms,	X	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	
40004	1555 000 40 1455 400 40 5	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	
10306-	IEEE 802.16e WiMAX (29:18, 10ms,	Z	11.97	88.64	28.23	0.00	50.0	. 0.00/
AAA	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	
10307-	IEEE 802.16e WiMAX (29:18, 10ms,	Z	6.81 6.58	73.77 73.04	22.17	6.02	50.0 50.0	1000
AAA	10MHz, QPSK, PUSC, 18 symbols)				22.08	0.02		± 9.6 %
	<del> </del>	Y Z	8.34	78.37	24.64		50.0	
10308-	IEEE 802.16e WiMAX (29:18, 10ms,	X	6.92	74.46	22.29	6.00	50.0	+000
AAA	10MHz, 16QAM, PUSC)	^ Y	6.66	73.56	22.34	6.02	50.0	± 9.6 %
		Z	8.60 7.08	79.30 75.16	25.04 22.62		50.0	
10309-	IEEE 802.16e WIMAX (29:18, 10ms,	X	6.58	72.60	22.02	6.02	50.0 50.0	± 9.6 %
AAA	10MHz, 16QAM, AMC 2x3, 18 symbols)	Y	6.95	72.58	21.85	0.02	50.0	19.0 %
		Z	6.90	74.05	22.35		50.0	
10310-	IEEE 802.16e WiMAX (29:18, 10ms,	X	6.50	72.56	21.95	6.02	50.0	± 9.6 %
AAA_	10MHz, QPSK, AMC 2x3, 18 symbols)					6.02		± 9.6 %
	<del></del>	Z	6.87	72.52 74.10	21.70 22.23		50.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.86 3.70	72.28	18.01	0.00	50.0 150.0	± 9.6 %
7070	WHIZ, QLOR)	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 %
		Υ	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)	Х	4.76	67.47	16.83	0.17	150.0	± 9.6 %
·		Υ	4.78	67.03	<b>1</b> 6.51		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)	Х	4.76	67.47	16.83	0.17	150.0	± 9.6 %
		Y	4.78	67.03	16.51	-	150.0	
10400-	IEEE 802.11ac WiFi (20MHz, 64-QAM,	Z X	4.63 4.86	67.31 67.74	16.62 16.77	0.00	150.0 150.0	± 9.6 %
AAC	99pc duty cycle)	1,	4.0=	07.01	40.10	-	450.0	
	<del>-</del>	Y	4.87	67.24	16.40		150.0	
10404	[EEE 900 4400 M/IE: /40MI   - 64 CAM	Z	4.68	67.47	16.52	0.00	150.0	1000
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 %
	<u> </u>	Y	5.52	67.36	16.52		150.0	
		Z	5.41	67.67	16.70		150.0	

AAC									
10403-	10402- AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)				16.86	0.00	150.0	± 9.6 %
10404-   CDMA2000 (1xEV-DO, Rev. 0)					67.85	16.61		150.0	
DMA2000 (1xEV-DO, Rev. 0)			Z	5.64	67.83	16.63			
10404-AAB		CDMA2000 (1xEV-DO, Rev. 0)		3.59	82.57		0.00		± 9.6 %
CDMA2000 (1xEV-DQ, Rev. A)			Y	1.73	70.44	15.45		115.0	
10404-   AAB			Z	1.75			· · · · · · · · · · · · · · · · · · ·		1
10406-   AAB		CDMA2000 (1xEV-DO, Rev. A)	Х				0.00		± 9.6 %
Total				1.73	70.44	15.45		115.0	
1046-   CDMA2000, RC3, SO32, SCH0, Full   X   100.00   122.57   31.18   0.00   100.0   ± 9   x   x   x   x   x   x   x   x   x			Z	1.75	72.09	15.26			
10410-						31.18	0.00		± 9.6 %
10410-					99.60	26.20		100.0	
AAC			Z	100.00	120.33	29.78		100.0	
10415-		LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)				30.51	3.23		± 9.6 %
10415-   IEEE 802.11b WiFi 2.4 GHz (DSSS, 1					120.68	31.13		80.0	
10415- AAA Mbps, 99pc duty cycle)  Y 1.03 63.31 14.91 150.0  Z 1.05 64.05 15.43 150.0  10416- AAA DFDM, 6 Mbps, 99pc duty cycle)  Y 4.67 66.86 16.34 150.0  Y 4.67 66.86 16.34 150.0  Z 4.53 67.14 16.45 150.0  Y 4.67 66.86 16.34 150.0  IEEE 802.11ah WiFi 5 GHz (OFDM, 6 X 4.67 67.36 16.71 0.00 150.0 ±9.  Mbps, 99pc duty cycle)  Y 4.67 66.86 16.34 150.0  Y 4.67 66.86 16.34 150.0  IEEE 802.11ah WiFi 5 GHz (OFDM, 6 X 4.67 67.36 16.71 0.00 150.0 ±9.  Mbps, 99pc duty cycle)  Y 4.67 66.86 16.34 150.0  Z 4.53 67.14 16.45 150.0  IEEE 802.11g WiFi 2.4 GHz (DSSS- X 4.66 67.53 16.73 0.00 150.0 ±9.  TO418- AAA  IEEE 802.11g WiFi 2.4 GHz (DSSS- X 4.66 67.00 16.35 150.0  Y 4.66 67.00 16.35 150.0  IEEE 802.11g WiFi 2.4 GHz (DSSS- X 4.68 67.47 16.73 0.00 150.0 ±9.  TO419- AAA  IEEE 802.11g WiFi 2.4 GHz (DSSS- X 4.68 67.47 16.73 0.00 150.0 ±9.  TO419- AAA  IEEE 802.11g WiFi 2.4 GHz (DSSS- X 4.68 67.47 16.73 0.00 150.0 ±9.  Y 4.68 66.95 16.36 150.0  IO422- AAA  IEEE 802.11n (HT Greenfield, 7.2 Mbps, X 4.80 67.45 16.73 0.00 150.0 ±9.  Y 4.81 66.96 16.37 150.0  IEEE 802.11n (HT Greenfield, 43.3 X 4.99 67.80 16.85 0.00 150.0 ±9.  Y 4.81 66.96 16.37 150.0  IO423- AAA  Mbps, 10-QAM)  Y 4.91 67.27 16.47 150.0  IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.60 16.85 0.00 150.0 ±9.  IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.60 16.83 0.00 150.0 ±9.  IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.60 16.83 0.00 150.0 ±9.  IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.60 16.83 0.00 150.0 ±9.  IEEE 802.11n (HT Greenfield, 15 Mbps, X 5.49 68.02 16.94 0.00 150.0 ±9.  IO424- AAA  IEEE 802.11n (HT Greenfield, 15 Mbps, X 5.49 68.02 16.94 0.00 150.0 ±9.  IO425- AAA  IEEE 802.11n (HT Greenfield, 15 Mbps, X 5.49 68.02 16.94 0.00 150.0 ±9.  IO426- AAA  IEEE 802.11n (HT Greenfield, 90 Mbps, X 5.49 68.02 16.94 0.00 150.0 ±9.			Z	100.00					
10416- AAA  IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)  Y 4.67 66.86 16.34 150.0  10417- AAA  IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 AAA  Mbps, 99pc duty cycle)  Y 4.67 66.86 16.34 150.0  10417- AAA  IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 AAA  Mbps, 99pc duty cycle)  Y 4.67 66.86 16.34 150.0  10418- AAA  IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)  Y 4.66 67.00 16.35 150.0  IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)  Y 4.66 67.00 16.35 150.0  IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)  Y 4.68 66.95 16.36 150.0  IEEE 802.11n (HT Greenfield, 7.2 Mbps, AAA  BPSK)  Y 4.81 66.96 16.37 150.0  Y 4.81 66.96 16.37 150.0  IEEE 802.11n (HT Greenfield, 43.3 X 4.80 67.45 16.49 150.0  Y 5.00 67.33 16.51 150.0  10423- AAA  Mbps, 16-QAM)  Y 5.00 67.33 16.51 150.0  Y 4.81 66.96  IEEE 802.11n (HT Greenfield, 72.2 Mbps, AAA  Mbps, 16-QAM)  Y 4.91 67.27 16.63 0.00 150.0 ±9.  Y 4.91 67.27 16.63 0.00 150.0 ±9.  IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.76 16.83 0.00 150.0 ±9.  Y 4.91 67.27 16.64 16.59 150.0  IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.76 16.83 0.00 150.0 ±9.  AAA  IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.76 16.83 0.00 150.0 ±9.  IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.76 16.83 0.00 150.0 ±9.  AAA  IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.76 16.83 0.00 150.0 ±9.  AAA  IEEE 802.11n (HT Greenfield, 75.80 Mbps, AAA  IEEE 802.11n (HT Greenfield, 75.80 Mbps, AAA  IEEE 802.11n (HT Greenfield, 75.80 Mbps, AAA  IEEE 802.11n (HT Greenfield, 75.80 Mbps, AAA  IEEE 802.11n (HT Greenfield, 75.80 Mbps, AAA  IEEE 802.11n (HT Greenfield, 75.80 Mbps, AAA  IEEE 802.11n (HT Greenfield, 75.80 Mbps, AAA  IEEE 802.11n (HT Greenfield, 75.80 Mbps, AAA  IEEE 802.11n (HT Greenfield, 75.80 Mbps, AAA  IEEE 802.11n (HT Greenfield, 75.80 Mbps, AAA  IEEE 802.11n (HT Greenfield, 75.80 Mbps, AAA  IEEE 802.11n (HT Greenfield, 75.80 Mbps, AAA  IEEE 802.11n (HT Greenfield, 75.80 Mbps, AAA  IEEE 802.11n (HT Greenfield, 7		IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)					0.00		± 9.6 %
10416-   IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)			Y	1.03	63.31	14.91		150.0	
10416-   AAA			Z	1,05			1		<del>                                     </del>
10417-   IEEE 802.11a/h WiFi 5 GHz (OFDM, 6   X   4.67   67.36   16.71   0.00   150.0   ± 9.		IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	Х				0.00		± 9.6 %
Total			Y	4.67	66.86	16.34		150.0	<u> </u>
Total			Z	4.53					-
Total		IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	Х				0.00		± 9.6 %
Total			Y	4.67	66.86	16.34		150.0	
10418-   IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)									
10419-   IEEE 802.11g WiFi 2.4 GHz (DSSS-		OFDM, 6 Mbps, 99pc duty cycle, Long	X				0.00		± 9.6 %
Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Tota			Υ	4.66	67.00	16.35	_	150.0	<del>-</del>
Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Tota			Z	4.52					
10422-   IEEE 802.11n (HT Greenfield, 7.2 Mbps,   X   4.80   67.26   16.48   150.0   150.0   ± 9.	AAA —	OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X				0.00		± 9.6 %
Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Tota			Y	4.68	66.95	16.36		150.0	
10422-   AAA   BPSK   FEE 802.11n (HT Greenfield, 7.2 Mbps, AAA   A.80									
Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Tota							0.00		± 9.6 %
Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Tota			Y	4.81	66.96	16.37	-	150.0	<del>                                     </del>
Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Total   Tota			Z						
10424-   IEEE 802.11n (HT Greenfield, 72.2   X   4.90   67.76   16.83   0.00   150.0   ± 9.00							0.00		± 9.6 %
10424-   IEEE 802.11n (HT Greenfield, 72.2   X   4.90   67.76   16.83   0.00   150.0   ± 9.1			Y	5.00	67.33	16.51		150.0	
10424- AAA    EEE 802.11n (HT Greenfield, 72.2   X   4.90   67.76   16.83   0.00   150.0   ± 9.									
10425-   AAA     IEEE 802.11n (HT Greenfield, 15 Mbps,   X   5.49   68.02   16.94   0.00   150.0   ± 9.00   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     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     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     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     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     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			X	4.90	67.76		0.00		± 9.6 %
10425-   AAA     IEEE 802.11n (HT Greenfield, 15 Mbps,   X   5.49   68.02   16.94   0.00   150.0   ± 9.4				4.91	67.27	16.47		150.0	
10425- AAA   IEEE 802.11n (HT Greenfield, 15 Mbps, X   5.49   68.02   16.94   0.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   150.0   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00   ± 9.00				4.73					
10426- IEEE 802.11n (HT Greenfield, 90 Mbps, X 5.49 68.02 16.94 0.00 150.0 ± 9.00 16.00 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 15		IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	Х	5.49			0.00		± 9.6 %
10426- IEEE 802.11n (HT Greenfield, 90 Mbps, X 5.49 68.02 16.94 0.00 150.0 ± 9.00 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16.94 16				5.50	67.62	16.64	_	150.0	
10426- IEEE 802.11n (HT Greenfield, 90 Mbps, X 5.49 68.02 16.94 0.00 150.0 ± 9.0	<del></del>		Z						
		IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)					0.00		± 9.6 %
Y 5.51 67.65 16.65 150.0			Y	5.51	67,65	16 65		150.0	
Z 5.36 67.83 16.78 150.0									<del></del> -

10427- AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	5.50	68.00	16.93	0.00	150.0	± 9.6 %
		Y	5.52	67.64	16.64	$\vdash$	150.0	<del>                                     </del>
-		Ż	5.36	67.74	16.73	<del></del>	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 %
		Υ	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)	Х	4.40	68.10	16.85	0.00	150.0	± 9.6 %
		Υ	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 %
<del>_</del>		Υ	4.69	67.31	16.44		150.0	
40.400		Z	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	
1015:		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> </u>	Υ	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)	Х	100.00	120.11	30.42	3.23	80.0	± 9.6 %
-		Υ	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 %
		Υ_	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%)	Х	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%)	Х	4.49	67.72	16.75	0.00	150.0	± 9.6 %
		Υ	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%)	Х	4.67	67.59	16.73	0.00	150.0	± 9.6 %
		Υ	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 %
		Υ	3.63	67.76	15.64		150.0	
40455		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 %
		Υ	6.36	68.23	16.81		150.0	
		Z	6.24	68.31	16.89		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	Х	3.87	65.97	16.44	0.00	150.0	± 9.6 %
		Y	3.87	65.48	16.06		150.0	
40455	ODIMAGO // TO T	Z	3.81	65.79	16.17		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	Х	4.35	72.54	18.72	0.00	150.0	± 9.6 %
		Y	4.10	70.59	17.78		150.0	
1015		Z	4.02	71.83	17.67		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	Х	5.25	68.89	18.60	0.00	150.0	± 9.6 %
		Υ	5.22	68.08	18.20		150.0	
		ż	4.96		_ 10.20	l	150.0	t .

AAA    Y   0.96   69.05   16.73   150.0   150.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.	10460-	UMTS-FDD (WCDMA, AMR)	Тх	1.62	80.44	22.68	1 0.00	450.0	1 . 0 0 0/
TIE-TDD (SC-FDMA, 1 RB, 1.4 MHz, AAA   CPSK, UL Subframe-2,3.4,7,8,9)		Civite 1 22 (Weblat, 7 tivity)					0.00	150.0	± 9.6 %
10461-   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, AAA   CPSK, UL Subframe-2,3.4,7.8,9)								150.0	
AAA	40404	LTE TRR (OR EDING						150.0	
Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tigh		LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)			125.40	32.90	3.29	80.0	± 9.6 %
Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tigh					122.42	32.02		80.0	
10462- LTE-TDD (SC-FDMA, 1 RB, 1 A MHz, AAA			Ζ	100.00	127.89	33.84			-
Tender		LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X		109.25		3.23		± 9.6 %
Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tigh			Υ	100.00	110.42	26.29		80.0	
10463-				100.00	110.45	25.54			
10464-   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		± 9.6 %
Total				31.87	95.11	22.04		80.0	
10464- AAA			Z	100.00	107.01	23.88			
Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   Terror   T		LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	123.48		3.23		± 9.6 %
Total Color			Y	100.00	120.78	31.11		80.0	
10468- AAA AAA AAA AAA AAA AAA AAA AAA AAA A									<del> </del> -
TE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-AAA   CAM, UL Subframe=2,3,4,7,8,9)		LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X				3.23		± 9.6 %
10466-				57.38	103.50	24.59		80.0	_
10466- AAA			Z						
Te-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)		LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
10467-   AC			Y	19.30	89.18	20.39	<del>                                     </del>	80.0	
10467- AAC QPSK, UL Subframe=2,3,4,7,8,9)  10468- AC QRM, UL Subframe=2,3,4,7,8,9)  10469- AAC QAM, UL Subframe=2,3,4,7,8,9)  10469- AAC QAM, UL Subframe=2,3,4,7,8,9)  10470- AAC QPSK, UL Subframe=2,3,4,7,8,9)  10470- AAC QRSK, UL Subframe=2,3,4,7,8,9)  10470- AAC QRSK, UL Subframe=2,3,4,7,8,9)  10470- AAC QPSK, UL Subframe=2,3,4,7,8,9)  10471- AAC QPSK, UL Subframe=2,3,4,7,8,9)  10471- AAC QAM, UL Subframe=2,3,4,7,8,9)  10471- AAC QAM, UL Subframe=2,3,4,7,8,9)  10472- AAC QAM, UL Subframe=2,3,4,7,8,9)  10473- AAC QAM, UL Subframe=2,3,4,7,8,9)  10474- AAC QAM, UL Subframe=2,3,4,7,8,9)  10475- AAC QAM, UL Subframe=2,3,4,7,8,9)  10476- AAC QAM, UL Subframe=2,3,4,7,8,9)  10477- AAC QAM, UL Subframe=2,3,4,7,8,9)  10478- AAC QAM, UL Subframe=2,3,4,7,8,9)  10479- AAC AC QAM, UL Subframe=2,3,4,7,8,9)  10478- AAC QAM, UL Subframe=2,3,4,7,8,9)  10479- AAC AC QAM, UL Subframe=2,3,4,7,8,9)  10474- AAC AC CAM, UL Subframe=2,3,4,7,8,9)  10475- AAC CAM, UL Subframe=2,3,4,7,8,9)  10476- AAC CAM, UL Subframe=2,3,4,7,8,9)  10477- AAC CAM, UL Subframe=2,3,4,7,8,9)  10478- AAC CAM, UL Subframe=2,3,4,7,8,9)  10479- AAC CAM, UL Subframe=2,3,4,7,8,9)  10479- AAC CAM, UL Subframe=2,3,4,7,8,9)  10479- AAC CAM, UL Subframe=2,3,4,7,8,9)  10479- AAC CAM, UL Subframe=2,3,4,7,8,9)  10479- AAC CAM, UL Subframe=2,3,4,7,8,9)  10479- AAC CAM, UL Subframe=2,3,4,7,8,9)  10479- AAC CAM, UL Subframe=2,3,4,7,8,9)  10470- AAC CAM, UL Subframe=2,3,4,7,8,9)  10470- AAC CAM, UL Subframe=2,3,4,7,8,9)  10471- AAC CAM, UL Subframe=2,3,4,7,8,9)  10472- AAC CAM, UL Subframe=2,3,4,7,8,9)  10473- AAC CAM, UL Subframe=2,3,4,7,8,9)  10474- AAC CAM, UL Subframe=2,3,4,7,8,9)  10475- AAC CAM, UL Subframe=2,3,4,7,8,9)  10476- AAC CAM, UL Subframe=2,3,4,7,8,9)  10478- AAC CAM, UL Subframe=2,3,4,7,8,9)  10479- AAC CAM, UL Subframe=2,3,4,7,8,9)  10479- AAC CAM, UL Subframe=2,3,4,7,8,9)  10479- AAC CAM, UL Subframe=2,3,4,7,8,9)  10479- AAC CAM, UL Subframe=2,3,4,7,8,9)  10479- AAC CAM, UL Subframe=2,3,4,7,8,9)  10479- AAC CAM, UL Subframe=2,3,4,7,8,9)  10479- AAC CAM,			Z						-
Tourish		LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
Tourish			Y	100.00	120.96	31 19		80.0	
10468-   AAC   AAC   CAM, UL Subframe=2,3,4,7,8,9   Y   68.69   105.73   25.14   80.0   ±9.6 %									
10469-AC							3.23		± 9.6 %
10469-AC			Y	68.69	105.73	25 14	<del>                                     </del>	80.0	
TTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- AC   AC   CAM, UL Subframe=2,3,4,7,8,9)   Y   19.75   89.45   20.46   80.0   ±9.6 %	_								
10470-   AC   CTE-TDD (SC-FDMA, 1 RB, 10 MHz, AC   QPSK, UL Subframe=2,3,4,7,8,9)   Y   100.00   123.74   31.96   3.23   80.0   ±9.6 %		LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
10470-   AC   CARPEN   CARPE			Y	19.75	89.45	20.46		80.0	
10470- AAC							<del></del>		
Y   100.00   120.98   31.20   80.0		LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х				3.23		± 9.6 %
10471-   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- AC   QAM, UL Subframe=2,3,4,7,8,9)   Y   69.00   105.75   25.13   80.0   ± 9.6 %			Y	100.00	120.98	31.20		80.0	
10471- AAC			Z						
10472-   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-   X   100.00   105.58   23.44   3.23   80.0   ± 9.6 %		LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
10472-   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-   X   100.00   105.58   23.44   3.23   80.0   ± 9.6 %			Υ	69.00	105.75	25.13		80.0	
LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    10472-AAC   CAM, UL Subframe=2,3,4,7,8,9)   Y   19.79   89.46   20.45   80.0									
10473-   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, ACC   QPSK, UL Subframe=2,3,4,7,8,9)		LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
10473-   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, ACC   QPSK, UL Subframe=2,3,4,7,8,9)			Y	19.79	89.46	20.45		80.0	
10473- AAC LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)  Y 100.00 120.96 31.18 80.0  Z 100.00 126.20 32.88 80.0  LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- AAC QAM, UL Subframe=2,3,4,7,8,9)  Y 67.79 105.55 25.09 80.0  Z 100.00 110.08 25.35 80.0  LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- AAC QAM, UL Subframe=2,3,4,7,8,9)  Y 67.79 105.55 25.09 80.0  Z 100.00 110.08 25.35 80.0  LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- AAC QAM, UL Subframe=2,3,4,7,8,9)  Y 19.52 89.31 20.41 80.0									
10474- AAC LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- AAC QAM, UL Subframe=2,3,4,7,8,9)  Y 67.79 105.55 25.09 80.0  Z 100.00 110.08 25.35 80.0  LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- AAC QAM, UL Subframe=2,3,4,7,8,9)  Y 100.00 110.08 25.35 80.0  LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- AAC QAM, UL Subframe=2,3,4,7,8,9)  Y 19.52 89.31 20.41 80.0							3.23		± 9.6 %
10474- AAC LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- AAC QAM, UL Subframe=2,3,4,7,8,9)  Y 67.79 105.55 25.09 80.0  Z 100.00 110.08 25.35 80.0  LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- AAC QAM, UL Subframe=2,3,4,7,8,9)  Y 100.00 110.08 25.35 80.0  LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- AAC QAM, UL Subframe=2,3,4,7,8,9)  Y 19.52 89.31 20.41 80.0			Υ	100.00	120.96	31.18		80.0	
10474- AAC			-				<del></del>		
10475-   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-   X   100.00   110.08   25.35   80.0		LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
10475-   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-   X   100.00   110.08   25.35   80.0			Y	67.79	105.55	25.09	<del></del>	80.0	
10475- AAC   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- AAC   QAM, UL Subframe=2,3,4,7,8,9)   Y   19.52   89.31   20.41   80.0   ± 9.6 %							<del> </del>		
Y 19.52 89.31 20.41 80.0		LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
7 400 00 400 10			Υ	19.52	89 31	20.41		90.0	
			Z	100.00	106.49	23.63		80.0	<del></del>

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 %
		Υ	60.00	104.00	24.69		80.0	$\vdash$
		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)	Х	100.00	105.53	23.42	3.23	80.0	± 9.6 %
-		Υ	19.24	89.12	20.35		80.0	
		Z	100.00	106.43	23.60		80.0	
10479- <u>AAA</u>	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 %
		Y	12.50	90.83	25.02		80.0	<u> </u>
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00 95.67	124.95 115.16	33.67 29.54	3.23	80.0	± 9.6 %
7001	10 Q0 WI, DE OUDITAINE-2,0,4,1,0,3)	Y	12.83	86.63	22.28		80.0	
		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)	X	58.64	107.02	27.16	3.23	80.0	± 9.6 %
		Y	11.35	84.25	21.22	-	80.0	
		Ż	80.09	110.11	27.23		80.0	<del>                                     </del>
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 %
		Υ	6.25	79.51	20.15		80.0	
		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)	X	18.92	92.85	24.00	2.23	80.0	± 9.6 %
		Υ	8.58	80.90	20.47		80.0	
		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	
1010		_ Z	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	
10486-	LTE TOD (OO FDMA FOX DD FAME	Z	8.35	85.48	22.54		80.0	
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	
10487-	LTE TOD /CC EDMA FOO/ DD E MIL	Z	5.40	75.74	18.50		80.0	
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	ļ
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.20 7.97	74.88 83.54	18.15 22.89	2.23	80.0 80.0	± 9.6 %
		Y	6.02	77.67	20.60		80.0	
		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)	Х	5.54	75.17	19.93	2.23	80.0	± 9.6 %
		Y	5.05	72.55	18.77		80.0	
		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)	×	5.52	74.58	19.72	2.23	80.0	± 9.6 %
	-	Y	5.10	72.20	18.66		80.0	
40404	LITE TOP (OO EDA)	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)	Х	6.68	78.67	21.27	2.23	80.0	± 9.6 %
		Υ	5.75	75.05	19.71		80.0	
40400	LITE TOD (OO ED) (A SOC) DE CENTRE	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)	×	5.47	73.05	19.35	2.23	80.0	± 9.6 %
		Υ	5.22	71.31	18.50		80.0	
		Z	5.12	72.35	18.92		80.0	

10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.48	72.72	19.22	2.23	80.0	± 9.6 %
		Υ	5.27	71.08	18.43	+	80.0	-
		Ż	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)	Х	7.90	81.45	22.09	2.23	80.0	± 9.6 %
		Y	6.41	76.92	20.25		80.0	
40405		Ž	6.69	79.16	21.27		80.0	<u> </u>
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 %
	<del>                                     </del>	ļΫ́	5.32	71.86	18.72		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Z	5.21 5.57	72.81 73.09	19.16 19.41	2.23	80.0 80.0	± 9.6 %
		† _Y -	5.35	71.43	18.59		80.0	<del>                                       </del>
		Ż	5.21	72.31	18.99	<del> </del>	80.0	<del>                                      </del>
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	<del></del> -	80.0	<del> </del> -
		Z	5.35	77.20	17.46		80.0	<del> </del>
10498- AAA 	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.29	72.00	15.43	2.23	80.0	± 9.6 %
		Y	3.72	69.52	14.77		80.0	-
		Z	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)	Х	3.97	70.70	14.77	2.23	80.0	± 9.6 %
		Υ	3.61	68.83	14.36		80.0	
40500		Z	2.26	64.14	10.91		80.0	<del> </del>
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	8.79	85.79	23.33	2.23	80.0	± 9.6 %
		Υ	5.95	78.30	20.59		80.0	
10501-	LTE TOD (CO EDIM 1000) DD ALIV	Z	7.25	82.97	22.08		80.0	
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	
10502-	LTE-TDD (SC-FDMA, 100% RB, 3 MHz,	Z	5.28	75.13	18.80		80.0	
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.87	76.18	19.62	2.23	80.0	± 9.6 %
		Y	5.09	72.91	18.33		80.0	
10503-	LTE-TDD (SC-FDMA, 100% RB, 5 MHz,	Z	5.26	74.71	18.58	<u> </u>	80.0	
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	X	7.83 5.94	83.24	22.77	2.23	80.0	± 9.6 %
		Z		77.45	20.51		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.55 5.51	80.79 75.05	21.81 19.87	2.23	80.0 80.0	± 9.6 %
		Υ	5.02	72.46	18.72		80.0	
		Z	5.07	74.04	19.23		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.49	74.47	19.66	2.23	80.0	± 9.6 %
		_ Y	5.07	72.10	18.60	-	80.0	
10500	LTE TOP (00 ==================================	Z	5.08	73.60	19.06		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.81	81.23	22.00	2.23	80.0	± 9.6 %
	<del></del>	<u>Y</u>	6.35	76.76	20.18		80.0	
10507-	LTE-TDD (SC-FDMA, 100% RB, 10	Z	6.62	78.99	21.19		80.0	
AAC	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.58	73.65	19.59	2.23	80.0	± 9.6 %
		Y	5.30	71.80	18.69		80.0	

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 %
		Υ	5.33	71.35	18.55	-	80.0	<del></del>
		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)	Х	7.03	77.40	20.60	2.23	80.0	± 9.6 %
		Υ	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)	×	5.83	72.01	19.03	2.23	80.0	± 9.6 %
		Υ	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)	Х	8.18	80.50	21.58	2.23	80.0	± 9.6 %
		Y	6.82	76.59	19.98		80.0	
10510		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 %
		Υ	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)	Х	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)	Х	1.06	65.76	16.90	0.00	150.0	± 9.6 %
		Υ	<u>1</u> .00	63.51	14.99		150.0	
10510		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 %
	<del> </del>	Y	0.66	71.85	18.17		150.0	
10517-	JEEE 903 445 W/F: 2 4 CH- /DCCC 44	Z	0.94	79.02	21.78	2.22	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 %
-		Z	0.86 0.90	65.67 67.08	15.75	_	150.0	
10518- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.67	67.45	16.71 16.69	0.00	150.0 150.0	± 9.6 %
		Υ	4.67	66.94	16.33		150.0	
		Z	4.52	67.23	16.44		150.0	
10519- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	Х	4.87	67.70	16.81	0.00	150.0	± 9.6 %
		Y	4.88	67.22	16.46		150.0	
10505		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	ļ	150.0	<del> </del>
10521- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.54 4.66	67.39 67.72	16.47 16.76	0.00	150.0 150.0	±9.6 %
		Y	4.66	67.20	16.38		150.0	-
		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 %
		Υ	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)				<u>l</u>			- 5.5 /5
		Y	4.58	67.09	16.28		150.0	
40504		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	
		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	
40500		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	
40507	IEEE 000 44 MINI (COLUMN TO THE COLUMN TO TH	Z	4.64	66.83	16,26		150.0	
10527- 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	IFF 000 44	Z	4.57	66.80	16.20		150.0	
10528- <u>AA</u> A	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	
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 %
		Υ	4.75	66.57	16.12		150.0	
10504	IEEE OOR 47 AMERICAN	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 %
		Υ	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 %
		Υ	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 %
		Υ_	4.76	66.59	16.10		150.0	-
<del></del>	4	Z	4.59	66.88	16.23		150.0	_
10534- ³	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 %
		Υ	5.34	66.86	16.23		150.0	<del></del> -
10500		Z	5.19	67.03	16.35		150.0	
10536- <u>AAA</u>	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.22	67.31	16.55	0.00	150.0	± 9.6 %
		Υ	5.21	66.84	16.21		150.0	<del></del>
4000-		Z	5.06	66.99	16.32	<del></del> -	150.0	
10537- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	Х	5.27	67.26	16.52	0.00	150.0	± 9.6 %
		Υ	5.28	66.82	16.20		150.0	
40500	IEEE OOO AA AANTANA	Ζ	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	
10515		Z	5.20	66.94	16.33		150.0	
10540- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	Х	5.29	67.28	16.59	0.00	150.0	± 9.6 %
		Y	5.29	66.84	16.26		150.0	

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	5.11	66.82	16.27		150.0	
10542- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.42	67.19	16.55	0.00	150.0	± 9.6 %
_		Υ	5.42	66.79	16.25		150.0	
		Z	5.26	66.90	16.33		150.0	
10543- <u>AAA</u>	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	Х	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)	Х	5.57	67.22	16.46	0.00	150.0	± 9.6 %
		Υ	5.56	66.82	16.16		150.0	
40-4-		Z	5.45	66.92	16.24		150.0	
10545- <u>AAA</u>	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	
405.5		Z	5.64	67.38	16.42		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		150.0	
	<u> </u>	Z	5.50	67.09	16.30		150.0	
10547- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	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)	Х	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)	×	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	16.36		150.0	
10551- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.68	67.52	16.53	0.00	150.0	± 9.6 %
		Y	5.69	67.13	16.25		150.0	
		Z	5.53	67.15	16.30		150.0	
10552- AAA	HEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	Х	5.59	67.30	16.44	0.00	150.0	± 9.6 %
		Y	5.59	66.90	16.14		150.0	
		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)	Х	5.97	67.57	16.52	0.00	150.0	± 9.6 %
		Y	5.97	67.21	16.26		150.0	
		Z	5.86	67.27	_16.32		150.0	
10555- AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	Х	6.11	67.88	16.66	0.00	150.0	± 9.6 %
		Y	6.11	67.54	16.39		150.0	
10556-	IEEE 802.11ac WiFi (160MHz, MCS2,	Z X	5.98 6.13	67.57 67.93	16.45 16.67	0.00	150.0 150.0	± 9.6 %
AAB	99pc duty cycle)		0.40	07.50	40.40	<del></del>	450.0	
	<del>                                     </del>	Y	6.13	67.56	16.40		150.0	
10557-	IEEE 902 11 po M/IE (460MU - MOCC	Z	6.01	67.63	16.48	0.00	150.0	
AAB	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	Х	6.10	67.85	16.65	0.00	150.0	± 9.6 %
	<del>-</del>	Y	6.11	67.51	16.40		150.0	
		Z	5.97	67.50	16.43		150.0	

10560- AAB 10561- AAB 10562- AAB 10563- AAB	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)  IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)  IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)  IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X Y Z X Y Z X	6.16 6.17 6.01 6.15 6.16 6.00 6.06	68.03 67.70 67.66 67.86 67.52 67.50	16.76 16.50 16.53 16.71	0.00	150.0 150.0 150.0 150.0	± 9.6 %
10561- AAB 10562- AAB 10563-	99pc duty cycle)  IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)  IEEE 802.11ac WiFi (160MHz, MCS8,	Z X Y Z X	6.01 6.15 6.16 6.00	67.66 67.86 67.52	16.53 16.71	0.00	150.0	± 9.6 %
10561- AAB 10562- AAB 10563-	99pc duty cycle)  IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)  IEEE 802.11ac WiFi (160MHz, MCS8,	X Y Z X	6.15 6.16 6.00	67.86 67.52	16.71	0.00		± 9.6 %
10561- AAB 10562- AAB 10563-	99pc duty cycle)  IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)  IEEE 802.11ac WiFi (160MHz, MCS8,	Y Z X	6.16 6.00	67.52		0.00	150.0	± 9.6 %
10562- AAB	99pc duty cycle)  IEEE 802.11ac WiFi (160MHz, MCS8,	X	6.00		16 45		1	1
10562- AAB	99pc duty cycle)  IEEE 802.11ac WiFi (160MHz, MCS8,	X		67.50	10.70		150.0	
10562- AAB	99pc duty cycle)  IEEE 802.11ac WiFi (160MHz, MCS8,	Y	6.06		16.49		150.0	
10563-	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)		<del></del>	67.83	16.73	0.00	150.0	± 9.6 %
10563-	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	Z	6.07	67.48	16.47		150.0	
10563-	99pc duty cycle)		5.94	67.50	16.52		150.0	
		×	6.21	68.28	16.96	0.00	150.0	± 9.6 %
		Y	6.23	67.97	16.72		150.0	
	<del></del>	Z	6.03	67.79	16.67		150.0	
	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	Х	6.55	68.85	17.19	0.00	150.0	± 9.6 %
		Υ	6.59	68.58	16.96		150.0	
40501	VEET 200 47 144-15	Z	6.12	67.71	16.59		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	4.99	67.50	16.82	0.46	150.0	± 9.6 %
		<u> </u>	5.01	67.06	16.50		150.0	
-10-0-	·	Z	4.85	67.32	16.61		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	5.24	67.95	17.13	0.46	150.0	± 9.6 %
		Υ	5.26	67.54	16.83		150.0	
		Z	5.06	67.72	16.90		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	5.07	67.84	16.98	0.46	150.0	± 9.6 %
		Y	5.10	67.41	16.66		150.0	
		Z	4.90	67.58	16.73		150.0	
	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	5.11	68.24	17.33	0.46	150.0	± 9.6 %
		Y	5.13	67.80	17.01		150.0	
		Z	4.93	67.94	17.07		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	Х	4.99	67.61	16.75	0.46	150.0	± 9.6 %
		Y	5.01	67.15	16.42		150.0	
		Z	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	_
	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	Х	5.09	68.14	17.31	0.46	150.0	± 9.6 %
		Υ	5.11	67.68	16.98		150.0	_
1005		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	
	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	Х	1.55	69.98	18.93	0.46	130.0	± 9.6 %
		Υ	1.43	67.06	16.91		130.0	
40570	IEEE 000 / 41 W ====	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 %
		Υ	<u>5</u> .15	96.81	26.53		130.0	
1055		Ζ	50.11	136.49	37.17		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	Х	2.59	83.81	24.92	0.46	130.0	± 9.6 %
		Y	1.75	74.27	20.26		130.0	
		Z	1.86	76.56	21.49		130.0	

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)							20.0 /0
		Y	4.84	66.96	16.62		130.0	
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.68	67.23	16.73		130.0	
AAA	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	
10577-	IEEE 900 44 - WEE 0 4 OU / 1000	Z	4.71	67.40	16.79		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	X	5.05	67.83	17.14	0.46	130.0	± 9.6 %
	<del>-</del>	Y	5.09	67.44	16.86		130.0	
10578-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.89	67.64	16.94	- 10	130.0	
AAA	OFDM, 18 Mbps, 90pc duty cycle)		4.96	68.04	17.27	0.46	130.0	± 9.6 %
	<del>-</del>	Y	4.99	67.62	16.97		130.0	
10579-	IEEE 903 44a WiEi 3 4 CH- (DCCC	Z	4.79	67.80	17.04		130.0	
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 %
	<u> </u>	Y	4.76	66.96	16.31		130.0	
10580-	IEEE 902 11a WEE 2 4 CUE / 0000	Z	4.57	67.14	16.40		130.0	
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 %
	<del></del>	Y	4.80	66.94	16.31		130.0	
10581-	IEEE 909 44g MEE: 0.4 OUT (DOOD	Z	4.61	67.21	16.43		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.86	68.14	17.25	0.46	130.0	± 9.6 %
	<del></del>	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)	X	4.70 4.67	67.90 67.12	17.02 16.41	0.46	130.0 130.0	± 9.6 %
	OT DITT, OT THIS POT, OG PO GALLY CYCLO)	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 %
-		Υ	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)	Х	5.05	67.83	17.14	0.46	130.0	± 9.6 %
		Y	5.09	67.44	16.86		130.0	
		Z	4.89	67.64	16.94		130.0	
10586- AAA	IEEE 802.11a/h WiFi 5 GHz (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	
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	
		LZ.	4.57	67.14	16.40		130.0	
10588- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	Х	4.77	67.37	16.62	0.46	130.0	± 9.6 %
		Υ	4.80	66.94	16.31		130.0	
		Z	<u>4.</u> 61	67.21	16.43		130.0	
10589- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	Х	4.86	68.14	17.25	0.46	130.0	± 9.6 %
		Y	4.89	67.70	16.92		130.0	
10505		Z	4.70	67.90	17.02		130.0	
10590- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.67	67.12	16.41	0.46	130.0	± 9.6 %
		Υ	4.71	66.71	16.10		130.0	
		Z	4.51	66.92	16.20	-	130.0	

10592- IEE AAA MC  10593- IEE AAA MC  10594- AAA MC  10596- AAA MC  10597- AAA MC  10598- AAA MC  10598- AAA MC  10599- AAA MC  10600- AAA MC  10600- IEE AAA MC  10601- ** IEE AAA MC  10601- ** IEE AAA MC  10603- IEE AAA MC	EEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)  EEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)  EEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X Y Z X Y Z X	4.95 4.98 4.83 5.12 5.15	67.39 67.01 67.26 67.74	16.99 16.71 16.81	0.46	130.0 130.0 130.0	± 9.6 %
10593- IEE AAA MC 10594- AAA MC 10595- AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- IEE AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC	ICS1, 90pc duty cycle)  EEE 802.11n (HT Mixed, 20MHz,	Z   X   Y   Z	4.83 5.12 5.15	67.26	16.81			
10593- IEE AAA MC 10595- AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- IEE AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC	ICS1, 90pc duty cycle)  EEE 802.11n (HT Mixed, 20MHz,	X Y Z	5.12 5.15					+
10593- IEE AAA MC 10595- AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- IEE AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC	ICS1, 90pc duty cycle)  EEE 802.11n (HT Mixed, 20MHz,	Y	5.15	67.74	47.40		1.00.0	
10594- IEE AAA MC 10595- AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC 10602- AAA MC 10603- IEE I		Z			17.12	0.46	130.0	± 9.6 %
10594- IEE AAA MC 10595- AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC 10602- AAA MC 10603- IEE I				67.35	16.84		130.0	
10594- IEE AAA MC 10595- AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10600- AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC 10602- AAA MC		X	4.97	67.58	16.94		130.0	<del>-</del>
10595- IEE AAA MC  10596- AAA MC  10597- AAA MC  10598- AAA MC  10599- AAA MC  10600- AAA MC  10601- IEE AAA MC  10602- AAA MC  10603- IEEI			5.04	67.68	17.02	0.46	130.0	± 9.6 %
10595- IEE AAA MC  10596- AAA MC  10597- AAA MC  10598- AAA MC  10599- AAA MC  10600- AAA MC  10601- IEE MC  10602- AAA MC  10603- IEEI		Y	5.08	67.30	16.74		130.0	
10595- IEE AAA MC  10596- AAA MC  10597- AAA MC  10598- AAA MC  10599- AAA MC  10600- AAA MC  10601- IEE AAA MC  10602- AAA MC  10603- IEEI		Z	4.89	67.49	16.82		130.0	
10596- JEEAAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- FEEAAA MC 10601- FEEAAA MC 10602- AAA MC 10603- IEEE	EEE 802.11n (HT Mixed, 20MHz, ICS3, 90pc duty cycle)	X	5.10	67.84	17.17	0.46	130.0	± 9.6 %
10596- JEEAAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- FEEAAA MC 10601- FEEAAA MC 10602- AAA MC 10603- IEEE		Y	5.14	67.45	16.88		130.0	
10596- JEEAAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- FEEAAA MC 10601- FEEAAA MC 10602- AAA MC 10603- IEEE	<b></b>	Z	4.94	67.65	16.97		130.0	
10597- AAA MC  10598- AAA MC  10599- AAA MC  10600- AAA MC  10601- AAA MC  10602- AAA MC  10603- IEEI	EE 802.11n (HT Mixed, 20MHz, ICS4, 90pc duty cycle)	X	5.07	67.81	17.07	0.46	130.0	± 9.6 %
10597- AAA MC  10598- AAA MC  10599- AAA MC  10600- AAA MC  10601- AAA MC  10602- AAA MC  10603- IEEI	<del></del>	Υ	<u>5.11</u>	67.42	16.78		130.0	
10597- AAA MC  10598- AAA MC  10599- AAA MC  10600- AAA MC  10601- AAA MC  10602- AAA MC  10603- IEE		Z	4.91	67.63	16.88		130.0	
10598- AAA MC  10599- AAA MC  10600- AAA MC  10601- AAA MC  10602- AAA MC  10603- IEE	EE 802.11n (HT Mixed, 20MHz, ICS5, 90pc duty cycle)	X	5.01	67.82	17.09	0.46	130.0	± 9.6 %
10598- AAA MC  10599- AAA MC  10600- AAA MC  10601- AAA MC  10602- AAA MC  10603- IEE		Y	5.05	67.42	16.79		130.0	
10598- IEE MC  10599- AAA MC  10600- IEE MC  10601- IEE MC  10602- AAA MC  10603- IEEI	<del>_</del>	Z	4.85	67.64	16.90		130.0	
10599- IEE MC: 10600- IEE MC: 10601- IEE MC: 10602- IEE MC: 10603- IEEI	EE 802.11n (HT Mixed, 20MHz, ICS6, 90pc duty cycle)	Х	4.96	67.75	16.98	0.46	130.0	± 9.6 %
10599- IEE MC: 10600- IEE MC: 10601- IEE MC: 10602- IEE MC: 10603- IEEI		Y	5.00	67.35	16.69		130.0	
10599- IEE MC: 10600- IEE MC: 10601- IEE MC: 10602- IEE MC: 10603- IEEI		_ Z	4.80	67.53	16.77		130.0	
10600- IEE AAA MC:  10601- ** IEE AAA MC:  10602- AAA MC:  10603- IEEI	EE 802.11n (HT Mixed, 20MHz, CS7, 90pc duty cycle)	X	4.95	68.01	17.26	0.46	130.0	± 9.6 %
10600- IEE AAA MC:  10601- IEE AAA MC:  10602- IEE MC:  10603- IEEI		Y	4.98	67.61	16.96	<del></del>	130.0	
10600- IEE AAA MC:  10601- ** IEE AAA MC:  10602- AAA MC:  10603- IEEI		Z	4.78	67.73	17.01		130.0	
10601- " IEEI AAA MC: 10602- AAA MC: 10603- IEEI	EE 802.11n (HT Mixed, 40MHz, CS0, 90pc duty cycle)	X	5.60	67.86	17.12	0.46	130.0	± 9.6 %
10601- " IEEI AAA MC: 10602- AAA MC: 10603- IEEI		Y	5.66	67.61	16.91		130.0	
10601- " IEEI AAA MC: 10602- AAA MC: 10603- IEEI		Z	5.48	67.70	16.99		130.0	
10602- IEEI MCS 10603- IEEI	EE 802.11n (HT Mixed, 40MHz, CS1, 90pc duty cycle)	X	5.78	68.39	17.36	0.46	130.0	± 9.6 %
10602- IEEI MCS 10603- IEEI		Y	5.85	68.19	17.17		130.0	
10602- IEEI MCS 10603- IEEI		Z	5.62	68.16	17.20		130.0	<del></del> -
AAA MCS	EE 802.11n (HT Mixed, 40MHz, CS2, 90pc duty cycle)	Х	5.65	68.09	17.22	0.46	130.0	± 9.6 %
AAA MCS		Υ	5.71	67.83	17.01		130.0	
AAA MCS		Z	5.51	67.89	17.08		130.0	<del></del>
	EE 802.11n (HT Mixed, 40MHz, CS3, 90pc duty cycle)	X	5.73	68.07	17.13	0.46	130.0	± 9.6 %
		Y	5.79	67.82	16.93		130.0	
		Z	5.63	68.04	17.07		130.0	
	EE 802.11n (HT Mixed, 40MHz, CS4, 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	
		Z	5.69	68.27	17.32		130.0	
10604- IEEE AAA MCS	EE 802.11n (HT Mixed, 40MHz, CS5, 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	
		Z	5.56	67.91	17.12		130.0	
10605- IEEE AAA MCS	EE 802.11n (HT Mixed, 40MHz, CS6, 90pc duty cycle)	X	5.73	68.17	17.30	0.46	130.0	± 9.6 %
		Y	5.77	67.87	17.07		130.0	
		Z	5.62	68.08	17.21		130.0	
10606- IEEE AAA MCS	EE 802.11n (HT Mixed, 40MHz, CS7, 90pc duty cycle)	Х	5.50	67.62	16.90	0.46	130.0	± 9.6 %
		Y	5.53	67.31	16.65		130.0	
	<del></del>	Z	5.35	67.34	16.70	<del></del>	130.0	

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	
10608- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	Z X	4.67 5.00	66.60 67.18	16.45 16.81	0.46	130.0 130.0	± 9.6 %
	sope daty cycle)	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	_
		Z	4.73	66.84	16.45		130.0	
10610- <u>A</u> AA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	Х	4.94	67.21	16.82	0.46	130.0	± 9.6 %
		_ Y	4.96	66.76	16.50		130.0	
		Z	4.78	66.99	16.61		130.0	
10611- AAA	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	
10010	IEEE 000 44 MEET (000 HT 1400 F	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)	_	4.89	67.11	16.63	0.46	130.0	± 9.6 %
		Y	4.91	66.65	16.30		130.0	
10614- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	Z X	4.71 4.83	66.83 67.31	16.39 16.87	0.46	130.0 130.0	± 9.6 %
		Y	4.85	66.84	16.53		130.0	
		Z	4.66	67.02	16.61		130.0	
10615- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.86	66.85	16.46	0.46	130.0	± 9.6 %
		Y	4.89	66.40	16.13		130.0	
		Z	4.70	66.67	16.26		130.0	
10616- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	Х	5.44	67.18	16.77	0.46	130.0	± 9.6 %
		Y	5.47	66.84	16.51		130.0	
		Z	5.30	66.94	16.59		130.0	
10617- AAA	JEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.50	67.33	16.81	0.46	130.0	± 9.6 %
		Y	5.52	66.94	16.53		130.0	
10015	1555 000 44	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 %
	ļ	Y	5.42	67.02	16.59		130.0	
10619- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.27 5.42	67.18 67.21	16.70 16.71	0.46	130.0 130.0	± 9.6 %
	Jupo daty dyoldy	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)	X	5.51	67.25	16.78	0.46	130.0	± 9.6 %
		_ Y	5.56	66.94	16.53		130.0	
		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)	X	5.51	67.50	17.01	0.46	130.0	± 9.6 %
		Υ	5.53	67.13	16.73		130.0	
		Z	5.38	67.30	16.85		130.0	

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		130.0	<del> </del>
		Z	5.25	66.80	16.48	<del> </del>	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 %
	0000 4447 0)610)	Y	5.61	66.88	40.50	<del> </del>	400 -	
			5.44		16.56		130.0	<u> </u>
10625-	IEEE 802.11ac WiFi (40MHz, MCS9,	Z		66.99	16.64		130.0	
AAA	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	
10626-	IFFE 000 44 W/F' (0014) - 14000	Z	5.71	67.69	17.04		130.0	
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	
40007	<u> </u>	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	
_		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	<del>                                     </del>	130.0	<del>                                     </del>
		Z	5.63	67.03	16.47		130.0	<del></del>
10629- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.85	67.42	16.69	0.46	130.0	± 9.6 %
		Y	5.87	67.09	16.44		130.0	
		Z	5.71	67.12	16.51		130.0	<del> </del>
10630- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.37	69.15	17.55	0.46	130.0	± 9.6 %
		Y	6.48	69.04	17.41		100.0	
		Ż	6.10	68.51	17.21		130.0	
10631-	IEEE 802.11ac WiFi (80MHz, MCS5,	X	6.23	68.84	17.58	0.46	130.0	± 9.6 %
AAA	90pc duty cycle)							2 3.0 /0
		<u> </u>	6.30	68.64	17.40		130.0	
10632-	IEEE 802.11ac WiFi (80MHz, MCS6,	Z	6.00	68.26	17.26		130.0	
AAA	90pc duty cycle)	X	5.93	67.81	17.09	0.46	130.0	± 9.6 %
		Υ	5.96	67.50	16.85		130.0	
40000	- IEEE 020 44	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 %
		Υ	5.88	67.25	16.56		130.0	
		Z	5.69	67.21	16.59		130.0	
10634- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	Х	5.81	67.52	16.84	0.46	130.0	± 9.6 %
		Y	5.85	67.23	16.61		130.0	
		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		120.0	<del></del>
		Z	5.55	66.58	16.02	<del></del>	130.0	
10636- AAB	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.12	67.55	16.76	0.46	130.0 130.0	± 9.6 %
		Y	6.14	67.26	16.54		120.0	
		Ż	6.03	67.32	16.54		130.0	
10637- AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.28	67.94	16.93	0.46	130.0 130.0	± 9.6 %
		Y	6.31	67.65	16.72		400.0	
		ż	6.19	67.72			130.0	
10638- AAB	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.19	67.91	16.79 16.90	0.46	130.0 130.0	± 9.6 %
		Y	- 6.04	07.00	L			
			6.31	67.62	16.68		130.0	
	<u> </u>	Z	6.18	67.68	16.75		130.0	

10639-	IEEE 802.11ac WiFi (160MHz, MCS3,	X	6.27	67.88	16.93	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)	_Y	6.30	67.00	16.70		400.0	
		Z	6.15	67.62 67.59	16.73 16.75		130.0 130.0	
10640-	IEEE 802.11ac WiFi (160MHz, MCS4,	X	6.29	67.93	16.73	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)	<b>.</b>						
		Υ	6.33	67.70	16.71		130.0	
40044		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)	Х	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)	Х	6.39	68.34	17.21	0.46	130.0	± 9.6 %
-		Υ	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)	Х	6.86	69.27	17.61	0.46	130.0	± 9.6 %
		Υ	6.87	68.89	17.35		130.0	
		Z	6.34	67.93	16.93		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	Х	58.91	128.47	41.72	9.30	60.0	± 9.6 %
	4	Υ	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)	Х	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)	Х	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 %
		Υ	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%)	Х	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 %
		Υ	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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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

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

BN 03/30/2018

Calibration date:

March 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

Calibrated by:

Name
Function
Signature

Laboratory Technician

Approved by:

Katja Pokovic
Technical Manager

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

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

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

Polarization 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., 9 = 0 is normal to probe axis

Connector Angle

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

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

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

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

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
   NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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# Probe ES3DV3

SN:3319

Manufactured: Calibrated:

January 10, 2012 March 13, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

March 13, 2018 ES3DV3-- SN:3319

## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3319

#### **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	dB D	VR mV	Unc [≒] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	197.9	±3.8 %
		Υ	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	<b>T</b> 5	T6
	fF	fF	V ⁻¹	ms.V⁻²	ms.V ^{~1}	ms	V-2	<b>V</b> ⁻¹	
X	60.52	430.8	35.08	29.64	3.011	5.10	0.615	0.538	1.010
Υ	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).

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.

ES3DV3- SN:3319 March 13, 2018

## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3319

### Calibration Parameter Determined in Head Tissue Simulating Media

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 %

^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 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 CopyE uncertainty for indicated target fissue parameters.

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.

ES3DV3- SN:3319 March 13, 2018

## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3319

### Calibration Parameter Determined in Body Tissue Simulating Media

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 %

^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.

validity can be extended to ± 110 MHz.

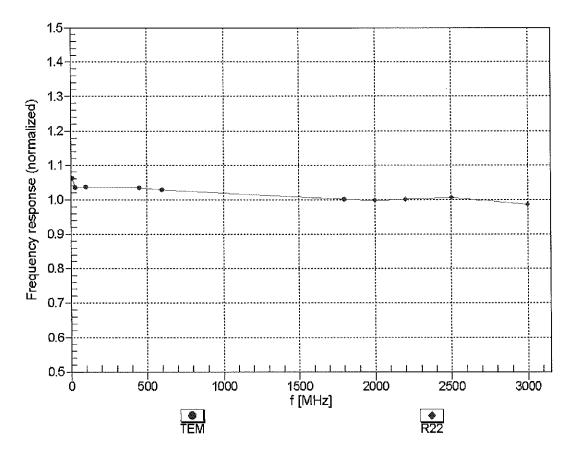
F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty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

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.

March 13, 2018 ES3DV3-SN:3319

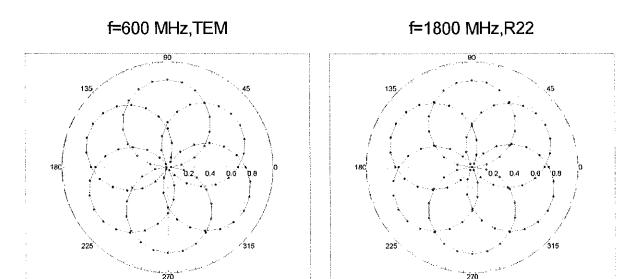
## Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



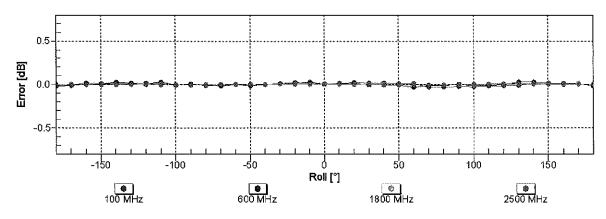
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

ES3DV3-- SN:3319 March 13, 2018

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



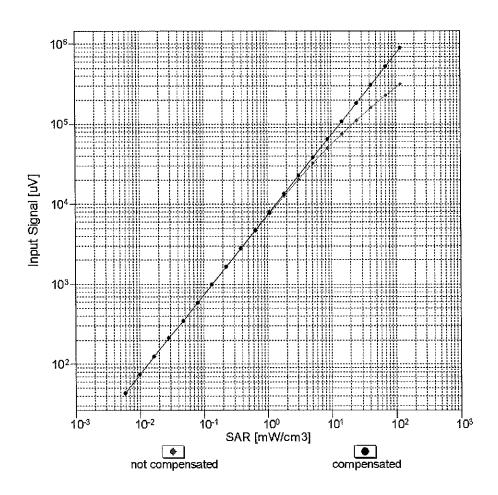
Tot

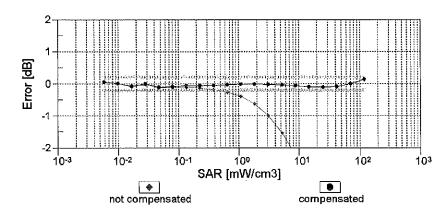


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Tot

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



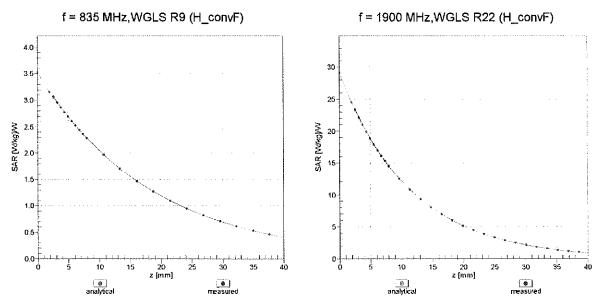


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

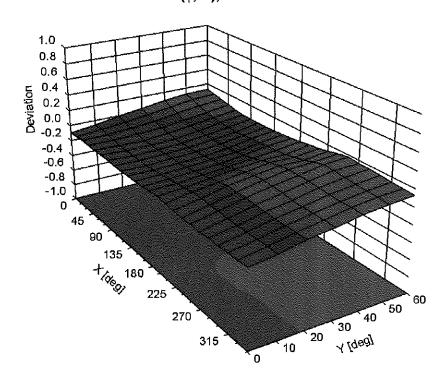


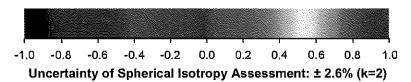
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## **Conversion Factor Assessment**



Deviation from Isotropy in Liquid Error (φ, θ), f = 900 MHz





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## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3319

### **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

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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	197.9	± 3.8 %
		Υ	0.00	0.00	1.00	0.00	198.2	
		Z	0.00	0.00	1.00		200.6	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	9.56	81.28	19.98	10.00	25.0	±9.6 %
	- Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter Vinter	Y	8.09	78.70	18.35		25.0	
		Z	8.70	79.52	19.57		25.0	
10011- CAB	UMTS-FDD (WCDMA)	Х	1.34	72.37	18.08	0.00	150.0	± 9.6 %
		Υ	0.99	67.12	14.82		150.0	
40040		Z	1.12	68.87	16.00		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	×	1.37	66.58	17.00	0.41	150.0	± 9.6 %
		Y	1.25	64.92	15.59		150.0	
10013-	IEEE 902 44 - WIELD 4 CH - (DOOS	Z	1.32	65.58	16.11		150.0	
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 %
		Y	5.08	67.20	17.36		150.0	
10021-	GSM-FDD (TDMA, GMSK)	Z	5.20	67.32	17.47		150.0	
DAC	GSW-FDD (TDWA, GWSK)	X	20.40	95.52	26.57	9.39	50.0	± 9.6 %
		Y	29.46	101.11	27.60		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	14.66 18.37	89.52 93.61	24.83 26.02	9.57	50.0 50.0	± 9.6 %
D, 10		Υ	24.41	97.95	26.72		50.0	
- VII		ż	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	
		Z	47.21	108.31	28.71		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	Х	21.09	108.48	41.18	12.57	50.0	± 9.6 %
		Υ	17.11	102.80	38.82		50.0	
	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	Z	18.44	103.12	38.97		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Х	21.59	105.09	36.25	9.56	60.0	±9.6%
		Υ	18.95	102,20	35.03		60.0	
40007	ODDO EDD (TDMA OMOK THE 4 C)	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 %
		l Y	100.00	115.83	28.28		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	118.30 118.84	29.89 29.14	3.55	80.0 100.0	± 9.6 %
<u> </u>		Y	100.00	115.36	27.25		100.0	
		Ż	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	1	80.0	
		Z	13.60	93.82	31.09		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Х	100.00	118.11	30.01	5.30	70.0	± 9.6 %
		Υ	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 %
		Υ	100.00	114.03	25.11		100.0	
		Z	100.00	118.73	27.54	[	100.0	

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10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	100.00	127.26	29.88	1.17	100.0	± 9.6 %
**************************************		Υ	100.00	114.89	24.38		100.0	
		Z	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 %
		Υ	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 %
		Υ	7.46	86.71	21.62		100.0	
		Z	7.45	87.10	22.42		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Х	7.98	90,77	23.49	1.17	100.0	± 9.6 %
		Y	3.97	79.58	18.90		100.0	
40000	IEEE 000 (E 4 DI L. II (0 DDOL DIII)	Z	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 %
		Υ	24.16	101.42	27.84		70.0	
40027	IEEE 900 45 4 Division 45 40 DDDV DVO	Z	15.99	94.67	26.38	4.00	70.0	1000
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	
10038-	IEEE 000 45 4 Divista di 40 DDOM DIVEN	Z	7.24	86.72	22.25	4 4 5	100.0	
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	
40000	ODMANOON (A.DTT DOA)	Z	4.65	82.31	20.62		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	Х	2.96	79.09	19.43	0.00	150.0	± 9.6 %
		Y	1.75	71.10	15.36		150.0	
40040	IO EL /IO /OO EDD /TD\///ED\/ DV/	Z	2.10	73.23	16.92		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	Х	53.77	109.05	28.70	7.78	50.0	± 9.6 %
		Υ	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)	Х	0.00	123.18	1.26	0.00	150.0	± 9.6 %
		Υ	0.02	127.84	0.07		150.0	
		Z	0.00	110.77	4.52		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	11.41	83.11	24.20	13.80	25.0	± 9.6 %
		Υ	12.66	85.48	24.49		25.0	
		Z	10.45	80.79	23.56		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	13.41	87.55	24.40	10.79	40.0	± 9.6 %
		Y	15.25	89.77	24.55		40.0	
10050	LINTO TOP (TO OCCUPANT)	Z	11.61	84.53	23.55	<u>-</u>	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	
40055	FDOE EDD /TENN COOK	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	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	Z X	10.41 1.60	88.91 69.38	28.62 18.31	0.61	100.0 110.0	± 9.6 %
OAD	Mbps)	Y	4.40	67.45	40.07	-	440.0	<u> </u>
			1.43	67.15	16.67	<del> </del>	110.0	
10060-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	Z	1.53	67.97	17.25	100	110.0	1000
CAB	Mbps)	X	100.00	133.15	34.60	1.30	110.0	± 9.6 %
		Y	100.00	128.63	32.36	<b></b>	110.0	
		Z	100.00	130.16	33.31		110.0	

Y   11.26   97.49   27.04   110.0   110.0   10062   EEE 802.11ah WiFi 6 GHz (OFDM, 6   X   4.90   67.24   16.94   0.49   100.0   ± 9.6 %   100.0   10063   EEE 802.11ah WiFi 6 GHz (OFDM, 9   X   4.90   67.24   16.94   0.49   100.0   10063   10063   EEE 802.11ah WiFi 6 GHz (OFDM, 9   X   4.95   67.42   17.09   0.72   100.0   ± 9.6 %   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063   10063	10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	Х	24.68	111.64	31.63	2.04	110.0	± 9.6 %
Tell			V	11 26	97.40	27.04		1100	
10062-									
CAC	10062-	IEEE 802 11a/h WiEi 5 GHz (OEDM 6					0.40		106%
CAC							0.49		E9.0 %
10083									
CAC   Mbps   Y   4.84   67.10   16.77   100.0	10062	IEEE 800 44 - /- MIEE E OU L (OEDM O				······································			
DIOSH-   LEEE 802.11a/h WiFi 5 GHz (OFDM, 12   X   5.28   67.75   17.35   0.86   100.0   ± 9.6 %							0.72		± 9.6 %
10064-   IEEE 802.11a/h WiFi 5 GHz (OFDM, 12   X   5.28   67.75   17.35   0.86   100.0   ± 9.6 %									
CAC   Mbps   Y   S.16   67.43   17.04   100.0	40004	IFFE COO (1 P. NAME) - CO. (1							
TOOSS-CAC   Mbps   Too   + +	, , ,					0.86		± 9.6 %	
10066-   IEEE 802.11a/h WiFi 5 GHz (OFDM, 18   X   5.19									
CAC   Mbps									
10068-							1.21	100.0	± 9.6 %
10066-   IEEE 802.11a/h WiFi 5 GHz (OFDM, 24   X   5.25   67.95   17.76   1.46   100.0   ± 9.6 %				5.07	67.47	17.22		100.0	
10066-   IEEE 802.11a/h WiFi 5 GHz (OFDM, 24   X   5.25   67.95   17.76   1.46   100.0   ± 9.6 %				5.21	67.65				
TO067-			X	5.25			1.46		± 9.6 %
TO067-				5.12	67.61	17.44		100.0	
10067-   IEEE 802.11a/h WiFi 5 GHz (OFDM, 36   X   5.57   68.10   18.21   2.04   100.0   ± 9.6 %									
Tools			Х	5.57	68.10		2.04	100.0	± 9.6 %
Tools			Y	5.44	67.80	17.92		100.0	
10068-   IEEE 802.11a/h WiFi 5 GHz (OFDM, 48   X   5.73   68.50   18.60   2.55   100.0   ± 9.6 %   Mbps			Z						
Y   5.58   68.13   18.28   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   100.0   1							2.55		±9.6%
Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell   Tell			Y	5.58	68.13	18 28		100.0	
The color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the									
Y   5.66   68.09   18.46   100.0   10071-			X				2.67		± 9.6 %
Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too   Too				5 66	68.09	18.46		100.0	
Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Teel Royal   Tee					·				
Y   5.22   67.44   17.75   100.0			X				1.99		± 9.6 %
Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Table   Tabl		(2000)	V	5 22	67.44	17 75	<u> </u>	100.0	
10072-									
Y   5.29   68.00   18.07   100.0				***************************************	<del></del>		2.30		± 9.6 %
Tourname		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y	5.29	68.00	18.07		100.0	
Too73-   Lee Society   Too									
Y 5.42 68.36 18.50 100.0         10074- CAB (DSSS/OFDM, 24 Mbps)       Z 5.60 68.62 18.66 100.0         Y 5.46 68.84 19.10 3.30 100.0 ±9.6 % (DSSS/OFDM, 24 Mbps)       Y 5.46 68.84 19.10 3.30 100.0 ±9.6 %         10075- CAB (DSSS/OFDM, 36 Mbps)       Z 5.65 68.74 18.95 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 10							2.83		± 9.6 %
Z   5.60   68.62   18.66   100.0		, , , , , , , , , , , , , , , , , , , ,	Υ	5.42	68.36	18.50		100.0	
10074-   IEEE 802.11g WiFi 2.4 GHz									
Y     5.46     68.44     18.75     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       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       Y     5.64     68.73     19.37     90.0       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							3.30		± 9.6 %
Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour   Tour	***************************************		Y	5.46	68.44	18 75		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       90.0       19.63       90.0       19.63       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       90.0       19.63       19.63       90.0       19.63       19.63       90.0       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63       19.63							<del>                                     </del>		
Y 5.61 68.91 19.24 90.0  Z 5.85 69.35 19.51 90.0  10076- CAB (DSSS/OFDM, 48 Mbps)  Y 5.64 68.73 19.37 90.0  Z 5.86 69.15 19.63 90.0  10077- CAB (DSSS/OFDM, 54 Mbps)  Y 5.68 68.82 19.47 90.0						<del></del>	3.82		± 9.6 %
Z 5.85 69.35 19.51 90.0  10076- IEEE 802.11g WiFi 2.4 GHz X 5.80 69.20 19.75 4.15 90.0 ± 9.6 %  CAB (DSSS/OFDM, 48 Mbps)  Y 5.64 68.73 19.37 90.0  Z 5.86 69.15 19.63 90.0  10077- IEEE 802.11g WiFi 2.4 GHz X 5.84 69.30 19.86 4.30 90.0 ± 9.6 %  CAB (DSSS/OFDM, 54 Mbps)  Y 5.68 68.82 19.47 90.0			Υ	5,61	68.91	19 24		90.0	
10076-   IEEE 802.11g WiFi 2.4 GHz							<del>                                     </del>		
Y 5.64 68.73 19.37 90.0  Z 5.86 69.15 19.63 90.0  10077- IEEE 802.11g WiFi 2.4 GHz X 5.84 69.30 19.86 4.30 90.0 ± 9.6 %  (DSSS/OFDM, 54 Mbps) Y 5.68 68.82 19.47 90.0							4.15		± 9.6 %
Z 5.86 69.15 19.63 90.0  10077- IEEE 802.11g WiFi 2.4 GHz X 5.84 69.30 19.86 4.30 90.0 ± 9.6 %  CAB (DSSS/OFDM, 54 Mbps) Y 5.68 68.82 19.47 90.0			Y	5.64	68 73	19.37	<del> </del>	90.0	
10077- IEEE 802.11g WiFi 2.4 GHz X 5.84 69.30 19.86 4.30 90.0 ± 9.6 % (DSSS/OFDM, 54 Mbps) Y 5.68 68.82 19.47 90.0	***************************************								
Y 5.68 68.82 19.47 90.0							4.30		± 9.6 %
	J/ LD	(DOOOTOT DW, O4 Wibpa)	\ \ \	E 60	68 83	10.47		00.0	
			Z	5.90	69.25	19.47		90.0	

10081- CAB	CDMA2000 (1xRTT, RC3)	Х	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)	Х	2.36	64.73	9.48	4.77	80.0	± 9.6 %
		Υ	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)	X	100.00	119.65	31.37	6.56	60.0	± 9.6 %
		Y	100.00	117.49	29.99		60.0	
40007	LIMTO EDD (HODDA)	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 %
	***************************************		1.78	67.32	15.42		150.0	
10098-	UMTS-FDD (HSUPA, Subtest 2)	Z	1.87	67.93	15.97	0.00	150.0	1000
CAB	OWIS-FDD (HSOPA, Subject 2)	X	1.97	69.46	16,95	0.00	150.0	± 9.6 %
			1.74	67.28	15.38		150.0	
10099-	EDGE-FDD (TDMA, 8PSK, TN 0-4)	Z	1.84 21.45	67.91	15.95	0.50	150.0	±0.60/
DAC	LDGL I DD (IDIVIA, OFOK, 114 U-4)	X		104.88	36.18	9.56	60.0	± 9.6 %
		Z	18.89 18.39		34.98		60.0	
10100-	LTE-FDD (SC-FDMA, 100% RB, 20	<del> </del>	3,55	100.05 72.46	34.32 17.74	0.00	60.0 150.0	± 9.6 %
CAD	MHz, QPSK)	Ŷ	3.14	70.29	16.48	0.00		19.0%
V		Z	3.35	70.29	16.48		150.0 150.0	
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 %
UND	IVITIZ, TO-QAIVI)	Υ	3.26	67.61	15.85		150.0	
		Z	3,39	68.08	16.14		150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.54	68.46	16.61	0.00	150.0	± 9.6 %
		Y	3.37	67.56	15.95		150.0	***************************************
		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)	Х	8.85	77.44	21.89	3.98	65,0	± 9.6 %
		Υ	8.45	76.83	21.49		65.0	
		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	
40400	LITE EDD (OO ED) (A 1000' ED 10	Z	7.71	74.28	20.69		65.0	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	3.11	71.64	17.59	0.00	150.0	± 9.6 %
		Y	2.75	69.54	16.32		150.0	
10100	LTE EDD (90 EDMA 4000/ DD 40	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)	X	3.06 2.56	67.87 70.84	16.07 17.38	0.00	150.0 150.0	± 9.6 %
		Y	2.24	68.61	15.94		150.0	
		Z	2.42	69.44	16.48	<u> </u>	150.0	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.84	69.29	16.96	0.00	150.0	± 9.6 %
		Y	2.62	68.02	15.99		150.0	

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	3.23	68.35	16.55	0.00	150.0	± 9.6 %
		Υ	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 %
		Υ	2.77	68.14	16.13		150.0	·····
		Z	2.90	68.40	16.43		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	Х	5.25	67.55	16.67	0.00	150.0	± 9.6 %
		Υ	5.16	67.27	16.41		150.0	
		Ζ	5.23	67.36	16.47		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Х	5.62	67.87	16.84	0.00	150.0	± 9.6 %
		Υ	5.53	67.61	16.59		150.0	
		Z	5.61	67.68	16.64		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	Х	5.38	67.84	16.74	0.00	150.0	± 9.6 %
		Υ	5.28	67.54	16.47		150.0	
		Z	5.37	67.64	16.53		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	Х	5.26	67.57	16.70	0.00	150.0	± 9.6 %
		Υ	5.15	67.22	16.40		150.0	
		Z	5.24	67.39	16.51		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	Х	5.70	68.05	16.94	0.00	150.0	±9.6 %
		Υ	5.61	67.82	16.70		150.0	
		Ζ	5.67	67.81	16.71		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	Х	5.36	67.79	16.73	0.00	150.0	±9.6 %
		Υ	5.26	67.48	16.45		150.0	
		Z	5.34	67.59	16.52		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	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)	Х	3.70	68.46	16.65	0.00	150.0	± 9.6 %
		Υ	3.53	67.64	16.03		150.0	
		Z	3.65	67.99	16.26		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	2.36	71.08	17.31	0.00	150.0	±9.6%
		Υ	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 %
		Υ	2.47	68.62	15.73		150.0	
		Z	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	
		Ζ	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	
10146-	LTE-FDD (SC-FDMA, 100% RB, 1.4	Z X	1.55 4.07	67.61 76.05	14.05 17.30	0.00	150.0 150.0	± 9.6 %
CAE	MHz, 16-QAM)	,	0.50	00.00	40.00		450.0	
		Y	2.52	69.20	13.62		150.0	
10147-	LTE EDD (QC EDMA 4000/ DD 4.4	Z	3.50	73.50	16.33	0.00	150.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	5.72	80.95	19.32	0.00	150.0	± 9.6 %
		Υ	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)	Х	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)	Х	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)	Х	9.59	81.21	22.61	3.98	65.0	± 9.6 %
		Υ	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)	Х	8.53	77,77	21.82	3.98	65.0	± 9.6 %
		Υ	8.07	77,03	21.32		65.0	
		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 %
		Υ	8.48	77.88	22.02		65.0	
		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)	Х	2.84	69.30	16.97	0.00	150.0	±9.6 %
		Υ	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)	Х	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)	Х	2.42	69.16	15.83	0.00	150.0	± 9.6 %
		Υ	2.11	67.12	14.31		150.0	
		Ζ	2.30	67.87	15.10		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	2.99	69.33	17.05	0.00	150.0	± 9.6 %
		Υ	2.78	68.20	16.17		150.0	
		Ζ	2.90	68.44	16.46	1	150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	2.55	69.60	16.11	0,00	150.0	± 9.6 %
		Υ	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 %
		Υ	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 %
		Υ	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 %
		Υ	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 %
		Υ	3.79	70.19	19.37		150.0	
		Ζ	4.03	70.69	19.72		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	5.24	74.71	20.79	3.01	150.0	± 9.6 %
		Υ	4.82	73.39	19.92		150.0	
		Z	5.25	74.14	20.39		150.0	

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	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 %
		Υ	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)	Х	5.76	80.54	23.62	3.01	150.0	± 9.6 %
		Υ	4.94	77.74	22,22		150.0	
10171	LTE EDD (OO EDLA A ED OO III)	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	
10170	LTE TOD (OO FDMA 4 DD OO MIL	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 %
		<	22.97	105.21	32.24		65.0	
40470	LTC TOD (OO EDMA 4 ED COAR)	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 %
		Υ	35.83	108.35	31.36		65.0	
10474	LITE TOD (OO FOMA 4 FF CO. )	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 %
		Υ	27.27	102.14	29.08		65.0	
40476	LTE EDD (OO ED)	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 %
		Υ	3.28	70.42	19.36		150.0	
40450		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 %
		Υ	4.95	77.76	22.23		150.0	
40455	1	Z	5.84	79.92	23.10		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	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 %
		Υ	4.88	77.46	22.08		150.0	
101=-		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 %
		Υ	4.38	75.13	20.57		150.0	
		Z	5.21	77.41	21.56		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 %
	19 ₁ 1 ₁ 1 ₁ 1 ₁ 1 ₁ 1 ₁ 1 ₁ 1 ₁ 1 ₁ 1 ₁	Υ	3.92	72.83	19.19		150.0	
40161		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 %
		Υ	3.30	70.58	19.46		150.0	
40400	LITE FDD (OO FDL)	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 %
		Υ	3.92	72.80	19,18		150.0	
		Z	4.67	75.15	20.27		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	***************************************
	· · · · · · · · · · · · · · · · · · ·	ż	3.77	72.45	20.39		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	5.70	80.29	23.50	3.01	150.0	± 9.6 %
		Υ	4.90	77.51	22.11		150.0	
		Z	5.76	79.65	22.97		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	4.61	75.64	20.72	3.01	150.0	± 9.6 %
		Υ	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 %
		Υ	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)	X	5.93	81.11	23.91	3.01	150.0	± 9.6 %
		Υ	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)	X	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)	Х	4.67	66.99	16.47	0.00	150.0	± 9.6 %
		Υ	4.56	66,66	16.13		150.0	
		Z	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 %
		Υ	4.75	67.00	16.25		150.0	
		Z	4.87	67.15	16.37		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 %
		Υ	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	
		Ζ	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 %
		Υ	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%
		Υ	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)	Х	4.64	67.11	16.47	0.00	150.0	± 9.6 %
		Υ	4.53	66.75	16.12		150.0	
		Z	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 %
		Υ	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-QAM)	Х	4.92	67.32	16.59	0.00	150.0	± 9.6 %
		Υ	4.80	66.98	16.27		150.0	
		Z	4.92	67.11	16.38		150.0	
10222- CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5,23	67.59	16.70	0.00	150.0	±9.6 %
		Y	5.12	67.23	16.39	<del> </del>	150.0	1
							100.0	1

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10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	Х	5.61	67.92	16.89	0.00	150.0	± 9.6 %
		Υ	5.46	67.48	16.54		150.0	
40004		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 %
		Υ	5.17	67.32	16.37		150.0	
4000=		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%
		Υ	2.82	66.09	15.31		150.0	
40000		Z	2.93	66.33	15.63		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	43.59	111.94	32.75	6.02	65.0	± 9.6 %
****		Υ	38.77	109.92	31.88		65.0	
4000=		Z	29.30	103.58	30.20	·	65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	32.72	105.33	30.40	6.02	65.0	±9.6%
		Υ	30.31	104.10	29.73		65.0	
10000		Ζ	23.58	98.50	28.23		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	45.04	118.57	36.38	6.02	65.0	± 9.6 %
		Υ	33.63	112.96	34.54		65.0	
4000		Ζ	30.07	109.15	33.47		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	40.99	110.67	32.33	6.02	65.0	± 9.6 %
		Υ	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)	Х	31.17	104.37	30.06	6.02	65.0	± 9.6 %
		Υ	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)	Х	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)	Х	40.99	110.68	32.33	6.02	65.0	±9.6 %
		Υ	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)	Х	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)	Х	39.80	115.77	35.45	6.02	65.0	±9.6 %
		Υ	29.32	109.94	33.51		65.0	
		Ζ	27.42	107.07	32.71		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	41.16	110.77	32.35	6.02	65.0	±9.6%
		Υ	36.04	108.46	31.40		65.0	
		Ζ	28.08	102.71	29.87		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	31.50	104.54	30.10	6.02	65.0	± 9.6 %
		Υ	28.73	103.05	29.35		65.0	
		Ζ	22.90	97.90	27.98		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	42.99	117.54	36.03	6.02	65.0	±9.6 %
deleter		Υ	31.67	111.68	34.11		65.0	
·		Z	29.03	108.38	33.18		65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	Х	41.04	110.71	32.33	6.02	65.0	± 9.6 %
		Υ	35.91	108.40	31.38		65.0	
		Z	28.02	102.67	29.86		65.0	<b></b>

10239-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	Х	31.24	104.44	30.08	6.02	65.0	± 9.6 %
CAD	64-QAM)					0.02		1 3.0 /0
		Υ	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 %
		Υ	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	
		Z	12.93	86.92	27.56		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	11.82	85.64	27.08	6.98	65.0	± 9.6 %
		Υ	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)	Х	9.69	83.18	27.04	6.98	65.0	± 9.6 %
		Υ	8.48	80.58	25.71		65.0	
		Ζ	9.71	82.55	26.66		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	10.16	81.71	21.73	3.98	65.0	±9.6 %
		Υ	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		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	10.26	84.67	22.74	3.98	65.0	±9.6%
		Υ	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)	Х	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)	Х	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	Ĭ
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	11.10	86,20	23.88	3.98	65.0	± 9.6 %
		Y	10.38	85.15	23.14		65.0	
w		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 %
		Υ	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	T	65.0	
		Z	8.21	77.20	21.30		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	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)	Х	8.29	77.16	21.61	3.98	65.0	± 9.6 %
		Y	7.87	76.45	21.11	1	65.0	
		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 %
J, (D		Y	8.27	77.28	21.75	1	65.0	<del> </del>
		l ż	8.49	77.01	21.74		65.0	

10255-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	Х	9.28	80.86	22.71	3.98	65.0	± 9.6 %
CAD	QPSK)	Y	8.89	00.40	00.05		05.0	
		Z	8.89 8.80	80.40 79.34	22.35		65.0	
10256-	LTE-TDD (SC-FDMA, 100% RB, 1.4	X	9.13	79.62	21.99 20.18	3.98	65.0 65,0	± 9.6 %
CAA	MHz, 16-QAM)					3.90		± 9.0 %
		Y	7.96	77.38	18.74		65.0	
10057	LTE TOP (OO FOLL)	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	
10258-	LTE-TDD (SC-FDMA, 100% RB, 1.4	Z	8.71	78.17	19.67		65.0	
CAA	MHz, QPSK)	X	8.90	81.94	21.19	3.98	65.0	± 9.6 %
*****		Y	7.60	79.37	19.69		65.0	
10259-	LTE-TDD (SC-FDMA, 100% RB, 3 MHz,	Z	8.10	80.01	20.54		65.0	
CAB	16-QAM)	X	8.43	79.20	21.67	3.98	65.0	± 9.6 %
		Y	7.92	78.34	21.01		65.0	
10260	LITE TOD (OC FDM4, 4000) DD CATH	Z	8.11	78.01	21.17		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	8.43	78.91	21.57	3.98	65.0	± 9.6 %
		Υ	7.92	78.05	20.91		65.0	
40004	1.75 750 (00 50)	Z	8.14	77.80	21.11		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	10.44	84.93	23.72	3.98	65.0	± 9.6 %
		Υ	9.81	84.03	23.07		65.0	
40000	LECTED (OC FELL)	Z	9.35	82.40	22.71		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	8.89	80.23	22.82	3.98	65.0	± 9.6 %
		Υ	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 %
-		Y	7.96	77.43	21.21		65,0	
		Ζ	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 %
		Υ	10.02	84.01	23.44		65.0	
		Ζ	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 %
		Υ	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)	Х	8.87	78.41	22.40	3.98	65.0	± 9.6 %
		Υ	8.48	77.88	22.01		65.0	
4000=		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	
40000	LITE TOD (OR TOWN)	Z	9.04	79.59	21.85		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	8.91	77.09	21.88	3.98	65.0	± 9.6 %
		Υ	8.54	76.56	21.51		65.0	
40000		Z	8.80	76.43	21.50		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	8.82	76.67	21.78	3.98	65.0	± 9.6 %
		Υ	8.46	76.15	21.41		65.0	
		Z	8.73	76.06	21.42		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	8.97	78.33	21.62	3.98	65.0	± 9.6 %
		Υ	8.64	77.97	21.34		65.0	
		Z	8.71	77.32	21.10		65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	Х	2.72	67.23	15.95	0.00	150.0	± 9.6 %
		Υ	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)	Х	1.89	70.77	17.26	0.00	150.0	± 9.6 %
•		Υ	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)	Х	9.55	80.33	21.17	9.03	50.0	± 9.6 %
		Υ	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	
		Z	9.46	79.72	21.15		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	Х	2.18	74.40	17.31	0.00	150.0	± 9.6 %
		Υ	1.44	68.27	13.81		150.0	
		Ζ	1.72	70.30	15.40		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	Х	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	Х	2.10	80.68	20.23	0.00	150.0	± 9.6 %
		Υ	0.98	68.86	14,25		150.0	
		Z	1.23	71.77	16.34		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	Х	4.35	92.52	24.81	0.00	150.0	± 9.6 %
		Υ	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.	Х	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)	Х	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)	Х	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	
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)	Х	2.98	70.18	14.87	0.00	150.0	± 9.6 %
		Υ	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)	Х	5.88	68.71	19.12	4.17	80.0	± 9.6 %
		Υ	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)	Х	6.49	69.93	20.23	4.96	80.0	± 9.6 %
-		Y	6.06	68.48	19.24		80.0	
		Z	6.58	69.96	20.17		80.0	

10303-	IEEE 802.16e WIMAX (31:15, 5ms,	Х	6.38	70.18	20.37	4.96	80.0	±9.6 %
AAA	10MHz, 64QAM, PUSC)	1,1	F 00	00 50	100=			
		Y	5.90	68.52	19.27		80.0	E
10304-	IEEE 802.16e WIMAX (29:18, 5ms,	Z X	6.49 5.94	70.27 69.20	20.35 19.41	4.17	80.0 80.0	±9.6%
AAA	10MHz, 64QAM, PUSC)	- ,	F F F	07.04	45.45			
		Y	5.55	67.84	18.48		80.0	
10305-	IEEE 802.16e WIMAX (31:15, 10ms,	X	6.02 8.63	69.19 79.84	19.33 25.16	0.00	80.0	1000
AAA	10MHz, 64QAM, PUSC, 15 symbols)					6.02	50.0	± 9.6 %
*****		Y Z	8.50 9.07	80.74	25.49		50.0	1
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	7.19	80.51 74.26	25.38 22.98	6.02	50.0 50.0	±9.6%
		Y	6.24	70.98	21.03		50.0	
		Ζ	7.44	74.65	23.11		50.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	Х	7.43	75.32	23.26	6.02	50.0	± 9.6 %
		Υ	7.08	75.34	23.24		50.0	
		Z	7.71	75.76	23.39		50.0	
10308- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	Х	7.56	75.95	23.55	6.02	50.0	± 9.6 %
		Υ	7,22	76.07	23.58		50.0	
40000		Z	7.85	76.40	23.68		50.0	
10309- 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	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Z X	7.59 7.26	75.05 74.63	23.31 23.05	6.02	50.0 50.0	± 9.6 %
70.01	TOWN 12, QF 3N, AIVIC 2X3, TO SYMBOIS)	Y	6.24	71.19	21.04		50.0	
		ż	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%
****		TY	3.12	68.92	16.05		150.0	
		Z	3.32	69.72	16.47		150.0	
10313- AAA	IDEN 1:3	Х	8.27	79.76	19.38	6.99	70.0	± 9.6 %
		Υ	7.09	77.48	18.12		70.0	
		Z	7.27	77.42	18.52		70.0	
10314- AAA	IDEN 1:6	Х	10.52	85.41	23.73	10.00	30.0	±9.6%
·M		Υ	9.80	84.47	23.05		30.0	
40045		Z	8.56	81.26	22,24		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	Х	1.21	66.04	16.76	0.17	150.0	± 9.6 %
		Y	1.11	64.36	15.28		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	X	1.16 4.78	64.99 67.20	15.81 16.69	0.17	150.0 150.0	± 9.6 %
, n 114	O Divi, O Mibps, Sope daily Cycle)	T 🗸	4.67	66.87	16.36		150.0	
		ż	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 %
		Υ	4.67	66.87	16.36		150.0	
		Z	4.78	67.00	16.48		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	4.88	67.44	16.59	0.00	150.0	± 9.6 %
		Υ	4.75	67.07	16.25		150.0	
10		Ζ	4.88	67.23	16.38		150.0	
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	Х	5.52	67.51	16.67	0.00	150.0	± 9.6 %
		Υ	5.43	67.26	16.42		150.0	
		Z	5.50	67.29	16.46	ļ	150.0	1

10402-	IEEE 802.11ac WiFi (80MHz, 64-QAM,	Х	5.81	67.99	16.74	0.00	150.0	± 9.6 %
AAD	99pc duty cycle)							
		Υ	5.71	67.67	16.46		150.0	
		Z	5.80	67.83	16.56		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	Х	2.18	74.40	17.31	0.00	115.0	± 9.6 %
		Υ	1.44	68.27	13.81		115.0	
		Z	1.72	70.30	15.40		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	Х	2.18	74.40	17.31	0.00	115.0	± 9.6 %
		Υ	1.44	68.27	13.81		115.0	
15.100		Z	1.72	70.30	15.40		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	Х	100.00	125.34	32.57	0.00	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)	Х	100.00	121.08	31.14	3.23	80.0	± 9.6 %
		Υ	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)	Х	1.04	64.21	15.75	0.00	150.0	± 9.6 %
		Υ	0.96	62.81	14.37		150.0	
		Z	1.00	63.31	14.86		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	Х	4.68	67.03	16.52	0.00	150.0	± 9.6 %
		Υ	4.57	66.70	16.19		150.0	
		Z	4.67	66.81	16.30		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.68	67.03	16.52	0.00	150.0	±9.6%
		Υ	4.57	66.70	16.19		150.0	***************************************
		Z	4.67	66.81	16.30		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 %
		Υ	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 %
		Υ	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)	X	4.81	67.13	16.54	0.00	150.0	± 9.6 %
		Υ	4.70	66.81	16.22		150.0	
		Z	4.80	66,92	16.33		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	5.01	67.51	16.68	0.00	150.0	± 9.6 %
		Υ	4.89	67.16	16.35		150.0	
		Z	5.01	67.31	16.47		150.0	
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	×	4.92	67.45	16.65	0.00	150.0	± 9.6 %
		Y	4.80	67.10	16.32	<u> </u>	150.0	
10425-	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	4.92 5.50	67.24 67.77	16.43 16.79	0.00	150.0 150.0	± 9.6 %
AAH	1 5. 6.9	Y	5.41	67.50	16.53		150.0	
AAB				1 01.00	10.00		1 100.0	1
AAB								
10426-	IEEE 802.11n (HT Greenfield, 90 Mbps,	Z	5.49 5.51	67.58 67.80	16.59 16.80	0.00	150.0 150.0	± 9.6 %
	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	Z	5.49	67.58	16.59	0.00	150.0	± 9.6 %

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		450.0	
		Z	5.52	67.63			150.0	
10430-	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.38	70.70	16.61	0.00	150.0	
AAB	2.2.1 33 (0.1 3887, 3 18872, 2-11913.1)				18.40	0.00	150.0	± 9.6 %
	***	Y	4.25	70.46	18.05		150.0	
40424	LTC CDD (OCD)	Z	4.31	70.02	17.98		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	Х	4.42	67.67	16.62	0.00	150.0	± 9.6 %
		Υ	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)	Х	4.70	67.52	16.63	0.00	150.0	± 9.6 %
		Υ	4.57	67.13	16.26		150.0	
40400		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 %
		Υ	4.82	67.14	16.34		150.0	
40.45		Z	4.94	67.29	16.46		150.0	
10434- _AAA	W-CDMA (BS Test Model 1, 64 DPCH)	Х	4.49	71.52	18.43	0.00	150.0	± 9.6 %
		Υ	4.34	71.22	18.01		150.0	
		Ζ	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)	Х	100.00	120.92	31.06	3.23	80.0	± 9.6 %
		Υ	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%)	Х	3.75	67.86	16.21	0.00	150.0	±9.6%
		Υ	3.56	67.20	15.57		150.0	
		Z	3.73	67.41	15.90		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	Х	4.24	67.45	16.49	0.00	150.0	± 9.6 %
		Υ	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%)	Х	4.49	67.35	16.53	0.00	150.0	± 9.6 %
		Υ	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 %
		Υ	4.56	66.89	16.18		150.0	
		Z	4.66	67.04	16.31		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	Х	3.69	68.21	15.98	0.00	150.0	± 9.6 %
		Υ	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)	Х	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)	Х	3.86	65.66	16.26	0.00	150.0	±9.6 %
		Υ	3.78	65.32	15.90		150.0	
		Z	3.84	65.45	16.04		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	Х	4.10	70.68	17.90	0.00	150.0	± 9.6 %
		Υ	3.95	70.36	17.40	******	150.0	
		Z	3.98	69.73	17.40		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	5.16	67.87	18.15	0.00	150.0	± 9.6 %
		٠,,			<b></b>			
		Υ	5.08	67.96	18.01		150.0	

10460- AAA	UMTS-FDD (WCDMA, AMR)	Χ	1.21	74.36	19.56	0.00	150.0	± 9.6 %
		Υ	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 %
		Υ	100.00	122.71	31.63		80.0	
		Z	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 %
		Υ	100.00	107.68	24.48		80.0	
		Ζ	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)	Х	100.00	108.02	24.88	3.23	80.0	± 9.6 %
		Υ	17.57	87.04	18.79		80.0	
10101	1.55 500 (00 5011)	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	
10405	LTC TDD (OC EDMA 4 DD C MIL 40	Z	100.00	120.59	30.96	2.00	80.0	+000
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.36	26.00	3.23	80.0	± 9.6 %
		Y	69.93	103.37	23.39		80.0	
40400	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-	Z	100.00	109.17	25.60	2.22	80.0	1000
10466- AAA	QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	107.59	24.67	3.23	80.0	±9.6%
	+	Y	10.32	81.39	17.12		80.0	
10467-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz,	Z X	32.56 100.00	94.43 123.18	21.51 32.01	3.23	80.0	± 9.6 %
AAC	QPSK, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
		Y	100.00	120.88	30.62		80.0	
10468-	LTE TOD (CC FOMA 4 DD F MILE 4C	Z X	100.00	120.77	31.04	2.00	80.0	1000
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Ì	100.00	110.50	26.06	3.23	80.0	± 9.6 %
		Y	95.55	106.84	24.20		80.0	
40400	TET TOO (CO FOMM 4 DO FAME CA	Z	100.00	109.30	25.66	0.00	80.0	1000
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	
40470	LITE TOD (OO FDIAN A DD AO MIL	Z	33.51	94.76	21.58		80.0	1000
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	
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	120.79 110.46	31.05 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)	Х	100.00	123.19	32.00	3.23	80.0	± 9.6 %
		Υ	100.00	120.87	30.61		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)	Х	100.00	110.47	26.04	3.23	80.0	±9.6%
		Υ	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)	Х	100.00	107.57	24.65	3.23	80.0	± 9.6 %
		Y	10.30	81.37	17.09		80.0	
		Z	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)	Х	100.00	110.32	25.97	3.23	80.0	± 9.6 %
		Υ	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 %
		Υ	10.13	81.17	17.03		80.0	
		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 %
	A	Υ	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 %
		Υ	16.50	90.35	22.90		80.0	
40404	TE TDD (00 EDAM)	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)	Х	19.64	92.74	23.93	3.23	80.0	± 9.6 %
		Y	13.10	86.39	21.35		80.0	
10482-	LTE TOD (OO FOMA FOR OR OF	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)	Х	8.49	84.69	22.05	2.23	80.0	± 9.6 %
		Y	5.66	78.52	19.36		80.0	
40400	LTE TOD (OO FOMA FOR TO OAK)	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)	Х	11.70	86.22	22.45	2.23	80.0	± 9.6 %
		Y	8.73	81.47	20.24		80.0	
10484-	LITE TOD (CC FDMA 500/ PD 0 MIL	Z	8.71	81.39	20.85		80.0	
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 %
		Υ	7.92	79.90	19.71		80.0	
40405	1.75.700.500.500.500.500.500.500.500.500.	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)	Х	8.12	84,44	22.68	2.23	80.0	±9.6%
		Y	5.95	79.56	20.54		80.0	
40400		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)	Х	5.60	75.72	19.25	2.23	80.0	± 9.6 %
		Υ	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)	Х	5.48	75.06	18.99	2.23	80.0	± 9.6 %
		Υ	4.65	72.64	17.60		80.0	
40400	1.75.700 (0.0.700)	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)	Х	7.06	88.08	21.92	2.23	80.0	± 9.6 %
		Υ	5.70	77.55	20.40		80.0	
10400	LTE TOD (OO FDMA SON DD 40 MI)	Z	6.08	77.77	20.57		80,0	ļ
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.31	73.88	19.45	2.23	80.0	± 9.6 %
	- A Marining Principal	Y	4.75	72.25	18.50		80.0	
10490-	LTC TDD (DO CDMA 500) DD 40.00	Z	5.02	72,44	18.71		80.0	
AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.32	73.40	19.28	2.23	80.0	±9.6%
		Y	4.80	71.92	18.39		80.0	ļ
10491-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	Z	5.07	72.08	18.60	0.00	80.0	
AAC	QPSK, UL Subframe=2,3,4,7,8,9)		6.29	77.08	20.62	2.23	80.0	±9.6 %
		Y	5.44	74.84	19.51		80.0	
10/102	LITE TOD (CC EDMA 50% DD 45 AV)	Z	5.78	75.12	19.66	0.00	80.0	
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.38	72.26	19.03	2.23	80.0	± 9.6 %
		~	4.95	71.03	18.29		80.0	
		Z	5.22	71.29	18.47		80.0	_

10493-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	X	5.41	71.97	18.93	2.23	80.0	± 9.6 %
AAC	64-QAM, UL Subframe=2,3,4,7,8,9)	Y	4.00				00.0	
		Z	4.99	70.82	18.22		80.0	
10404	LTE TOD (SC CDMA FOW DD 20 MLH		5.27	71.06	18.40 21.31	2.22	80.0	+069/
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.26	79.46		2.23	80.0	± 9.6 %
		Υ	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)	Х	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)	Х	5.51	72.36	19.10	2.23	80.0	± 9.6 %
		Υ	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 %
		Υ	4.18	74.07	16.91		80.0	
		Z	4.97	76.21	18.38		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4,23	71.63	15.72	2.23	80.0	±9.6 %
		Y	2.88	66.72	12.99		80.0	
		Z	3.81	69,89	15.10		80.0	1
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.07	70.79	15.25	2.23	80.0	± 9.6 %
		Υ	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)	Х	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 %
		Υ	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 %
		Υ	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)	Х	5.28	73.79	19.40	2.23	80.0	± 9.6 %
		Υ	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 %
		Υ	4.78	71.81	18.34		80.0	t e
		Z	5.05	72.00	18.55		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	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- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.49	72.85	19.25	2.23	80.0	± 9.6 %
		Υ	5.02	71.50	18.47		80.0	
		Z	5.31	71.82	18.66	1	80.0	

10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL	Х	5.49	72.29	19.06	2.23	80.0	± 9.6 %
	Subframe=2,3,4,7,8,9)		F 0F	74.05	40.01			
		Y	5.05	71.07	18.34		80.0	
10509-	LTE-TDD (SC-FDMA, 100% RB, 15	Z X	5.33 6.71	71.37	18.52	0.00	80.0	
AAC	MHz, QPSK, UL Subframe=2,3,4,7,8,9)			76.12	20.06	2.23	80.0	± 9.6 %
***************************************		Y	5.94	74.25	19.13		80.0	
10510-	LTE-TDD (SC-FDMA, 100% RB, 15	Z	6.28	74.57	19.27		80.0	
AAC	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.84	71.95	18.94	2.23	80.0	±9.6 %
		Υ	5.42	70.86	18.30		80.0	
40-11		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)	Х	5.82	71.51	18.81	2.23	80.0	± 9.6 %
		Υ	5.44	70.51	18.21		80.0	
		Z	5.71	70.83	18.37		80.0	<b></b>
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.61	78.80	20.90	2.23	80.0	± 9.6 %
		Υ	6.48	76.29	19.75		80.0	
		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)	Х	5.82	72.58	19.18	2.23	80.0	± 9.6 %
		Y	5.36	71.33	18.47		80.0	
		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)	Х	1.00	64.53	15.90	0.00	150.0	± 9.6 %
		Υ	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	
40547	1555 000 441 W/5/ 0 4 011 /5 000 4	Z	0.73	74.56	19.01		150.0	
10517- 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-	IEEE 000 44 - IL MIEE E OLI - (OEDM O	Z	0.84	65.95	15.79		150.0	
AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.67	67.12	16.50	0.00	150.0	±9.6%
		Y	4.56	66.77	16.17		150.0	
10519-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12	Z	4.66	66.89	16.28	0.00	150.0	1000
AAB	Mbps, 99pc duty cycle)	X	4.89	67.40	16.64	0.00	150.0	± 9.6 %
		Y	4.77	67.04	16.30	<u> </u>	150.0	
10520-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18	<del>   </del>	4.89 4.74	67.19	16.43	0.00	150.0	+0.6.0/
AAB	Mbps, 99pc duty cycle)	^   ^	4.74	67.39	16.57	0.00	150.0	± 9.6 %
<del></del>		Z	4.61	67.01 67.17	16.22		150.0	
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.67	67.41	16.35 16.56	0.00	150.0 150.0	± 9.6 %
		Y	4.55	67.00	16.20		150.0	
		Ż	4.67	67.18	16.34		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	

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 %
	po, copo daty dydio/	Y	4.47	66.91	16.11		150.0	
		z	4.58	67.04	16.22		150.0	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.67	67.35	16.59	0.00	150.0	± 9.6 %
		Υ	4.55	66.98	16.24		150.0	
		Ζ	4.67	67.11	16.36		150.0	
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	Х	4.63	66.37	16.17	0.00	150.0	± 9.6 %
		Y	4.52	66.01	15.83		150.0	
		Z	4.62	66.13	15.94		150.0	
10526- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.83	66.78	16.32	0.00	150.0	±9,6 %
		Y	4.70	66.40	15.97		150.0	
		Z	4.82	66.54	16.09	****	150.0	^
10527- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.75	66.76	16.27	0.00	150.0	±9.6 %
		Υ	4.62	66.36	15.92		150.0	
10555	A DOT THE CO. O. O. A. A. A. A. A. A. A. A. A. A. A. A. A.	Z	4.74	66.51	16.04		150.0	
10528- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.77	66.78	16.31	0.00	150.0	± 9.6 %
		Υ	4.64	66.38	15.95		150.0	
40500	LEEE COO 44 MIE! (CO. III.	Z	4.76	66.54	16.08		150.0	
10529- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.77	66.78	16.31	0.00	150.0	± 9.6 %
		Y	4.64	66.38	15.95		150.0	
10531- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	Z X	4.76 4.78	66.54 66.93	16.08 16.34	0.00	150.0 150.0	± 9.6 %
7470	oope daty cycle)	Y	4.64	66.50	15.97		150.0	
		Ż	4.77	66.69	16.10		150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.63	66.80	16.29	0.00	150.0	± 9.6 %
***************************************		Y	4.49	66.35	15.90		150.0	
		Z	4.62	66.56	16.05		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	Х	4.78	66.80	16.29	0.00	150.0	± 9.6 %
		Υ	4.65	66.41	15.94		150.0	
		Z	4.77	66.55	16.05		150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.28	66.88	16.33	0.00	150.0	± 9.6 %
		Υ	5.17	66.53	16.03		150.0	
		Z	5.27	66.70	16.13		150.0	
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	Х	5.35	67.03	16.39	0.00	150.0	± 9.6 %
		Y	5.24	66.69	16.10		150.0	
		Z	5.34	66.84	16.18		150.0	
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.22	67.03	16.37	0.00	150.0	± 9.6 %
		<	5.10	66.65	16.06		150.0	
		Z	5.21	66.83	16.16		150.0	
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5,29	67.00	16.36	0.00	150.0	± 9.6 %
		\	5.17	66.63	16.05		150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.27 5.40	66.80 67.06	16.15 16.43	0.00	150.0 150.0	± 9.6 %
ヘヘレ	Japo duty cycle)	<del>  _</del>	5.27	66.69	16.12	-	150.0	-
		Z	5.39		16.12	·····	150.0	
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.30	66.88 67.01	16.42	0.00	150.0	± 9.6 %
יעטי	oopo daty cycle)	Y	5.19	66.66	16.12		150.0	<del> </del>

10541- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	Х	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)	Х	5.51	66.95	16.41	0.00	150.0	± 9.6 %
***************************************		Y	5.40	66.65	16.14		150.0	
40544		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 %
		Y	5.46	66.64	16.02		150.0	
10545-	IEEE 902 44cc WiEi (90Mi In MOO4	Z	5.54	66.80	16.11		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.78	67.41	16.46	0.00	150.0	±9.6%
		Y	5.68	67.09	16,19		150.0	
10546-	JEEE 902 41co Wiet / 20MU - MCCC	Z	5.76	67.21	16.25	0.00	150.0	
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	
10547-	IEEE 802.11ac WiFi (80MHz, MCS3,	Z	5.65	67.10	16.22	0.00	150.0	
AAB	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	
10548-	IEEE 902 1100 W/FF / POMULE MACCA	Z	5.73	67.16	16.24	0.00	150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	Х	6.10	68.57	17.02	0.00	150.0	±9.6 %
		Y	5.97	68.15	16.70		150.0	
40550	IEEE 000 44 WIEI (OOM) - MOOO	Z	6.06	68.30	16.78		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	Х	5.68	67.21	16.39	0.00	150.0	± 9.6 %
		Y	5.57	66.88	16.11		150.0	
40554	FEE OOG 44 HUEL 400 MILLION	Z	5.66	67.04	16.20		150.0	***
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	Х	5.70	67.30	16.39	0.00	150.0	± 9.6 %
		Y	5.58	66.93	16.09		150.0	
10550		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	
40550	LESE COO 44 MIET (COMP)	<u>Z</u>	5.58	66.90	16.10		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	Х	5.69	67.10	16.33	0.00	150.0	± 9.6 %
		Y	5.57	66.76	16.05		150.0	
10551	IFFE 902 44 WiF: (400MH- MOOO	<u>  Z  </u>	5.67	66.95	16.15	0.00	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	
10555	JEEE 900 44ee Wiel (400MH- MOO4	Z	5.94	67.19	16.21	0.00	150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	Х	6.12	67.69	16.53	0.00	150.0	± 9.6 %
		Y	6.01	67.35	16.26		150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	Z	6.10 6.13	67.54 67.71	16.36 16.53	0.00	150.0 150.0	± 9.6 %
, , , , ,	oopo daty Gyolo/	Y	6.03	67.38	16.27		150.0	
		Z	6.11	67.54	16.35		150.0	
10557-	1			U .U+	10.00	1	1 100.0	L
	IEEE 802.11ac WiFi (160MHz, MCS3,	X	6.12	67.66	16.53	0.00	150.0	± 9.6 %
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)					0.00	150.0 150.0	± 9.6 %

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- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	Х	6.08	67.64	16.61	0.00	150.0	± 9.6 %
		Υ	5.97	67.29	16.33		150.0	
		Z	6.06	67.49	16.44		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	Х	6.25	68.16	16.88	0.00	150.0	± 9.6 %
		Y	6.13	67.77	16.57		150.0	
		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 %
		Υ	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)	Х	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 %
		Υ	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 %
*************************		Υ	5.01	67.61	16.84		150.0	
		Z	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 %
~~~		Υ	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)	Х	5.07	67.97	17.18	0.46	150.0	± 9.6 %
		Y	4.96	67.67	16.89		150.0	
V		Z	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 %
	·	Υ	5.00	67.52	16.83		150.0	
		Z	5.11	67.61	16.91		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	Х	1.43	67.78	17.55	0.46	130.0	± 9.6 %
		Υ	1.29	65.83	16.01		130.0	
		Z	1.37	66.57	16.56		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.47	68.62	18.01	0.46	130.0	± 9.6 %
		Υ	1.32	66.50	16.39		130.0	
		Z	1.40	67.26	16.95		130.0	
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 %
		Υ	5.11	95.86	25,26		130.0	
		Z	11.46	108.94	29.46		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	2.11	79.07	22.64	0.46	130.0	±9.6 %
		Υ	1.59	73.49	19.59		130.0	
		Z	1.75	74.78	20.34	T	130.0	

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Х	4.84	67.12	16.79	0.46	130,0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)							
		Y	4.72	66.80	16.47		130.0	
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.83	66.93	16.59		130.0	
AAA	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	
10577-	IEEE 000 44- Wift o 4 OU (DOOD	Z	4.86	67.08	16,65		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- 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	
10578-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	5.10	67.41	16.83		130.0	
AAA	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	
10579-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.99	67.57	16.91		130.0	
AAA	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	·······
10580-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.78	67.01	16.33	6.45	130.0	
AAA	OFDM, 36 Mbps, 90pc duty cycle)	X	4.81	67.17	16.53	0.46	130.0	±9.6%
		Y	4.68	66.78	16.16		130.0	
10581-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.82	66.97	16.32		130.0	
AAA	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	
10582-	1555 000 44× W551 0 4 GU - (5000	Z	4.90	67.66	16,87		130.0	
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	
40500		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	
40004		Z	4.83	66.93	16.59		130.0	
10584- AAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	Х	4.86	67.28	16.85	0.46	130.0	± 9.6 %
		Υ	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 %
		Υ	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 %
		Υ	4.86	67.43	16.80		130.0	
10505		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%
		Υ	4.64	66.77	16.15		130.0	
10		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	
40500	IEEE 000 44 # MIEEE COL (CERT)	Z	4.82	66.97	16.32		130.0	
10589- AAB	IEEE 802.11a/n 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	
40500	HEEF OOD 44 - IL MIELE ON LOTTE -	Z	4.90	67.66	16.87		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	Х	4.73	66.96	16.34	0.46	130.0	± 9.6 %
		Υ	4.59	66.53	15.94		130.0	
		Z	4.73	66.78	16.14		130.0	

10591- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.98	67.15	16.87	0.46	130.0	± 9,6 %
***************************************		Y	4.87	66.85	16.57		130.0	
		Z	4.98	66.97	16.68		130.0	
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	Х	5.15	67.50	16.99	0.46	130.0	± 9.6 %
		Y	5.04	67.19	16.69		130.0	
		Z	5.16	67.32	16.80		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	5.09	67.46	16.91	0.46	130.0	± 9.6 %
		Y	4.96	67.12	16.59		130.0	
		Z	5.09	67.29	16.72		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	5.14	67.60	17.04	0.46	130.0	± 9.6 %
		Y	5.02	67.28	16.73		130.0	
		Z	5.14	67.42	16.84		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	5.11	67.58	16.95	0.46	130.0	± 9.6 %
		Υ	4.99	67.24	16.64		130.0	
		Z	5.12	67.40	16.76		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	Х	5.05	67.59	16.96	0.46	130.0	± 9.6 %
		Υ	4.93	67.24	16.64		130.0	
		Z	5.06	67.40	16.76		130.0	
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	Х	5.00	67.53	16.87	0.46	130.0	± 9.6 %
		Y	4.88	67.16	16.53		130.0	
		Z	5.01	67.35	16.68		130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	Х	4.98	67.77	17.12	0.46	130.0	± 9.6 %
		Y	4.86	67.40	16.79		130.0	
		Z	4.99	67.58	16.92		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.65	67.74	17.05	0.46	130.0	± 9.6 %
		Y	5.54	67.42	16.77		130.0	
· · · · · · · · · · · · · · · · · · ·		Z	5.65	67.58	16.87		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.86	68.37	17.35	0.46	130.0	± 9.6 %
		Y	5.74	68.03	17.05		130.0	
	***************************************	Ż	5.87	68.25	17.19		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.71	67.99	17.17	0.46	130.0	± 9.6 %
		Υ	5.59	67.67	16.88		130.0	
		Z	5.71	67.84	16.99		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.80	67.99	17.09	0.46	130.0	± 9.6 %
		Y	5.68	67.66	16.80		130.0	
		Z	5.80	67.87	16.93		130.0	
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	Х	5.88	68.27	17.35	0.46	130.0	± 9.6 %
		Υ	5.76	67.95	17.07		130.0	
***		Z	5.91	68.22	17.22		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	Х	5.65	67.69	17.05	0.46	130.0	± 9.6 %
		Y	5.55	67.38	16.78		130.0	
		Z	5.65	67.55	16.88		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.77	68.03	17.23	0.46	130.0	± 9.6 %
***************************************		Y	5.67	67.75	16.97		130.0	
		Z	5.76	67.86	17.04		130.0	
10606- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	Х	5.54	67.48	16.82	0.46	130.0	± 9.6 %
AAB		1	<del> </del>	07.44	40.50	<del>                                     </del>	400.0	1
		Y	5.42	67.14	16.52	1	130.0	

10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0,	Х	4.81	66.46	16.48	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)							
		Y	4.70	66.13	16.17	******	130.0	
10608-	IEEE 802.11ac WiFi (20MHz, MCS1,	Z	4.81	66.25	16.27	0.40	130.0	
AAB	90pc duty cycle)		5.03	66.90	16.65	0.46	130.0	±9.6%
********		Y	4.90	66.55	16.34		130.0	
10609-	IEEE 900 44 co WIE: (00ML - NOO)	Z	5.02	66.68	16.44		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	Х	4.92	66.79	16.52	0.46	130.0	± 9.6 %
		<u> </u>	4.79	66.41	16.18		130.0	
10610-	IEEE 802.11ac WiFi (20MHz, MCS3,	Z	4.92	66.57	16.31		130.0	
AAB	90pc duty cycle)		4.97	66.94	16.67	0.46	130.0	± 9.6 %
		<u> </u>	4.84	66.57	16.34		130.0	
10611-	IEEE 802.11ac WiFi (20MHz, MCS4,	Z	4.97	66.72	16.46	0.40	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,	Z	4.91	66.73	16.37	6.1-	130.0	
AAB	90pc duty cycle)	X	4.93	66.87	16.50	0.46	130.0	±9.6%
		Y	4.79	66.46	16.14		130.0	
10614-	JEET 902 (4 ca MUT) (20MH - MOO7	Z	4.93	66.66	16.28		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	Х	4.85	67.03	16.71	0.46	130.0	± 9.6 %
	1	Y	4.72	66.63	16.36		130.0	
40045	IEEE COO da MIEL COO MICHAEL	Z	4.85	66.82	16.49		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	Х	4.90	66.61	16.33	0.46	130.0	± 9.6 %
		Y	4.76	66.22	15.98		130.0	
40040	IEEE COOK	Z	4.90	66.40	16.12		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.47	66.98	16.66	0.46	130.0	± 9.6 %
		Υ	5.36	66.66	16.38		130.0	
		Z	5.46	66.82	16.47		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 %
		Υ	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	
100:-		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 %
		Υ	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 %
		Υ	5.44	66.75	16.39		130.0	
		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 %
		Υ	5.42	66.81	16.54		130.0	
	4	Z	5,53	66.98	16.63		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	Х	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	

10623- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.42	66.86	16.56	0.46	130.0	± 9.6 %
, , , ,	oopo daty oyoto)	TY	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)	Х	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	
40000		Z	5.97	67.39	16.62	0.40	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	
40000	JEEE 000 44 - MIE: (0014) - MOCO	Z	5.79	67.05	16.40	0.40	130.0	1000
10629- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	Х	5.88	67.25	16.59	0.46	130.0	± 9.6 %
		Y	5.77	66,92	16.31		130.0 130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.87 6.51	67.12 ′ 69.31	16.43 17.62	0.46	130.0	± 9.6 %
AAD	sope duty cycle)	Y	6.37	68,86	17.28		130.0	<u> </u>
		Z	6.46	69.04	17.39	ļ	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 %
7010	- Jose daty dydio/	TY	6.17	68.39	17.24	İ	130.0	
,.,.,.		Ż	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)	Х	5.85	67.37	16.74	0.46	130.0	± 9.6 %
		Υ	5.73	67.02	16.46	ļ	130.0	
		Z	5.86	67.27	16.59		130.0	
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5,75	66.78	16.20	0.46	130.0	± 9.6 %
		<u> </u>	5.62	66.39	15.89	1	130.0	
10000		Z	5.75	66.67	16.05	<u> </u>	130.0	1
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	-	130.0	<del> </del>
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	Z X	6.12 6.31	67.24 67.79	16.50 16.85	0.46	130.0 130.0	± 9.6 %
,,,,,	Jobo daty Oyoloj	Y	6.21	67.50	16.60		130.0	1
	<u> </u>	Ż	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	1

10639- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	Х	6.30	67.76	16.86	0.46	130.0	± 9.6 %
		Y	6.20	67.43	16.59	·	130.0	<del> </del>
		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	
40044		Z	6.33	67.75	16.70		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.33	67.58	16.73	0.46	130.0	± 9.6 %
		Y	6.23	67.29	16.48		130.0	
10642-	IEEE 802.11ac WiFi (160MHz, MCS6,	Z	6.31	67.45	16.57		130.0	
AAC	90pc duty cycle)	X	6.39	67.88	17.04	0.46	130.0	± 9.6 %
*****	4,4,4	Z	6.28	67.58	16.79		130.0	
10643-	IEEE 802.11ac WiFi (160MHz, MCS7,		6.38	67.76	16.88		130.0	
AAC	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	,
10644-	IEEE 802.11ac WiFi (160MHz, MCS8,	Z X	6.21	67.48	16.65		130.0	
AAC	90pc duty cycle)		6.47	68.34	17.21	0.46	130.0	±9.6 %
		Y	6.34	67.93	16.89		130.0	
10645-	IEEE 802.11ac WiFi (160MHz, MCS9,	Z	6.46	68.22	17.05		130.0	
AAC	90pc duty cycle)	X	6.86	69.01	17.48	0.46	130.0	± 9.6 %
		<u>Y</u>	6.84	68.95	17.35		130.0	
10646-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz,	Z	6.77	68.66	17.21		130.0	
AAD	QPSK, UL Subframe=2,7)	Х	39.97	118.78	39.16	9.30	60.0	± 9.6 %
		<u> </u>	36.64	117.33	38.51		60.0	
10647-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	Z	28.19	109.42	36.13		60.0	
AAC	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	
10648-	CDMA2000 (4A.)	Z	29.77	111.44	36.87		60.0	
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	
10050	LTE TOD (OFDMA EAGL)	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	
40050	LTE TOP (OFPIA) (OLUM	<u>  Z</u>	4.56	68.93	17.55		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	×	5.05	68.61	17.89	2.23	80.0	± 9.6 %
		Υ	4.81	67.90	17.37		80.0	
10654-	LTE TOP (OFPIA) AS MALE THE	Z	5.01	68.17	17.57		80.0	
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 %
		<u> </u>	4.75	67.55	17.37		80.0	
10655	LITE TOD (OFDIA COATT)	Z	4.94	67.85	17.56		0.08	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	5.03	68.27	17.91	2.23	80.0	± 9.6 %
		Y	4.81	67.56	17.41		0.08	
10658- AAA	Pulse Waveform (200Hz, 10%)	X	4.99 13.25	67.90 86.83	17.61 23.62	10.00	80.0 50.0	± 9.6 %
		Y	14.38	00.00	22.44		FC 0	
		Z	11.47	88.09	23.44		50.0	
10659-	Pulse Waveform (200Hz, 20%)	X		83.98	22.82	6.00	50.0	1000
AAA	. 3.55 11410101111 (2001 12, 2070)		55.89	109.63	28.77	6.99	60.0	± 9.6 %
		Y	73.21	111.71	28.47		60.0	
	<u> </u>	Z	23.49	96.54	25.38		60.0	

10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	116.44	28.38	3.98	80.0	± 9.6 %
		Υ	100.00	113.18	26.58		80.0	
		Z	100.00	116.19	28.39		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	Х	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





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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

**PC Test** 

Certificate No: ES3-3332_Aug17

## **CALIBRATION CERTIFICATE**

Object

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

7/27/117

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)

Certificate No: ES3-3332_Aug17

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	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

Calibrated by:

Name
Function
Signature
Laboratory Technician

Approved by:

Katja Pokovic
Technical Manager

Issued: August 16, 2017

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

## Calibration Laboratory of

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Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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Glossary:

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

ConvF

sensitivity in TSL / NORMx,y,z

DCP

diode compression point

CF A, B, C, D crest factor (1/duty_cycle) of the RF signal 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.,  $\theta = 0$  is normal to probe axis

Connector Angle

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

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

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

#### Methods Applied and Interpretation of Parameters:

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

Certificate No: ES3-3332_Aug17 Page 2 of 38

# Probe ES3DV3

SN:3332

Manufactured:

January 24, 2012

Calibrated:

August 14, 2017

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

ES3DV3-SN:3332

## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3332

#### **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		A dB	B dB√μV	O	D dB	VR mV	Unc ^E (k=2)
0	CW	Х	0.0	0.0	1.0	0.00	192.0	±3.5 %
		Υ	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).

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:3332

### Calibration Parameter Determined in Head Tissue Simulating Media

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 %		

^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.

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 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 ConyF uncertainty for indicated target tissue parameters.

the ConvF uncertainty for indicated target tissue parameters.

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

## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3332

### Calibration Parameter Determined in Body Tissue Simulating Media

			-		_			
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 %

^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.

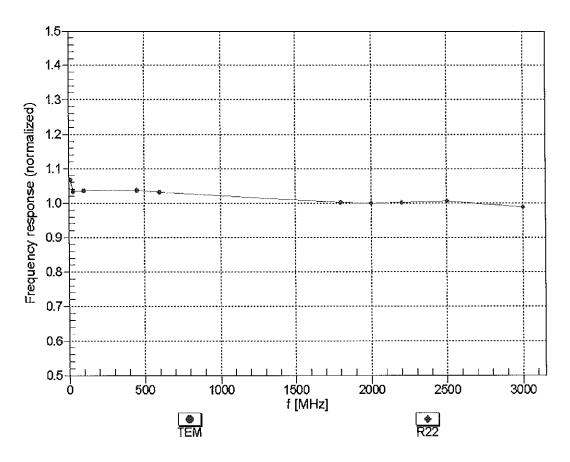
validity can be extended to ± 110 MHz.

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

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

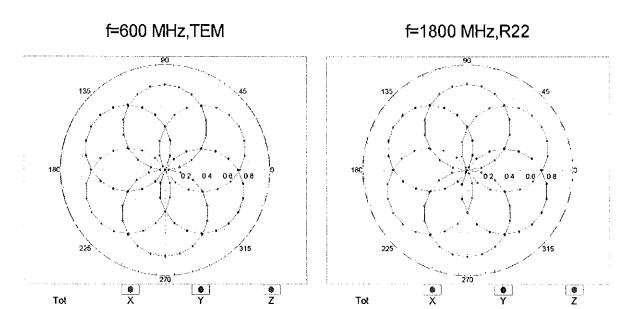
⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the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

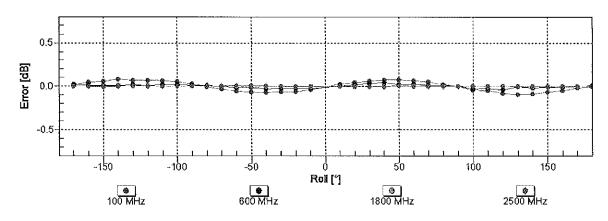
## Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

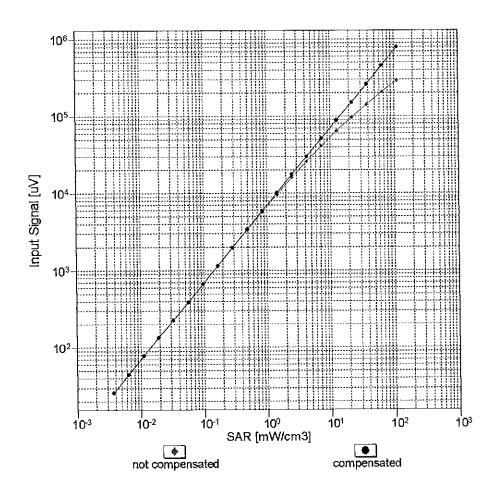
## Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

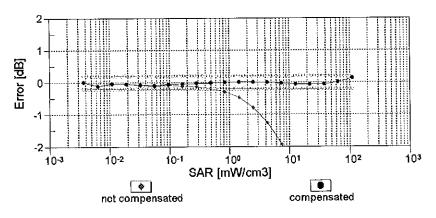




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

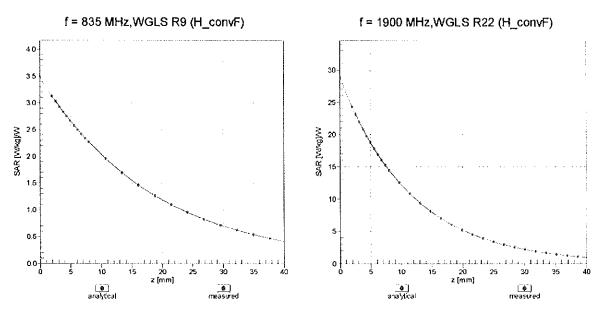
# Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)





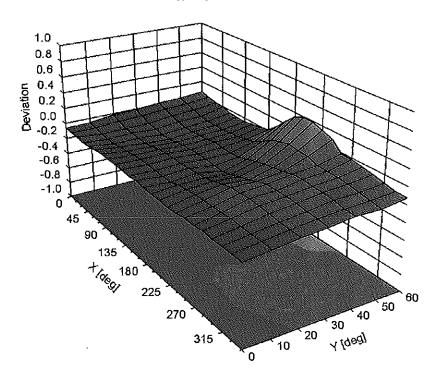
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

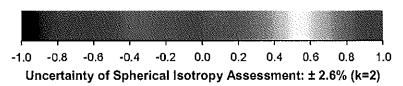
## **Conversion Factor Assessment**



## **Deviation from Isotropy in Liquid**

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





## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3332

## **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	Х	0.00	0.00	1.00	0.00	192.0	± 3.5 %
		Υ	0.00	0.00	1.00		194.3	
10010-	CADV-EL-C (C 100	Z	0.00	0.00	1.00		179.9	
CAA	SAR Validation (Square, 100ms, 10ms)	X	9.02	77.08	18.94	10.00	25.0	± 9.6 %
		Y	12.19	85.73	21.41		25.0	· ···
10011-	LUATO EDD MAODAAN	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 %
<del></del>		Y	1.08	68.15	15.73		150.0	
10012-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	Z X	1.25 1.52	71.36	17.60	0.44	150.0	
CAB	Mbps)			68.53	17.98	0.41	150.0	± 9.6 %
		Y	1.33	65.39	16.06		150.0	
10013-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	1.37	66.35	16.79	4.40	150.0	
CAB	OFDM, 6 Mbps)	ļ. :	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 11.16	67.81 81.48	17.71 22.11	0.00	150.0	1000
DAC	GOWH DD (TDWA, GWAK)	<u></u>				9.39	50.0	± 9.6 %
		Z	61.59 100.00	115.23 122.78	32.13		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	11.07	81.20	33.35 22.06	9.57	50.0 50.0	± 9.6 %
<u>Dr to</u>		Y	43.11	109.07	30.52		50.0	
		z	100.00	122.63	33.33		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	12.88	85.34	22.06	6.56	60.0	± 9.6 %
		Υ	100.00	120.15	31.36		60.0	
		Z	100.00	120.25	30.99		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	19.49	99.22	36.41	12.57	50.0	± 9.6 %
		7	15.67	100.74	38.44		50.0	
10026-	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Z	29.43 18.92	124.69	47.97	0.50	50.0	. 0.00/
DAC	EDGE-FDD (TDMA, 8PSK, TN U-1)	X		96.32	32.19	9.56	60.0	± 9.6 %
		Y	17.33	101.02	35.08		60.0	
10027-	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	Z X	24.89 24.19	113.23 95.70	39.81 24.33	4.80	60.0 80.0	± 9.6 %
DAC		Y	100.00	119.30	30.03		00.0	
		Z	100.00	120.36	30.03		80.0 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 %
		Υ	100.00	119.83	29.45		100.0	
		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- CAA	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 %
JAA		Y	100.00	118.49	29.99		70.0	<u>'</u>
		Z	100.00	118.88	29.80		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	116.01	27.12	1.88	100.0	± 9.6 %
		Y	100.00	121.13	28.42		100.0	
		Z	100.00	126.03	30.32		100.0	

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	100.00	119.38	27.36	1.17	100.0	± 9.6 %
UAA		Y	100.00	126.54	29.58	1	400.0	
****		Z	100.00				100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	X	13.27	136.16 88.21	33.43 24.10	5.30	100.0 70.0	± 9.6 %
CAA	DH1)	Υ	00.04	00.00	07.40		70.0	
<del></del>		Z	20.91 58.05	99.02 115.59	27.13		70.0	
10034-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	X	16.18	96.67	31.27 25.44	4.00	70.0	1000
CAA	DH3)					1.88	100.0	± 9.6 %
		Y	10.83	91.57	22.94		100.0	
10035-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	Z	52.78 12.45	113.06	28.24	4.45	100.0	
CAA	DH5)			95.04	24.79	1.17	100.0	± 9.6 %
		Y	5.49	83.70	20.10		100.0	
10036-	IEEE 900 45 4 Divisto att (0 DDCK DUA)	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	
40007	LEEE 000 45 4 DL	Z	95.10	123.67	33.30		70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Х	15.98	96.45	25.32	1.88	100.0	± 9.6 %
		Υ	9.62	89.98	22.43		100.0	
10000		Z	37.04	108.35	27.08		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	13.91	96.94	25.41	1.17	100.0	± 9.6 %
		Υ	5.69	84.50	20.47		100.0	
		Z	19.52	101.18	25.01		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	X	3.28	80.46	20.53	0.00	150.0	± 9.6 %
		Υ	1.92	73.09	15.89		150.0	-
		Z	3.08	80.13	18.22		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	Х	11.60	82.51	21.10	7.78	50.0	± 9.6 %
		Y	100.00	118.83	31.00		50.0	
		Ż	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 %
		Υ	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)	Х	10.75	78.30	22.86	13.80	25.0	± 9.6 %
		Y	15.61	90.30	26.65		25.0	-
		Z	32.75	104.57	30.45		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	Х	10.92	80.23	22.15	10.79	40.0	± 9.6 %
		Υ	20.87	96.36	27.22	··	40.0	
		Z	64.62	115.72	32.06		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	Х	11.51	81.76	22.84	9.03	50.0	± 9.6 %
		Y	15.28	90.93	25.77		50.0	
		Z	25.94	101.11	28.65		50.0	<del>                                     </del>
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	Х	14.19	91.88	29.00	6.55	100.0	± 9.6 %
		Υ	8.68	86.53	28.09		100.0	
		Z	9.12	89.51	29.70		100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	Х	2.01	72.72	19.70	0.61	110.0	± 9.6 %
		Y	1.51	67.62	17.16		110.0	
		Z	1.56	68.78	17.10		110.0	<del>                                     </del>
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	126.29	32.07	1.30	110.0	± 9.6 %
		Υ	100.00	132.71	34.39	<u>.</u>	1100	
		Z	100.00				110.0	
			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	1	110.0	<del> </del>
		Z	22.12	112.16	32.18		110.0	† ···
10062- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	Х	5.03	67.33	17.05	0.49	100.0	± 9.6 %
··		Y	4.77	67.19	16.82		100.0	
10000	1777	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	
10064-	IEEE 000 44-% MEE COLL (OFD) 4 40	Z	4.74	67.68	17.11		100.0	
CAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 12 Mbps)	Х	5.47	67.93	17.49	0.86	100.0	± 9.6 %
		Y	5.10	67.63	17.20		100.0	
10065-	IEEE 900 440/h WIELE OUT (OFD) 4 40	Z	5.00	67.90	17.32		100.0	
CAB	IEEE 802.11a/n 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	
10066-	JEEE 902 440% WEELS OUT (OFFICE)	Z	4.92	67.92	17.50		100.0	
CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.49	68.31	17.98	1.46	100.0	± 9.6 %
<u> </u>		Y	5.08	67.82	17.62		100.0	
10067-	IFFE 000 44 # MEET FOLL (OFFILE 04	Z	4.97	68.04	17.73		100.0	
CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	Х	5.84	68.47	18.45	2.04	100.0	± 9.6 %
		Y	5.42	68.13	18.14		100.0	
40000	IEEE OOG 44 S MINE IN OUR 10 TO THE	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 %
		Υ	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 %
		Υ	5.22	67.75	17.96		100.0	
		Z	<u>5</u> .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 %
		Υ	5.28	68.28	18.29		100.0	
40070		<u> </u>	5.18	68.53	18.42		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	Х	5.93	69.43	19.17	2.83	100.0	± 9.6 %
		Y	5.43	68.68	18.74		100.0	
40074	LEEF 000 44 MEET 0 1 000	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	
40075	LEGE 000 44 MINE O 1 O 1	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	
40020	LEEE COO 44 INCE C. C.	Z	5.49	69.37	19.56		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	Х	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)	Х	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-	CDMA2000 (1xRTT, RC3)	X	1.62	75.66	18.40	0.00	150.0	± 9.6 %
CAB		<del>  _</del>	0.07	66.74	40.00		450.0	
		Y Z	0.87 1.13	66.71 71.02	12.69 14.45		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	3.53	66.20	10.93	4.77	150.0 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 %
		<u> </u>	100.00	120.23	31.42		60.0	
10007		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	
10098-	LIMITO EDD (LICHDA CLaLO)	Z	2.04	70.38	16.98		150.0	
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	
10099-	EDGE-FDD (TDMA, 8PSK, TN 0-4)	Z	2.00	70.37	16.98		150.0	
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	
10100-	LTE-FDD (SC-FDMA, 100% RB, 20	Z	24.81	113.10	39.77		60.0	
CAD	MHz, QPSK)	X	3.84	73.61	18.19	0.00	150.0	± 9.6 %
		Y	3.15	70.58	16.91		150.0	
10101-	LTE CDD (CC CDMA 4000) DD 00	Z	3.25	71.69	17.61		150.0	
CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	Х	3.58	69.11	16.83	0.00	150.0	± 9.6 %
		Y	3.26	67.74	16.10		150.0	
10102-	LTE-FDD (SC-FDMA, 100% RB, 20	Z X	3.26 3.66	68.29 68.88	16.47 16.84	0.00	150.0 150.0	±9.6 %
CAD	MHz, 64-QAM)	1	0.00					
		Y	3.36	67.71	16.19		150.0	
10103-	LTE-TDD (SC-FDMA, 100% RB, 20	Z	3.36	68.23	16.52		150.0	
CAD	MHz, QPSK)	X	9.75	77.78	20.81	3.98	65.0	± 9.6 %
<del></del>		Y	8.78	79.16	21.83		65.0	
10104-	LTE TOD (CC EDMA 400% DD 00	Z	9.34	81.38	22.82		65.0	
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	
10105-	LTE-TDD (SC-FDMA, 100% RB, 20	<u> </u>	8.44	78.16	22.31		65.0	
CAD	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	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	8.27 3.37	77.70 72.69	22.41 18.02	0.00	65.0 150.0	± 9.6 %
		Y	2.75	69.90	16.77		150.0	
		z	2.82	71.09	17.51		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 %
	<u> </u>	Y	2.91	67.66	16.01		150.0	
		Z	2.92	68.36	16.42	<u> </u>	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 %
		Υ	2.23	69.12	16.39		150.0	
		Z	2.31	70.62	17.23		150.0	<del></del>
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	2.96	69.58	17.27	0.00	150.0	± 9.6 %
		Υ	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)	Х	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)	Х	3.10	69.46	17.27	0.00	150.0	± 9.6 %
		Y	2.78	68.78	16.44		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 %
		Υ	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)	Х	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)	Х	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)	Х	5.44	67.84	16.78	0.00	150.0	± 9.6 %
		Υ	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)	Х	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)	Х	3.82	68.79	16.84	0.00	150.0	± 9.6 %
		Υ	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)	Х	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)	Х	2.89	70.53	17.42	0.00	150.0	± 9.6 %
		Υ	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)	Х	2.69	68.52	16.05	0.00	150.0	± 9.6 %
		Υ	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)	Х	2.07	72.06	16.97	0.00	150.0	± 9.6 %
		Υ	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 %
		Υ	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)	Х	5.86	81.36	20.54	0.00	150.0	± 9.6 %
		Υ	2.26	68.50	12.73	t	450.0	<del></del>
	l .	1 1 1	4.20	00.00	1 12.73		150.0	

Y   2.92   67.72   16.05   150.0   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   10100   1	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 %
10150-			Y	2.92	67.72	16.06		150.0	<del> </del>
10150						+			<u> </u>
T10151-							0.00		± 9.6 %
TIE-TDD (SC-FDMA, 50% RB, 20 MHz, CAD   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.00   16.0			Υ	3.04	67.71	16.11		150.0	
10161-   LTE-TDD (SC-FDMA, 50% RB, 20 MHz, CAD   Y   9.54   82.00   22.95   65.0   \$2.96 %			Z						<u> </u>
Total							3.98		± 9.6 %
Total			Y	9.54	82.00	22.98		65.0	
Tief-TDD (SC-FDMA, 50% RB, 20 MHz, CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD			Z	10.52					
10153-   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   C							3.98		± 9.6 %
10153- CAD 64-QAM)  10163- CAD 64-QAM)  10164- CAE CAB 64-QAM, 60% RB, 20 MHz, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM, CAE CAB 64-QAM,				8.05		21.53		65.0	-
CAD         64-QAM)         Y         8.51         78.32         22.28         65.0           10154-CAE         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)         X         2.864         79.68         22.87         65.0           10155-CAE         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)         X         2.28         69.53         16.65         150.0           10155-CAE         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, GAB)         X         2.96         69.57         17.27         0.00         150.0         ± 9.6 %           10156-CAE         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, ABB)         X         2.96         69.57         17.27         0.00         150.0         ± 9.6 %           10156-CAE         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, ABB)         X         2.00         72.75         18.17         0.00         150.0         ± 9.6 %           10157-CAE         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, ABB)         X         2.00         71.53         16.72         150.0         150.0         ± 9.6 %           10157-CAE         LTE-FDD (SC-FDMA, 50% RB, 5 MHz, ABB)         X         2.00         71.53         16.72         150.0         150.0         ± 9.6 %           10168-CAE         LTE-FDD (SC-FDMA, 50% RB, 10 MHz, ABB)         X         2.211         66.66			Z	8.15	78.63	22.11			
TLF-FDD (SC-FDMA, 50% RB, 10 MHz, CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE					ŀ	21.96	3.98	65.0	± 9.6 %
TeffD (SC-FDMA, 50% RB, 10 MHz, CAE   QPSK)			İΥ	8.51	78.32	22.28		65.0	·
10154- CAE QPSK)  LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)  LTE-FDD (SC-FDMA, 50% RB, 10 MHz, ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACCAE ACC				8.64					<u> </u>
TE-FDD (SC-FDMA, 50% RB, 10 MHz,						1.	0.00		± 9.6 %
Total								150.0	
10155-   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   CAE   C	101==							150.0	
Total					69.57	Ĺ	0.00	150.0	± 9.6 %
10156-   CAE								150.0	
CAE QPSK)  Y 1.86 69.32 15.77 150.0  I 150.0  Z 2.00 71.53 16.72 150.0  10157- CAE 16-QAM)  Y 2.07 67.52 14.21 150.0  Y 2.07 67.52 14.21 150.0  LTE-FDD (SC-FDMA, 50% RB, 10 MHz, X 3.11 69.51 17.31 0.00 150.0 ±9.6 %  Y 2.79 68.85 16.49 150.0  LTE-FDD (SC-FDMA, 50% RB, 5 MHz, X 2.70 69.94 16.71 0.00 150.0 ±9.6 %  CAE 4-QAM)  Y 2.79 68.85 16.49 150.0  LTE-FDD (SC-FDMA, 50% RB, 5 MHz, X 2.70 69.94 16.71 0.00 150.0 ±9.6 %  Y 2.17 67.94 14.47 150.0  LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.17 70.70 17.47 0.00 150.0 ±9.6 %  CAD LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.17 70.70 17.47 0.00 150.0 ±9.6 %  Y 2.80 69.22 16.63 150.0  LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.25 68.62 16.80 0.00 150.0 ±9.6 %  LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.34 68.54 16.80 0.00 150.0 ±9.6 %  CAD LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.34 68.54 16.80 0.00 150.0 ±9.6 %  Y 2.93 67.68 16.03 150.0  LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.34 68.54 16.80 0.00 150.0 ±9.6 %  CAD LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.34 68.54 16.80 0.00 150.0 ±9.6 %  CAD LTE-FDD (SC-FDMA, 50% RB, 14 MHz, X 3.04 67.85 16.15 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 1	101					16.88		150.0	
Total					72.75	18.17	0.00	150.0	± 9.6 %
Tie-Fdd (SC-Fdma, 50% RB, 5 MHz, CAE   LTE-Fdd (SC-Fdma, 50% RB, 10 MHz, CAE   LTE-Fdd (SC-Fdma, 50% RB, 10 MHz, CAE   LTE-Fdd (SC-Fdma, 50% RB, 10 MHz, CAE   LTE-Fdd (SC-Fdma, 50% RB, 10 MHz, CAE   LTE-Fdd (SC-Fdma, 50% RB, 5 MHz, CAE   LTE-Fdd (SC-Fdma, 50% RB, 5 MHz, CAE   LTE-Fdd (SC-Fdma, 50% RB, 5 MHz, CAE   LTE-Fdd (SC-Fdma, 50% RB, 5 MHz, CAE   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAE   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAE   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 15 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (SC-Fdma, 50% RB, 14 MHz, CAB   LTE-Fdd (				1.86	69.32	15.77		150.0	
10157-   CAE			Z	2.00	71.53	16.72			
Total						16.46	0.00		± 9.6 %
10168- CAE			_		67.52			150.0	
CAE 64-QAM)  Y 2.79 68.85 16.49 150.0  10159- CAE 64-QAM)  LTE-FDD (SC-FDMA, 50% RB, 5 MHz, X 2.70 69.94 16.71 0.00 150.0 ±9.6 %  Y 2.17 67.94 14.47 150.0  10160- CAD QPSK)  Y 2.80 69.22 16.63 150.0  Y 2.80 69.22 16.63 150.0  Y 2.80 69.22 16.63 150.0  LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 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  LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.25 68.62 16.80 0.00 150.0 ±9.6 %  Y 2.93 67.68 16.03 150.0  LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.34 68.54 16.82 150.0  LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.34 68.54 16.80 0.00 150.0 ±9.6 %  Y 3.04 67.85 16.15 150.0  LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 4.29 71.19 20.11 3.01 150.0 ±9.6 %  Y 3.58 69.86 19.45 150.0  LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 4.29 71.19 20.11 3.01 150.0 ±9.6 %  LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 4.29 71.19 20.11 3.01 150.0 ±9.6 %  LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 4.29 71.19 20.11 3.01 150.0 ±9.6 %  LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 4.29 71.19 20.11 3.01 150.0 ±9.6 %  LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 4.29 71.19 20.11 3.01 150.0 ±9.6 %  LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 5.65 74.34 20.64 3.01 150.0 ±9.6 %	10180			_				150.0	
10159-   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAD   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, CAE   LTE-FDD (SC-FDMA, 50% RB, 14 MHz, C							0.00		± 9.6 %
10159-   LTE-FDD (SC-FDMA, 50% RB, 5 MHz, CAE   64-QAM)								150.0	
CAE 64-QAM)  Y 2.17 67.94 14.47 150.0  Z 2.21 69.05 14.68 150.0  LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.17 70.70 17.47 0.00 150.0 ±9.6 %  QPSK)  Y 2.80 69.22 16.63 150.0  Z 2.84 70.27 17.24 150.0  LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.25 68.62 16.80 0.00 150.0 ±9.6 %  Y 2.93 67.68 16.03 150.0  Z 2.94 68.43 16.42 150.0  LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.34 68.54 16.80 0.00 150.0 ±9.6 %  Y 3.04 67.85 16.15 150.0  LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 4.29 71.19 20.11 3.01 150.0 ±9.6 %  Y 3.58 69.86 19.45 150.0  LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 4.29 71.19 20.11 3.01 150.0 ±9.6 %  LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 4.29 71.19 20.11 3.01 150.0 ±9.6 %  LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 4.29 71.19 20.11 3.01 150.0 ±9.6 %  LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 5.65 74.34 20.64 3.01 150.0 ±9.6 %						16.99	"	150.0	
10160-   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)					L		0.00	150.0	± 9.6 %
Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tight   Tigh			Y	2.17	67.94	14.47		150.0	
CAD QPSK)  Y 2.80 69.22 16.63 150.0  IT-17 150.0  Z 2.84 70.27 17.24 150.0  10161- CAD 16-QAM)  Y 2.93 67.68 16.03 150.0  Z 2.94 68.43 16.42 150.0  IT-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.34 68.54 16.80 0.00 150.0 ± 9.6 %  Y 3.04 67.85 16.15 150.0  IT-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 3.05 68.62 16.54 150.0  IT-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 3.34 69.55 19.26 150.0  IT-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 3.34 69.55 19.26 150.0  IT-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 3.34 69.55 19.26 150.0  IT-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 3.34 69.55 19.26 150.0  IT-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 5.65 74.34 20.64 3.01 150.0 ± 9.6 %  IT-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 5.65 74.34 20.64 3.01 150.0 ± 9.6 %	40400					14.68		150.0	
10161-CAD		1				17.47	0.00		± 9.6 %
10161-CAD LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.25 68.62 16.80 0.00 150.0 ± 9.6 % Y 2.93 67.68 16.03 150.0								150.0	
CAD 16-QAM)  Y 2.93 67.68 16.03 150.0  Z 2.94 68.43 16.42 150.0  10162- CAD 64-QAM)  Y 3.04 67.85 16.15 150.0  Y 3.05 68.62 16.54 150.0  10166- CAE QPSK)  Y 3.58 69.86 19.45 150.0  Y 3.58 69.86 19.45 150.0  Z 3.34 69.55 19.26 150.0  Y 4.34 72.64 19.86 150.0	10161-	LTF-FDD (SC-FDMA 50% PR 15 MU-					0.00		
10162-   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   CAD   LTE-FDD (SC-FDMA, 50% RB, 15 MHz, CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD   CAD							0.00		± 9.6 %
10162- CAD LTE-FDD (SC-FDMA, 50% RB, 15 MHz, X 3.34 68.54 16.80 0.00 150.0 ± 9.6 % Y 3.04 67.85 16.15 150.0 2 3.05 68.62 16.54 150.0 150.0 ± 9.6 % CAE QPSK) Y 3.58 69.86 19.45 150.0 150.0 ± 9.6 % QPSK) Y 3.58 69.86 19.45 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 1									
CAD 64-QAM)  Y 3.04 67.85 16.15 150.0  10166- CAE QPSK)  Y 3.58 69.86 19.45 150.0  Y 3.58 69.55 19.26 150.0  LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 5.65 74.34 20.64 3.01 150.0 ± 9.6 %  Y 4.34 72.64 19.86 150.0	10162-	LTE-EDD (SC-EDMA 50% DB 45 MU-					0.00		
10166- LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 4.29 71.19 20.11 3.01 150.0 ± 9.6 % QPSK)  Y 3.58 69.86 19.45 150.0  Z 3.34 69.55 19.26 150.0  10167- LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 5.65 74.34 20.64 3.01 150.0 ± 9.6 % Y 4.34 72.64 19.86 150.0							0.00		± 9.6 %
10166- CAE QPSK)  Y 3.58 69.86 19.45 150.0  Y 3.58 69.55 19.26 150.0  LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 5.65 74.34 20.64 3.01 150.0 ± 9.6 %  Y 4.34 72.64 19.86 150.0									
Y 3.58 69.86 19.45 150.0    Z 3.34 69.55 19.26 150.0     X 5.65 74.34 20.64 3.01 150.0     Y 4.34 72.64 19.86 150.0     Y 4.34 72.64 19.86 150.0							3.01		± 9.6 %
10167- LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, X 5.65 74.34 20.64 3.01 150.0 ± 9.6 % Y 4.34 72.64 19.86 150.0			† <del>v  </del>	3.58	60.86	10.45		150.0	
10167- CAE 16-QAM)			/						
Y 4.34 72.64 19.86 150.0							3.01		± 9.6 %
			$\vdash_{V}$	4.34	72.64	10.86	· .	150.0	
			ż	3.97	72.28	19.65		150.0	

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	6.08	75.90	21.58	3.01	150.0	± 9.6 %
		Y	4.83	75.01	21.26		150.0	
		Z	4.38	74.50	20.98		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	4.41	74.54	21.42	3.01	150.0	± 9.6 %
		Υ	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	
10172-	LTC TDD (CC CDMA 4 DD CO MIL-	Z	2.94	69.58	18.14		150.0	
CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	25.76	101.07	30.32	6.02	65.0	± 9.6 %
		Y	18.45	102.75	32.10		65.0	
10172	LTC TDD /CC CDMA 4 DD CO MIL	Z	20.86	107.70	33.85	0.22	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	
10174-	LTE TOD (SO FDMA 4 DD CO MIL	Z	28.49	108.55	32.12	0.00	65.0	
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	
10175	LTE EDD (CC EDMA 4 DD 40 MU)	Z	22.92	103.28	30.05		65.0	2.20
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	4.34	74.12	21.15	3.01	150.0	±9.6 %
<del> </del>		Υ	2.93	68.55	18.79		150.0	
101-0		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)	Х	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)	Х	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	
10180-	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-	Z X	3.16 5.47	71.11 76.42	19.23 20.86	3.01	150.0 150.0	± 9.6 %
CAE	QAM)	Y	3.28	70.40	18.53		150.0	<u>.</u>
		Z	2.94	69.55	18.53	<del> </del>	150.0	l l
10181-	LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	X	4.38	74.30	21.25	3.01	150.0	± 9.6 %
CAD	QPSK)	^   Y			18.87	3.01		£ 9.0 %
		Z	2.95	68.67			150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	2.71 6.58	67.86 80.48	18.43 23.29	3.01	150.0 150.0	± 9.6 %
J, 15	10 Strain	ΤΥ	3.88	74.00	21.08		150.0	<u> </u>
	1	Z	3.40	72.59	20.42	<del> </del>	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 %
7010	O'T WAITI)	T	3.28	70.38	18.52		150.0	
		Z	2.93	69.53	18.11	<del> </del>	150.0	
	I	; 4	4.30	1 09.00	1 10.11	<u> </u>	1 130.0	l

10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	4.39	74.34	21.27	3.01	150.0	± 9.6 %
UNU	Qi JNJ	Y	0.00	00 74	40.00	1	<del> </del>	
		_	2.96	68.71	18.89		150.0	
10185-	LTE EDD (SC EDMA 4 DD 0 MILE 40	Z	2.72	67.89	18.44		150.0	
CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	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 %
		Y	3.29	70.44	18.55		150.0	
		Ζ	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 %
		Υ	2.97	68.77	18.95		150.0	-
		Ζ	2.73	67.95	18.51		150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	6.86	81.30	23.70	3.01	150.0	± 9.6 %
		Y	4.01	74.64	21.46		150.0	
		Z	3.49	73.09	20.74		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	5.63	76.95	21.16	3.01	150.0	± 9.6 %
		Υ	3.36	70.82	18.81		150.0	· · ·
		Z	3.00	69.90	18.37		150.0	
10193- CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	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)	Х	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 %
		Y	4.74	67.22	16.44		150.0	
		Z	4.67	67.55	16.61	<del></del>	150.0	
10196- CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	Х	4.79	67.12	16.61	0.00	150.0	± 9.6 %
		Y	4.53	66.94	16.30		150.0	
<u>.</u>		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)	Х	5.02	67.39	16.66	0.00	150.0	± 9.6 %
		Υ	4.74	67.23	16.45		150.0	- "
		Z	4.67	67.55	16.61		150.0	<del></del>
10219- CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	Х	4.75	67.15	16.58	0.00	150.0	± 9.6 %
		Υ	4.48	66.96	16.27		150.0	·
		Z	4.43	67.33	16.43		150.0	
10220- CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	Х	5.00	67.42	16.67	0.00	150.0	± 9.6 %
		Υ	4.70	67.17	16.42		150.0	··· <u> </u>
		Z	4.63	67.50	16.58		150.0	
10221- CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	Х	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	
1000	IEEE 802.11n (HT Mixed, 15 Mbps,	Х	5.32	67.70	16.79	0.00	150.0	± 9.6 %
10222- CAB	BPSK)	^	0.02	07.70	10.70	0.00	100.0	= 0.0 70
		Y	5.10	67.32	16.56		150.0	

10223- CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	Х	5.69	67.90	16.90	0.00	150.0	± 9.6 %
		Y	5.41	67.62	16.73		450.0	ļ
		$\frac{1}{Z}$	5.32	67.79			150.0	
10224- CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.40	67.86	16.83 16.79	0.00	150.0 150.0	± 9.6 %
		Y	5.14	67.44	16.54	<del>                                     </del>	150.0	
		Ż	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	<u> </u>	150.0	
		Z	2.79	67.13	15.62		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	19.62	92.68	26.54	6.02	65.0	± 9.6 %
		Υ	28.14	106.53	31.60		65.0	
		Z	30.74	110.09	32.63	<u> </u>	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 %
		Υ	25.62	103.45	30.17		65.0	
40000	LITE TOP (OA)	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	
40000	1.75.700 (00.50) (4.77.0)	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 %
		Υ	26.37	105.18	31.14		65.0	
40000	177 700 400 700 400	Z	28.56	108.58	32.13		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	16.99	89.27	25.02	6.02	65.0	± 9.6 %
		Υ	24.08	102.25	29.76		65.0	
40004		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)	Х	19.21	92.23	26.33	6.02	65.0	± 9.6 %
		Υ	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 %
		Υ	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	
4000	1.TE TOD (00 501/1 4 50 10 10)	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	
40000	1 TC TDD (00 EDM) 4 DD 40 101	Z	28.68	108.68	32.16		65.0	. 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	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	26.05 24.65	105.43 100.72	30.64 30.28	6.02	65.0 65.0	± 9.6 %
UND	Set Oily	Y	21.67	106.26	33.17	1	65.0	
		Z	22.28	100.20	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 %
J, (D	10 00 1111)	Y	26.34	105.18	31.13		65.0	
		<u> </u>	28.55	108.60	32.14		65.0	
	1	1	20.00	100.00	UZ.14	1	1 00.0	1

10240- CAD	64-QAM)	\ \ \ \ \ \					1	
		ΙΥΙ	24.00	102.22	29.75		65.0	
		ż	25.68	105.23	30.60		65.0	
	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	24.60	100.69	30.26	6.02	65.0	± 9.6 %
		Υ	21.61	106.21	33.16		65.0	
		Ζ	22.24	109.18	34.27		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	14.83	87.15	27.43	6.98	65.0	± 9.6 %
		Υ	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 %
		Υ	11.07	85.73	27.03		65.0	
		Ζ	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 %
		Υ	8.91	82.53	26.67		65.0	
		Z	9.40	85.62	28.06		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	10.84	80.28	21.46	3.98	65.0	± 9.6 %
		Υ	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)	Х	10.80	80.00	21.33	3.98	65.0	± 9.6 %
		Υ	8.32	78.30	19.47		65.0	I
		Ζ	7.01	75.95	17.75		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	10.19	81.67	21.72	3.98	65.0	± 9.6 %
		Υ	9.19	82.92	21.40		65.0	
		Ζ	10.28	85.26	21.82		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	9.24	78.33	20.99	3.98	65.0	± 9.6 %
		Υ	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)	Х	9.29	78.02	20.88	3.98	65.0	± 9.6 %
		Υ	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 %
		Υ	10.94	86.37	23.51		65.0	
		Ζ	13.59	90.89	24.82		65.0	
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	9.84	79.38	22.27	3.98	65.0	± 9.6 %
		Y	8.59	80.24	22.59		65.0	
		Z	8.91	81.95	23.17		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	9.48	77.77	21.45	3.98	65.0	± 9.6 %
		Υ	7.96	77.76	21.28		65.0	
		Z	8.06	79.03	21.69		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	10.35	81.23	22.32	3.98	65.0	± 9.6 %
		Υ	10.67	85.75	24.25		65.0	
		Z	12.80	90.26	25.85		65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	9.41	77.10	21.37	3.98	65.0	± 9.6 %
		Υ	7.89	76.83	21.30		65.0	
		Z	7.98	78.11	21.82		65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	9.73	77.64	21.86	3.98	65.0	± 9.6 %
		Y	8.31	77.74	21.96		65.0	<u> </u>
		Ż	8.42	79.03	22.48		65.0	-

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	<b>-</b>
		Z	10.10	84.50	24.17	<u> </u>	65.0	<del> </del>
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	
		Z	5.38	71.84	15.02		65.0	-
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	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)	Х	9.84	80.89	21.06	3.98	65.0	± 9.6 %
		Υ	6.93	77.80	18.67		65.0	
100-0		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	
		Z	8.05	79.67	21.05		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	9.52	78.48	21.39	3.98	65.0	± 9.6 %
		Υ	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 %
		Υ	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 %
		Υ	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 %
		Υ	7.94	77.74	21.28		65.0	
		Z	8.05	79.01	21.68		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Х	10.32	81.15	22.28	3.98	65.0	± 9.6 %
		Υ	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)	Х	9.59	77.50	21.45	3.98	65.0	± 9.6 %
		Υ	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 %
		Υ	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)	Х	9.88	78.96	21.38	3.98	65.0	± 9.6 %
		Υ	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)	Х	9.95	76.96	21.54	3.98	65.0	± 9.6 %
		Y	8.52	76.88	21.79		65.0	
		Z	8.53	77.92	22.30		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	9.89	76.68	21.52	3.98	65.0	± 9.6 %
		Υ	8.46	76.46	21.67		65.0	
		Z	8.45	77.44	22.15		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	9.66	77.24	20.86	3.98	65.0	± 9.6 %
		Υ	8.81	78.78	21.90		65.0	
		Z	9.16	80.58	22.73		65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	Х	2.74	67.26	16.17	0.00	150.0	± 9.6 %
		Y	2.61	66.92	15.38		150.0	1
		Z	2.66	67.94	15.80		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	Х	2.05	72.21	18.03	0.00	150.0	± 9.6 %
		Y	1.65	68.50	15.87		150.0	
		Z	1.80	70.74	17.08		150.0	
10277- CAA	PHS (QPSK)	Х	8.03	72.61	16.76	9.03	50.0	± 9.6 %
		Y	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 %
		Υ	8.21	77.64	19.35		50.0	
		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 %
		Υ	8.29	77.74	19.41		50.0	
		Z	7.68	77.01	18.42		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	Х	2.46	75.92	18.53	0.00	150.0	± 9.6 %
		Υ	1.45	69.17	13.90		150.0	
		Z	1.74	72.52	15.01		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	Х	1.54	75.02	18.13	0.00	150.0	± 9.6 %
		Υ	0.85	66.46	12.55		150.0	
		Ζ	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 %
		Υ	1.20	72.00	15.52		150.0	
		Z	3.37	86.48	20.58		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	
		Z	91.77	132.75	32.89		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	Х	11.42	82.00	23.75	9.03	50.0	± 9.6 %
		Y	13.54	88.04	25.23		50.0	
		Z	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 %
		Υ	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 %
		Υ	1.54	67.89	13.96		150.0	
10000		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 %
		Υ	2.70	70.48	14.61		150.0	
		Z	1.96	66.96	12.10		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	3.49	71.59	16.26	0.00	150.0	± 9.6 %
		Υ	1.91	65.24	11.36		150.0	
		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 %
		Υ	5.68	68.74	18.85		80.0	
		Ζ	5.70	69.67	19.26		80.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms,	Х	7.28	71.73	21.22	4.96	80.0	± 9.6 %
AAA		1						ĺ
	10MHz, QPSK, PUSC, 3 CTRL symbols)	Y	6.10	69.04	19.43		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 %
		Y	5.94	69.06	19.41	F	80.0	
		Z	5.89	69.82	19.76		80.0	<del> </del>
10304- AAA	1EEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	Х	6.69	70.97	20.39	4.17	80.0	± 9.6 %
		Y	5.59	68.42	18.66	· · · · · · · · · · · · · · · · · · ·	80.0	
		Z	5.56	69.20	19.00		80.0	<u> </u>
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)	Х	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	
4000		Z	7.49	77.77	23.93		50.0	
10308- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	Х	10.67	82.66	26.55	6.02	50.0	± 9.6 %
		Υ	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)	Х	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)	Х	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)	Х	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	Х	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	Х	10.06	79.94	21.38	10.00	30.0	± 9.6 %
		Υ	12.66	89.89	25.48		30.0	
		Ζ	20.06	99.62	28.65		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	Х	1.30	67.68	17.69	0.17	150.0	± 9.6 %
		Υ	1.18	64.90	15.80		150.0	
		Ζ	1.23	65.94	16.59		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Х	4.90	67.26	16.78	0.17	150.0	± 9.6 %
		Υ	4.64	67.10	16.54		150.0	
		Ζ	4.58	67.43	16.69		150.0	
10317- AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	Х	4.90	67.26	16.78	0.17	150.0	± 9.6 %
		Y	4.64	67.10	16.54		150.0	
		Ζ	4.58	67.43	16.69		150.0	
10400- AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	5.01	67.47	16.66	0.00	150.0	± 9.6 %
		Υ	4.68	67.24	16.42		150.0	
		Z	4.61	67.58	16.60		150.0	
10401- AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	Х	5.58	67.43	16.66	0.00	150.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	•		•			1	
		Y	5.46	67.62	16.70		150.0	

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 %
7010	33pc daty cycle)	Y	5.66	67.67	16.50		450.0	
		Z	5.60	67.87	16.59 16.71		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	2.46	75.92	18.53	0.00	150.0 115.0	± 9.6 %
-		Y	1.45	69.17	13.90		115.0	
		Z	1.74	72.52	15.01		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	Х	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 %
		Υ	96.63	125.46	32.24		100.0	
40440	1.75 700 (0.0 50.11)	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	IFFE 000 441 MISTON OF A COLUMN	Z	100.00	124.20	31.74		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	Х	1.01	64.64	16.23	0.00	150.0	± 9.6 %
		Υ	1.03	63.36	14.90		150.0	
40440		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)	Х	4.76	67.00	16.58	0.00	150.0	± 9.6 %
		Y	4.53	66.92	16.37		150.0	
40447	1555 000 44 5 1195 5 011 40 5 11	Z	4.48	67.28	16.53		150.0	
10417- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	Х	4.76	67.00	16.58	0.00	150.0	± 9.6 %
		Υ	4.53	66.92	16.37		150.0	
10440	IEEE 000 44 MEET 0 4 OUT (DOOD	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	
10110		Z	4.48	67.49	16.59		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	Х	4.77	67.10	16.59	0.00	150.0	± 9.6 %
		Υ	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	
40.400	1255 000 44 3355	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 %
		Υ	4.81	67.33	16.51		150.0	
40407		Z	4.74	67.65	16.67		150.0	
10424- AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	5.04	67.47	16.71	0.00	150.0	± 9.6 %
		Y	4.74	67.28	16.49		150.0	
10405	IEEE 000 44% (UE CO. C. L. 45.1%	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	
10400	WTT 000 44 // 77 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 %
		Υ	5.40	67.74	16.76		150.0	
	1	Z	5.31	67.91	16.86		150.0	

10427- AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.65	67.92	16.88	0.00	150.0	± 9.6 %
		Y	5.39	67.63	10.70		450.0	
		Z	5.28	67.70	16.70 16.75		150.0	
10430-	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.50	70.33	18.46	0.00	150.0 150.0	1069/
AAB		Y	4.28	<u></u>		0.00		± 9.6 %
		Z	4.28	71.46 72.32	18.38		150.0	
10431-	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.28	67.66	18.56	0.00	150.0	
AAB	2.2.1 DB (01 BHB1), 10 141(12, E-114( 0.1)				16.75	0.00	150.0	± 9.6 %
		Y Z	4.19	67.51	16.33		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.12 4.83	67.97 67.55	16.50 16.72	0.00	150.0 150.0	± 9.6 %
·· <u></u> -		Y	4.50	67.35	16.43		150.0	
		Ż	4.43	67.74	16.61		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 %
		Y	4.75	67.32	16.51		150.0	
		Ż	4.68	67.64	16.67		150.0	***
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	Х	4.58	70.97	18.48	0.00	150.0	± 9.6 %
		Υ	4.39	72.38	18.32		150.0	
		Z	4.42	73.36	18.48		150.0	
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	73.07	112.66	29.06	3.23	80.0	± 9.6 %
		Υ	100.00	123.60	31.93		80.0	
		Z	100.00	123.98	31.64		80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.91	67.87	16.49	0.00	150.0	±9.6 %
		Y	3.47	67.50	15.53		150.0	
		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 %
		Υ	4.04	67.29	16.20		150.0	
		Z	3.99	67.77	16.38		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 %
		Υ	4.32	67.18	16.33		150.0	
		Z	4.27	67.58	16.51		150.0	
10450- 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 %
		Υ	4.52	67.08	16.36		150.0	
		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 %
		Υ	3.34	67.60	15.06		150.0	
		Z	3.25	68.08	15.03		150.0	
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 %
		Y	6.28	68.20	16.88		150.0	
10.15-		Z	6.24	68.43	17.01		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	×	3.87	65.68	16.38	0.00	150.0	±9.6%
		Y	3.81	65.57	16.07		150.0	
40.450	071140000 (4 51/50 5 5 5 5	Z	3.81	65.98	16.26		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	
404==	001140000 (4.5); 50.5	Z	2.97	66.93	13.99		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	Х	4.79	65.36	16.37	0.00	150.0	± 9.6 %
		Y	4.24	65.27	15.46		150.0	
		Z	4.13	65.72	15.38		150.0	

10460- AAA	UMTS-FDD (WCDMA, AMR)	Х	1.54	79.74	21.99	0.00	150.0	± 9.6 %
		Y	0.95	69.06	16.64		150.0	
		Ż	1.16	73.20	19.00		150.0	<u> </u>
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	30.59	3.29	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)	Х	100.00	108.76	26.18	3.23	80.0	± 9.6 %
		Y	100.00	111.69	26.26		0.08	
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 TOD (CO FDMA 4 OD O MU)	Z	9.38	82.48	17.38		80.0	
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	116.66	29.84	3.23	80.0	± 9.6 %
		Y	100.00	125.35	32.64		80.0	
10/65	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-	Z	100.00	125.94	32.43		80.0	
10465- AAA	QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.47	26.02	3.23	80.0	± 9.6 %
		_		111.17	26.01		80.0	
10466-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-	Z X	44.16	100.58	22.73	0.00	80.0	
AAA	QAM, UL Subframe=2,3,4,7,8,9)	Y	42.58 42.99	96.75 98.93	22.75	3.23	80.0	± 9.6 %
		Z	5.89		22.41		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	77.61 116.79	15.84 29.90	3.23	80.0 80.0	± 9.6 %
<del></del>		Υ	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 %
		Υ	46.06	99.70	22.59		80.0	
10.100		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 %
		Υ	100.00	125.63	32.76		80.0	
40474	LITE TOD (OO FD) IA A DD (O HILL A)	Z	100.00	126.25	32.56		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	108.53	26.05	3.23	80.0	± 9.6 %
		Y	100.00	111.31	26.07		80.0	
10472-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-	Z X	61.64 44.10	104.26 97.14	23.61	2.00	80.0	1000
AAC	QAM, UL Subframe=2,3,4,7,8,9)	Y	46.39		22.84	3.23	80.0	± 9.6 %
		Z	6.02	99.73 77.83			80.0	<u> </u>
10473-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz.	X	100.00	116.79	15.90 29.89	3.23	80.0	1000
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	Y	100.00	125.60	32.74	3.23	80.0	± 9.6 %
		Z	100.00	126.23	32.74		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 80.0	± 9.6 %
		Υ	100.00	111.32	26.07		80.0	
		Z	60.20	104.02	23.55	<del>''''</del> ,	80.0	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	43.66	97.03	22.81	3.23	80.0	± 9.6 %
		Υ	44.87	99.39	22.51		80.0	
		Z	5.94					

10477- AAÇ	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	108.43	26.00	3.23	80.0	± 9.6 %
,010	₩ W, OL GUDHAIHE-2,3,4,7,0,9)	Y	100.00	111.14	25.00		00.0	
		Z	48.11	101.47	25.99 22.92		80.0	
10478-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-	X	43.04	96.84	22.76	3.23	80.0 80.0	+069/
AAC	QAM, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
		Y	43.24	98.94	22.39		80.0	
10479-	LTC TOD (CC EDIMA FOR DD 4 AND	Z	5.86	77.55	15.80		80.0	
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 %
		Υ	47.63	113.17	30.89		80.0	
10480-	LTE TOD (OO EDIM 50% DD 4 4 ML)	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)	X	15.38	87.90	23.16	3.23	80.0	± 9.6 %
·		Y	35.80	101.51	25.84		80.0	
10101	1 TT TOD (00 FB) (4 FB)	Z	33.10	99.76	24.57		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	14.20	86.14	22.35	3.23	80.0	± 9.6 %
		Υ	23.64	94.76	23.60		80.0	
10		Z	17.83	90.68	21.64		80.0	
10482- 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 %
		Υ	6.54	80.66	19.81		80.0	
		Z	10.00	86.91	21.46		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 %
		Υ	9.59	82.56	20.08		80.0	
		Z	5.79	75.74	16.81		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 %
		Υ	8.15	80.18	19.27		80.0	
		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)	Х	11.03	86.44	23.15	2.23	80.0	± 9.6 %
•		Υ	6.87	82.16	21.41	<b></b>	80.0	
		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)	Х	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)	X	6.82	76.43	19.65	2.23	80.0	± 9.6 %
, , , , ,		Υ	4.85	73.54	17.65		80.0	<u> </u>
		Z	5.25	75.41	18.04		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	9.46	82.96	22.30	2.23	80.0	± 9.6 %
		Y	5.99	78.96	21.12		80.0	İ
		Z	6.82	82.33	22.47	İ	80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	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	<u> </u>	80.0	]
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	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	
		Z	5.84	77.68	21.00	1	80.0	
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	
		Ż	5.04	72.68	19.10	1	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		80.0	
		Z	5.05	72.38	18.97		80.0	<u> </u>
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	9.30	81.16	21.56	2.23	80.0	± 9.6 %
		Y	6.19	77.55	20.65		80.0	
		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	
		Ζ	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	
		Z	5.11	72.57	19.16		80.0	Ţ
10497- AAA	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	
		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)	Х	6.19	75.19	17.72	2.23	80.0	± 9.6 %
		Y	2.33	64.39	11.23		80.0	
		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	
		Z	1.70	61.64	9.07		80.0	<del></del>
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	9.69	83.97	22.50	2.23	80.0	± 9.6 %
		Y	6.26	80.30	21.12	"	80.0	
		Z	7.99	85,23	22.80		80.0	<del></del>
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	6.73	76.14	19.79	2.23	80.0	± 9.6 %
		Y	4.97	73.89	18.33	-	80.0	
		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)	Х	6.66	75.65	19.59	2.23	80.0	± 9.6 %
		Y	4.97	73.54	18.13		80.0	
		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 %
		Υ	5.90	78.70	21.01		80.0	
40501	1	Z	6.71	82.03	22.35		80.0	
10504- 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 %
		Y	4.88	73.08	18.84		80.0	
40502	LITE TOP (OO FOLL)	Z	5.07	74.71	19.47		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	6.52	74.79	19.72	2.23	80.0	± 9.6 %
		Y	4.91	72.71	18.70		80.0	
40500	LITE TOD (OO FOLIA (OCC) TO	Z	5.07	74.21	19.27		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	9.21	81.00	21.50	2.23	80.0	± 9.6 %
		Y	6.13	77.37	20.57		80.0	
40007	LTE TOD (OO FOLK)	Z	6.56	79.62	21.60		80.0	
10507- NAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.72	74.48	19.71	2.23	80.0	± 9.6 %
	2,011,110,01	Υ	5.07	72.03	18.82		80.0	

10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.65	73.80	19.50	2.23	80.0	± 9.6 %
		Y	5.09	71.58	18.67		80.0	
		Ž	5.09	72.48	19.12		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	8.15	77.43	20.26	2.23	80.0	± 9.6 %
		Υ	5.99	74.82	19.62		80.0	
		Z	6.17	76.24	20.35		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.94	73.36	19.32	2.23	80.0	± 9.6 %
		Υ	5.42	71.16	18.60		80.0	
		Z	5.37	71.81	18.97		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.87	72.87	19.19	2.23	80.0	± 9.6 %
··· .		Υ	5.44	70.83	18.50		80.0	
		Z	5.39	71.45	18.85		80.0	
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	9.41	80.22	21.09	2.23	80.0	± 9.6 %
		Υ	6.52	76.83	20.24		80.0	
10810	1.70 700 100 700	Z	6.84	78.58	21.10		80.0	
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	7.03	74.19	19.61	2.23	80.0	± 9.6 %
		Υ	5.36	71.56	18.76		80.0	
40-44		Z	5.31	72.21	19.14		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.85	73.42	19.39	2.23	80.0	± 9.6 %
		Υ	5.32	71.03	18.59		80.0	
		Z	5.27	71.61	18.94		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.98	65.05	16.44	0.00	150.0	± 9.6 %
		Y	1.00	63.56	14.97		150.0	
40546	1555 000 441 MEET 0 4 OUT /D000 5 5	Z	1.05	64.66	15.82		150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	100.00	168.11	45.87	0.00	150.0	± 9.6 %
		Y	0.67	71.83	18.15		150.0	
10517-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Z	1.04	80.65	22.82	0.00	150.0	1000
AAA	Mbps, 99pc duty cycle)		0.96	70.11	18.69	0.00	150.0	± 9.6 %
		Z	0.93	65.61 67.57	15.70 17.12		150.0 150.0	
10518- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.76	67.10	16.57	0.00	150.0	± 9.6 %
		Υ	4.53	67.01	16.35		150.0	
		Z.	4.47	67.38	16.53		150.0	
10519- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	5.02	67.44	16.72	0.00	150.0	± 9.6 %
		Υ	4.70	67.22	16.46		150.0	
		Z	4.63	67.55	16.62		150.0	
10520- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 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	
10521- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.48 4.79	67.50 67.47	16.54 16.66	0.00	150.0 150.0	± 9.6 %
, , , ,	impo, copo daty cycle)	Y	4.48	67.16	16.36		150.0	
		z	4.42	67.48	16.53		150.0	<b></b>
10522- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.82	67.32	16.63	0.00	150.0	± 9.6 %
		Υ	4.55	67.29	16.46		150.0	
			4.00	07.40	10.40		100.0	I

10523- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	Х	4.69	67.31	16.53	0.00	150.0	± 9.6 %
		Y	4.44	67.17	16.32	<del> </del>	150.0	
		Ż	4.39	67.59	16.54	<del>                                     </del>	150.0	<del>                                     </del>
10524- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.78	67.32	16.64	0.00	150.0	± 9.6 %
		Y	4.49	67.20	16.43		150.0	
		Ż	4.42	67.57	16.62	<del>                                     </del>	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	<u> </u>	150.0	
		Ż	4.45	66.66	16.22		150.0	
10526- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	Х	4.95	66.78	16.37	0.00	150.0	± 9.6 %
		Y	4.64	66.60	16.16		150.0	
		] Z [	4.58	66.96	16.34		150.0	
10527- AAA	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	
		Z	4.51	66.93	16.29		150.0	
10528- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	Х	4.89	66.82	16.38	0.00	150.0	±9.6 %
		Υ	4.58	66.57	16.13		150.0	
		Z	4.52	66.94	16.32		150.0	
10529- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	Х	4.89	66.82	16.38	0.00	150.0	± 9.6 %
		Y	4.58	66.57	16.13		150.0	
		Z	4.52	66.94	16.32		150.0	
10531- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	Х	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)	Х	4.90	66.82	16.35	0.00	150.0	± 9.6 %
		Υ	4.59	66.64	16.13		150.0	
		Z	4.53	67.03	16.33		150.0	
10534- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	Х	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)	Х	5.47	67.13	16.46	0.00	150.0	± 9.6 %
		Υ	5.21	66.87	16.30		150.0	
105-		Z	5.13	67.05	16.42		150.0	
10536- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	Х	5.32	67.12	16.45	0.00	150.0	± 9.6 %
		Y	5.08	66.81	16.25		150.0	
4000-		Z	5.02	67.06	16.40		150.0	
10537- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	Х	5.39	67.07	16.42	0.00	150.0	± 9.6 %
		Y	5.13	66.76	16.23		150.0	
10538-	IEEE 802.11ac WiFi (40MHz, MCS4,	Z	5.08 5.52	67.03 67.19	16.39 16.52	0.00	150.0 150.0	± 9.6 %
AAA	99pc duty cycle)	$\sqcup \bot$	·					
		Υ	5.21	66.77	16.27		150.0	
40540	IFFE 000 11 MINE	Z	5.14	66.99	16.41		150.0	
10540- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	Х	5.40	67.10	16.49	0.00	150.0	± 9.6 %
		Y	5.15	66.79	16.30		150.0	
		Z						

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	16.34		150.0	
10542- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	Х	5.53	67.02	16.46	0.00	150.0	± 9.6 %
		Υ	5.28	66.73	16.27		150.0	
		Z	5.21	66.95	16.40		150.0	
10543- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.65	67.09	16.50	0.00	150.0	± 9.6 %
		Y	5.35	66.75	16.31		150.0	
10544-	IFFE 000 44 - Wiff (00M) - MOOO	Z	5.28	67.01	16.46		150.0	
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	
10545-	IEEE 902 11co WIEI (90MUz. MCC1	Z	5.42	66.95	16.31		150.0	
AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.85	67.43	16.48	0.00	150.0	± 9.6 %
		Y	5.67	67.24	16.39		150.0	
10546-	IEEE 909 44 on MARTE (DOMESTING ALCOCO	Z	5.61	67.44	16.52		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	66.93	16.25		150.0	
10547-	JEEE 900 4400 MEE (00M to MOCC	Z	5.45	67.09	16.35		150.0	
AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.86	67.50	16.53	0.00	150.0	± 9.6 %
		Y	5.59	67.00	16.28		150.0	
10510	IEEE 000 44 WEE (00MI) - MOO4	Z	5.54	67.20	16.40		150.0	
10548- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	Х	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	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	Х	5.77	67.31	16.45	0.00	150.0	± 9.6 %
		Υ	5.57	67.05	16.32		150.0	
		Z	5.52	67.30	16.47		150.0	
10551- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.80	67.45	16.48	0.00	150.0	± 9.6 %
		Υ	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	
		Z	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)	Х	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	
10555- AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	Х	6.22	67.88	16.64	0.00	150.0	± 9.6 %
		Υ	6.02	67.44	16.43		150.0	
		Z	5.95	67.54	16.50		150.0	
10556- AAB	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	Х	6.20	67.79	16.59	0.00	150.0	± 9.6 %
		Υ	6.04	67.49	16.44		150.0	
		Z	5.99	67.66	16.55		150.0	
10557- AAB	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	6.21	67.81	16.62	0.00	150.0	± 9.6 %
		Y	5.99	67.35	16.39		150.0	
		Z	5.93	67.50	16.49		150.0	1

10558- AAB	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	Х	6.28	68.03	16.75	0.00	150.0	± 9.6 %
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Y	6.04	67.52	16.49		150.0	<del> </del>
		ż	5.95	67.59	16.55		150.0	<del> </del>
10560- AAB	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.28	67.87	16.71	0.00	150.0	± 9.6 %
		Υ	6.03	67.35	16.44		150.0	<b>1</b>
		Z	5.96	67.49	16.53		150.0	
10561- AAB	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	Х	6.18	67.80	16.71	0.00	150.0	± 9.6 %
		Y	5.96	67.36	16.48		150.0	
40500		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	
10563-	IEEE 802.11ac WiFi (160MHz, MCS9,	Z	5.96	67.67	16.66	0.00	150.0	
AAB	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	
10564-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	6.05	67.62	16.60	0.10	150.0	
AAA	OFDM, 9 Mbps, 99pc duty cycle)	X	5.11	67.26	16.76	0.46	150.0	± 9.6 %
		Y Z	4.86	67.10	16.52		150.0	
10565-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	<u>Z</u>	4.80	67.44	16.68	0.40	150.0	
AAA	OFDM, 12 Mbps, 99pc duty cycle)		5.41	67.77	17.08	0.46	150.0	± 9.6 %
		Y	5.08	67.53	16.83		150.0	
10566-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	5.00	67.82	16.97	2.40	150.0	
AAA	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	
10567	IFFE 000 44 - WITH 0 4 OUT (DOOG	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	
10568-	IEEE 000 44 ~ WEEL 0 4 OUT (D000	Z	4.87	68.04	17.15		150.0	
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	
10560	IEEE 000 44. WEE 0 4 OU (DOOD	<u>Z</u>	4.75	67.49	16.60		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	Х	5.19	68.02	17.24	0.46	150.0	± 9.6 %
		Y	4.92	67.92	17.11		150.0	
10570-	IEEE 000 44- WEE 0 4 OUT /POOC	Z	4.86	68.27	17.29		150.0	
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-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	Z	4.86	68.06	17.18		150.0	
AAA	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	
10572-	IEEE 902 445 WEELS 4 OLD (DOOS S	Z	1.41	67.39	17.29		130.0	
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	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	Z X	1.45 100.00	68.17 142.31	17.74 37.38	0.46	130.0 130.0	± 9.6 %
	maps, cope duty cycle)	Y	5.69	99.12	27.00		400 0	
***		Z	66.26	143.73	27.30	<u> </u>	130.0	
10574-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	X	3.57	87.71	39.41	0.40	130.0	1000
AAA	Mbps, 90pc duty cycle)				25.60	0.46	130.0	± 9.6 %
		Y	1.70	74.22	20.29		130.0	
	<u> </u>	Z	1.88	76.94	21.86		130.0	

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)			]	10.00	0.40	100.0	1 3.0 /6
		Υ	4.69	67.03	16.64		130.0	
10576-	TEET 000 44 INST 0 4 OUT (TOO	Z	4.63	67.35	16.80		130.0	
AAA 	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	X	4.98	67.35	16.96	0.46	130.0	± 9.6 %
		Υ	4.72	67.20	16.72		130.0	
40577	UTTER OOD 11 AMERICAN	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	
10578-	)EEE 000 44 - 146E 0 4 OU - (D000	Z	4.82	67.76	17.01		130.0	
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	
10570	IEEE 902 44 ~ MIEE 2 4 CU = /D200	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	
10500	TEEE 900 44a WEE 0 4 OU - 70000	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	
10581-	IFFE DOD 44% MEETS O 4 OUT (DOOG	Z	4.54	67.27	16.48		130.0	
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	
10582-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z X	4.65 4.90	68.04 67.13	17.12 16.49	0.46	130.0 130.0	± 9.6 %
AAA	OFDM, 54 Mbps, 90pc duty cycle)	$\perp$						
		Y	4.51	66.68	16.07		130.0	
10583- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	Z X	4.43 4.95	67.00 67.19	16.24 16.89	0.46	130.0 130.0	± 9.6 %
7777	Mops, sope duty cycle)	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 %
	3,000	TY	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)	Х	5.14	67.89	17.23	0.46	130.0	± 9.6 %
		Υ	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	
		Z	4.50	67.21	16.45		130.0	
10588- AAA	IEEE 802.11a/h WiFi 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	
10589-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	Z	4.54 5.07	67.27 68.07	16.48 17.23	0.46	130.0 130.0	± 9.6 %
AAA	Mbps, 90pc duty cycle)			1.				
		Υ	4.72	67.70	16.95		130.0	
		Z	4.65	68.04	17.12		130.0	
10590- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	Х	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	1

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)	Х	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 %
		Y	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)	Х	5.28	67.68	17.13	0.46	130.0	± 9.6 %
		Y	4.96	67.47	16.91		130.0	
10505	1555	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	
40505	IFFE 000 11 (CT)	Z	4.85	67.75	16.96		130.0	
10596- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	Х	5.21	67.70	17.06	0.46	130.0	± 9.6 %
		Y	4.86	67.44	16.81		130.0	
1050-		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)	Х	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)	Х	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)	Х	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)	Х	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	
		Z	5.60	68.17	17.19		130.0	
10603- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	Х	6.09	68.64	17.55	0.46	130.0	± 9.6 %
		Y	5.74	68.19	17.31		130.0	
1000		Z	5.66	68.42	17.44		130.0	
10604- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	Х	5.79	67.86	17.16	0.46	130.0	± 9.6 %
		Υ	5.59	67.76	17.08		130.0	
		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 %
		Υ	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)	Х	5.65	67.59	16.91	0.46	130.0	±9.6 %
<del>,</del>	1	_ 1 - 1			T		<del> </del>	<del></del>
		Y	5.37	67.19	16.65		130.0	

10607-	IEEE 802.11ac WiFi (20MHz, MCS0,	X	4.92	66.49	16.57	0.46	130.0	± 9.6 %
AAA	90pc duty cycle)					0.10		1 3.0 %
		Y	4.68	66.39	16.37		130.0	
10608-	IEEE 903 44 pp MIC: (2014) - 14004	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 %
<del></del>		Υ	4.85	66.77	16.53		130.0	
10000	1555 000 44 MIST (00) W	Z	4.77	67.10	16.69		130.0	
10609- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	×	5.06	66.87	16.62	0.46	130.0	± 9.6 %
	_	Y	4.74	66.62	16.36		130.0	
10610-	IFFE 000 44 - MEET (000 HILL ALGOOD	Z	4.67	66.96	16.53		130.0	
AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	Х	5.11	67.01	16.76	0.46	130.0	± 9.6 %
		Y	4.79	66.78	16.53		130.0	
40044	ICEC COO AA ANDEL COO AA	Z	4.72	67.11	16.69	L	130.0	
10611- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	Х	5.05	66.92	16.66	0.46	130.0	± 9.6 %
		Υ	4.71	66.59	16.38		130.0	
40040	IEEE 000 At 11000	Z	4.64	66.93	16.55		130.0	
10612- AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	Х	5.07	67.04	16.68	0.46	130.0	± 9.6 %
		Y	4.72	66.76	16.43		130.0	
10010	15-70 000	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 %
<u> </u>		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)	Х	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 %
		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)	Х	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 %
, v v1		<del>-1 ,,  </del>	C 40	07.40	40.00		1000	
		Y	5.40	67.13	16.80		130.0	

10623- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 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- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.72	67.10	16.77	0.46	130.0	± 9.6 %
		Y	5.47	66.85	16.60		130.0	
		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	
		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	
		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)	Х	5.89	67.33	16.66	0.46	130.0	± 9.6 %
		Υ	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)	Х	6.07	67.76	17.04	0.46	130.0	± 9.6 %
		Υ	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)	Х	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)	Х	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)	Х	6.20	67.47	16.73	0.46	130.0	± 9.6 %
		Y	6.06	67.19	16.58		130.0	
10637-	IEEE 802.11ac WiFi (160MHz, MCS1,	Z	6.01 6.43	67.33 68.00	16.67 16.96	0.46	130.0 130.0	± 9.6 %
AAB	90pc duty cycle)	+	0.00	07.00	10 ==		1	
		Y	6.23	67.63	16.79		130.0	
10638-	1555 802 1100 W/St /460 W/St 44000	Z	6.14	67.69	16.84		130.0	· ····································
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	
		Z	6.16	67.71	16.83		130.0	

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	-	130.0	
		Z	6.11	67.58	16.80		130.0	
10640- AAB	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	Х	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)	Х	6.42	67.72	16.82	0.46	130.0	± 9.6 %
		Υ	6.26	67.48	16.70		130.0	
		Z	6.18	67.60	16.78	<u> </u>	130.0	·
10642- AAB	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	Х	6.51	68.09	17.16	0.46	130.0	± 9.6 %
		Y	6.27	67.64	16.94		130.0	
10640		Z	6.19	67.74	17.01		130.0	
10643- AAB	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	Х	6.33	67.78	16.92	0.46	130.0	± 9.6 %
		Υ	6.13	67.39	16.71		130.0	
		Z	6.05	67.49	16.79	- "	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	
		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	
		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 %
		Υ	34.93	118.52	39.50		60.0	
		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 %
		Υ	35.03	119.53	39.96		60.0	
		Z	61.92	136.93	45.35		60.0	
10648- AAA	CDMA2000 (1x Advanced)	Х	1.11	70.04	15.37	0.00	150.0	± 9.6 %
		Υ	0.68	63.85	10.64		150.0	
		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 %
		Υ	4.44	69.41	17.59		80.0	
1005-		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 %
		Υ	4.85	68.29	17.59		80.0	
100=:		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 %
		Υ	4.81	67.88	17.59		80.0	
10055		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 %
		Υ	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





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Service suisse d'étalonnage
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Accreditation No.: SCS 0108

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Client

PC Test

Certificate No: ES3-3347_Mar18

## **CALIBRATION CERTIFICATE**

Object

ES3DV3 - SN:3347

Calibration procedure(s)

QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes 204-05 2018

Calibration date:

March 27, 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 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

Approved by: Katja Pokovic Technical Manager

Issued: March 27, 2018

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

Certificate No: ES3-3347_Mar18

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#### **Calibration Laboratory of**

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#### Glossary:

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

ConvF

sensitivity in TSL / NORMx,y,z

DCP

diode compression point

CF A, B, C, D crest factor (1/duty_cycle) of the RF signal 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., 9 = 0 is normal to probe axis

Connector Angle

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

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

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

### Methods Applied and Interpretation of Parameters:

- 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:3347

Manufactured:

March 15, 2012

Repaired:

March 15, 2018

Calibrated:

March 27, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

March 27, 2018

## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3347

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	1.15	1.18	1.21	± 10.1 %
DCP (mV) ^B	101.9	105.1	102.9	

**Modulation Calibration Parameters** 

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc ^t (k=2)
0	CW	X	0.0	0.0	1.0	0.00	201.8	±3.3 %
		Y	0.0	0.0	1.0		203.9	
		Z	0.0	0.0	1.0		204.8	

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
X	52.41	376.6	35.43	28.01	1.852	5.10	0.578	0.488	1.008
Υ	42.65	300.9	34.31	25.12	1.310	5.10	1.279	0.204	1.011
Z	48.12	344.8	35.26	27.10	1.587	5.10	0.868	0.385	1.009

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.

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

March 27, 2018

## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3347

## Calibration Parameter Determined in Head Tissue Simulating Media

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	6.77	6.77	6.77	0.65	1.32	± 12.0 %
835	41.5	0.90	6.41	6.41	6.41	0.40	1.64	± 12.0 %
1750	40.1	1.37	5.58	5.58	5.58	0.54	1.42	± 12.0 %
1900	40.0	1.40	5.36	5.36	5.36	0.80	1.16	± 12.0 %
2300	39.5	1.67	5.11	5.11	5.11	0.74	1.29	± 12.0 %
2450	39.2	1.80	4.81	4.81	4.81	0.80	1.24	± 12.0 %
2600	39.0	1.96	4.66	4.66	4.66	0.75	1.25	± 12.0 %

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

At frequencies below 3 CHz the weight of the properties of the convF assessments at 30, 44, 128, 150 and 220 MHz respectively.

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.

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.

March 27, 2018

Certificate No: ES3-3347_Mar18

## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3347

## Calibration Parameter Determined in Body Tissue Simulating Media

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	6.59	6.59	6.59	0.77	1.22	± 12.0 %
835	55.2	0.97	6.37	6.37	6.37	0.80	1.17	± 12.0 %
1750	53.4	1.49	5.17	5.17	5.17	0.49	1.59	± 12.0 %
1900	53.3	1.52	4.94	4.94	4.94	0.52	1.49	± 12.0 %
2300	52.9	1.81	4.74	4.74	4.74	0.80	1.25	± 12.0 %
2450	52.7	1.95	4.64	4.64	4.64	0.75	1.20	± 12.0 %
2600	52.5	2.16	4.49	4.49	4.49	0.80	1.20	± 12.0 %

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

validity can be extended to ± 110 MHz.

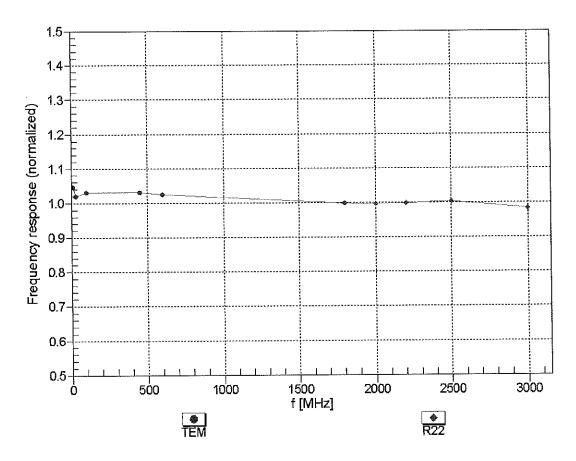
At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the Coast function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

the ConvF uncertainty for indicated target tissue parameters.

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.

ES3DV3-- SN:3347 March 27, 2018

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



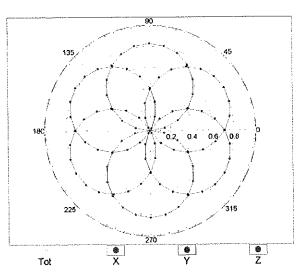
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

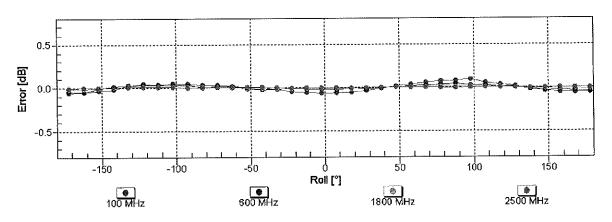
Tot

## Receiving Pattern ( $\phi$ ), $9 = 0^{\circ}$

f=600 MHz,TEM

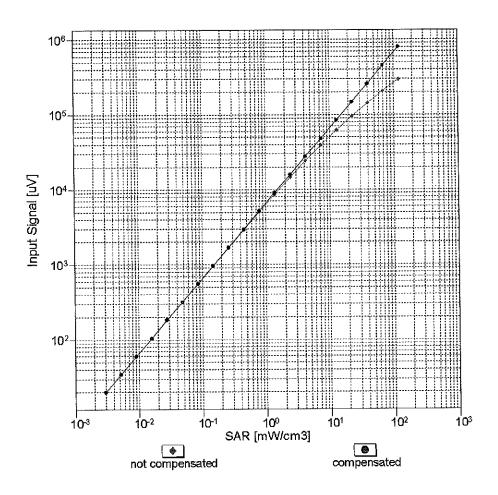
f=1800 MHz,R22

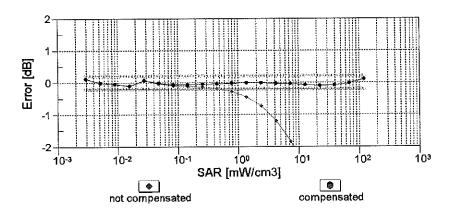




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

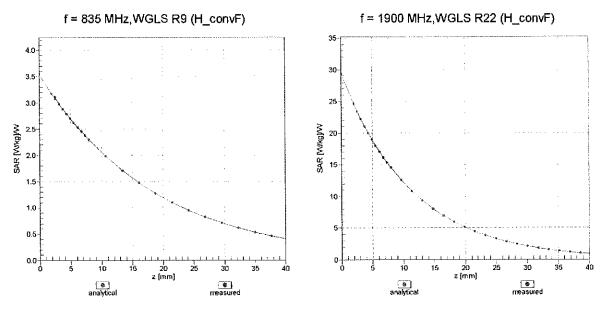
## Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



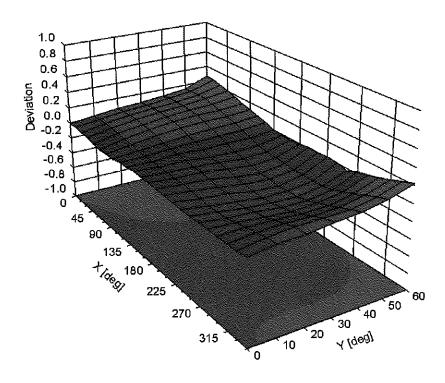


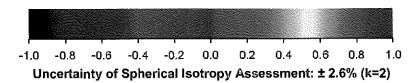
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

## **Conversion Factor Assessment**



Deviation from Isotropy in Liquid Error (0, 9), f = 900 MHz





# DASY/EASY - Parameters of Probe: ES3DV3 - SN:3347

#### **Other Probe Parameters**

Certificate No: ES3-3347_Mar18

Sensor Arrangement	Triangular
Connector Angle (°)	-16.5
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** 

מוט	lix: Modulation Calibration Paral Communication System Name		A dB	B dBõV	С	dB D	VR mV	Max Unc ^E (k≂2)
0	CW	X	0.00	0.00	1.00	0.00	201.8	± 3.3 %
		Υ	0.00	0.00	1.00		203.9	
10010		Z	0.00	0.00	1.00		204.8	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	7.57	78.06	17.49	10.00	25.0	± 9.6 %
		Υ	9.85	82.39	18.69		25.0	
15511		Z	7.35	77.81	17.08		25.0	
10011- CAB	UMTS-FDD (WCDMA)	X	0.93	66,02	14.08	0.00	150.0	±9.6%
		Y	0.97	66.67	14.52		150.0	
10012-	IEEE 000 441 MEEL 0 4 OUL (DOOR 4	Z	0.93	66.21	14.17		150.0	
CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.22	64.40	15.16	0.41	150.0	± 9.6 %
		Y	1.24	64.68	15.35		150.0	
10013-	IEEE 802 44a WiEi 2 4 OUE (DOOG	Z	1.21	64.49	15.23		150.0	
CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	5.02	67.09	17.26	1.46	150.0	± 9.6 %
		Y	4.93	67.32	17.31		150.0	
10021-	GSM-FDD (TDMA, GMSK)	Z	4.97	67.16	17.27	0.00	150.0	
DAC	GOW-FUD (TOWA, GWSK)	X	91.36	118.07	31.34	9.39	50.0	± 9.6 %
w***		Y	100.00	119.30	31.14		50.0	
10023-	GPRS-FDD (TDMA, GMSK, TN 0)	Z	100.00	118.75	31.10	C ==	50.0	1000
DAC	GFRS-FDD (TDIVIA, GIVISIA, TN U)		58.54	111.16	29.65	9.57	50.0	± 9.6 %
		Y	100.00	119.20	31.14		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00 100.00	118.71 115.85	31.13 28.82	6.56	50.0 60.0	± 9.6 %
<i>D1</i> (0		Υ	100.00	116.32	28.70		60.0	
		Ż	100.00	115.26	28.36		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	19.84	109.66	41.73	12.57	50.0	± 9.6 %
		Υ	49.03	143.08	53.86		50.0	
		Z	21.37	113.26	43.24		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Х	21.22	106.46	36,65	9.56	60.0	±9.6%
		Υ	31.58	119.85	41.69		60.0	
		Z	22.56	108.96	37.62		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	114.36	27.28	4.80	80.0	±9.6 %
		Υ	100.00	115.58	27.56		80.0	
40000	OPPO FOR /Talla Cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité de la cité d	Z	100.00	113.91	26.92		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	Х	100.00	113.86	26.30	3.55	100.0	± 9.6 %
		Y	100.00	115.98	27.02		100.0	
10000	EDGE EDD /TDMA ADG/C TV 6 4 6	Z	100.00	113.53	26.01		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	12.94	95.02	31.64	7.80	80.0	± 9.6 %
		Y	14.07	99.40	33.81		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	12.89 100.00	95.72 113.99	32.02 27.43	5.30	80.0 70.0	± 9.6 %
577		Y	100.00	114.60	27.41	<b></b>	70.0	
		Z	100.00	113.38	26.98		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	111.77	23.93	1.88	100.0	± 9.6 %
		Y	100.00	115.39	25.33		100.0	
*		† <u>;</u>	100.00	111.26	23.59	<b>!</b>	100.0	l · · · · · · · · · · · · · · · · · · ·

10032-	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	100.00	111.85	22,94	1.17	100.0	± 9.6 %
CAA		Υ	400.00	118.40	25.59		100.0	
		Z	100.00 100.00	111.34	22.62		100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	23.91	101.19	27.41	5.30	70.0	± 9.6 %
		Υ	36.18	107.81	28.88		70.0	
		Z	30.63	104.89	28.18		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Х	6.24	84.08	20.44	1.88	100.0	± 9.6 %
		Υ	7.24	85.92	20.55		100.0	
		Z	6.85	85.19	20.50		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	3.29	76.95	17.63	1.17	100.0	± 9.6 %
		7	3.58	78.09	17.57		100.0	
10000	LEEE COOKE A DI VIVI (O DDOK DIVI)	Z	3,42	77.43	17.51	5.00	100.0	. 0 0 0/
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	32.79	106.39	28.91	5.30	70.0	±9.6 %
······································		Υ	55.24	114.58	30.68		70.0	
10007	IEEE 000 45 4 Divistants (0 DDOM DUO)	Z	45.73	111.34	29.95	4 00	70.0	T U C U/
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	5.86	83.28	20.13	1.88	100.0	± 9.6 %
·····		Y	6.54	84.66	20.12		100.0	
10038-	IEEE DOO 45 4 Division to 70 DDOW DUS	Z X	6.31	84.13 77.59	20.12	1.17	100.0 100.0	± 9.6 %
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)		3.39		17.96	1.17		± 9.0 %
		Y Z	3.66	78.64	17.87		100.0 100.0	
10020	CDMA2000 (4vBTT_BC4)	X	3.53	78.11	17.85	0.00	150.0	± 9.6 %
10039- CAB	CDMA2000 (1xRTT, RC1)		1.52	69.16	14.18	0.00		19.0 %
		Y Z	1.40 1.46	68.90	13.55		150.0 150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	100.00	69.03 114.62	13.83 28.47	7.78	50.0	± 9.6 %
CAB	DQF3K, Halliate)	Y	100.00	114.70	28.14		50.0	
		Z	100.00	113.88	27.92		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.01	121.88	0.68	0.00	150.0	± 9.6 %
		Y	0.00	97.83	1.91		150.0	
		Z	0.01	122.55	0.35		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	17.94	92.17	26.06	13.80	25.0	± 9.6 %
		Υ	42.19	107.21	29.95		25.0	
		Z	24.74	97.63	27.36		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	Х	22.69	96.29	25.94	10.79	40.0	±9.6 %
		Y	68.20	113.74	30.23		40.0	
		Z	32.65	101.85	27.19		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	×	16.99	92.79	25.84	9.03	50.0	± 9.6 %
		Υ	27.63	101.84	28.34		50.0	
		Z	20.13	95.81	26.57		50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	9.12	87.95	28.36	6.55	100.0	± 9.6 %
		Y	8.98	89.45	29.43		100.0	
10059-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	Z X	8.90 1.37	88.06 66.39	28.51 16.16	0.61	100.0 110.0	± 9.6 %
CAB	Mbps)	<del>                                     </del>	4 20	GC EO	16.00		4400	
		Y	1.38	66.59	16.33		110.0	
10060-	IFFE 802 11h WiFi 2.4 GHz (Deec F.F.	Z X	1.36	66.49	16.23	1 20	110.0	+060/
CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)		100.00	128.08	31.98	1.30	110.0	± 9.6 %
		Y	100.00	131.22	33.31		110.0	
		Z	100.00	128.65	32.15		110.0	<u> </u>

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	9.25	94.71	26.12	2.04	110.0	± 9.6 %
		Υ	9.59	96.73	27.06		110.0	
		Z	10.28	96.95	26.85		110.0	
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	Х	4.74	66.85	16.53	0.49	100.0	± 9.6 %
		Y	4.66	67.04	16.57		100.0	·
		Z	4.70	66.90	16.54		100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	Х	4.78	67.00	16.67	0.72	100.0	± 9.6 %
		Υ	4.69	67.19	16.70		100.0	
1000		Z	4.73	67.05	16.68		100.0	
10064- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	Х	5.09	67.32	16.93	0.86	100.0	± 9.6 %
		Y	4.97	67.46	16.94		100.0	
40005	TEEE COO LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA TOUR DE LA	Z	5.03	67.35	16.93		100.0	
10065- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	Х	4.99	67.34	17.10	1.21	100.0	±9.6%
		Υ	4.88	67.46	17.11		100.0	
40000	JEEF 000 44 / WIELE 011	Z	4.93	67.36	17.10		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.05	67.46	17.33	1.46	100.0	± 9.6 %
***************************************		Y	4.92	67.57	17.33		100.0	
40067	1555	Z	4.98	67.48	17.32		100.0	
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.36	67.67	17.81	2.04	100.0	± 9.6 %
		Y	5.25	67.92	17.88		100.0	
		Z	5.30	67.73	17.82		100.0	
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.48	67.95	18.15	2.55	100.0	± 9.6 %
		Υ	5.33	68.04	18.16		100.0	
		Z	5.40	67.94	18.13		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	Х	5.56	67.94	18.35	2.67	100.0	± 9.6 %
		Υ	5.42	68.11	18.40		100.0	
		Z	5.49	67.96	18.34		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	Х	5.16	67.32	17.64	1.99	100.0	± 9.6 %
		Υ	5.07	67.53	17.70		100.0	
		Z	5.11	67.37	17.65		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	Х	5.20	67.83	17.95	2.30	100.0	± 9.6 %
		Υ	5.09	67.99	18.00		100.0	
		Z	5.14	67.86	17.96		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	Х	5.32	68.17	18.37	2.83	100.0	±9.6 %
		Y	5.22	68.36	18.44		100.0	
100-		Z	5.26	68.20	18.38		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.35	68.22	18.60	3.30	100.0	± 9.6 %
		Y	5.26	68.43	18.68		100.0	
40075	1555 000 44 1455 0 4 0 1	Z	5,29	68.25	18.61		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	Х	5.48	68.62	19.07	3.82	90.0	± 9.6 %
···		Υ	5.35	68.73	19.11		90.0	
10076-	IEEE 802.11g WiFi 2.4 GHz	Z X	5.40 5.50	68.60 68.45	19.05 19.21	4.15	90.0 90.0	± 9.6 %
CAB	(DSSS/OFDM, 48 Mbps)	1		00.00	4000			
		Y	5.40	68.64	19.31		90.0	
10077	IEEE 000 44 - WEEE 0 4 OU	Z	5.44	68.46	19.21		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.54	68.54	19.31	4.30	90.0	± 9.6 %
		Υ	5,44	68.76	19.43		90.0	
		Z	5.48	68.56	19.32		90.0	

10082- CAB DQPSK, Fullrate)  10090- DAC GPRS-FDD (TDMA, GMSK, TN 0-DAC UMTS-FDD (HSDPA)  10098- CAB UMTS-FDD (HSUPA, Subtest 2)  10099- DAC EDGE-FDD (TDMA, 8PSK, TN 0-4DAC UMTS-FDD (SC-FDMA, 100% RB, 2MHz, QPSK)  10100- CAD LTE-FDD (SC-FDMA, 100% RB, 2MHz, 16-QAM)  10102- CAD MHz, 64-QAM)  10103- CAD LTE-TDD (SC-FDMA, 100% RB, 2MHz, QPSK)  10104- CAD MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM)  10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2MHz, 16-QAM)  10108- CAD MHz, 64-QAM)  10108- CAE MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM)  10108- CAE MHz, GSC-FDMA, 100% RB, 2MHz, QPSK)  10109- CAE MHz, GSC-FDMA, 100% RB, 2MHz, QPSK)  10110- CAE MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM)	)	X	0.74	64.32	11.31	0.00	150.0	± 9.6 %
CAB DQPSK, Fullrate)  10090-DAC GPRS-FDD (TDMA, GMSK, TN 0-4DAC UMTS-FDD (HSDPA)  10098-CAB UMTS-FDD (HSUPA, Subtest 2)  10099-DAC EDGE-FDD (TDMA, 8PSK, TN 0-4DAC MHz, QPSK)  10100-LTE-FDD (SC-FDMA, 100% RB, 2MHz, 16-QAM)  10102-CAD MHz, 64-QAM)  10103-CAD MHz, 64-QAM)  10103-CAD MHz, GSC-FDMA, 100% RB, 2MHz, QPSK)  10104-CAD MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM)  10105-CAD MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM)  10108-CAD MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM)  10108-CAE MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM)  10110-CAE UTE-FDD (SC-FDMA, 100% RB, 2MHz, 16-QAM)		Y	0.70	64.20	10.81		150.0	
CAB DQPSK, Fullrate)  10090-DAC GPRS-FDD (TDMA, GMSK, TN 0-4DAC UMTS-FDD (HSDPA)  10098-CAB UMTS-FDD (HSUPA, Subtest 2)  10099-DAC EDGE-FDD (TDMA, 8PSK, TN 0-4DAC MHz, QPSK)  10100-LTE-FDD (SC-FDMA, 100% RB, 2MHz, 16-QAM)  10102-CAD MHz, 64-QAM)  10103-CAD MHz, 64-QAM)  10103-CAD MHz, GSC-FDMA, 100% RB, 2MHz, QPSK)  10104-CAD MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM)  10105-CAD MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM)  10108-CAD MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM)  10108-CAE MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM)  10110-CAE UTE-FDD (SC-FDMA, 100% RB, 2MHz, 16-QAM)		ż	0.70	64.15	10.92		150.0	
10090- DAC  GPRS-FDD (TDMA, GMSK, TN 0-4)  10097- CAB  UMTS-FDD (HSDPA)  10098- CAB  LTE-FDD (SC-FDMA, 100% RB, 2)  MHz, QPSK)  LTE-FDD (SC-FDMA, 100% RB, 2)  MHz, 64-QAM)  LTE-FDD (SC-FDMA, 100% RB, 2)  MHz, 64-QAM)  LTE-TDD (SC-FDMA, 100% RB, 2)  MHz, 64-QAM)  LTE-TDD (SC-FDMA, 100% RB, 2)  MHz, G4-QAM)  LTE-TDD (SC-FDMA, 100% RB, 2)  MHz, 16-QAM)  LTE-FDD (SC-FDMA, 100% RB, 2)  MHz, 16-QAM)  LTE-FDD (SC-FDMA, 100% RB, 2)  LTE-FDD (SC-FDMA, 100% RB, 2)  LTE-FDD (SC-FDMA, 100% RB, 2)  LTE-FDD (SC-FDMA, 100% RB, 2)  LTE-FDD (SC-FDMA, 100% RB, 2)  LTE-FDD (SC-FDMA, 100% RB, 2)  LTE-FDD (SC-FDMA, 100% RB, 3)  LTE-FDD (SC-FDMA, 100% RB, 4)  LTE-FDD (SC-FDMA, 100% RB, 4)  LTE-FDD (SC-FDMA, 100% RB, 4)  LTE-FDD (SC-FDMA, 100% RB, 4)  LTE-FDD (SC-FDMA, 100% RB, 4)  LTE-FDD (SC-FDMA, 100% RB, 4)  LTE-FDD (SC-FDMA, 100% RB, 4)  LTE-FDD (SC-FDMA, 100% RB, 4)  LTE-FDD (SC-FDMA, 100% RB, 4)  LTE-FDD (SC-FDMA, 100% RB, 4)  LTE-FDD (SC-FDMA, 100% RB, 4)  LTE-FDD (SC-FDMA, 100% RB, 4)  LTE-FDD (SC-FDMA, 100% RB, 4)  LTE-FDD (SC-FDMA, 100% RB, 4)  LTE-FDD (SC-FDMA, 100% RB, 4)		X	1.69	62.26	7.32	4.77	80.0	± 9.6 %
10097- CAB  10098- CAB  10099- DAC  10100- CAD  LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10103- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10104- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)  10105- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10108- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10108- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)  10108- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)  10108- CAE  LTE-FDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)  10109- CAE  LTE-FDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)  10110- CAE  LTE-FDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)		Υ	1.49	62.02	6.99		80.0	
10097- CAB  10098- CAB  10098- CAB  10099- DAC  10100- CAD  LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10102- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10104- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)  10105- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10108- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)  10108- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)  10108- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)  10108- CAE  LTE-FDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)  10109- CAE  LTE-FDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)  10110- CAE  LTE-FDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)		ż	1.55	61.83	6.90		80.0	
10097- CAB  10098- CAB  10098- CAB  10099- DAC  10100- CAD  LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10103- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10104- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10105- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10108- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10108- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10108- CAE  MHz, QPSK)		x	100.00	115.94	28.89	6.56	60.0	± 9.6 %
10098- CAB  10098- CAB  10099- DAC  10100- CAD  LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10101- CAD  LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10103- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10104- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10105- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10105- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10108- CAD  LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10108- CAE  LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10109- CAE  LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)	,	Υ	100.00	116.39	28.75		60.0	
10098- CAB  10098- CAB  10099- DAC  EDGE-FDD (TDMA, 8PSK, TN 0-4) DAC  10100- CAD  LTE-FDD (SC-FDMA, 100% RB, 2) MHz, QPSK)  10101- CAD  LTE-FDD (SC-FDMA, 100% RB, 2) MHz, 16-QAM)  10102- CAD  LTE-FDD (SC-FDMA, 100% RB, 2) MHz, 64-QAM)  10103- CAD  LTE-TDD (SC-FDMA, 100% RB, 2) MHz, QPSK)  10104- CAD  LTE-TDD (SC-FDMA, 100% RB, 2) MHz, 16-QAM)  10105- CAD  LTE-TDD (SC-FDMA, 100% RB, 2) MHz, 16-QAM)  10108- CAE  MHz, QPSK)  10109- CAE  LTE-FDD (SC-FDMA, 100% RB, 2) MHz, QPSK)  10110- CAE  LTE-FDD (SC-FDMA, 100% RB, 2) MHz, QPSK)		Z	100.00	115.35	28.42		60.0	
10109-DAC  EDGE-FDD (TDMA, 8PSK, TN 0-4  10100-CAD		X	1.73	66.76	14.97	0.00	150.0	± 9.6 %
10099-DAC  EDGE-FDD (TDMA, 8PSK, TN 0-4  10100-LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10101-LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10102-LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10103-LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10104-LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10105-CAD MHz, 64-QAM)  10108-LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10108-CAE MHz, QPSK)  10109-CAE MHz, QPSK)		Υ	1.76	67.41	15.16		150.0	
10109-DAC  EDGE-FDD (TDMA, 8PSK, TN 0-4  10100-CAD		Z	1.72	67.00	15.02		150.0	
10100- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10101- CAD MHz, 16-QAM)  10102- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10103- CAD MHz, QPSK)  10104- CAD MHz, 16-QAM)  10105- CAD MHz, 16-QAM)  10105- CAD MHz, 64-QAM)  10108- CAD MHz, G4-QAM)  10108- CAE MHz, QPSK)  10109- CAE MHz, QPSK)  10110- CAE QPSK)		X	1.69	66.71	14.93	0.00	150.0	± 9.6 %
10100- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10101- CAD MHz, 16-QAM)  10102- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10103- CAD MHz, QPSK)  10104- CAD MHz, 16-QAM)  10105- CAD MHz, 16-QAM)  10105- CAD MHz, 64-QAM)  10108- CAD MHz, G4-QAM)  10108- CAE MHz, QPSK)  10109- CAE MHz, 16-QAM)  10109- CAE MHz, 16-QAM)		Y	1.72	67.36	15.13		150.0	
10100- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10101- CAD MHz, 16-QAM)  10102- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10103- CAD MHz, QPSK)  10104- CAD MHz, 16-QAM)  10105- CAD MHz, 16-QAM)  10105- CAD MHz, 64-QAM)  10108- CAD MHz, G4-QAM)  10108- CAE MHz, QPSK)  10109- CAE MHz, 16-QAM)  10110- CAE MHz, 16-QAM)		Z	1.69	66.94	14.98		150.0	+000
CAD MHz, QPSK)  10101- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10102- CAD MHz, 64-QAM)  10103- CAD MHz, QPSK)  10104- CAD MHz, QPSK)  10105- CAD MHz, 16-QAM)  10105- CAD MHz, 64-QAM)  10108- CAD MHz, G4-QAM)  10108- CAE MHz, QPSK)  10109- CAE MHz, 16-QAM)  10109- CAE MHz, GC-FDMA, 100% RB, 2 MHz, QPSK)  10110- CAE MHz, 16-QAM)	<u> </u>	X	21.17	106.37	36.62	9.56	60.0	± 9.6 %
CAD MHz, QPSK)  10101- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10102- CAD MHz, 64-QAM)  10103- CAD MHz, QPSK)  10104- CAD MHz, QPSK)  10105- CAD MHz, 16-QAM)  10105- CAD MHz, 64-QAM)  10108- CAD MHz, G4-QAM)  10108- CAE MHz, QPSK)  10109- CAE MHz, 16-QAM)  10109- CAE MHz, GC-FDMA, 100% RB, 2 MHz, QPSK)  10110- CAE MHz, 16-QAM)		Υ	31.53	119.75	41.66		60.0	
CAD MHz, QPSK)  10101- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10102- CAD MHz, 64-QAM)  10103- CAD MHz, QPSK)  10104- CAD MHz, QPSK)  10105- CAD MHz, 16-QAM)  10105- CAD MHz, 64-QAM)  10108- CAD MHz, G4-QAM)  10108- CAE MHz, QPSK)  10109- CAE MHz, 16-QAM)  10109- CAE MHz, QPSK)		Z	22.53	108.88	37.59	0.00	60.0	±9,6%
CAD MHz, 16-QAM)  10102- LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10103- LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10104- LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10105- LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10108- LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10109- LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10110- LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)  10110- LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)		X	3.02	69.66	16.13	0.00	150.0	±9.6 %
CAD MHz, 16-QAM)  10102- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10103- CAD MHz, QPSK)  10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10105- CAD MHz, 64-QAM)  10108- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10108- CAE MHz, QPSK)  10109- CAE MHz, 16-QAM)  10110- CAE QPSK)  10110- CAE QPSK)		Y	2.98	69.86	16.33		150.0	
CAD MHz, 16-QAM)  10102- LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10103- LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10104- LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10105- LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10108- LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10109- LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10110- LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)  10110- LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)		Z	2.99	69.71	16.19	0.00	150.0	1000
CAD MHz, 64-QAM)  10103- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10109- CAE MHz, 16-QAM)  10110- CAE QPSK)	İ	X	3.20	67.30	15.63	0.00	150.0	± 9.6 %
CAD MHz, 64-QAM)  10103- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10109- CAE MHz, 16-QAM)  10110- CAE QPSK)		Υ	3.15	67.42	15.72		150.0	
CAD MHz, 64-QAM)  10103- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10109- CAE MHz, 16-QAM)  10110- CAE QPSK)		Z	3.17	67.31	15.65		150.0	
CAD MHz, QPSK)  10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10109- CAE MHz, QPSK)  10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)		Х	3.31	67.28	15.74	0.00	150.0	± 9.6 %
CAD MHz, QPSK)  10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10109- CAE MHz, QPSK)  10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)		Υ	3.26	67.39	15,81		150.0	1
CAD MHz, QPSK)  10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10109- CAE MHz, QPSK)  10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)		Z	3.27	67.30	15.76		150.0	
CAD MHz, 16-QAM)  10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10109- CAE MHz, 16-QAM)  10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10110- CAE QPSK)		Х	8.39	78.42	21.27	3.98	65.0	± 9.6 %
CAD MHz, 16-QAM)  10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10109- CAE MHz, 16-QAM)  10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10110- CAE QPSK)		Υ	8.55	79.75	21.92		65.0	
CAD MHz, 16-QAM)  10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM)  10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)  10109- CAE MHz, 16-QAM)  10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)  10110- CAE QPSK)		Z	8.43	78.92	21,50		65.0	
CAD MHz, 64-QAM)  10108- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, QPSK)  10109- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, 16-QAM)  10110- CAE QPSK)		X	8.28	76.92	21.52	3.98	65.0	±9.6%
CAD MHz, 64-QAM)  10108- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, QPSK)  10109- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, 16-QAM)  10110- CAE QPSK)		Υ	8.11	77.48	21.85		65.0	
CAD MHz, 64-QAM)  10108- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, QPSK)  10109- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, 16-QAM)  10110- CAE QPSK)		Z	8.18	77.09	21.61		65.0	
CAE MHz, QPŠK)  10109- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, 16-QAM)  10110- CAE QPSK)  LTE-FDD (SC-FDMA, 100% RB, SQPSK)		X	7.63	75.31	21.13	3.98	65.0	±9.6%
CAE MHz, QPŠK)  10109- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, 16-QAM)  10110- CAE QPSK)  LTE-FDD (SC-FDMA, 100% RB, SQPSK)		Υ	7.72	76.48	21.73	<u> </u>	65.0	<u> </u>
CAE MHz, QPŠK)  10109- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, 16-QAM)  10110- CAE QPSK)  LTE-FDD (SC-FDMA, 100% RB, SQPSK)		Z	7.57	75.55	21.26		65.0	1
10110- CAE MHz, 16-QAM)  10110- CAE QPSK)		X	2.65	68.92	15.95	0.00	150.0	± 9.6 %
CAE MHz, 16-QAM)  10110- LTE-FDD (SC-FDMA, 100% RB, 9 QPSK)		Y	2.59	69.14	16.15		150.0	ļ
CAE MHz, 16-QAM)  10110- LTE-FDD (SC-FDMA, 100% RB, 9 QPSK)		Z	2.61	68.99	16.01		150.0	1.000
CAE QPSK)		X	2.86	67.08	15.50	0.00	150.0	± 9.6 %
CAE QPSK)		Y	2.80	67.24	15.55	1	150.0	ļ
		Z X	2.82 2.15	67.11 67.97	15.51 15.52	0.00	150.0 150.0	± 9.6 %
10111- LTE-EDD (SC-EDMA 100% RB		\ <u>/</u>	2.00	60.07	45.00		150.0	
10111- LTE-FDD (SC-FDMA 100% RB		Y Z	2.09	68.27	15.68		150.0	
	E MU-	<u> </u>	2.11	68.06	15.56	0.00	150.0	± 9.6 %
CAE 16-QAM)	O IVIDZ,		2.54	67.60	15.65	0.00		1 3.0 /0
		Y Z	2.49 2.51	67.90 67.74	15.64 15.66		150.0 150.0	

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	2.98	67.08	15.57	0.00	150.0	± 9.6 %
		Υ	2.92	67.27	15.62		150.0	
		Ż	2.94	67.13	15.58		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.70	67.76	15.81	0.00	150.0	± 9.6 %
		Y	2.63	68.07	15.78	***************************************	150.0	
		Z	2.66	67.92	15.82		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	Х	5.13	67.22	16.34	0.00	150.0	± 9.6 %
		Υ	5.06	67.35	16.39		150.0	
		Z	5.10	67.28	16.37		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Х	5.46	67.47	16.48	0.00	150.0	± 9.6 %
****		Υ	5.32	67.42	16.43		150.0	
		Ζ	5.39	67.43	16.46		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	Х	5.25	67.46	16.39	0.00	150.0	± 9.6 %
		Υ	5.15	67.53	16.41		150.0	
		Z	5,20	67.47	16.40		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	Х	5.10	67.11	16.30	0.00	150.0	± 9.6 %
		Υ	5.03	67.22	16.34		150.0	
		Ζ	5.06	67.11	16.31		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	Х	5.56	67.71	16.61	0.00	150.0	± 9.6 %
		Υ	5.40	67.63	16.55		150.0	
		Z	5.48	67.67	16.59		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	Х	5.22	67.39	16.37	0.00	150.0	± 9.6 %
		Υ	5.13	67.49	16.40		150.0	
		Z	5.18	67.42	16.38		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	3.35	67.28	15.66	0.00	150.0	± 9.6 %
		Y	3.29	67.41	15.73		150.0	
		Z	3.31	67.30	15.68		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	3.47	67.38	15.84	0.00	150,0	±9.6 %
		Y	3.41	67.52	15.90		150.0	
		Z	3.43	67.42	15.86		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	1.91	67.75	15.10	0.00	150.0	± 9.6 %
		Y	1.84	68.07	15.11		150.0	
		Z	1.87	67.86	15.08		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.37	68.04	15.25	0.00	150.0	± 9.6 %
		Υ	2.29	68.28	15.02		150.0	
		Ζ	2.33	68.17	15.16		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	2.20	66.14	13.84	0.00	150.0	± 9.6 %
		Υ	2.08	66.17	13.48		150.0	
		Z	2.13	66,11	13.65		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	1.17	64.40	11.32	0.00	150.0	± 9.6 %
		Υ	0.99	63.23	9.93		150.0	
		Z	1.08	63.80	10.61		150.0	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	Х	2.07	66.79	12.08	0.00	150.0	± 9.6 %
***************************************		Υ	1.74	65.46	10.58		150.0	
·····		Z	1.93	66.25	11.43		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	2.41	68.68	13.11	0.00	150.0	± 9.6 %
		1 37		A= 4A	1 44 50		4500	
		Y Z	2.02	67.13	11.50		150.0	

10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	2.87	67.13	15.54	0.00	150.0	± 9.6 %
		Υ	2.81	67.29	15.59		150.0	
		Ζ	2.83	67.17	15.55		150.0	
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	Х	2.99	67.13	15.61	0.00	150.0	± 9.6 %
•••		Υ	2.93	67.31	15.66		150.0	
		Ζ	2,95	67.18	15.62		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	9.21	81.33	22.45	3.98	65.0	± 9.6 %
		Υ	9.55	83.12	23.24		65.0	
		Ζ	9.38	82.15	22.79		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	7.89	77.12	21.32	3.98	65.0	± 9.6 %
		Υ	7.75	77.78	21.62		65.0	
		Z	7.80	77.32	21.39		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	8.33	78.05	22.06	3.98	65.0	± 9.6 %
		Υ	8.20	78.76	22.36		65.0	
		Z	8.27	78.34	22.17		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	2.19	68.34	15.77	0.00	150.0	± 9.6 %
		Υ	2.13	68.58	15.88	·	150.0	
		Ζ	2.15	68.43	15.80		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.54	67.61	15.66	0.00	150.0	± 9.6 %
		Υ	2.49	67.93	15.66		150.0	
		Ζ	2.51	67.76	15.67		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.75	67.70	14.83	0.00	150.0	±9.6%
		Υ	1.67	67.86	14.67		150.0	
		Z	1.70	67.75	14.73		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	2.01	66.49	13.77	0.00	150.0	± 9.6 %
		Υ	1.89	66.41	13.28		150.0	
		Ζ	1.95	66.44	13.53		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	2.70	67.82	15.85	0.00	150.0	± 9.6 %
		Υ	2.64	68.13	15.83		150.0	
		Ζ	2.67	67.98	15.86		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.11	66.90	14.04	0.00	150.0	± 9.6 %
		Υ	1.98	66.74	13.50		150.0	
		Z	2.04	66.83	13.79		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	2.69	68.21	15.87	0.00	150.0	±9.6 %
		Υ	2.64	68.50	16.02		150.0	
		Z	2.66	68.34	15.93		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.88	67.04	15,53	0.00	150.0	± 9.6 %
		Υ	2.82	67.25	15.56		150.0	
		Z	2.84	67.11	15.53		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	2.99	67.17	15.64	0.00	150.0	± 9.6 %
		Υ	2,93	67.43	15.68		150.0	
		Z	2.96	67.27	15.66		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.67	69.76	19.07	3.01	150.0	± 9.6 %
		Υ	3.59	70.61	19.72		150.0	
		Z	3.64	70.17	19.36		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	4.60	72.78	19.56	3.01	150.0	± 9.6 %
		Υ	4.59	74.59	20.58		150.0	
		Ż	4.60	73.54	19.97		150.0	1

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	5.10	75.00	20.86	3.01	150.0	± 9.6 %
		Υ	5.17	77.15	22.00		150.0	
		Z	5.18	76.08	21.41		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.14	69.82	19.09	3.01	150.0	± 9.6 %
····		Υ	2,99	70.11	19.57		150.0	
40470		Z	3.08	69.99	19.30		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	4.48	76.11	21.47	3.01	150.0	± 9.6 %
		Υ	4.42	77.92	22.61		150.0	
10171-	LTE EDD (OO EDMA ( DD OO )	Z	4.51	77.09	22.03		150.0	
AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	3.64	71.74	18.65	3.01	150.0	± 9.6 %
		<u>Y</u>	3.56	73.31	19.70		150.0	
10172-	LTE TDD (CC TDMA 4 DD CC MIL)	Z	3.59	72.29	19.01		150.0	
CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	21.10	104.74	32.18	6.02	65.0	± 9.6 %
		Y	44.31	124.23	38.59		65.0	
10173-	LTE TOD (CO FDMA 4 DD CO	Z	24.87	109.58	33.89		65.0	
CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	37.36	109.91	31.76	6.02	65.0	± 9.6 %
*		Y	100.00	131.53	37.83		65.0	
10174-	LTE TDD (CO FDMA 4 DD CO FT)	Z	66,45	121.49	34.95		65.0	
CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	28.71	103.81	29.50	6.02	65.0	± 9.6 %
		Υ	93.12	128.22	36.43		65.0	
40475	LTC FDD (OO FDM) 4 DD 400M	Z	36.57	109.34	31.20		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	3.10	69.50	18.83	3.01	150.0	±9.6 %
		Υ	2.96	69.84	19.35		150.0	
		Ζ	3.04	69.66	19.04		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	4.49	76.13	21.48	3.01	150.0	± 9.6 %
***************************************		Υ	4.43	77.95	22.63		150.0	
		Z	4.52	77.11	22.04		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.13	69.65	18.93	3.01	150.0	± 9.6 %
		Υ	2.98	69.97	19.42		150.0	
		Z	3.07	69.81	19.14		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	4.43	75.88	21.35	3.01	150.0	± 9.6 %
		Υ	4.39	77.75	22.52		150.0	
40775		Z	4.47	76.86	21.91		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	4.01	73.75	19.90	3.01	150.0	± 9.6 %
		Y	3.96	75.54	21.04		150.0	
40400	LITE EDD (OO EDLA)	Z	4.01	74.52	20.37		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	3.63	71.66	18.60	3.01	150.0	± 9.6 %
		Υ	3.55	73.25	19.66		150.0	
40464		Z	3.59	72.21	18.96		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	×	3.13	69.64	18.92	3.01	150.0	± 9.6 %
		Y	2.98	69.95	19.42		150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	Z X	3.06 4.42	69.80 75.86	19.13 21.34	3.01	150.0 150.0	± 9.6 %
UAD	16-QAM)	<del>     </del>	400	77 70	00.51		4=0 0	
		Y	4.38	77.72	22.51		150.0	
10183-	LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	Z	4.46	76.83	21.90	0.04	150.0	1000
AAC	64-QAM)	X	3.62	71.63	18.59	3.01	150.0	± 9.6 %
		Y	3.55	73.22	19.65		150.0	
		Z	3.58	72.19	18.94		150.0	

10184-	LTE-FDD (SC-FDMA, 1 RB, 3 MHz,	Х	3,14	69.68	18.95	3.01	150.0	± 9.6 %
CAD	QPSK)			00.00	46.41		450.0	
		Υ	2.99	69.99	19.44		150.0	
		Z	3.07	69.84	19.16		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	×	4.45	75.93	21.38	3.01	150.0	± 9.6 %
•		Υ	4.40	77.80	22.55		150.0	
		Ζ	4.48	76.92	21.94		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	3.64	71.70	18.62	3.01	150.0	± 9.6 %
		Υ	3.56	73.30	19.69		150.0	
		Z	3.60	72.26	18.98		150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	3,15	69.73	19.01	3.01	150.0	± 9.6 %
		Υ	3.00	70.06	19.51		150.0	
		Z	3.08	69.90	19.22		150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	4.60	76.65	21.77	3.01	150.0	± 9.6 %
		Υ	4.55	78.49	22.93		150.0	
		Z	4.65	77.69	22.36		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.72	72.15	18.90	3.01	150.0	± 9.6 %
		Υ	3.65	73.76	19.97		150.0	
		Z	3.69	72.74	19.28	***************************************	150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	Х	4.52	66.58	16.02	0.00	150.0	± 9.6 %
		Υ	4.45	66.79	16.05		150.0	
		Z	4.48	66.63	16.03		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.70	66,91	16.15	0.00	150.0	± 9.6 %
0/10	10 Q/ ((/))	Υ	4.60	67.08	16.18		150.0	
		Ż	4.65	66.95	16.16		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.74	66.94	16.17	0.00	150.0	± 9.6 %
0.70	0+Q/(W)	Y	4.65	67.11	16.20		150.0	
		Z	4.69	66.98	16.18		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.53	66.65	16.05	0.00	150.0	±9.6 %
0,10	Di City	Y	4.44	66.83	16.06	***************************************	150.0	
		Ż	4.48	66.69	16.05		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.72	66.93	16.16	0.00	150.0	± 9.6 %
0, 10	33 11.7	Υ	4.62	67.10	16.19		150.0	
		Z	4.66	66.97	16.17		150.0	
10198- CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.75	66,96	16.18	0.00	150.0	±9.6 %
		Υ	4.64	67.13	16.21		150.0	
		Z	4.69	67.00	16.19		150.0	
10219- CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.48	66.66	16.00	0.00	150.0	± 9.6 %
		Y	4.39	66.84	16.01		150.0	
		Ż	4.43	66.70	16.00		150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.71	66.91	16.16	0.00	150.0	±9.6 %
,-		Y	4.61	67.06	16.18	1	150.0	
		Z	4.66	66.94	16.16		150.0	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.76	66.89	16.17	0.00	150.0	± 9.6 %
		Y	4.65	67.06	16.20		150.0	
		Ż	4.70	66.93	16.18		150.0	
10222- CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.08	67.11	16.29	0.00	150.0	± 9.6 %
		Y	5.00	67.21	16.33		150.0	
	3		, 0.00	~			,	

10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	Х	5.40	67.34	16.44	0.00	150.0	± 9.6 %
		Υ	5.30	67.47	16,48		150.0	
		Z	5.35	67.37	16.45		150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	Х	5.12	67.22	16.27	0.00	150.0	± 9.6 %
		Υ	5.04	67.32	16.31		150.0	
		Z	5.08	67.23	16.28		150.0	
10225- CAB	UMTS-FDD (HSPA+)	Х	2.77	65.87	15.07	0.00	150.0	± 9.6 %
		Υ	2.71	66.11	14.95		150.0	
10000		Z	2.73	65.95	15.01		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	40.90	111.69	32.33	6.02	65.0	±9.6 %
		Υ	100.00	131.74	37.97		65.0	
40007		Z	76.08	124.13	35.71		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	32.04	105.79	30.14	6.02	65.0	± 9.6 %
		Y	100.00	129.20	36.63		65.0	
40000	LITT TOD (OO =====	Z	56,03	116.66	33,17		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	32.49	113.40	34.73	6.02	65.0	± 9.6 %
		Υ	63.93	131.79	40.55		65.0	
4000-		Z	42.68	120.45	36.94		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	37.48	109.96	31.78	6.02	65.0	± 9.6 %
		Υ	100.00	131.51	37.84	***************************************	65.0	
		Z	66.68	121.54	34.97	***************************************	65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	29.78	104.42	29.68	6.02	65.0	± 9.6 %
		Υ	100.00	129.07	36.54		65.0	
		Ζ	50.21	114.61	32.57	***	65.0	***************************************
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	30.12	111.79	34.20	6.02	65.0	± 9.6 %
		Υ	57.30	129.38	39.87		65.0	
		Z	38.78	118.39	36.30		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	37.48	109.97	31.78	6.02	65.0	± 9.6 %
W-7/		Υ	100.00	131.53	37.84		65.0	
		Ζ	66.72	121.56	34.98		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	Х	29.77	104.42	29.68	6.02	65.0	± 9.6 %
		Υ	100.00	129.09	36.55		65.0	
		Ζ	50.19	114.62	32.57		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	28.05	110.17	33.63	6.02	65.0	± 9.6 %
		Υ	51.99	127.09	39.16		65.0	
		Z	35.54	116.41	35.65		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	37.64	110.05	31.80	6.02	65.0	± 9.6 %
		Υ	100.00	131.54	37.84		65.0	
		Z	67.18	121.70	35.01		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	30.09	104.58	29,72	6.02	65.0	±9.6 %
		Υ	100.00	129.03	36.52		65.0	
		Z	50.96	114.84	32.62		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	30.42	112.00	34.26	6.02	65.0	± 9.6 %
		Υ	58.39	129.80	39.98		65.0	
		Z	39.25	118.66	36.38		65.0	
10238-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	Х	37.48	109.98	31.78	6.02	65.0	± 9.6 %
CAD								
CAD		Υ	100.00	131.54	37.84		65.0	

10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	29.75	104.43	29.68	6.02	65.0	± 9.6 %
0/10	0.7 (2,111)	Y	100.00	129.11	36.55		65.0	
		Z	50.17	114.63	32.57		65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	30.30	111.94	34.24	6.02	65.0	± 9.6 %
		Υ	58.14	129.72	39.96		65.0	
		Z	39.09	118.59	36.36		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	11.80	86.80	27.35	6.98	65.0	± 9.6 %
		Y	13.67	92.53	29.81		65.0	
		Z	12.27	88.56	28.08		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	10.15	83.59	26.03	6.98	65.0	± 9.6 %
		Y	12.26	90.20	28.90		65.0	
		Z	10.49	85.23	26.75	0.00	65.0	1000
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	8.15	80.45	25.67	6.98	65.0	± 9.6 %
.,,		Y	9.07	85.16	28.03		65.0	
		Z	8.20	81.43	26.18	~ ~~	65.0	1000
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	8.77	79.58	20.12	3.98	65.0	± 9.6 %
		Y	8.68	79.98	19.73		65.0	
		Z	8.93	80.10	20.07		65.0	. 0 0 0/
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	8.56	78.94	19.83	3.98	65.0	±9.6 %
		Υ	8.27	79.00	19.30		65.0	
		Z	8.60	79.28	19.71		65.0	1000
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	×	9.05	82.96	21.42	3.98	65.0	± 9.6 %
		Y	8.67	82.79	20.89		65.0	
		Z	9.07	83.18	21.25		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	7.31	77.47	20.01	3.98	65.0	± 9.6 %
		Υ	6.88	77.10	19.42		65.0	
		Z	7.16	77.42	19.78		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	7.23	76.85	19.75	3.98	65.0	± 9.6 %
		Υ	6.75	76.40	19.13		65.0	
		Z	7.04	76.72	19.48		65.0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	10.55	85.88	23.24	3.98	65.0	±9.6%
		Υ	11.23	87.71	23.62		65.0	
		<u>Z</u>	11.08	87.02	23.49		65.0	
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	×	8.37	79.97	22.44	3.98	65.0	±9.6%
		Y	8.25	80.64	22.58		65.0	
		Z	8.37	80.40	22.54		65.0	<del> </del>
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	7.79	77.55	21.17	3.98	65.0	± 9.6 %
	-	Υ	7.62	78.12	21.26		65.0	
		Z	7.71	77.78	21.18		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	10.26	85.03	23.77	3.98	65.0	±9.6%
		Υ	11.07	87.53	24.67		65.0	
		Z	10.72	86.30	24.20	<u> </u>	65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	7.69	76.53	21.09	3.98	65.0	± 9.6 %
		Y	7.57	77.22	21.35		65.0	
		Z	7,61	76.75	21.15	1	65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	8.11	77.42	21.76	3.98	65.0	± 9.6 %
		Y	7.99	78.11	22.01		65.0	
		Z	8.04	77.70	21.84		65.0	

10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	8.87	80.90	22.51	3.98	65.0	± 9.6 %
		Y	9.18	82.66	23.26		65.0	1
		Z	9.01	81.69	22.82			
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	7.19	76.04	17.83	3.98	65.0 65.0	± 9.6 %
		Y	6.37	74.72	16.60		65.0	
		Z	6.91	75.63	17.34		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	6.95	75.20	17.41	3.98	65.0	± 9.6 %
		Υ	6.01	73.59	16.03		65.0	
		Z	6.60	74.62	16.84		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	7.08	78.57	19.08	3.98	65.0	± 9.6 %
		Υ	5.96	76.36	17.58		65.0	
10050		Z	6.63	77.70	18.41		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	7.72	78.37	20.87	3.98	65.0	± 9.6 %
		Υ	7.43	78.48	20.58		65.0	
40000		Z	7.64	78.54	20.77		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	7.71	78.04	20.75	3.98	65.0	± 9.6 %
		Υ	7.37	78.04	20.41		65.0	
40004	LITE TOD (OO EDINA (OO)	Ζ	7.60	78.14	20.63		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	9.91	84.71	23.20	3.98	65.0	± 9.6 %
		Y	10.51	86.66	23.72	.,,	65.0	
40000	LTE TOD (OO FOLIA 1000) FOR 5 1111	Z	10.31	85.78	23.47		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	8.35	79.91	22.40	3.98	65.0	± 9.6 %
		Υ	8.23	80.57	22.53		65.0	
40000	LATE TOD (OR EDMA 4000)	Z	8.35	80.33	22.49		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	7.78	77.53	21.17	3.98	65.0	± 9.6 %
		Υ	7.61	78.09	21.25		65.0	
40004		Z	7.70	77.76	21.18		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	10.16	84.83	23.68	3.98	65.0	± 9.6 %
		Υ	10.94	87.30	24.57		65.0	
4000=		Z	10.60	86.08	24.10		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	7.89	77.12	21.33	3.98	65.0	± 9.6 %
		Y	7.75	77.78	21.62		65.0	
40000	LTE TOD (OC FOMA 4000) DR 40	<u>Z</u>	7.80	77.33	21.40		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	8.32	78.04	22.05	3.98	65.0	± 9.6 %
		Y	8.20	78.75	22.36		65.0	
10067	LTE TOD (DO COMA 4000) DD 40	Z	8.26	78.33	22.16		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	9.19	81.29	22.44	3.98	65.0	± 9.6 %
		Y	9.53	83.07	23.22		65.0	
10268-	LITE TOD (CC CDMA 4000) OD 45	Z	9.36	82.10	22.77		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	8.37	76.65	21.54	3.98	65.0	± 9.6 %
		Y	8.20	77.22	21.85	<b></b>	65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Z X	8.27 8.29	76.83 76.22	21.63 21.43	3.98	65.0 65.0	± 9.6 %
<u> </u>	MO IZ, OT GOME!	Y	8.13	76.76	21 70		GE A	-
		Z	8.20	76.78	21.72 21.51		65.0	
10270-	LTE-TDD (SC-FDMA, 100% RB, 15	X	8.55	78.25	21.51	3.98	65.0	± 9.6 %
CAD	MHz, QPSK)					3.86	65.0	I 9.0 %
		Y	8.58	79.32	21.98		65.0	
·····		Z	8.56	78.72	21.66		65.0	<u> </u>

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	Х	2.53	66.08	14.88	0.00	150.0	± 9.6 %
OND	(NGIO. FO)	Υ	2.52	66.54	14.91		150.0	
		Z	2.52	66.24	14.87		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.51	66.90	14.72	0.00	150.0	±9.6 %
07.0	110.0.17	Υ	1.52	67.44	14.98		150.0	
		Z	1.50	67.06	14.77		150.0	
10277- CAA	PHS (QPSK)	X	4.49	67.07	11.86	9.03	50.0	± 9.6 %
		Υ	3.76	65.67	10.51		50.0	
***************************************		Z	4.09	66.15	11.03		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	Х	8.37	78.55	19.37	9.03	50.0	± 9.6 %
		Υ	7.19	76.56	17.89		50.0	
		Z	7.75	77.39	18.52		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	8.51	78.75	19.47	9.03	50.0	± 9.6 %
		Υ	7.31	76.76	18.01		50.0	
		Ζ	7.88	77.58	18.63		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	1.28	66.85	12.83	0.00	150.0	± 9.6 %
		Υ	1.15	66.36	12.07		150.0	
		Z	1.21	66.57	12.40		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	0.73	64.15	11.20	0.00	150.0	± 9.6 %
		Υ	0.69	64.04	10.71		150.0	
		Z	0.69	63.98	10.82		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	Х	0.85	66.79	12.92	0.00	150.0	±9.6 %
		Υ	0.83	67.15	12.67		150.0	
		Ζ	0.82	66.81	12.63		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	Х	1.14	70.77	15.25	0.00	150.0	± 9.6 %
		Υ	1.22	72.07	15.35		150.0	<u> </u>
		Z	1.16	71.38	15.20		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	11.92	86.64	24.71	9.03	50.0	± 9.6 %
		Υ	15.63	91.98	26.09		50.0	
		Z	13.21	88.61	25,13		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	2.66	69.01	16.01	0.00	150.0	±9.6 %
		Υ	2.60	69.22	16.21		150.0	
		Z	2.62	69.08	16.08		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1,46	66.51	13.33	0.00	150.0	± 9.6 %
		Υ	1.32	65.99	12.56		150.0	<u> </u>
		Z	1.39	66.26	12.94		150.0	<u> </u>
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	2.70	69.70	14.37	0.00	150.0	± 9.6 %
		Υ	2.67	70.31	14.00		150.0	
		Z	2.72	70.11	14.27	ļ	150.0	<u> </u>
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	2.09	65.56	11.69	0.00	150.0	± 9.6 %
		Υ	1.84	65.02	10.77	1	150.0	
		Z	1.98	65.35	11.29		150.0	
10301- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	Х	5.46	67.87	18.50	4.17	80.0	± 9.6 %
		Υ	5.32	68.03	18.43		80.0	
		Z	5.39	67.94	18.48		80.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	Х	5.85	67.98	18.95	4.96	80.0	± 9.6 %
		Υ	5.80	68.69	19.24		80.0	
		Z	5.75	67.96	18.88		80.0	

40000								
10303- AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	5.66	67.92	18.92	4.96	80.0	± 9.6 %
		Υ	5.61	68.61	19.19		80.0	
40004		Z	5.56	67.86	18.83		80.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	5.35	67.35	18.18	4.17	80.0	± 9.6 %
		Υ	5.30	68.04	18.43		80.0	
		Z	5,26	67.36	18.12		80.0	•
10305- AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	Х	7.05	76.99	23.82	6.02	50.0	± 9.6 %
		Υ	7.19	78.32	24.16		50.0	
40000		Z	6.80	76.50	23.43		50.0	
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	5.82	69.84	20.44	6.02	50.0	± 9.6 %
***************************************		Y	5.84	70.99	20.86		50.0	
4000=		Z	6.02	71.90	21.62		50.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	Х	6.31	73.07	22.13	6.02	50.0	± 9.6 %
		Y	5.83	71.38	20.88		50.0	
1005-		Z	6.11	72.72	21.84		50.0	
10308- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	6.39	73.64	22.41	6.02	50.0	± 9.6 %
***		Υ	5.90	71.88	21.13		50.0	
		Z	6.20	73.31	22.13		50.0	
10309- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	Х	5.91	70.12	20.60	6.02	50.0	± 9.6 %
		Y	5.91	71.23	21.02		50.0	
		Z	6.11	72.19	21.79		50.0	
10310- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Х	6.22	72.50	21.95	6.02	50.0	± 9.6 %
		Υ	5.84	71.19	20.88		50.0	
		Z	6.05	72.25	21.70		50.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	3.00	68.33	15.71	0.00	150.0	± 9.6 %
		Y	2.96	68.52	15.89		150.0	
		Z	2.97	68.38	15.77		150.0	
10313- AAA	IDEN 1:3	X	6.99	77.76	18.02	6.99	70.0	± 9.6 %
		Y	8.29	81.34	19.42		70.0	
		Z	7.24	78.54	18.23		70.0	
10314- AAA	iDEN 1:6	X	10.49	86.54	23.63	10.00	30.0	± 9.6 %
		Y	12.83	91.81	25.63		30.0	
		Z	11.85	89.04	24.41		30.0	,,,,
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	Х	1.08	63.85	14.84	0.17	150.0	± 9.6 %
		Y	1.11	64.19	15.04		150.0	
		Ζ	1.08	63.97	14.91		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Х	4.62	66.77	16.25	0.17	150.0	± 9.6 %
		Y	4.54	66.97	16.29		150.0	,,,,,,,
		Z	4.57	66.82	16.26		150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.62	66.77	16.25	0.17	150.0	± 9.6 %
		Υ	4.54	66.97	16.29		150.0	
		Z	4.57	66,82	16.26		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	4.70	66,97	16.15	0.00	150.0	± 9.6 %
		Y	4.59	67.15	16.19		150.0	
	-	Z	4.64	67.01	16.16	***************************************	150.0	***************************************
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	Х	5.41	67.24	16.37	0.00	150.0	± 9.6 %
		Υ	E 22	67.00	40.40		/	
		ì I	5.32	67.38	16.42		150.0	

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	Х	5.66	67.55	16.37	0.00	150.0	± 9.6 %
700	5500 4417 575157	Y	5.56	67.58	16.37		150.0	
		Z	5.60	67.52	16.36	***************************************	150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.28	66.85	12.83	0.00	115.0	±9.6 %
		Υ	1.15	66.36	12.07		115.0	
		Z	1.21	66.57	12.40		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	Х	1.28	66.85	12.83	0.00	115.0	± 9.6 %
		Υ	1.15	66.36	12.07		115.0	
		Z	1.21	66.57	12.40		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	Х	31.97	105.65	26.52	0.00	100.0	± 9.6 %
		Υ	100.00	119.11	28.78		100.0	
		Z.	100.00	120.25	29.60		100.0	
10410- AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	Х	100.00	119.16	29.68	3.23	80.0	±9.6 %
		Υ	100.00	122.81	30.98		80.0	
		Z	100.00	120.19	29.97		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	0.96	62.46	13.98	0.00	150.0	± 9.6 %
		Y	0.99	62.90	14.23		150.0	
		Z	0.95	62.59	14.06		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	Х	4.53	66.62	16.09	0.00	150.0	±9.6%
		Υ	4.45	66.83	16.13		150.0	
		Z	4.48	66.68	16.10		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	Х	4.53	66.62	16.09	0.00	150.0	±9.6%
·····		Υ	4.45	66.83	16.13		150.0	
		Z	4.48	66.68	16.10		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	Х	4.51	66.76	16.09	0.00	150.0	±9.6 %
		Y	4.44	67.00	16.16		150.0	
		Z	4.47	66.83	16.12		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	Х	4.54	66.72	16.10	0.00	150.0	± 9.6 %
		Υ	4.46	66.94	16.15		150.0	
		Z	4.49	66.78	16.12		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	Х	4.66	66.73	16.13	0.00	150.0	± 9.6 %
		Y	4.57	66.94	16.17		150.0	
		Z	4.61	66.79	16.14		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.83	67.07	16.25	0.00	150.0	± 9.6 %
		Υ	4.72	67.22	16.28		150.0	
		Z	4.77	67.10	16.25		150.0	1
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	Х	4.75	67.01	16.22	0,00	150.0	± 9.6 %
		Y	4.64	67.18	16.25		150.0	<u> </u>
		Z	4.69	67.05	16.23		150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	Х	5.37	67.43	16.45	0.00	150.0	± 9.6 %
		Υ	5.26	67.46	16.45		150.0	
		Z	5.32	67.43	16.46		150.0	
10426- AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.37	67.44	16.46	0.00	150.0	± 9.6 %
		Y	5.28	67.55	16.49		150.0	
		Z	5.33	67.49	16.49	1	150.0	-

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	5.38	67.41	16.44	0.00	150.0	± 9.6 %
		Y	5.27	67.46	16.44		150.0	
		Z	5.33	67.43	16.45		150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.17	70.27	17.81	0.00	150.0	± 9.6 %
		Υ	4.03	70.48	17.58	<b>†</b>	150.0	
		Z	4.14	70.57	17.85	<del>                                     </del>	150.0	<del></del>
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	Х	4.21	67.11	16.05	0.00	150.0	± 9.6 %
		Υ	4.09	67.33	16.03		150.0	
40400		Z	4.15	67.18	16.04		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	Х	4.51	67.03	16.15	0.00	150.0	± 9.6 %
		Y	4.40	67.23	16.17		150.0	
40400	LTC EDD (OED) (A co. )	Z	4.46	67.08	16.15		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	Х	4.76	67.04	16.24	0.00	150.0	± 9.6 %
		Y	4.66	67.21	16.27		150.0	
10434-	W CDMA /BC Toot Madel 4 O4 BBOLD	Z	4.71	67.08	16.24		150.0	
AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.23	70.97	17.72	0.00	150.0	± 9.6 %
		Υ	4.07	71.14	17.40		150.0	
10435-	THE TOD (CC FOMA A DD CO MIL	Z	4.21	71.31	17.74		150.0	
AAC AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	118.98	29.60	3.23	80.0	± 9.6 %
		Υ	100.00	122.59	30.87		80.0	
10447-	LTE EDD (OFDIA) E MILL E TILO.	Z	100.00	119.99	29.88		80.0	
AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.49	66.99	15.32	0.00	150.0	± 9.6 %
		Υ	3.34	67.16	15.09		150.0	
40440	LTE EDD (OFDMA (O.M.)	Z	3.41	67.04	15.22		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	Х	4.04	66.88	15.90	0.00	150.0	± 9.6 %
		Υ	3.94	67.12	15.89		150.0	
40440		Z	3.99	66.95	15.89		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	Х	4.32	66.84	16.03	0.00	150.0	± 9.6 %
		Υ	4.23	67.04	16.06		150.0	
40450		Z	4.27	66.90	16.04		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.51	66.79	16.08	0.00	150.0	± 9.6 %
		Y	4.44	66.97	16.11		150.0	
10451-	W ODMA /DOT 114 O4 DDOI	Z	4.47	66.83	16.09		150.0	
AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.37	67.12	14.92	0.00	150.0	± 9.6 %
		Y	3.19	67.13	14.54		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	Z X	3.28 6.23	67.11 67.99	14.76 16.62	0.00	150.0 150.0	± 9.6 %
	1, -, -, -, -, -, -, -, -, -, -, -,	Υ	6.17	68.10	16.67		150.0	
		Ż	6.19	67.99	16.63		150.0	***************************************
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.77	65.25	15.79	0.00	150.0	± 9.6 %
		Υ	3.75	65.50	15.83		150.0	
		Z	3.75	65.32	15.80		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	Х	3.87	70.16	17.10	0.00	150.0	± 9.6 %
		Υ	3.71	70.34	16.66		150.0	
		Z	3.84	70.49	17.05		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	Х	5.00	67.94	17.87	0.00	150.0	± 9.6 %
<del>4</del> /4/4								
		Υ	4.81	68.13	17.56		150.0	

10460-	UMTS-FDD (WCDMA, AMR)	ΧТ	0.79	66.34	14.61	0.00	150.0	± 9.6 %
AAA					45.45		450.0	
		Y	0.84	67.16	15.15		150.0 150.0	
40404	LTE TDD (CC EDMA 4 DB 4 4 MU»	Z X	0.79 100.00	66.65 122.59	14.76 31.33	3.29	80.0	± 9.6 %
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)					3.29		1 9.0 70
		Y	100.00	128.70	33.71		80.0	
		Z	100.00	124.88	32.17	0.00	80.0	1069/
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	21.46	90.49	19.92	3.23	80.0	± 9.6 %
		Y	100.00	107.87	23.85		80.0	
		Z	100.00	106.49 74.65	23.49	3.23	80.0 80.0	± 9.6 %
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.25		14.70	3.23		I 9.0 %
		Υ	19.71	88.51	18.38		80.0	
		Z	7.19	78.06	15.56	0.00	80.0	1069
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	120.34	30.14	3.23	80.0	± 9.6 %
		Υ	100.00	126.35	32.46		80.0	
		Ζ	100.00	122.50	30.92		80.0	
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	11.73	83.97	18.05	3.23	80.0	± 9.6 %
		Υ	100.00	107.24	23.55		80.0	
		Z	41.80	97.17	21.26		80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	4.09	72.04	13.74	3.23	80.0	± 9.6 %
		Υ	8.97	80.87	16.24		80.0	
		Z	4.77	73.97	14.19		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	120.57	30.24	3.23	80.0	± 9.6 %
		Υ	100.00	126.64	32.58		80.0	
		Z	100.00	122.76	31.03		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	13.52	85.52	18.51	3.23	80.0	± 9.6 %
		Y	100.00	107.47	23.65		80.0	l l
		Z	60.78	101.09	22.20		80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	4.11	72.11	13.77	3.23	80.0	± 9.6 %
		Y	9.29	81.22	16.33		80.0	
		Z	.4.83	74.11	14.24		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100,00	120.59	30.24	3.23	80.0	± 9.6 %
		Y	100.00	126.67	32.59		80.0	1
,		Z	100.00	122.78	31.03		80.0	
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	13.37	85.38	18.46	3.23	80.0	± 9.6 %
		Υ	100.00	107.40	23.62		80.0	
		Z	59.33	100.79	22.11		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.08	72.03	13.72	3.23	80.0	± 9.6 %
		Y	9.15	81.05	16.27		80.0	
		Z	4.78	73.98	14.18		80.0	
10473- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	120.56	30.23	3.23	80.0	± 9.6 %
		Υ	100.00	126,64	32.58		80.0	
		Z	100.00	122.75	31.02		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	13.19	85.24	18.42	3.23	80.0	± 9.6 %
, 100	1	Υ	100.00	107.40	23.61		80.0	
· · · · · · · · · · · · · · · · · · ·		Z	57.55	100.49	22.04		80.0	
10475-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-	X	4.06	71.97	13.71	3.23	80.0	± 9.6 %
	I DAM III Subtrame=23.4 / 8.91							
AAC	QAM, UL Subframe=2,3,4,7,8,9)	Y	8.99	80.90	16.23		80.0	

10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	11.86	84.06	18.05	3.23	80.0	± 9.6 %
		Y	100.00	107.19	23.51		80.0	
40470	LTE TDD (06	Z	43.65	97.56	21.32		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.02	71.87	13.66	3.23	80.0	± 9.6 %
		Υ	8.76	80.61	16.13		80.0	
40470	LTC TDD (OO TDV)	Z	4.66	73.74	14.09		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	14.17	93.60	25.28	3.23	80.0	± 9.6 %
		Υ	63.86	118.32	31.85		80.0	
10480-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z	30.71	105.97	28.68		80.0	
AAA	16-QAM, UL Subframe=2,3,4,7,8,9)	X	12.48	86.47	21.39	3.23	80.0	± 9.6 %
		Y	53.06	106.13	26.31		0.08	
10481-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z	23.73	95.20	23.69		80.0	
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)	Х	9.79	82.49	19.78	3.23	80.0	± 9.6 %
		Y	26.62	95.88	23.20		80.0	
10482-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	Z	15.46	88.60	21.40		80.0	
AAA	QPSK, UL Subframe=2,3,4,7,8,9)	X	4.76	76.35	18.33	2.23	80.0	±9.6%
		Y	4.38	75.77	17.66		80.0	
10483-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	Z	4.74	76.54	18.16		80.0	
AAA	16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.86	78.09	18.71	2.23	80.0	± 9.6 %
		Y	7.58	79.80	18.72		80.0	
10484-	LTC TDD (CC EDMA 500/ DD C MIL	Z	7.91	80.19	19.17		80.0	
AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.29	76.73	18.22	2.23	80.0	±9.6 %
		Υ	6.51	77.64	17.97		80.0	
40405		Ζ	6.95	78.27	18.51		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.21	77.92	19.79	2.23	80.0	± 9.6 %
		Υ	5.14	78.56	19.82		80.0	
40400		Z	5.34	78.68	19.95		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.30	72.12	17.19	2.23	80.0	± 9.6 %
		Υ	4.02	71.85	16.65		80.0	
1010=		Ζ	4.23	72.22	17.03		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.25	71.63	16.98	2.23	80.0	± 9.6 %
***************************************		Υ	3.95	71.26	16.39		80.0	
40405		Z	4.16	71.66	16.79		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.17	76.41	19.90	2.23	80.0	± 9.6 %
		Υ	5.01	76.93	20.15		80.0	
40400	LITE TOD (OO FOLK FOR FOR	Z	5.17	76.91	20.10		80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.47	71.61	18.14	2.23	80.0	± 9.6 %
·····		Υ	4.30	71.84	18.12		80.0	
40400	LITE TOP (OO FOLK)	Z	4.42	71.84	18.19		80.0	
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.53	71.33	18.05	2.23	80.0	± 9.6 %
		Υ	4.36	71.56	18.01		80.0	
10491-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	Z X	4.48 5.06	71.55 74.04	18.09 19.16	2.23	80.0 80.0	± 9.6 %
AAC	QPSK, UL Subframe=2,3,4,7,8,9)		***************************************					
		Y	4.88	74.37	19.37	***************************************	80,0	
/ 0 / 0 - 0		Z	5.01	74.33	19.30		80.0	
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.71	70.55	18.02	2.23	80.0	± 9.6 %
		Υ	4.54	70.71	18.05		80.0	
		Z	4.64	70.68	18.06			

10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.76	70.36	17.96	2.23	80.0	± 9.6 %
	5 - 2 (iii) 0 a 0 0 0 0 0 0 iii) 1   1   1   1   1   1   1   1   1   1	Y	4.58	70.52	17.98		80.0	
		Z	4.69	70.49	18.00		80.0	
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.60	75.75	19.64	2.23	80.0	± 9.6 %
7770	Qi Cit; OE Gabitanto 2,6,1,1,6,6)	Y	5.37	76.02	19.87		80.0	
		Z	5.56	76.06	19.81		80.0	
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.78	71.03	18.23	2.23	80.0	± 9.6 %
<u> </u>	10 Q/ tivi, GE Oubildino 2,0,111,0,0)	Υ	4.59	71.11	18.27		0.08	
***************************************		ż	4.71	71.14	18,28		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.83	70.65	18.12	2.23	80.0	± 9.6 %
		Υ	4.64	70.74	18.15		80.0	
		Z	4.75	70.76	18.17	***************************************	80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3,37	71.45	15.57	2.23	80.0	± 9.6 %
		Υ	2.72	69.17	13.95		80.0	
		Z	3.09	70.50	14.83		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.40	64.81	11.76	2.23	80.0	±9.6%
	,,,,,,,	Y	1.75	62.03	9.60		80.0	
		Z	2.07	63.39	10.68		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.32	64.18	11.33	2.23	80.0	± 9.6 %
		Υ	1.68	61.41	9.14		80.0	<u> </u>
		Z	1.99	62.76	10.23		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.05	76.85	19.69	2.23	80.0	± 9.6 %
		Υ	4.98	77.59	19.85		80.0	1
		Z	5.12	77,53	19.88		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.38	71.91	17.55	2.23	80.0	± 9.6 %
		Y	4.19	72.01	17.27	<u> </u>	80.0	
		Z	4.33	72.13	17.50		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.41	71.66	17.40	2.23	80.0	± 9.6 %
		Υ	4.21	71.71	17.09		80.0	
		Z	4.36	71.85	17.33		80.0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.10	76.19	19.80	2.23	80.0	± 9.6 %
		Y	4.94	76.71	20.05		80.0	
		Z	5.10	76.67	19.99		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4,44	71.51	18.08	2.23	80.0	±9.6%
		Υ	4.28	71.74	18.06		80.0	
		Z	4.39	71.73	18.13		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.51	71.23	18.00	2.23	80.0	± 9.6 %
		Υ	4.34	71.46	17.96		80.0	
		Z	4.45	71.44	18.03		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.55	75.59	19.57	2.23	80.0	± 9.6 %
		Υ	5.33	75.87	19.80		80.0	
		Z	5.51	75.90	19.73		80.0	ļ
10507- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.76	70.96	18.19	2.23	80.0	± 9.6 %
		Y	4.57	71.05	18.23		80.0	
		Z	4.69	71.07	18.24		80.0	

10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.81	70.58	18.08	2.23	80.0	± 9.6 %
		Y	4.62	70.68	18.11		80.0	
		Z	4.73	70.68	18.12		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.59	73.58	18.84	2.23	80.0	± 9.6 %
		Y	5.39	73.76	19.02		80.0	<del>-</del>
		Z	5.53	73.76	18.95		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.20	70.42	18.08	2.23	80.0	±9.6 %
		Υ	4.99	70.43	18.12		80.0	
		Z	5.11	70.45	18.12		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.22	70.10	18.00	2.23	80.0	±9.6 %
		Υ	5.03	70.13	18.04		80.0	
		Z	5.14	70.14	18.03		80.0	<u> </u>
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.02	75.44	19.39	2.23	80.0	± 9.6 %
		Υ	5.78	75.56	19.57		80.0	
10510		Z	5.97	75.65	19.51		80.0	
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.12	70.82	18.23	2.23	80.0	± 9.6 %
		Υ	4.91	70.75	18.25	····	80.0	
40544	LTC TDD (OO FOLK)	Z	5.03	70.83	18.26		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.09	70.31	18.08	2.23	80.0	± 9.6 %
		Υ	4.90	70.27	18.11		80.0	
		Z	5.01	70.33	18.11		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.92	62.60	13.99	0.00	150.0	± 9.6 %
		Y	0.95	63.05	14.27		150.0	
10516-	IEEE 000 44h MEE 0 4 OU (DOOD E.E.	Z	0.91	62.72	14.07		150.0	
AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.48	67.26	14.71	0.00	150.0	± 9.6 %
		Y	0.54	68.48	15.75		150.0	
10517-	IEEE 802,11b WiFi 2.4 GHz (DSSS, 11	Z	0.49 0.75	67.82	15.05	0.00	150.0	
AAA	Mbps, 99pc duty cycle)	Y	0.79	64.05 64.60	14.24	0.00	150.0	± 9.6 %
		Z	0.75	64.23	14.65 14.37		150.0 150.0	<u></u>
10518- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.52	66.69	16.06	0.00	150.0	± 9.6 %
		Υ	4.44	66.90	16.10		150.0	
		Z	4.47	66.75	16.07		150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	Х	4.71	66.95	16.20	0.00	150.0	± 9.6 %
		Υ	4.60	67.11	16.21		150.0	
40500		Z	4.65	66.98	16.20		150.0	
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.56	66.90	16.11	0.00	150.0	± 9.6 %
		Y	4.46	67.05	16.12		150.0	
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	Z X	4.50 4.49	66.93 66.89	16.11 16.09	0.00	150.0 150.0	± 9.6 %
***		Y	4.39	67.03	16.11		150.0	
		Z	4.44	66.91	16.09		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	Х	4.55	66.96	16.17	0.00	150.0	± 9.6 %
		Υ	4.45	67.16	16.21		150.0	
		Z	4.50	67.02	16.19		150.0	

10500	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	X	4,43	66.81	16.00	0.00	150.0	± 9.6 %
10523- AAB	Mbps, 99pc duty cycle)					0.00		± 0.0 /a
		Y	4.35	67.05	16.07		150.0	
		Z	4.38	66.88	16.02		150.0	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	Х	4.50	66,89	16.14	0.00	150.0	± 9.6 %
		Υ	4.39	67.08	16.18		150.0	
		Z	4.44	66.94	16.15		150.0	
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	Х	4.47	65.92	15.72	0.00	150.0	± 9.6 %
		Y	4.40	66.15	15.78		150.0	
		Z	4.43	65.98	15.74	2.00	150.0	. 0.0.0/
10526- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.65	66.29	15.87	0.00	150.0	± 9.6 %
		Y	4.55	66.47	15.91		150.0	
		Z	4.59	66.34	15.88	0.00	150.0	1000
10527- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.57	66.25	15.81	0.00	150.0	± 9.6 %
		Υ	4.47	66.43	15.85		150.0	
		Z	4.52	66.29	15.82		150.0	
10528- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	Х	4.58	66.27	15.84	0.00	150.0	± 9.6 %
		Υ	4.49	66.45	15.88		150.0	
		Z	4.53	66.31	15.85	0.00	150.0	± 9.6 %
10529- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	Х	4.58	66.27	15.84	0.00	150.0	± 9.6 %
		Y	4.49	66.45	15.88		150.0	
		Z	4.53	66.31	15.85	0.00	150.0	1000
10531- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	Х	4.58	66.38	15.85	0.00	150.0	± 9.6 %
		Υ	4.46	66.51	15.87		150.0	
		Z	4.52	66.40	15.86		150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	Х	4.44	66.22	15.78	0.00	150.0	± 9.6 %
		Υ	4.33	66.36	15.80		150.0	
		Z	4.38	66.25	15.78		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.59	66.30	15.83	0.00	150.0	± 9.6 %
		Υ	4.49	66.51	15.88		150.0	ļ
		Z	4.54	66.36	15.84		150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	Х	5.13	66.43	15.94	0.00	150.0	±9.6 %
		Υ	5.04	66.54	15.97		150.0	
		Z	5.08	66.45	15.95		150.0	
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	Х	5.20	66.61	16.01	0.00	150.0	± 9.6 %
		Υ	5.10	66.71	16.05	ļ	150.0	<u> </u>
		Z	5.15	66.64	16.04		150.0	1.000
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	Х	5.06	66.54	15.96	0.00	150.0	± 9.6 %
		Y	4.98	66.67	16.01		150.0	<u> </u>
		Z	5.01	66.57	15.98		150.0	
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.12	66.52	15.95	0.00	150.0	± 9.6 %
		Y	5.03	66.63	15.99		150.0	
10538-	IEEE 802.11ac WiFi (40MHz, MCS4,	Z X	5.07 5.22	66.54 66.56	15.97 16.02	0.00	150.0 150.0	± 9.6 %
AAB	99pc duty cycle)			00.04	40.04	<u> </u>	150.0	-
		Y	5.11	66.64	16.04		150.0	
10515		Z	5.16	66.56	16.02	0.00	150.0	1069
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.14	66.57	16.03	0.00	150.0	± 9.6 %
		Υ	5.04	66.62	16.05		150.0	
		Z	5.10	66.60	16.05		150.0	

10541-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	5,11	66.43	15.96	0.00	150.0	± 9.6 %
AAB	99pc duty cycle)					0.00		1 3.0 /6
		Y	5.02	66.51	15.98		150.0	
10542-	IEEE 802.11ac WiFi (40MHz, MCS8,		5.07	66.45	15.97		150.0	
AAB	99pc duty cycle)		5.27	66.51	16.02	0.00	150.0	± 9.6 %
		Y	5.18	66.61	16.04		150.0	
10543-	IEEE 900 44 to MIEE 440MH - MOOO	Z	5.22	66.53	16.03		150.0	
AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.36	66.57	16.06	0.00	150.0	± 9.6 %
		Y	5.24	66.63	16.08		150.0	
10544-	IEEE 000 44 MIE: (DOME) MOOO	Z	5.30	66.57	16.07		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.43	66.55	15.94	0.00	150.0	± 9.6 %
· · · · · · · · · · · · · · · · · · ·		Y	5.37	66.65	15.97		150.0	
10545-	IFFE DOD 44 - MIST (DODAL)	Z	5.40	66.56	15.95		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	Х	5.64	67.00	16.11	0.00	150.0	±9.6%
		Y	5.55	67.08	16.15		150.0	
10510	IEEE 000 44 INVENTOR INVENTOR	Z	5.60	67.02	16.13		150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.50	66.78	16.02	0.00	150.0	± 9.6 %
		Y	5.41	66.80	16.02		150.0	
10517	IFFE 000 44 - MITTI (000 TO TOTAL)	Z	5.46	66.76	16.01		150.0	
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	Х	5.58	66.83	16.03	0.00	150.0	±9.6 %
		Y	5.49	66.87	16.05		150.0	
40540	1===	Z	5.53	66.81	16.03		150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.89	67.94	16.56	0.00	150.0	± 9.6 %
		Υ	5.69	67.68	16.43		150.0	
		Z	5.80	67.83	16.51		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.53	66.79	16.03	0.00	150.0	± 9.6 %
		Υ	5.46	66.91	16.08		150.0	
		Z	5.49	66,81	16.05		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.53	66.82	16.01	0.00	150.0	± 9.6 %
····		Υ	5.44	66,85	16.02		150.0	
·		Z	5.49	66.83	16.02		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	Х	5.44	66.61	15.91	0.00	150.0	± 9.6 %
		Υ	5.38	66.72	15.95	***************************************	150.0	
		Z	5.40	66.62	15.92		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.53	66.66	15.96	0.00	150.0	± 9.6 %
		Y	5.45	66.72	15.99		150.0	
		Z	5.48	66.65	15.97		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.84	66.93	16.04	0.00	150.0	± 9.6 %
***		Υ	5.78	67.01	16.06		150.0	
		Z	5.81	66.94	16.05		150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	Х	5.98	67.25	16.17	0.00	150.0	± 9.6 %
		Y	5.90	67.29	16.19		150.0	
40		Z	5.94	67.25	16.18		150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.00	67.29	16.19	0.00	150.0	± 9.6 %
		Υ	5.93	67.35	16.21		150.0	
		Z	5.96	67.30	16.20		150.0	
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.96	67.20	16.16	0.00	150.0	±9.6 %
		Υ	5.88	67.23	16.17		150.0	
		Z	5.92	67.18	16.16		150,0	

10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	Х	6.01	67.37	16.26	0.00	150.0	± 9.6 %
		Y	5.92	67.38	16.26		150.0	
		Z	5.97	67.35	16.26	<u> </u>	150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.01	67.21	16.22	0.00	150.0	± 9.6 %
·		Y	5.92	67.24	16.23		150.0	
		Z	5.96	67.19	16.22		150.0	
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	Х	5.93	67.18	16.25	0.00	150.0	± 9.6 %
		Y	5.85	67.23	16.26		150.0	
		Z	5.89	67.18	16.25		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.07	67.61	16.46	0.00	150.0	± 9.6 %
		Υ	5.94	67.50	16.40		150.0	
		Z	6.01	67.54	16.43		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	Х	6.39	68.16	16.69	0.00	150.0	± 9.6 %
		Υ	6.02	67.41	16.31		150.0	
~~~		Z	6.19	67.71	16.48		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	Х	4.86	66.83	16.26	0.46	150.0	±9.6%
-		Υ	4.78	67.03	16.31		150.0	
		Ζ	4.81	66.87	16.27		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	Х	5.09	67.28	16.58	0.46	150.0	± 9.6 %
		Y	4.98	67.43	16.60		150.0	
		Z	5,03	67.31	16.59		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	Х	4.93	67,13	16.40	0.46	150.0	±9.6 %
		Υ	4.82	67.27	16.42		150.0	
		Z	4.87	67.15	16.40		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	4.95	67.50	16.74	0.46	150.0	± 9.6 %
		Y	4.84	67.61	16.74		150.0	
		Z	4.90	67.52	16.74		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	4.85	66.93	16.19	0.46	150.0	± 9.6 %
		Y	4.74	67.12	16.24		150.0	
		Z	4.79	66.97	16.19		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	Х	4.91	67.57	16.79	0.46	150.0	± 9.6 %
		Y	4.82	67.76	16.84		150.0	
		Z	4.86	67.64	16.82		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	4.94	67.43	16.73	0.46	150.0	± 9.6 %
		Υ	4.84	67.60	16.77		150.0	ļ <u> </u>
		Z	4.89	67.48	16.75		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	Х	1.25	65.19	15.53	0.46	130.0	± 9.6 %
		Υ	1.27	65.45	15.71		130.0	
		Z	1.24	65.29	15.60		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	Х	1.27	65.79	15.87	0.46	130.0	± 9.6 %
		Υ	1.28	66.03	16.05		130.0	
		Z	1.26	65.90	15.96		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	Х	2.61	85.52	21.81	0,46	130.0	± 9.6 %
		Y	2.97	88.51	23.34		130.0	
		Z	3.01	88.05	22.71		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.44	71.64	18.59	0.46	130.0	± 9.6 %
		Y	1.44	71.68	18.74		130.0	T
		Z	1.45	72.00	18.80		130.0	

10575- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.68	66.71	16.37	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)	 . _	4.50					
		Y Z	4.59 4.63	66.91 66.76	16.41		130.0	1
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.70	66.86	16.38	0.46	130.0 130.0	± 9.6 %
AAA	OFDM, 9 Mbps, 90pc duty cycle)				10.70	0.40	100.0	1 3.0 %
		Y	4.61	67.07	16.47		130.0	
10577-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.65	66.92	16,44		130.0	
AAA	OFDM, 12 Mbps, 90pc duty cycle)		4.91	67.16	16.60	0.46	130.0	± 9.6 %
		Y	4.79 4.85	67.31	16.62		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.81	67.20 67.32	16.60 16.69	0.46	130.0 130.0	± 9.6 %
		Y	4.69	67.44	16.70		130.0	
40570		Z	4.75	67.35	16.70		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	Х	4.58	66.65	16.03	0.46	130.0	± 9.6 %
· · · · · · · · · · · · · · · · · · ·		Y	4.47	66.80	16.06		130.0	
10580-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.52	66.66	16.02		130.0	
AAA	OFDM, 36 Mbps, 90pc duty cycle)	^ _	4.63	66.68	16.05	0.46	130.0	± 9.6 %
*****		Z	4.52 4.57	66.87	16.11 16.05		130.0	
10581-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.71	67.36	16.64	0.46	130.0 130.0	± 9.6 %
AAA	OFDM, 48 Mbps, 90pc duty cycle)					0.70		19.0 %
		Y	4.60	67.52	16.66		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.65 4.53	67.41 66.42	16.65 15.83	0.46	130.0 130.0	± 9.6 %
	ST SWI, OF MISPS, COPE daily cycle)	Y	4.41	66.60	15.88		130.0	
		Z	4.46	66.43	15.82		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	Х	4.68	66.71	16.37	0.46	130.0	± 9.6 %
		Υ	4.59	66.91	16.41		130.0	
10584-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9	Z	4.63	66.76	16.38		130.0	
AAB	Mbps, 90pc duty cycle)	X	4.70	66.86	16.43	0.46	130.0	± 9.6 %
		Y	4.61	67.07	16.47		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.65 4.91	66.92 67.16	16.44 16.60	0.46	130.0 130.0	± 9.6 %
		Y	4.79	67.31	16,62		130.0	
		Z	4.85	67.20	16.60		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	Х	4.81	67.32	16.69	0.46	130.0	± 9.6 %
		Υ	4.69	67.44	16.70		130.0	
10587-	IEEE 902 44 of Wift E CUL (OFDM 24	Z	4.75	67.35	16.70		130.0	
AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.58	66.65	16.03	0.46	130.0	± 9.6 %
		Y	4.47 4.52	66.80	16.06		130.0	
10588-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36	X	4.63	66.66 66.68	16.02 16.05	0.46	130.0 130.0	± 9.6 %
AAB	Mbps, 90pc duty cycle)	^ Y	4.52	66.87	16.11	V. T U	L	± 3.0 76
		Z	4.57	66.71	16.11		130.0 130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.71	67.36	16.64	0.46	130.0	± 9.6 %
		Υ	4.60	67.52	16.66		130.0	
10500		Z	4.65	67.41	16.65		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	Х	4.53	66.42	15.83	0.46	130.0	± 9.6 %
		Y	4.41	66,60	15.88		130.0	
		Z	4.46	66.43	15.82		130.0	

10591-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.83	66.77	16.47	0.46	130.0	± 9.6 %
AAB	MCS0, 90pc duty cycle)			60.00	16.50		130.0	
		Y	4.74	66.96	16.48		130.0	
		Z	4.78	66.82	16.60	0.46	130.0	± 9.6 %
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.98	67.10		0.40		2 3.0 70
		Y	4.87	67.27	16.63		130.0	
		Z	4.93	67.14	16.61		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.91	67.02	16.48	0.46	130.0	± 9.6 %
		Y	4.80	67.17	16.51		130.0	
		Z	4.85	67.05	16.49		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.96	67,18	16.63	0.46	130.0	± 9.6 %
		Y	4.85	67.33	16.66		130.0	
		Z	4.90	67.22	16.64		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.93	67.14	16.53	0.46	130.0	± 9.6 %
		Y	4.82	67.31	16.57		130.0	
		Ż	4.87	67.18	16.54		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.87	67.14	16.54	0.46	130.0	± 9.6 %
7010	Mood, cope daty cycley	Y	4.76	67.30	16.57		130.0	
		Z	4.81	67.18	16.54		130.0	
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	Х	4.82	67.05	16.42	0.46	130.0	± 9.6 %
7010	Mood, copo daty cyclor	Y	4.71	67.19	16.44		130.0	
		Z	4.76	67.07	16.42		130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.80	67.28	16.68	0.46	130.0	± 9.6 %
AAD	WC37, 90pc daty cyclej	Y	4.69	67.37	16.67		130.0	
		Z	4.74	67.29	16.67		130.0	
10599-	IEEE 802.11n (HT Mixed, 40MHz,	X	5.50	67.33	16.69	0.46	130.0	± 9.6 %
AAB	MCS0, 90pc duty cycle)	Y	5.40	67.43	16.72		130.0	
		$\frac{1}{Z}$	5.46	67.38	16.72		130.0	
10600-	IEEE 802.11n (HT Mixed, 40MHz,	X	5.67	67.87	16.93	0.46	130.0	±9.6%
AAB	MCS1, 90pc duty cycle)	$\neg \uparrow_{Y}$	5.53	67.86	16.92		130.0	
		$\frac{1}{Z}$	5.61	67.87	16.94		130.0	
10601-	IEEE 802.11n (HT Mixed, 40MHz,	X	5.54	67.56	16.79	0.46	130.0	± 9.6 %
AAB	MCS2, 90pc duty cycle)	Y	5.42	67.61	16.80		130.0	
		Z	5.48	67.56	16.80		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.63	67.58	16.72	0.46	130.0	± 9.6 %
770	WOOO, Sope duty byole)	Y	5.55	67.79	16.82		130.0	
		Z	5.59	67.64	16.76		130.0	
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.71	67.86	16.99	0.46	130.0	± 9.6 %
VVD	wico-r, cope duty cycle)	Y	5.61	68.00	17.05		130.0	
			5.65	67.89	17.01		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.50	67.29	16.70	0.46	130.0	± 9.6 %
,010		Y	5.49	67.68	16.88		130.0	
		Z	5.47	67.39	16.75		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.63	67.69	16.90	0.46	130.0	± 9.6 %
	1	Y	5.53	67.80	16.94		130.0	
		Z	5.59	67.74	16.92		130.0	
10606-	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.39	67.07	16.45	0.46	130.0	± 9.6 %
Ι ΔΔΗ	I INICIOTA GODO GULLA CACIOL				1	1		
AAB	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Υ	5.27	67.10	16.45		130.0	

AAB			4.65	66.04	16.07	0.46	130.0	± 9.6 %
	90pc duty cycle)	Y	4.58	66.26	40.40		1000	
		Z	4.61	66.10	16.12 16.08		130.0 130.0	
10608- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.85	66.45	16.23	0.46	130.0	± 9.6 %
		Y	4.74	66.63	16.28		130.0	
		Z	4.79	66.50	16.25		130.0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	Х	4.74	66.30	16.07	0.46	130.0	± 9.6 %
		Y	4.63	66.48	16.11		130.0	
10610-	IEEE 000 44 - WEEE (000 H) MOOO	Z	4.68	66.35	16.08		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.79	66.46	16.23	0.46	130.0	± 9.6 %
****		Y	4.68	66.63	16.27		130.0	
10611-	IEEE 902 44 oo M//E: /2004 II- 1400 4	Z	4.73	66.50	16.25		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.70	66.28	16.09	0.46	130.0	± 9.6 %
		Y	4.60	66.45	16.12		130.0	
10612-	IEEE 802.11ac WiFi (20MHz, MCS5,	Z	4.65	66.31	16.10		130.0	
AAB	90pc duty cycle)	X	4.72	66.43	16.13	0.46	130.0	± 9.6 %
		Y	4.60	66.61	16.18		130.0	
10613-	IEEE 802.11ac WiFi (20MHz, MCS6,	Z	4.66	66.47	16.14		130.0	
AAB	90pc duty cycle)	X	4.72	66.33	16.02	0.46	130.0	± 9.6 %
		Y	4.60	66.47	16.05		130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	Z X	4.66 4.66	66.35 66.50	16.02 16.24	0.46	130.0 130.0	± 9.6 %
7010	cope daty cycle)	Y	4.55	66.60	40.05		400.0	
		Z	4.60	66.62 66.53	16.25 16.25		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.71	66.12	15.87	0.46	130.0 130.0	± 9.6 %
	- sope day system	Y	4.60	66.33	15.93		130.0	
		Ż	4.65	66.16	15.88		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.31	66.56	16.28	0.46	130.0	± 9.6 %
		Y	5.21	66.65	16.31		130.0	
		Z	5.26	66.57	16.29		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.38	66.74	16.35	0.46	130.0	± 9.6 %
		Y	5.29	66.86	16.39		130.0	
		Z	5.34	66.79	16.37		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.2 6	66.74	16.36	0.46	130.0	± 9.6 %
		Y	5.18	66.87	16.40		130.0	
40040	IEEE 000 44	Z	5.22	66.77	16.38		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.29	66.59	16.22	0.46	130.0	± 9.6 %
		Y	5.19	66.67	16.25		130.0	
40000	IEEE 000 44- 1975 (4019)	Z	5.23	66.58	16.22		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	Х	5.38	66.62	16.29	0.46	130.0	± 9.6 %
		Y	5.27	66.70	16.31		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	Z	5.32 5.37	66.62 66.71	16.29 16.45	0.46	130.0 130.0	± 9.6 %
WD	Jope duty cycle)	Y	5.27	66.00	10.47		400.0	
w		Z	5.32	66.80 66.74	16.47 16.47		130.0 130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5,39	66.89	16.53	0.46	130.0	± 9.6 %
	1 000 444, 0,00	Y	5.29	66.97	16.55		130.0	
					. ILL. Lil I		. 1.307.17	

10623-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	5.26	66.41	16.17	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)	^	3.20	00.41	10.17	0.40	100.0	± 0.0 70
		Y	5.16	66.51	16.20		130.0	
		Z	5.21	66.44	16.19		130.0	
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	Х	5.45	66.63	16.34	0.46	130.0	± 9.6 %
		Υ	5,35	66.71	16.36		130.0	
······································		Z	5.40	66.64	16.35		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	Х	5.87	67.75	16.95	0.46	130.0	± 9.6 %
		Υ	5.59	67.32	16.72		130.0	
***************************************		Z	5.77	67.62	16.89	- 1-	130.0	- 0 0 0/
10626- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	Х	5,59	66.61	16.24	0.46	130.0	± 9.6 %
		Y	5.53	66.71	16.27		130.0	
		Z	5.56	66.63	16.25	0.40	130.0	
10627- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	Х	5.86	67.23	16.51	0.46	130.0	± 9.6 %
		Y	5.77	67.31	16.54		130.0	·
		Z	5.82	67.26	16.53		130.0	
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.64	66.75	16.20	0.46	130.0	± 9.6 %
		Υ	5.54	66.76	16.20		130.0	
		Z	5.59	66.73	16.20	0.42	130.0	1000
10629- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	Х	5.74	66.86	16.25	0.46	130.0	± 9.6 %
		Y	5.63	66.85	16.25		130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4,	X	5.67 6.27	66.78 68.62	16.22 17.13	0.46	130.0 130.0	± 9.6 %
AAD	90pc duty cycle)	Y	5.98	68.12	16.89		130.0	
		Z	6.16	68.44	17.05		130.0	
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.08	68.18	17.10	0.46	130.0	± 9.6 %
71710	Sopo daty cyclo)	Y	5.89	67.92	16.96		130.0	
		Ż	6.00	68.07	17.05		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5,81	67.25	16.65	0.46	130.0	± 9.6 %
		Υ	5.73	67.36	16.70		130.0	
		Z	5.78	67.29	16.68		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.70	66.88	16.30	0.46	130.0	± 9.6 %
		Υ	5.61	66.94	16.32		130.0	
		Z	5.64	66.86	16.29		130.0	
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	Х	5.68	66.90	16.36	0.46	130.0	± 9.6 %
		Y	5.59	66.94	16.37		130.0	
		Z	5.63	66.89	16.36		130.0	
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.57	66.28	15.80	0.46	130.0	± 9.6 %
		Y	5.47	66.33	15.83		130.0	
		Z	5.52	66.25	15.79		130.0	
10636- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	Х	6.01	67.00	16.34	0.46	130.0	± 9.6 %
		Y	5.95	67.08	16.37	ļ	130.0	
		Z	5.98	67.00	16.35		130.0	1.5.5.5.
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	Х	6.18	67.41	16.53	0.46	130.0	± 9.6 %
		Y	6.10	67.45	16.54		130.0	<u> </u>
		Z	6.14	67.41	16.54		130.0	1.000
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	×	6.18	67.38	16.49	0.46	130.0	± 9.6 %
		Y	6.10	67.42	16.51		130.0	ļ
		Z	6.14	67.38	16.50		130.0	

10639- AAC	IEEE 802.11ac WiFi (160MHz, MCS3,	X	6.15	67.32	16.51	0.46	130.0	± 9.6 %
7070	90pc duty cycle)	Y	6.07	67.34	16.50	-	130.0	
		Z	6.11	67.30	16.50		130.0	ļ
10640- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.17	67.36	16.47	0.46	130.0	± 9.6 %
		Y	6.07	67.36	16.47		130.0	
		Z	6.11	67.32	16.45		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	Х	6.20	67.22	16.42	0.46	130.0	± 9.6 %
		Υ	6.14	67.34	16.48		130.0	
10642-	IEEE 000 44 MEE: (400MH - 14000	Z	6.17	67.26	16.44		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.24	67.47	16.71	0.46	130.0	± 9.6 %
		Y	6.15	67.50	16.71		130.0	
10643-	IEEE 802.11ac WiFi (160MHz, MCS7,	Z	6.19	67.46	16.71		130.0	
AAC	90pc duty cycle)	X	6.08	67.18	16.46	0,46	130.0	± 9.6 %
		Y	6.01	67.25	16.50		130.0	
10644-	IEEE 802.11ac WiFi (160MHz, MCS8,	Z	6.04	67.18	16.47		130.0	
AAC	90pc duty cycle)	X	6.27	67.76	16.77	0.46	130.0	± 9.6 %
		Y	6.11	67.57	16.67		130.0	
10645-	IEEE 802.11ac WiFi (160MHz, MCS9,	Z	6.19	67.64	16.72	0.40	130.0	
AAC	90pc duty cycle)	X	6.75	68.75	17.22	0.46	130.0	± 9.6 %
		Y	6.24	67.62	16.66		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	6.47 46.96	68.11 124.69	16.92 40.77	9.30	130.0 60.0	± 9.6 %
	GI ON, OE SUBMUNC-2,17)	Y	100.00	148.37	48.20		60.0	
		Z	67.01	134.85	43.85		60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	Х	46.42	125.36	41.11	9.30	60.0	± 9.6 %
		Y	100.00	149.72	48.78		60.0	
		Z	63.71	134.73	44.00		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.63	62.54	9.79	0.00	150.0	±9.6 %
		Υ	0.58	62.24	9.19		150.0	
		Z	0.59	62.30	9.35		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	Х	4.19	68.34	17.06	2.23	80.0	± 9.6 %
		Υ	4.08	68.62	17.03		80.0	
40050	LTE TOP (SERVICE AND ADDRESS OF A SERVICE AND	Z	4.14	68.48	17.06		80.0	~-
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.68	67.61	17.18	2.23	80.0	± 9.6 %
		Y	4.56	67.77	17.19		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	Z	4.62 4.63	67.66 67.27	17.19 17.19	2.23	80.0 80.0	± 9.6 %
~~□	Clipping 44 %)	Y	4.54	67.39	47.04		00.0	
		Z	4.54 4.58	67.39	17.21 17.20		80.0	
10655-	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1,	X	4.58	67.27	17.20	2.23	80.0 80.0	+060/
AAB	Clipping 44%)	Y	4.60	67.35		2.23		± 9.6 %
		Z	4.64	67.35	17.25 17.23		80.0 80.0	·-··
10658- AAA	Pulse Waveform (200Hz, 10%)	X	19.17	92.59	24.24	10.00	50.0	± 9.6 %
		Υ	41.94	104.68	27.26		50.0	
		Z	24.50	96.17	24.98		50.0	
10659- AAA	Pulse Waveform (200Hz, 20%)	X	100.00	114.36	28.32	6.99	60.0	± 9.6 %
		Υ	100.00	114.20	27.89		60.0	
		Z	100.00	113.56	27.75		60.0	

10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	111.43	25.50	3.98	80.0	± 9.6 %
		Y	100.00	112.46	25.73		80.0	
· · · · · · · · · · · · · · · · · · ·		Z	100.00	110.79	25.07		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	X	100.00	110.47	23.74	2.22	100.0	± 9.6 %
		Y	100.00	113.22	24.78		100.0	
***********		Z	100.00	109.90	23.38		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	Х	100.00	107.83	20.92	0.97	120.0	± 9.6 %
		Y	100.00	115.39	23.98		120.0	
		Z	100.00	107.00	20.48		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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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

PC Test

Certificate No: EX3-7410_Jul17

S

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:7410

Calibration procedure(s)

QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6

Calibration procedure for dosimetric E-field probes

BN 8/3/2017

Calibration date:

July 17, 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	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

Calibrated by:

Name

Function

Laboratory Technician

Signature

Approved by:

Katja Pokovic

Jeton Kastrati

Technical Manager

Issued: July 17, 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:

TSU

tissue simulating liquid

NORMx,y,z

sensitivity in free space sensitivity in TSL / NORMx,y,z

ConvF DCP

diode compression point

CF

crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters

A, B, C, D

Polarization of

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., 9 = 0 is normal to probe axis

Connector Angle

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- *NORMx*, y, z: Assessed for E-field polarization $\vartheta = 0$ (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
- 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:7410

Manufactured: November 24, 2015

Calibrated:

July 17, 2017

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7410

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ²) ^A	0.40	0.46	0.43	± 10.1 %
DCP (mV) ^B	95.4	94.7	91.2	

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	130.7	±3.5 %
		Y	0.0	0.0	1.0		146.7	
		Z	0.0	0.0	1.0		132.5	

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	T6
X	41.43	313.6	36.54	8.525	0.381	5.024	0.000	0.467	1.003
Y	41.67	315.5	36.57	10.32	0.000	5.055	0.334	0.426	1.004
Z	51.58	393.9	37.05	11.42	0.427	5.066	0.000	0.561	1.006

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.

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7410

Calibration Parameter Determined in Head Tissue Simulating Media

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	10.60	10.60	10.60	0.53	0.80	± 12.0 %
835	41.5	0.90	10.08	10.08	10.08	0.41	0.98	± 12.0 %
1750	40.1	1.37	8.66	8.66	8.66	0.41	0.82	± 12.0 %
1900	40.0	1.40	8.37	8.37	8.37	0.28	1.19	± 12.0 %
2300	39.5	1.67	8.02	8.02	8.02	0.35	0.80	± 12.0 %
2450	39.2	1.80	7.68	7.68	7.68	0.33	0.89	± 12.0 %
2600	39.0	1.96	7.42	7.42	7.42	0.40	0.80	± 12.0 %

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

validity can be extended to ± 110 MHz.

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

the ConvF uncertainty for indicated target tissue parameters.

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7410

Calibration Parameter Determined in Body Tissue Simulating Media

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	10.19	10.19	10.19	0.33	1.02	± 12.0 %
835	55.2	0.97	9.95	9.95	9.95	0.50	0.80	± 12.0 %
1750	53.4	1.49	8.32	8.32	8.32	0.39	0.86	± 12.0 %
1900	53.3	1.52	7.98	7.98	7.98	0.44	0.86	± 12.0 %
2300	52.9	1.81	7.85	7.85	7.85	0.44	0.84	± 12.0 %
2450	52.7	1.95	7.69	7.69	7.69	0.37	0.89	± 12.0 %
2600	52.5	2.16	7.43	7.43	7.43	0.28	0.99	± 12.0 %

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

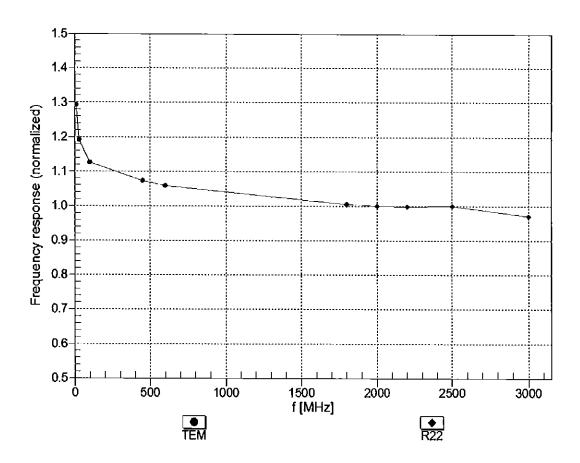
validity can be extended to ± 110 MHz.

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

the ConvF uncertainty for indicated target tissue parameters.

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

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



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