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

¹ Certificate No: D1900V2-5d080_Jul16

CALIBRATION CERTIFICATE

Object

D1900V2 - SN:5d080

Calibration procedure(s)

QA CAL-05.v9

Calibration procedure for dipole validation kits above 700 MHz

Calibration date:

July 08, 2016

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	06-Apr-16 (No. 217-02288/02289)	Apr-17
Power sensor NRP-Z91	SN: 103244	06-Apr-16 (No. 217-02288)	Apr-17
Power sensor NRP-Z91	SN: 103245	06-Apr-16 (No. 217-02289)	Apr-17
Reference 20 dB Attenuator	SN: 5058 (20k)	05-Apr-16 (No. 217-02292)	Apr-17
Type-N mismatch combination	SN: 5047.2 / 06327	05-Apr-16 (No. 217-02295)	Apr-17
Reference Probe EX3DV4	SN: 7349	15-Jun-16 (No. EX3-7349_Jun16)	Jun-17
DAE4	SN: 601	30-Dec-15 (No. DAE4-601_Dec15)	Dec-16
	•		
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (No. 217-02222)	In house check: Oct-16
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (No. 217-02222)	In house check: Oct-16
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (No. 217-02223)	In house check: Oct-16
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Jun-15)	In house check: Oct-16
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-15)	In house check: Oct-16
	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	1/2-
1			The Contract of the Contract o
Approved by:	Katja Pokovic	Technical Manager	All -
	• •		
1			

Issued: July 13, 2016

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

Calibration Laboratory of

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





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Glossary:

TSL

tissue simulating liquid

ConvF

sensitivity in TSL / NORM x,y,z

N/A not appli

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:

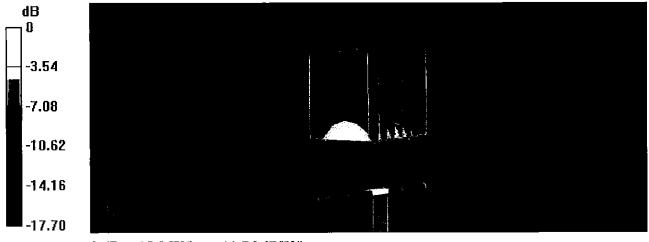
Measurement grid: dx=5mm, dy=5mm, dz=5mm

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

Peak SAR (extrapolated) = 18.4 W/kg

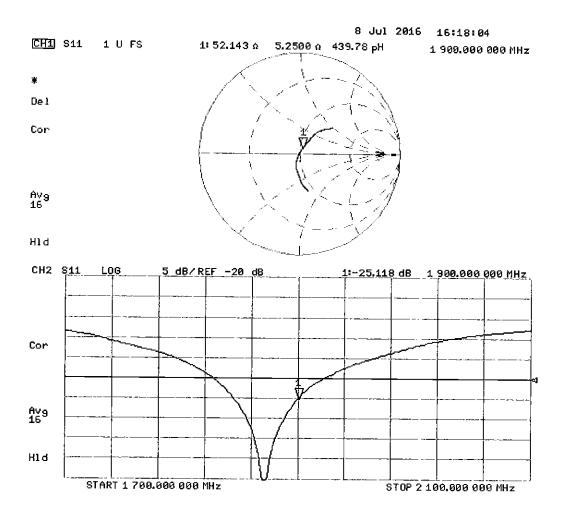
SAR(1 g) = 9.76 W/kg; SAR(10 g) = 5.1 W/kg

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:

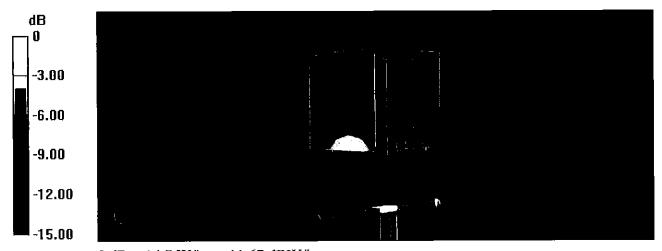
Measurement grid: dx=5mm, dy=5mm, dz=5mm

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

Peak SAR (extrapolated) = 17.1 W/kg

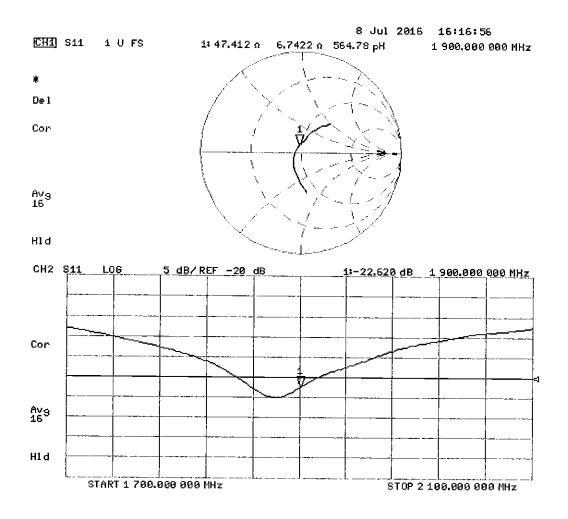
SAR(1 g) = 9.75 W/kg; SAR(10 g) = 5.17 W/kg

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:	Page 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:

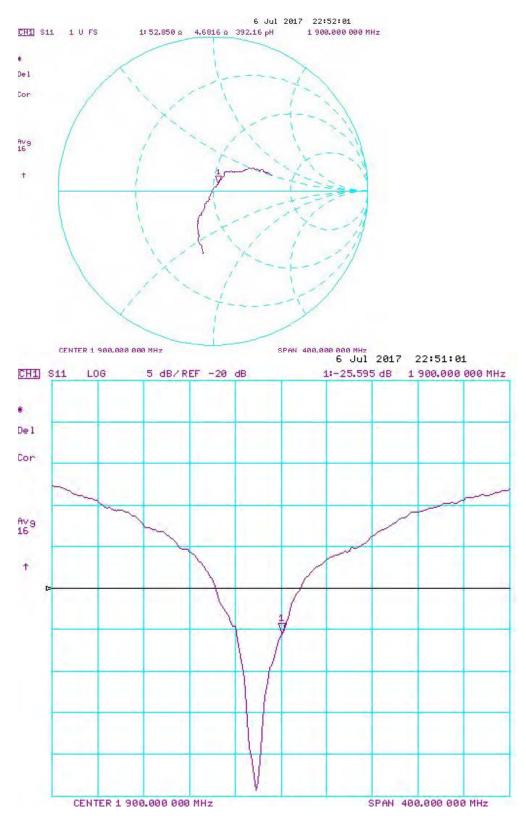
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance 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	W//ka @ 20.0	Deviation 1g (%)		(10a) M//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	(0/)		(40-) 14(4)- (0)	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

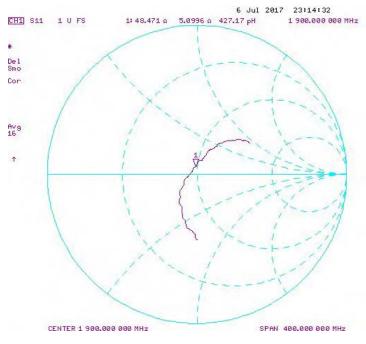
Object:	Date Issued:	Page 2 of 4
D1900V2 - SN: 5d080	07/06/2017	Page 2 of 4

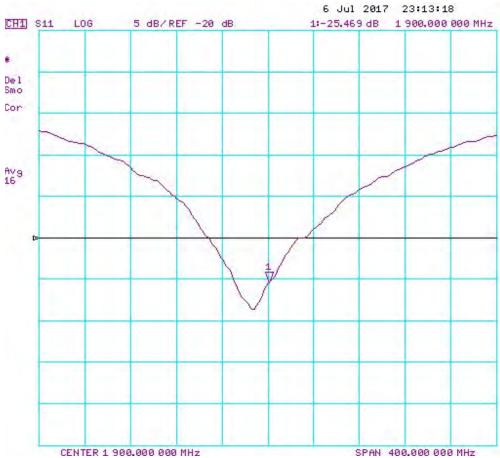
Impedance & Return-Loss Measurement Plot for Head TSL



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	raye 4 01 4

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Certification of Calibration

Object D1900V2 – SN: 5d080

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

Extended Calibration date: 07/06/2018

Description: SAR Validation Dipole at 1900 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4438C	ESG Vector Signal Generator	3/24/2017	Biennial	3/24/2019	MY42082385
Agilent	8753ES	S-Parameter Network Analyzer	9/14/2017	Annual	9/14/2018	US39170118
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433971
Anritsu	ML2495A	Power Meter	11/28/2017	Annual	11/28/2018	1039008
Anritsu	MA2411B	Pulse Power Sensor	3/2/2018	Annual	3/2/2019	1207364
Anritsu	MA2411B	Pulse Power Sensor	11/15/2017	Annual	11/15/2018	1339007
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
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	6/4/2018	Annual	6/4/2019	MY53401181
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE5011-1	Torque Wrench	7/19/2017	Biennial	7/19/2019	N/A
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/9/2018	Annual	2/9/2019	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/22/2018	Annual	5/22/2019	859
SPEAG	DAK-3.5	Dielectric Assessment Kit	9/12/2017	Annual	9/12/2018	1091
SPEAG	ES3DV3	SAR Probe	2/13/2018	Annual	2/13/2019	3213
SPEAG	EX3DV4	SAR Probe	5/22/2018	Annual	5/22/2019	7406

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

	Name	Function	Signature
Calibrated By:	Brodie Halbfoster	Test Engineer	BRODIE HALBFOSTER
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	306

Object:	Date Issued:	Dogo 1 of 4
D1900V2 - SN: 5d080	07/06/2018	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:

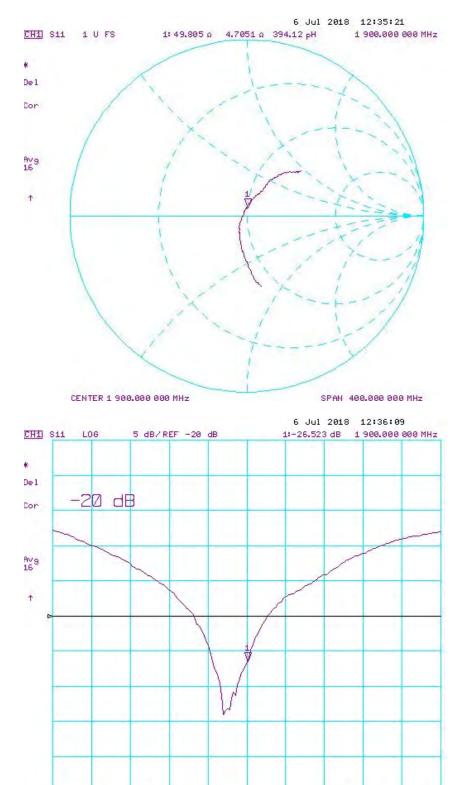
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance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

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

Date	Extension Date	Certificate Electrical Delay (ns)	Head (1g) W/kg @ 20.0 dBm	dBm	(%)	Certificate SAR Target Head (10g) W/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 (%)	
7/8/2016	7/6/2018	1.192	3.93	4.090	4.07%	2.05	2.12	3.41%	52.1	49.8	2.3	5.3	4.7	0.6	-25.1	-26.5	-5.60%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)		Body SAR (1g)	(9/)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	Measured Body SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary	Measured Impedance Body (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
7/8/2017	7/6/2018	1.192	3.91	4.110	5.12%	2.07	2.09	0.97%	47.4	44.1	3.3	6.8	2.3	4.5	-22.6	-23.5	-4.00%	PASS

Object:	Date Issued:	Dogo 2 of 4
D1900V2 - SN: 5d080	07/06/2018	Page 2 of 4

Impedance & Return-Loss Measurement Plot for Head TSL

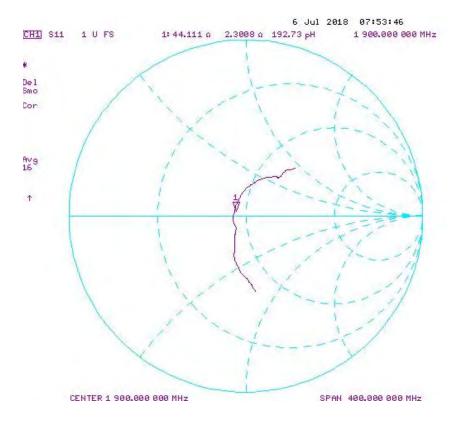


CENTER 1 900.000 000 MHz

Object:	Date Issued:	Dogo 2 of 4
D1900V2 - SN: 5d080	07/06/2018	Page 3 of 4

SPAN 400.000 000 MHz

Impedance & Return-Loss Measurement Plot for Body TSL





Object:	Date Issued:	Dogo 4 of 4	
D1900V2 – SN: 5d080	07/06/2018	Page 4 of 4	

Calibration Laboratory of

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





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

Accredited by the Swiss Accreditation Service (SAS)

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

Accreditation No.: SCS 0108

Client

PC Test

Certificate No: D1900V2-5d149_Jul17

CALIBRATION CERTIFICATE

Object

D1900V2 - SN:5d149

Calibration procedure(s)

QA CAL-05.v9

Calibration procedure for dipole validation kits above 700 MHz

BN 8/3/2017

Calibration date:

July 11, 2017

Extended BN

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	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:	Johannes Kurikka	Laboratory Technician	gu lu
Approved by:	Kalja Pokovic	Technical Manager	DU.

Issued: July 12, 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





S

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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Multilateral Agreement for the recognition of calibration certificates

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	9.82 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	39.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.17 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	20.8 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.1 ± 6 %	1.50 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	9.92 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	40.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.28 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.3 W/kg ± 16.5 % (k=2)

Certificate No: D1900V2-5d149_Jul17

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.0 Ω + 5.3 jΩ
Return Loss	- 25.2 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	48.4 Ω + 7.3 jΩ	
Return Loss	- 22.4 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.196 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

Page 4 of 8

Certificate No: D1900V2-5d149_Jul17

DASY5 Validation Report for Head TSL

Date: 11.07.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d149

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(8.43, 8.43, 8.43); 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:

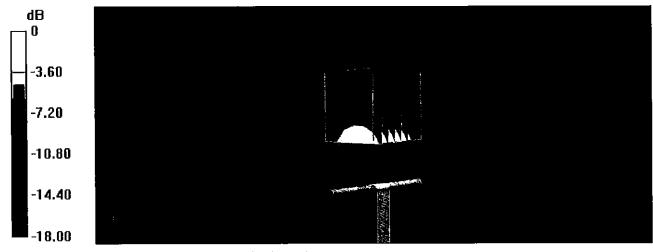
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 105.6 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 18.3 W/kg

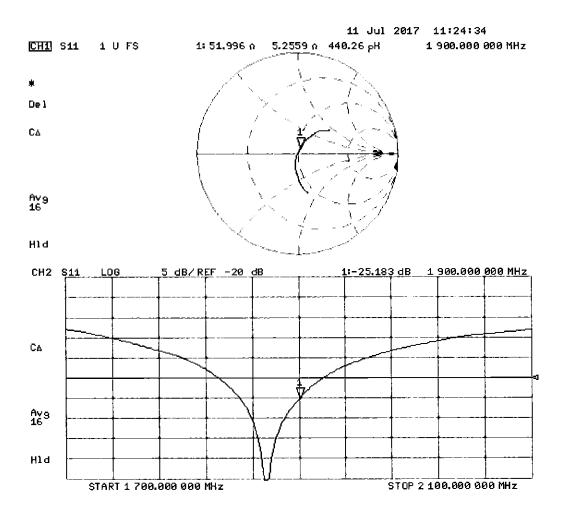
SAR(1 g) = 9.82 W/kg; SAR(10 g) = 5.17 W/kg

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



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

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 11.07.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d149

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

Medium parameters used: f = 1900 MHz; $\sigma = 1.5 \text{ S/m}$; $\varepsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(8.2, 8.2, 8.2); 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:

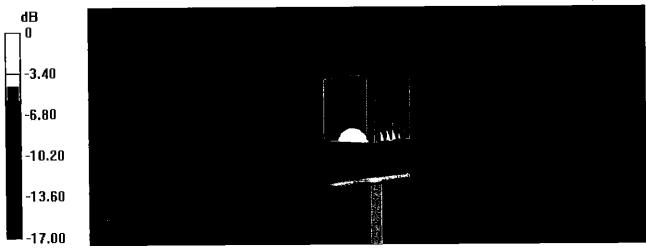
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 102.4 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 17.5 W/kg

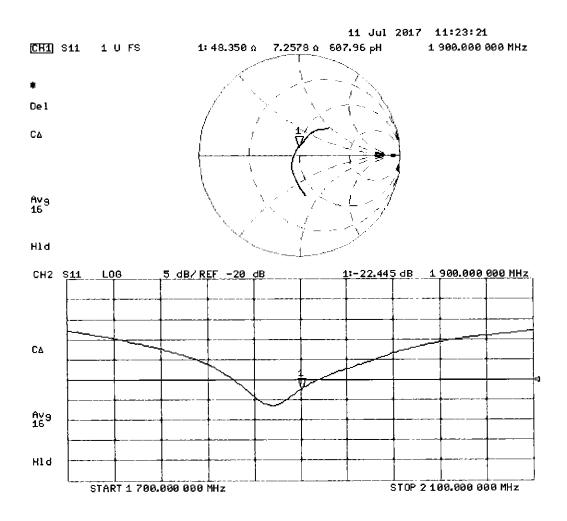
SAR(1 g) = 9.92 W/kg; SAR(10 g) = 5.28 W/kg

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



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: 5d149

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

Extended Calibration date: 07/11/2018

Description: SAR Validation Dipole at 1900 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4438C	ESG Vector Signal Generator	3/24/2017	Biennial	3/24/2019	MY42082385
Agilent	8753ES	S-Parameter Network Analyzer	9/14/2017	Annual	9/14/2018	US39170118
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433971
Anritsu	ML2495A	Power Meter	11/28/2017	Annual	11/28/2018	1039008
Anritsu	MA2411B	Pulse Power Sensor	3/2/2018	Annual	3/2/2019	1207364
Anritsu	MA2411B	Pulse Power Sensor	11/15/2017	Annual	11/15/2018	1339007
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
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	6/4/2018	Annual	6/4/2019	MY53401181
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE5011-1	Torque Wrench	7/19/2017	Biennial	7/19/2019	N/A
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/9/2018	Annual	2/9/2019	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/22/2018	Annual	5/22/2019	859
SPEAG	DAK-3.5	Dielectric Assessment Kit	9/12/2017	Annual	9/12/2018	1091
SPEAG	ES3DV3	SAR Probe	2/13/2018	Annual	2/13/2019	3213
SPEAG	EX3DV4	SAR Probe	5/22/2018	Annual	5/22/2019	7406

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

	Name	Function	Signature
Calibrated By:	Brodie Halbfoster	Test Engineer	BRODIE HALBFOSTER
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	306

Object:	Date Issued:	Dogg 1 of 4
D1900V2 - SN: 5d149	07/11/2018	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:

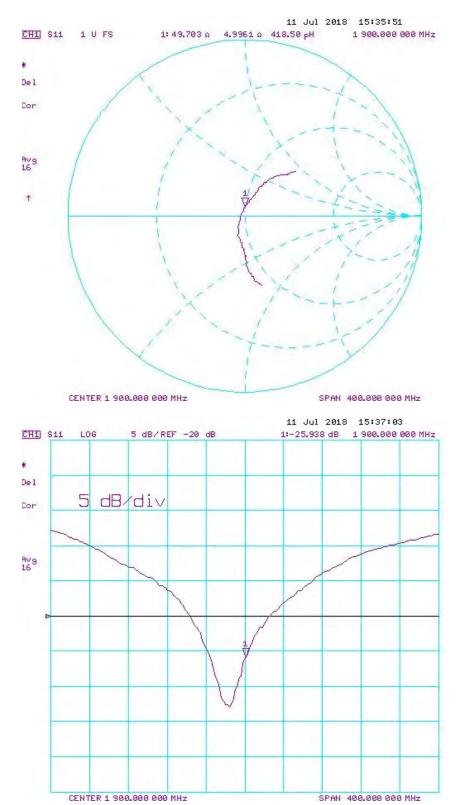
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance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

Calibration Date	Extension Date	Certificate Electrical Delay (ns)		Measured Head SAR (1g) W/kg @ 20.0 dBm	(9/.)	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
7/11/2017	7/11/2018	1.196	3.96	4.11	3.79%	2.08	2.12	1.92%	52.0	49.7	2.3	5.3	5.0	0.3	-25.2	-25.9	-2.80%	Pass
Calibration Date	Extension Date	Certificate Electrical Delay (ns)		Body SAR (1g)	(9/)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	Measured Body SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary	Measured Impedance Body (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
7/11/2018	7/11/2018	1.196	4.01	4.28	6.73%	2.13	2.19	2.82%	48.4	46.3	2.1	7.3	5.4	1.9	-22.4	-23.2	-3.60%	PASS

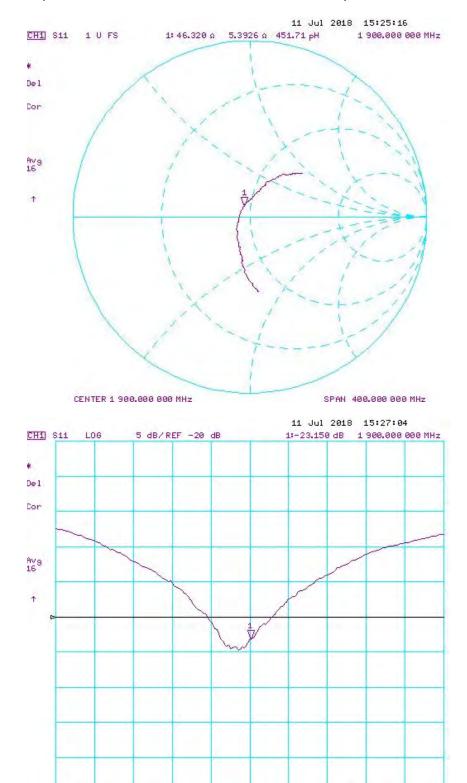
Object:	Date Issued:	Dogo 2 of 4
D1900V2 - SN: 5d149	07/11/2018	Page 2 of 4

Impedance & Return-Loss Measurement Plot for Head TSL



Object:	Date Issued:	Dogo 2 of 4
D1900V2 - SN: 5d149	07/11/2018	Page 3 of 4

Impedance & Return-Loss Measurement Plot for Body TSL



CENTER 1 900.000 000 MHz

Object:	Date Issued:	Dogo 4 of 4
D1900V2 - SN: 5d149	07/11/2018	Page 4 of 4

SPAN 400.000 000 MHz

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





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Client

PC Test

Accreditation No.: SCS 0108

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

6/03/2019

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 ± 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	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

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

Certificate No: D2450V2-797_Sep17

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Calibration Laboratory of

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Zeughausstrasse 43, 8004 Zurich, Switzerland





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Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

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

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

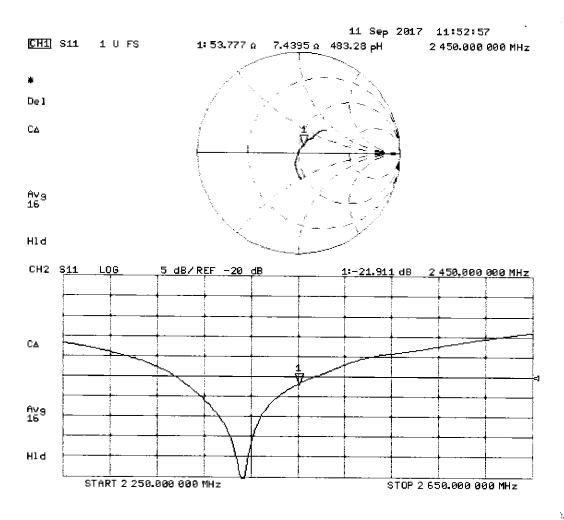
SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.28 W/kg

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:

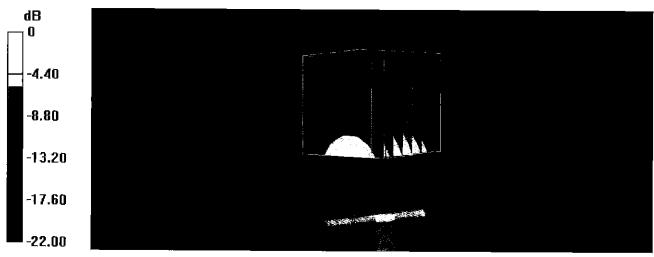
Measurement grid: dx=5mm, dy=5mm, dz=5mm

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

Peak SAR (extrapolated) = 25.6 W/kg

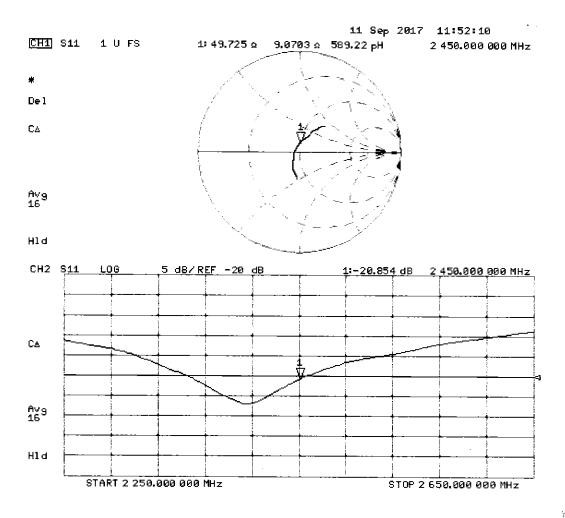
SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.14 W/kg

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

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: D2600V2-1126_Jul17

CALIBRATION CERTIFICATE

Object

D2600V2 - SN:1126

Calibration procedure(s)

QA CAL-05.v9

Calibration procedure for dipole validation kits above 700 MHz

Calibration date:

July 10, 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)	A pr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02522)	Apr-18
Reference 20 dB Altenuator	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:	Jeton Kastratl	Laboratory Technician	x //
Approved by:	Katja Pokovic	Technical Manager	Sells

Issued: July 11, 2017

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Certificate No: D2600V2-1126_Jul17

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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%.

Measurement Conditions

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

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

Head TSL parameters

The following parameters and calculations were applied.

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

SAR result with Head TSL

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

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.40 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	25.2 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	52.5	2.16 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.6 ± 6 %	2,22 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

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

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

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

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

Antenna Parameters with Body TSL

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

General Antenna Parameters and Design

Electrical Delay (one direction) 1.154 ns	Electrical Delay (one direction)	1.154 ns
---	----------------------------------	----------

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

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

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

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	October 22, 2015

DASY5 Validation Report for Head TSL

Date: 10.07.2017

Test Laboratory: SPEAG, Zurich, Switzerland

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

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.04 \text{ S/m}$; $\varepsilon_r = 37.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(7.96, 7.96, 7.96); Calibrated: 31.05.2017;

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

Electronics: DAE4 Sn601; Calibrated: 28.03.2017

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

DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

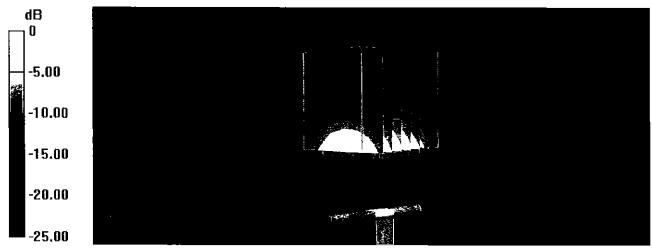
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 113.2 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 31.3 W/kg

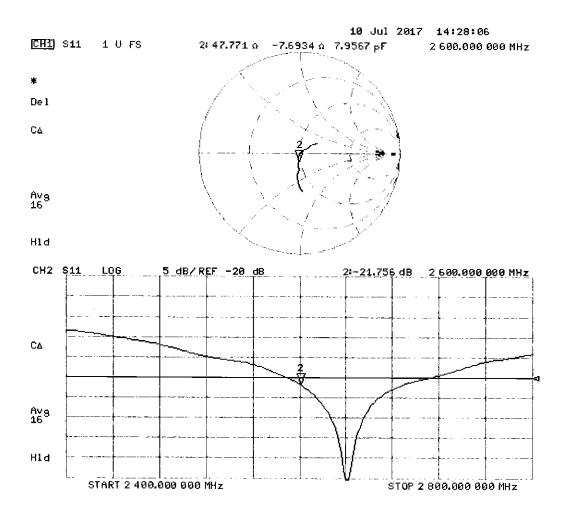
SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.4 W/kg

Maximum value of SAR (measured) = 24.0 W/kg



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

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 10.07.2017

Test Laboratory: SPEAG, Zurich, Switzerland

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

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.22 \text{ S/m}$; $\varepsilon_r = 51.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(7.94, 7.94, 7.94); Calibrated: 31.05.2017;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 28.03.2017

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

• DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

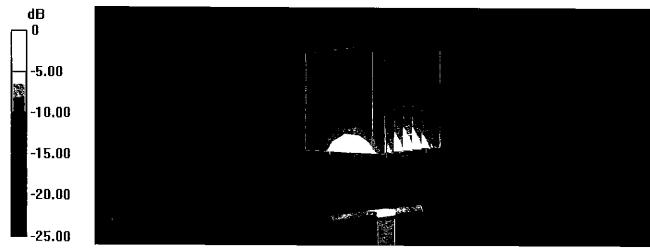
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.8 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 28.9 W/kg

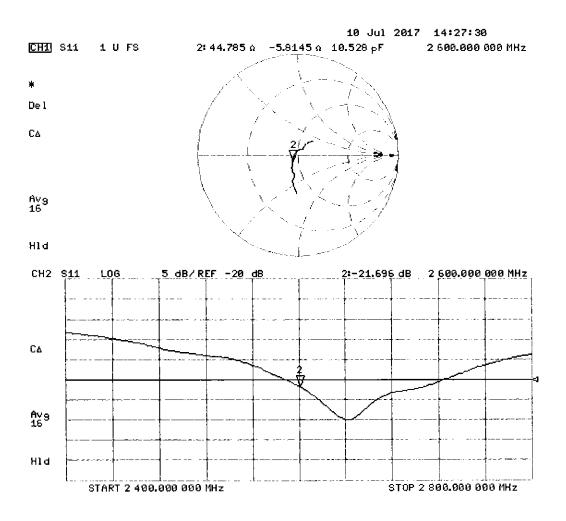
SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.16 W/kg

Maximum value of SAR (measured) = 22.2 W/kg



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

Impedance Measurement Plot for Body TSL



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





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Accreditation No.: SCS 0108

Client PC Test

Certificate No: D5GHzV2-1237_Aug17

CALIBRATION CERTIFICATE

Object

D5GHzV2 - SN:1237

Calibration procedure(s)

QA CAL-22.v2

Calibration procedure for dipole validation kits between 3-6 GHz

8/27/17

Calibration date:

August 15, 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. 217-02522)	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: 3503	31-Dec-16 (No. EX3-3503_Dec16)	Dec-17
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:	Johannes Kurikka	Laboratory Technician	ger lu
Approved by:	Katja Pokovic	Technical Manager	DU US

Issued: August 16, 2017

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Certificate No: D5GHzV2-1237_Aug17

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Swiss Calibration Service

Accreditation No.: SCS 0108

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Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL

tissue simulating liquid

ConvF

sensitivity in TSL / NORM x,y,z

N/A

not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) 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	V 52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V 5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz	

Head TSL parameters at 5250 MHz The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.71 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.7 ± 6 %	4.49 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5250 MHz

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.14 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	80.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.0 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.2 ± 6 %	4.84 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	82.5 W / kg ± 19.9 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.38 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.5 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5750 MHz The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.4	5.22 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.0 ± 6 %	4.99 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.10 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	80.2 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.31 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.8 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.36 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.0 ± 6 %	5.46 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5250 MHz

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.75 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	76.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.17 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.5 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5600 MHz The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.4 ± 6 %	5.93 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.91 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	78.5 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.23 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	22.1 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5750 MHz The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.3	5.94 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.2 ± 6 %	6.13 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.77 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	77.1 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.16 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.4 W/kg ± 19.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	49.9 Ω - 5.3 jΩ
Return Loss	- 25.5 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	$51.9 \Omega + 2.3 j\Omega$
Return Loss	- 30.7 dB

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	55.6 Ω - 0.5 jΩ
Return Loss	- 25.5 dB

Antenna Parameters with Body TSL at 5250 MHz

Impedance, transformed to feed point	46.9 Ω - 4.2 jΩ
Return Loss	- 25.4 dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	$50.2 \Omega + 3.0 j\Omega$				
Return Loss	- 30.4 dB				

Antenna Parameters with Body TSL at 5750 MHz

Impedance, transformed to feed point	$53.4 \Omega + 0.2 j\Omega$				
Return Loss	- 29.7 dB				

General Antenna Parameters and Design

Electrical Delay (one direction)	1.194 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	May 04, 2015				

Certificate No: D5GHzV2-1237_Aug17 Page 7 of 13

DASY5 Validation Report for Head TSL

Date: 15.08.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1237

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz

Medium parameters used: f = 5250 MHz; $\sigma = 4.49$ S/m; $\varepsilon_r = 34.7$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5600 MHz; $\sigma = 4.84$ S/m; $\varepsilon_r = 34.2$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5750 MHz; $\sigma = 4.99$ S/m; $\varepsilon_r = 34$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.58, 5.58, 5.58); Calibrated: 31.12.2016, ConvF(5.09, 5.09);
 Calibrated: 31.12.2016, ConvF(5.02, 5.02, 5.02); Calibrated: 31.12.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.08 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 30.6 W/kg

SAR(1 g) = 8.14 W/kg; SAR(10 g) = 2.33 W/kg

Maximum value of SAR (measured) = 19.2 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.04 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 32.7 W/kg

SAR(1 g) = 8.33 W/kg; SAR(10 g) = 2.38 W/kg

Maximum value of SAR (measured) = 19.8 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

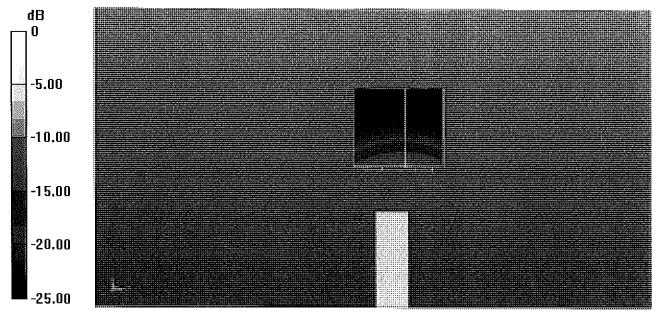
Reference Value = 69.11 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 32.4 W/kg

SAR(1 g) = 8.1 W/kg; SAR(10 g) = 2.31 W/kg

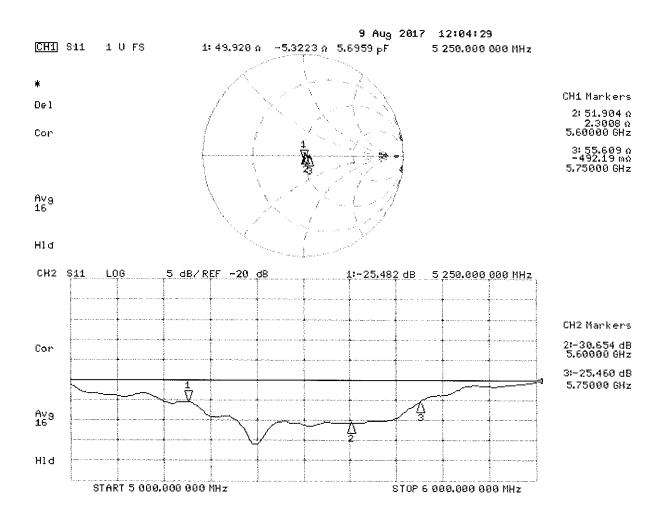
Maximum value of SAR (measured) = 19.6 W/kg

Certificate No: D5GHzV2-1237_Aug17



0 dB = 19.2 W/kg = 12.83 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 08.08.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1237

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz

Medium parameters used: f = 5250 MHz; $\sigma = 5.46$ S/m; $\varepsilon_r = 47$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5600 MHz; $\sigma = 5.93$ S/m; $\varepsilon_r = 46.4$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5750 MHz; $\sigma = 6.13$ S/m; $\varepsilon_r = 46.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.14, 5.14, 5.14); Calibrated: 31.12.2016, ConvF(4.57, 4.57, 4.57); Calibrated: 31.12.2016, ConvF(4.51, 4.51, 4.51); Calibrated: 31.12.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5250MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.87 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 29.9 W/kg

SAR(1 g) = 7.75 W/kg; SAR(10 g) = 2.17 W/kg

Maximum value of SAR (measured) = 18.4 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.11 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 33.0 W/kg

SAR(1 g) = 7.91 W/kg; SAR(10 g) = 2.23 W/kg

Maximum value of SAR (measured) = 19.3 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan,

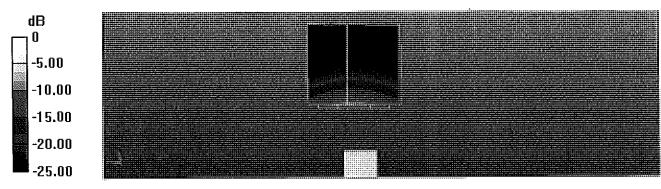
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 63.64 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 33.8 W/kg

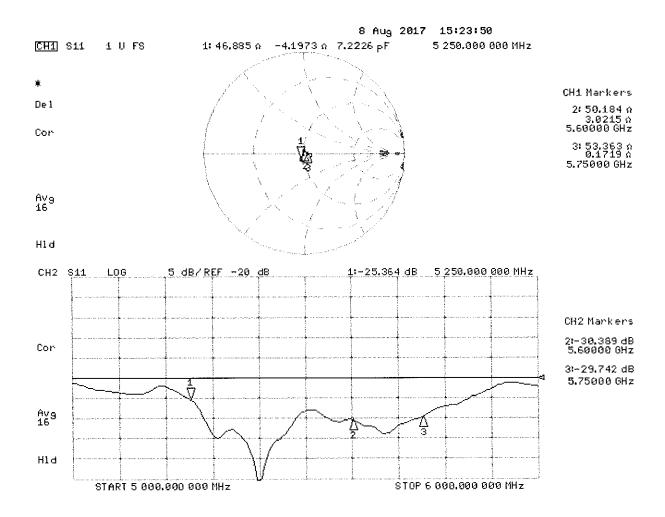
SAR(1 g) = 7.77 W/kg; SAR(10 g) = 2.16 W/kg

Maximum value of SAR (measured) = 19.1 W/kg



0 dB = 18.4 W/kg = 12.65 dBW/kg

Impedance Measurement Plot for Body TSL



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	Circuit Data (minosot)	
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

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)

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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	Т3	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.

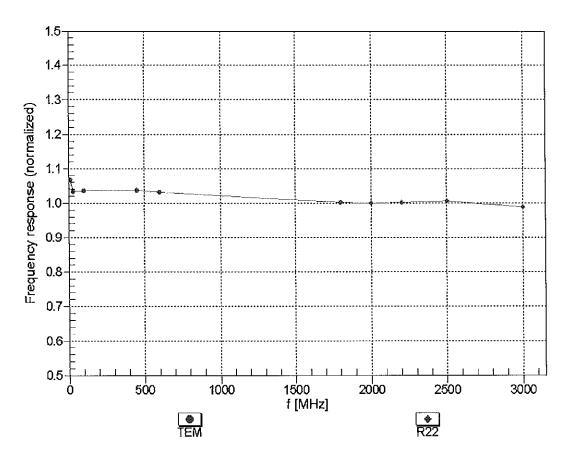
validity can be extended to ± 110 MHz.

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

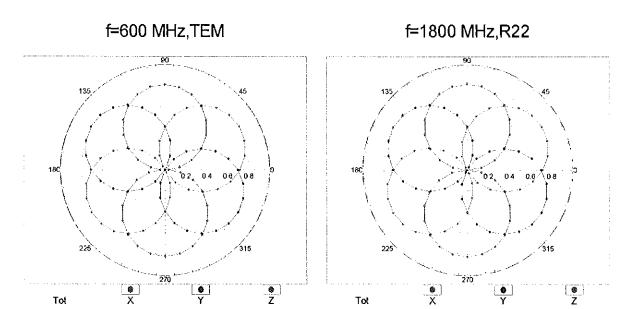
⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the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

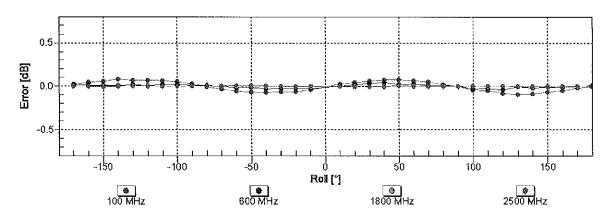
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

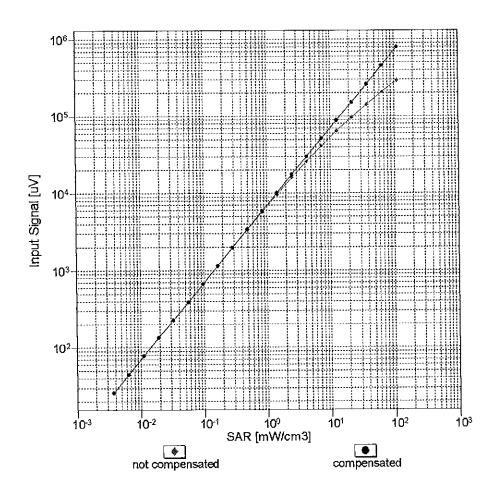
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

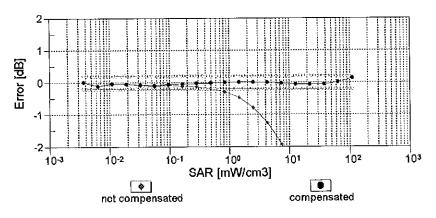




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

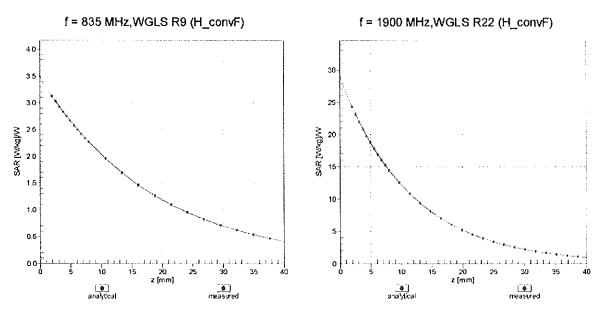
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)





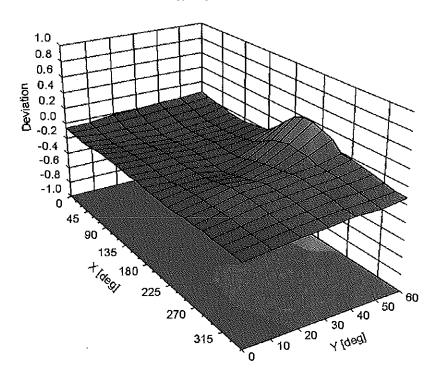
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

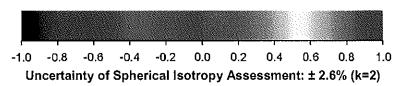
Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, ϑ) , 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 %
		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 %
OAA		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 %
		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, DH1)	X	13.27	136.16 88.21	33.43 24.10	5.30	100.0 70.0	± 9.6 %
O/M		Y	20.91	99.02	27.13		70.0	
		Z	58.05	115.59	31.27		70.0	
10034-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	X	16.18	96.67	25.44	1.88	100.0	± 9.6 %
CAA	DH3)	Y	10.83	91.57	22.94	1.00	100.0	1 9.0 %
		Z	52.78	113.06	28.24		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	12.45	95.04	24.79	1.17	100.0	± 9.6 %
		Y	5.49	83.70	20.10		100.0	
		Z	18.62	100.06	24.56		100.0	
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	14.34	89.63	24.62	5.30	70.0	± 9.6 %
		Υ	26.79	103.24	28.41		70.0	
		Z	95.10	123.67	33.30		70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	15.98	96.45	25.32	1.88	100.0	± 9.6 %
		Υ	9.62	89.98	22.43		100.0	
		Z	37.04	108.35	27.08		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	×	13.91	96.94	25.41	1.17	100.0	± 9.6 %
		Y	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	
		Ζ	3.08	80.13	18.22		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	11.60	82.51	21.10	7.78	50.0	± 9.6 %
		Υ	100.00	118.83	31.00		50.0	
		Ζ	100.00	118.47	30.39		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	Х	0.02	128.88	9.05	0.00	150.0	± 9.6 %
<u></u>		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	
10050	LUITO MAD (TD GODILL)	Z	64.62	115.72	32.06	<u>,</u>	40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	11.51	81.76	22.84	9.03	50.0	± 9.6 %
		Υ	15.28	90.93	25.77		50.0	
40050	FDOE EDD (TOLL)	Z	25.94	101.11	28.65		50.0	
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	
10050	JEET 900 446 MET 0 4 OUT 10000 C	Z	9.12	89.51	29.70		100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	×	2.01	72.72	19.70	0.61	110.0	± 9.6 %
		Υ	1.51	67.62	17.16		110.0	
	IEEE 000 445 WEE C 4 CH /DOOG 5 7	Z	1.56	68.78	17.99		110.0	
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		110.0	
		Z	100.00	137.07	36.21			

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	
<u> </u>		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	
	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	
10064- 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)	Х	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		Z	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)	X	6.43	70.65	20.50	4.30	90.0	± 9.6 %
		Y	5.73	69.22	19.75		90.0	
		Z	5.61	69.48	19.91		90.0	

10081- CAB	CDMA2000 (1xRTT, RC3)	X	1.62	75.66	18.40	0.00	150.0	± 9.6 %
		 _	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	
		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 %
		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	
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 %
ONO		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 %
CAE		Υ	2.26	68.50	12.73	t	450.0	
	l .	1 1 1	4.20	00.00	1 12.73		150.0	

Y 2.92 67.72 16.05 150.0 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	
10150						+			<u> </u>
T10151-							0.00		± 9.6 %
TIE-TDD (SC-FDMA, 50% RB, 20 MHz, CAD 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			Z	10.52					
10153- 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,				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					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 ACC				8.64					<u> </u>
TE-FDD (SC-FDMA, 50% RB, 10 MHz,						1.	0.00		± 9.6 %
Total	 -							150.0	
10155- 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 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, 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, 14 MHz, CAB LTE-Fdd (1.86	69.32	15.77		150.0	
10157- CAE	40455		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, 14 MHz, CAD 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 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 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 IT-17 150.0 Y 3.04 67.85 16.15 150.0 IT-18	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							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 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			† v 	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	
10173-	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 %
 		Y	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	 	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	 	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	 	150.0	
	I	; 4	4.30	1_03.00	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	 	
		_	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 %
		Υ	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		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	
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	
10222- CAB	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	 	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	
10228	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 %
1		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 %
· <u>-</u>		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	-
		Z	10.10	84.50	24.17	<u> </u>	65.0	
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	
10064		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	
40000		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)	X	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	
		Z	1.09	70.54	14.22		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	2.85	86.00	22.76	0.00	150.0	± 9.6 %
		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	
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	
1000		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 (O1 BHB1), 10 14(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)	Х	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	
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	
10465	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 %
		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	0.08	± 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 22.84	2.22	80.0	10000
AAC	QAM, UL Subframe=2,3,4,7,8,9)	Y	46.39	99.73	22.59	3.23	80.0	± 9.6 %
		Z	6.02	77.83	15.90	 	80.0	
10473-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz.	X	100.00	116.79	29.89	3.23	80.0	+060/
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	Y	100.00	125.60	32.74	J.23	80.0	± 9.6 %
		Z	100.00	126.23	32.74	-		
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		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	
		Ζ	5.94	77.72	15.87		80.0	

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 %
a		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)	X	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		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 %
		Υ	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	0.08	±9.6 %
		Y	5.11	71.66	18.72		80.0	
		Z	5.11	72.57	19.16		80.0	<u> </u>
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)	X	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	
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	
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 FOLIS	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	LTC TDD (OO FDAM ASSOCIATION	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- AAC	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 %
	2001101110 2,0,1,1,0,0)							
		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)	Х	6.65	73.80	19.50	2.23	80.0	± 9.6 %
		Y	5.09	71.58	18.67		80.0	
		Ż	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 %
		Y	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 %
		Y	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	
		Ζ	5.39	71.45	18.85		80.0	1
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	9.41	80.22	21.09	2.23	80.0	± 9.6 %
		Y	6.52	76.83	20.24		80.0	
10810		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	
40540	1555 000 441 14751 0 4 014 /0000 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	0.83	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 %
		Y	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)	Х	5.02	67.44	16.72	0.00	150.0	± 9.6 %
		Y	4.70	67.22	16.46		150.0	
		Z	4.63	67.55	16.62		150.0	
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 %
, , , ,	imple; cope duty cycle)	Y	4.48	67.16	16.36		150.0	
		Z	4.42	67.48	16.53		150.0	
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	
			7.00	07.20	10.70		100.0	1

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		150.0	
		Ž	4.39	67.59	16.54	 	150.0	
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	
		Z	4.42	67.57	16.62	l – –	150.0	
10525- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	Х	4.72	66.35	16.23	0.00	150.0	±9.6%
		Υ	4.49	66.26	16.02	1	150.0	
		Z	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	
40505	1,	Z	4.51	66.93	16.29		150.0	
10528- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.89	66.82	16.38	0.00	150.0	±9.6 %
		Υ "	4.58	66.57	16.13		150.0	
10500		Z	4.52	66.94	16.32		150.0	
10529- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.89	66.82	16.38	0.00	150.0	± 9.6 %
		Y	4.58	66.57	16.13		150.0	
		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)	Х	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	
		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	
		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	
10500	LIGHT COOL	Z	5.08	67.03	16.39		150.0	
10538- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.52	67.19	16.52	0.00	150.0	± 9.6 %
		Υ	5.21	66.77	16.27		150.0	
40540	LEEF 200 dd	Ζ	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	66.70	40.00		450.0	
		z	0.10	66.79	16.30		150.0	

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 %
		Υ	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	
		ż	5.95	67.59	16.55		150.0	
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	1
		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 INSTITUTE OF OUR CORNE	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	
10579-	IEEE 902 44 ~ MIEE 2 4 CU = /D200	Z	4.73	67.92	17.12		130.0	
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	
10580-	TEEE 900 44a WEE 0 4 OU - 70000	Z	4.50	67.21	16.45		130.0	
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)	X	5.28	67.68	17.13	0.46	130.0	± 9.6 %
		Υ	4.96	67.47	16.91		130.0	
		Z	4.88	67.75	17.04		130.0	
10595- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	5.27	67.71	17.06	0.46	130.0	± 9.6 %
		Y	4.93	67.44	16.81		130.0	
10=c-		Z	4.85	67.75	16.96		130.0	
10596- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	5.21	67.70	17.06	0.46	130.0	± 9.6 %
		Y	4.86	67.44	16.81		130.0	
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)	X	6.05	68.67	17.52	0.46	130.0	± 9.6 %
		Y	5.68	68.13	17.21		130.0	
		Z	5.58	68.26	17.30		130.0	
10601- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.85	68.16	17.28	0.46	130.0	± 9.6 %
		Y	5.55	67.80	17.06	•	130.0	
		Z	5.46	67.98	17.17		130.0	
10602- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	Х	5.99	68.30	17.27	0.46	130.0	± 9.6 %
		Y	5.68	67.95	17.06		130.0	
10000		Z	5.60	68.17	17.19		130.0	
10603- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	6.09	68.64	17.55	0.46	130.0	± 9.6 %
		_ Y	5.74	68.19	17.31		130.0	
1000:	1	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 %
	<u> </u>	Y	5.59	67.76	17.08		130.0	
1005		Z	5.54	68.06	17.25		130.0	
10605- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.90	68.15	17.31	0.46	130.0	± 9.6 %
		Y	5.67	68.01	17.21		130.0	
40000		Z	5.56	68.12	17.28		130.0	
10606- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.65	67.59	16.91	0.46	130.0	±9.6 %
	1	1	E 0=	0 70 4 0	40.0=		T	
		Y	5.37 5.33	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	100.0	2 3.0 %
		Y	4.68	66.39	16.37		130.0	
10608-	IEEE 900 44 pp 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 %
		Υ	4.85	66.77	16.53		130.0	
10000	IEEE 000 44 MEL (00) W. C. C.	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-	1555 000 44 - 1455 (001 H + 1450	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	IEEE COO 44 NUEL COO 11	Z	4.72	67.11	16.69	L	130.0	
10611- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	5.05	66.92	16.66	0.46	130.0	± 9.6 %
		Υ	4.71	66.59	16.38		130.0	
10015	UEEE and the	Z	4.64	66.93	16.55		130.0	
10612- AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	5.07	67.04	16.68	0.46	130.0	± 9.6 %
		Y	4.72	66.76	16.43		130.0	
		Z	4.64	67.09	16.61		130.0	-
10613- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	5.09	66.98	16.60	0.46	130.0	± 9.6 %
		Y	4.71	66.61	16.29		130.0	
		Z	4.63	66.91	16.45		130.0	
10614- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	5.02	67.21	16.84	0.46	130.0	± 9.6 %
		Y	4.67	66.81	16.53		130.0	
		Z	4.59	67.11	16.69		130.0	
10615- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	5.05	66.70	16.43	0.46	130.0	± 9.6 %
		Y	4.71	66.43	16.16		130.0	
		Z	4.64	66.79	16.34		130.0	
10616- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	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	<u>.</u>
		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 %
		1					1	
		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)	X	6.07	67.76	17.04	0.46	130.0	± 9.6 %
		Y	5.87	67.57	16.97		130.0	
		Z	5.81	67.79	17.10		130.0	
10633- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	6.04	67.71	16.86	0.46	130.0	± 9.6 %
		_ Y	5.71	67.04	16.54		130.0	
		Z	5.62	67.14	16.61		130.0	
10634- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	6.01	67.64	16.89	0.46	130.0	± 9.6 %
		Y	5.69	67.06	16.60		130.0	
		Z	5.63	67.23	16.71		130.0	-
10635- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	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 %
		Υ	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		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	
		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	
<u></u>		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	
10055		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	
		Z	4.80	68.81	17.83		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	Х	5.63	69.47	18.36	2.23	80.0	± 9.6 %
		Y	4.81	67.88	17.59		80.0	
		Z	4.76	68.31	17.81		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	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





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

Accreditation No.: SCS 0108

Certificate No: ES3-3213_Feb18

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

Object

PC Test

CALIBRATION CERTIFICATE

ES3DV3 - SN:3213

QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure(s)

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

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Calibration Laboratory of

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





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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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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 [⊨]
			dB	dB√μV		dB	mV	(k=2)
0	CW	Х	0.0	0.0	1.0	0.00	219.3	±2.7 %
		Υ	0.0	0.0	1.0		219.1	·
		Z	0.0	0.0	1.0		213.7	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	T6
X	55.43	404.4	36.34	28.23	1.967	5.10	0.398	0.555	1.011
Y	56.36	406.4	35.71	28.34	2.153	5.10	1.040	0.438	1.013
Z	52.80	385.3	36.34	28.19	1.829	5.10	0.000	0.541	1.011

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

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

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.

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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.

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.

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

Calibration Parameter Determined in Body Tissue Simulating Media

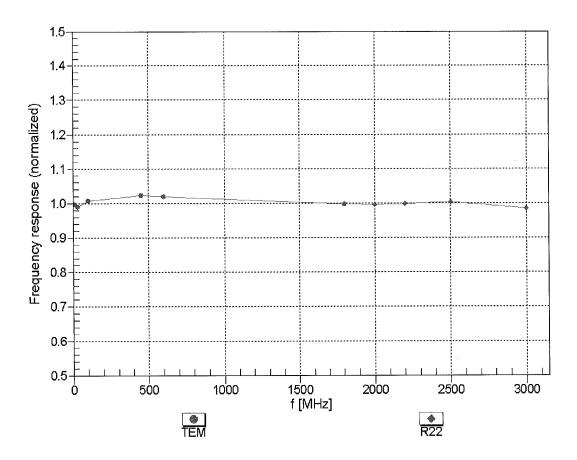
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	6.30	6.30	6.30	0.80	1.13	± 12.0 %
835	55.2	0.97	6.20	6.20	6.20	0.41	1.66	± 12.0 %
1750	53.4	1.49	5.10	5.10	5.10	0.37	1.82	± 12.0 %
1900	53.3	1.52	4.88	4.88	4.88	0.59	1.51	±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

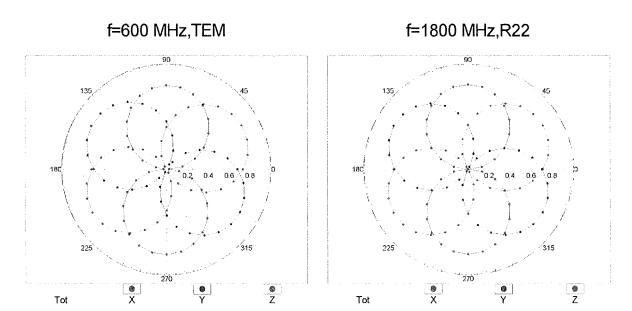
^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from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

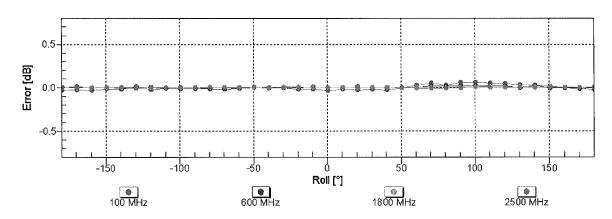
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

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

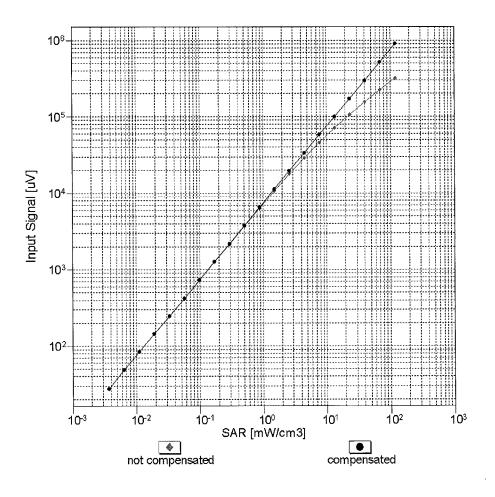


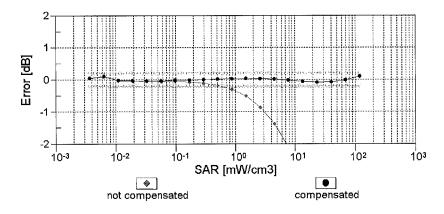


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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



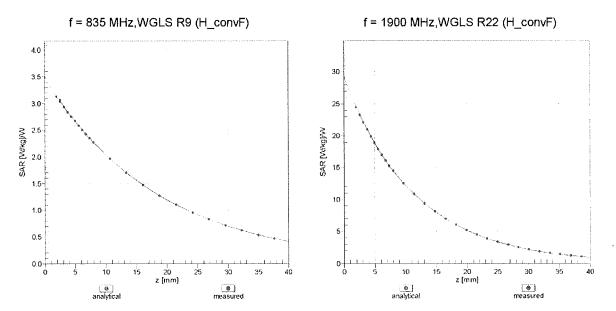


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

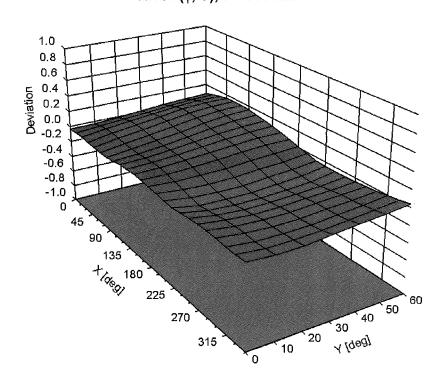
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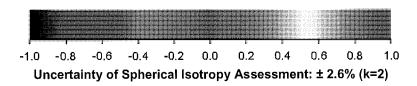
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Conversion Factor Assessment



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





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DASY/EASY - Parameters of Probe: ES3DV3 - SN: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 %
		Υ	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 %
		Υ	1.08	67.98	15.48		150.0	
10012-	IEEE 000 445 MIEE 0 4 OLL (DOOD 4	Z	0.93	65.52	13.77	0.44	150.0	1000
CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	Х	1.23	64.18	15.06	0.41	150.0	± 9.6 %
		Y	1.29	65.11	15.84		150.0	
10013-	IEEE 902 44~ W/:F: 2.4 CH= /D000	Z	1.22 5.06	64.10 67.01	14.97 17.27	4.40	150.0	. 0.0 0/
CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)					1.46	150.0	± 9.6 %
		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 %
<i>D</i> , (0		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	
		Z	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	
40000	EDOE EDD (TDMA ODOK TALO 4)	Z	20.92	112.18	42.96	0.50	50.0	. 0.0.0/
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		Y	100.00	116.49	28.47		80.0	
		ż	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,,0		Y	100.00	116.53	27.70		100.0	
		Z	100.00	113.85	26.28		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	13.21	95.56	31.98	7.80	80.0	± 9.6 %
		Υ	16.23	100.64	33.98		80.0	
10030- CAA		Z	13.05	95.55	31.99		80.0	
	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Х	100.00	114.59	27.76	5.30	70.0	± 9.6 %
		Υ	100.00	116.05	28.60		70.0	
		Z	100.00	114.06	27.44		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	112.38	24.24	1.88	100.0	± 9.6 %
		Y	100.00	116.66	26.24		100.0	
		Z	100.00	111.54	23.82		100.0	

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10032-	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 %
CAB								ı
		Υ	100.00	130.86	33.40		110.0	

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10061-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	X	7.64	91.52	25.20	2.04	1400	1.0.0.0/
CAB	Mbps)	^	7.04	91.02	25.20	2.04	110.0	± 9.6 %
		Y	11.51	98.81	27.78		110.0	
		Z	7.56	91.41	25.11		110.0	
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	Х	4.79	66.76	16.54	0.49	100.0	± 9.6 %
		Υ	4.84	66.99	16.73		100.0	
10000		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	
10064-	IEEE 902 440/b WiFi 5 CH- (OFDM 40	Z	4.79	66.91	16.65		100.0	
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	
10065-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18	Z	5.10 5.04	67.24 67.27	16.93	4.04	100.0	1.0.0.0/
CAC	Mbps)				17.12	1.21	100.0	± 9.6 %
		Y	5.10 5.00	67.51 67.25	17.31 17.09		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.09	67.39	17.09	1.46	100.0	± 9.6 %
	F - /	Y	5.15	67.65	17.54	 	100.0	
		Z	5.06	67.37	17.32		100.0	<u> </u>
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.41	67.60	17.83	2.04	100.0	± 9.6 %
		Υ	5.47	67.85	18.03		100.0	
		Z	5.38	67.60	17.82		100.0	
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.53	67.90	18.19	2.55	100.0	± 9.6 %
		Y	5.60	68.19	18.41		100.0	
10000		Z	5.49	67.88	18.16		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.62	67.88	18.39	2.67	100.0	± 9.6 %
		Y	5.69	68.17	18.62		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.57 5.20	67.88 67.23	18.36 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 %
		Υ	5.31	68.03	18.18		100.0	
		Z	5.21	67.74	17.94		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.36	68.08	18.38	2.83	100.0	± 9.6 %
		Y	5.44	68.38	18.61		100.0	
40074	IEEE 000 44- WIE 0 4 OU	Z	5.33	68.07	18.36	0.00	100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	Х	5.39	68.13	18.62	3.30	100.0	± 9.6 %
		Y	5.47	68.45	18.87		100.0	-
10075	IEEE 802 11a WIEI 2.4 CH-	Z	5.36	68.12	18.60	2.00	100.0	1000
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.52	68.55	19.10	3.82	90.0	± 9.6 %
		Y	5.61 5.48	68.93	19.38	-	90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.48	68.52 68.37	19.07 19.24	4.15	90.0	± 9.6 %
- O. N.D	(2000/01 DN), TO MIDPO	Y	5.62	68.75	19.52		90.0	
×		Ż	5.50	68.36	19.22		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.57	68.46	19.34	4.30	90.0	± 9.6 %
	(= 222, 21 = m) o i mopo)	Y	5.66	68.84	19.63		90.0	
		Ż	5.54	68.44	19.32		90.0	

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)	Х	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
			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	

10151- LTE-TD QPSK) 10152- LTE-TD 16-QAM 10153- LTE-TD 64-QAM 10154- LTE-FD QPSK) 10155- LTE-FD 16-QAM 10156- LTE-FD 16-QAM 10157- CAE QPSK) 10158- LTE-FD 64-QAM 10158- LTE-FD 64-QAM	M) DD (SC-FDMA, 50% RB, 20 MHz,	Υ						1
10151- LTE-TD QPSK) 10152- LTE-TD 16-QAM 10153- LTE-TD 64-QAM 10154- LTE-FD QPSK) 10155- LTE-FD 16-QAM 10156- LTE-FD 16-QAM 10157- LTE-FD 16-QAM 10158- LTE-FD 64-QAM 10158- LTE-FD 64-QAM 10159- LTE-FD 64-QAM)D (SC_EDMA_EOV_DB_20_ML)	Y		07.00	1		 	
10151- LTE-TD QPSK) 10152- LTE-TD GAD 16-QAM 10153- LTE-TD G4-QAM 10154- LTE-FD QPSK) 10155- LTE-FD GAE 16-QAM 10156- LTE-FD GAE 16-QAM 10157- LTE-FD GAE 16-QAM 10158- LTE-FD GAE 16-QAM 10158- LTE-FD GAE 64-QAM 10159- LTE-FD G4-QAM	D (SC-EDMA 50% DB 30 ML)-	Ζ	2.99	67.62	15.95		150.0	
10151- LTE-TD QPSK) 10152- LTE-TD GAD 16-QAM 10153- LTE-TD G4-QAM 10154- LTE-FD QPSK) 10155- LTE-FD GAE 16-QAM 10156- LTE-FD GAE 16-QAM 10157- LTE-FD GAE 16-QAM 10158- LTE-FD GAE 16-QAM 10158- LTE-FD GAE 64-QAM 10159- LTE-FD G4-QAM		X	2.86 3.02	66.92 66.99	15.44 15.58	0.00	150.0 150.0	1069/
10151- LTE-TD QPSK) 10152- LTE-TD 16-QAM 10153- LTE-TD 64-QAM 10154- LTE-FD QPSK) 10155- LTE-FD 16-QAM 10156- LTE-FD QPSK) 10157- LTE-FD QPSK) 10158- LTE-FD 64-QAM 10158- LTE-FD 64-QAM 10159- LTE-FD 64-QAM		^	3.02	00.99	15.56	0.00	150.0	± 9.6 %
10152- LTE-TD CAD 16-QAM 10153- LTE-TD QPSK) 10154- LTE-FD QPSK) 10155- LTE-FD 16-QAM 10156- LTE-FD QPSK) 10157- LTE-FD QPSK) 10158- LTE-FD 16-QAM 10158- LTE-FD 64-QAM 10159- LTE-FD 64-QAM 10159- LTE-FD 64-QAM 10159- LTE-FD 64-QAM 10160- LTE-FD	<u> </u>	Υ	3.11	67.55	15.98		150.0	
10152- LTE-TD 16-QAM 10153- LTE-TD 64-QAM 10154- LTE-FD QPSK) 10155- LTE-FD 16-QAM 10156- LTE-FD QPSK) 10157- LTE-FD QPSK) 10158- LTE-FD 64-QAM 10158- LTE-FD 64-QAM 10159- LTE-FD 64-QAM		Z	2.99	66.93	15.52		150.0	
10152- LTE-TD CAD 16-QAM 10153- LTE-TD CAD 64-QAM 10154- LTE-FD CAE QPSK) 10155- LTE-FD CAE 16-QAM 10156- LTE-FD CAE QPSK) 10157- LTE-FD CAE 16-QAM 10158- LTE-FD CAE 64-QAM 10159- LTE-FD CAE 64-QAM	DD (SC-FDMA, 50% RB, 20 MHz,	X	8.96	80.66	22.26	3.98	65.0	± 9.6 %
10153- LTE-TD 64-QAM 10154- LTE-FD QPSK) 10155- LTE-FD 16-QAM 10156- LTE-FD QPSK) 10157- LTE-FD 16-QAM 10158- LTE-FD 64-QAM 10159- LTE-FD 64-QAM 10159- LTE-FD 64-QAM								
10153- LTE-FD CAE		Υ	9.32	81.32	22.60		65.0	
10153- LTE-FD CAE		Z	9.00	80.93	22.35		65.0	
10154- LTE-FD QPSK) 10155- LTE-FD 16-QAM 10156- LTE-FD QPSK) 10157- LTE-FD QPSK) 10158- LTE-FD 16-QAM 10158- LTE-FD 64-QAM 10159- LTE-FD 64-QAM	DD (SC-FDMA, 50% RB, 20 MHz, M)	X	7.88	76.96	21.35	3.98	65.0	± 9.6 %
10154- LTE-FD QPSK) 10155- LTE-FD 16-QAM 10156- LTE-FD QPSK) 10157- LTE-FD QPSK) 10158- LTE-FD 16-QAM 10158- LTE-FD 64-QAM 10159- LTE-FD 64-QAM		Y	8.23	77.73	21.78		65.0	
10154- LTE-FD QPSK) 10155- LTE-FD 16-QAM 10156- LTE-FD QPSK) 10157- LTE-FD QPSK) 10158- LTE-FD 16-QAM 10158- LTE-FD 64-QAM 10159- LTE-FD 64-QAM		Z	7.82	76.98	21.33		65.0	
10154- LTE-FD QPSK) 10155- LTE-FD 16-QAM 10156- LTE-FD QPSK) 10157- LTE-FD 16-QAM 10158- LTE-FD 64-QAM 10159- LTE-FD 64-QAM 10160- LTE-FD	DD (SC-FDMA, 50% RB, 20 MHz,	Х	8.28	77.78	22.03	3.98	65.0	± 9.6 %
10155- LTE-FD CAE	<u> </u>	Y	8.58	78.42	22.39		65.0	
10155- LTE-FD CAE		Ż	8.24	77.86	22.04		65.0	
10155- LTE-FD CAE	DD (SC-FDMA, 50% RB, 10 MHz,	X	2.21	68.11	15.68	0.00	150.0	± 9.6 %
10156- LTE-FD QPSK) 10157- LTE-FD 16-QAM 10158- LTE-FD 64-QAM 10159- LTE-FD 64-QAM 10160- LTE-FD								_ = 7 , 7
10156- LTE-FD QPSK) 10157- LTE-FD 16-QAM 10158- LTE-FD 64-QAM 10159- LTE-FD 64-QAM 10160- LTE-FD		Y	2.36	69.30	16.45		150.0	
10156- LTE-FD QPSK) 10157- LTE-FD 16-QAM 10158- LTE-FD 64-QAM 10159- LTE-FD 64-QAM 10160- LTE-FD		Ζ	2.17	67.96	15.57		150.0	
10157- LTE-FD CAE 16-QAM 10158- LTE-FD CAE 64-QAM 10159- LTE-FD CAE 64-QAM	DD (SC-FDMA, 50% RB, 10 MHz, M)	X	2.56	67.35	15.58	0.00	150.0	± 9.6 %
10157- LTE-FD CAE 16-QAM 10158- LTE-FD CAE 64-QAM 10159- LTE-FD CAE 64-QAM		Y	2.66	68.05	16.10		150.0	
10157- LTE-FD CAE 16-QAM 10158- LTE-FD CAE 64-QAM 10159- LTE-FD CAE 64-QAM		Z	2.53	67.29	15.50		150.0	
10157- LTE-FD CAE 16-QAM 10158- LTE-FD CAE 64-QAM 10159- LTE-FD CAE 64-QAM	DD (SC-FDMA, 50% RB, 5 MHz,	X	1.77	67.43	14.78	0.00	150.0	± 9.6 %
10158- LTE-FD 64-QAM 10159- LTE-FD 64-QAM 10160- LTE-FD		Y	1.94	68.94	15.78		150.0	
10158- LTE-FD 64-QAM 10159- LTE-FD 64-QAM 10160- LTE-FD		Ż	1.72	67.23	14.58		150.0	
10158- LTE-FD CAE 64-QAM 10159- LTE-FD CAE 64-QAM	DD (SC-FDMA, 50% RB, 5 MHz, M)	Х	2.05	66.34	13.82	0.00	150.0	± 9.6 %
10159- LTE-FD CAE 64-QAM		Υ	2.19	67.38	14.58		150.0	
10159- LTE-FD CAE 64-QAM		Z	2.00	66.16	13.59		150.0	
10159- LTE-FD CAE 64-QAM 10160- LTE-FD	DD (SC-FDMA, 50% RB, 10 MHz, M)	Х	2.72	67.54	15.76	0.00	150.0	± 9.6 %
10160- LTE-FD		Y	2.82	68.17	16.23		150.0	
10160- LTE-FD		Z	2.68	67.50	15.68		150.0	
10160- LTE-FD	DD (SC-FDMA, 50% RB, 5 MHz,	Х	2.14	66.71	14.07	0.00	150.0	± 9.6 %
		Υ	2.28	67.74	14.81		150.0	
		Z	2.09	66.52	13.84		150.0	
O/ ID GI OIT)	DD (SC-FDMA, 50% RB, 15 MHz,	Х	2.72	68.07	15.82	0.00	150.0	± 9.6 %
		Y	2.84	68.89	16.38	l	150.0	
		Ż	2.69	68.00	15.76		150.0	
10161~ LTE-FD CAD 16-QAM	DD (SC-FDMA, 50% RB, 15 MHz,	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- LTE-FD CAD 64-QAM	DD (SC-FDMA, 50% RB, 15 MHz,	X	3.02	67.01	15.60	0.00	150.0	± 9.6 %
		Υ	3.11	67.54	16.00		150.0	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ż	2.99	66.96	15.54		150.0	
10166- LTE-FD CAE QPSK)	DD (SC-FDMA, 50% RB, 1.4 MHz,	X	3.77	69.87	19.29	3.01	150.0	± 9.6 %
		Y	3.99	71.07	20.04		150.0	
		Ż	3.62	69.43	19.11		150.0	
10167- LTE-FD CAE 16-QAM	DD (SC-FDMA, 50% RB, 1.4 MHz,	X	4.72	72.88	19.79	3.01	150.0	± 9.6 %
		Y	5.23	74.95	20.86		150.0	
		Ż	4.39	72.04	19.48		150.0	

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	
40474		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 CE CE CE CE CE CE CE CE CE CE 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,	Тх	3.26	70.03	19.29	3.01	150.0	± 9.6 %
CAD	QPSK)	^	3.20	70.03	19.29	3.01	150.0	± 9.6 %
		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	
		Z	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	
		Z	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 %
		Υ	5.78	80.88	23.80		150.0	
		Z	4.07	74.57	21.23		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	3.89	72.56	19.29	3.01	150.0	± 9.6 %
		Υ	4.65	76.13	21.00		150.0	
		Z	3.43	70.95	18.70		150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.57	66.50	16.04	0.00	150.0	± 9.6 %
		Υ	4.61	66.73	16.23		150.0	
		Z	4.54	66.49	16.01		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	Х	4.75	66.84	16.16	0.00	150.0	± 9.6 %
		Υ	4.80	67.09	16.35		150.0	
		Z	4.71	66.82	16.14		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	Х	4.79	66.87	16.18	0.00	150.0	± 9.6 %
		Υ	4.84	67.11	16.37		150.0	
		Ζ	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)	Х	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)	Х	4.52	66.58	16.02	0.00	150.0	± 9.6 %
		Υ	4.58	66.83	16.22		150.0	
		Z	4.49	66.56	15.99		150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.76	66.85	16.17	0.00	150.0	± 9.6 %
		Υ	4.81	67.09	16.36		150.0	
10221-	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-	Z X	4.72 4.80	66.82 66.82	16.14 16.18	0.00	150.0 150.0	± 9.6 %
CAC	QAM)	Υ	1 00	67.00	40.07		450.0	
			4.86	67.06	16.37		150.0	
10222-	IEEE 802.11n (HT Mixed, 15 Mbps,	Z	4.77	66.80	16.16	0.00	150.0	1000
CAC	BPSK)		5.13	67.08	16.32	0.00	150.0	± 9.6 %
******		Y	5.18	67.32	16.50		150.0	
		Z	5.10	67.04	16.29		150.0	

10223-	IEEE 802.11n (HT Mixed, 90 Mbps, 16-	Х	5.46	67.35	16.49	0.00	150.0	± 9.6 %
CAC	QAM)	<u> </u>						
		Y	5.51	67.58	16.66		150.0	
40004	1555 000 44 (UTAN) 1 450 N	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	
10005		Z	5.14	67.14	16.27		150.0	
10225- CAB	UMTS-FDD (HSPA+)	Х	2.80	65.74	15.07	0.00	150.0	± 9.6 %
		Υ	2.87	66.19	15.45		150.0	
40000	1.75.755 (00.55144.455.4444)	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	LTE TER (CO FEMA 4 PR 4 4 MI)	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	
40000		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	LITE TOD (OO EDIA)	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	
	The second secon	Z	31.13	107.96	31.69		65.0	

10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	Х	27.87	103.57	29.75	6.02	65.0	± 9.6 %
CAD	64-QAM)	Y	50.30	114.13	22.02		65.0	
		Z	25.95	103.23	32.82 29.78		65.0 65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	X	30.53	112.33	34.64	6.02	65.0	± 9.6 %
CAD	QPSK)	Υ	65.39	128.09	39.15		65.0	
		Z	26.68	110.54	34.28		65.0 65.0	
10241-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	X	11.82	86.67	27.53	6.98	65.0	± 9.6 %
CAA	16-QAM)	Y	13.66	90.07		0.90		± 9.0 %
		Z	11.24		29.00		65.0	
10242-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	X	11.24	86.07 85.92	27.33 27.17	6.98	65.0 65.0	± 9.6 %
CAA	64-QAM)					0.90		£ 9.0 %
		Y	13.45	89.74	28.82		65.0	
40040	LTE TOD (CC EDMA 500) DD 4 4 MILE	Z	10.57	84.73	26.73	0.00	65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	9.24	83.16	27.04	6.98	65.0	± 9.6 %
		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 %
		Υ	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	
		Z	8.57	82.11	21.15		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	7.23	77.21	20.08	3.98	65.0	± 9.6 %
		Υ	7.59	77.99	20.54		65.0	-
		Z	7.13	77.07	19.88		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	7.20	76.70	19.86	3.98	65.0	± 9.6 %
		Y	7.57	77.51	20.35		65,0	
		Ż	7.09	76.52	19.65		65.0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	9.92	84.79	23.00	3.98	65.0	± 9.6 %
U, LD	Q. OTO	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)	X	8.21	79.48	22.35	3.98	65.0	± 9.6 %
		Y	8.54	80.13	22.71		65.0	
		Z	8.20	79.60	22.71		65.0	1
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	7.75	77.32	21.20	3.98	65.0	± 9.6 %
<u> </u>		Y	8.11	78.10	21.64		65.0	
		Z	7.70	77.35	21.14		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	9.77	84.02	23.49	3.98	65.0	± 9.6 %
JAD	QI OIV)	Υ	10.31	94.00	22.04		GE O	
		Z		84.92	23.94		65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	9.89 7.68	84.42 76.36	23.60 21.13	3.98	65.0 65.0	± 9.6 %
OUD	10 Q/NVI)	Y	8.00	77.10	21 55		65.0	
					21.55		65.0	
10254-	LITE TOD (SC EDMA 500/ DD 45 MU)	Z	7.63	76.40	21.10	2.00	65.0	1000
CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	8.06	77.17	21.76	3.98	65.0	± 9.6 %
		Y	8.36	77.82	22.13		65.0	ļ
		Z	8.03	77.25	21.75		65.0]

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)	X	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	19.99	-	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 000 40- MIMAY (00-40-40-	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 X	5.86 6.41	69.99	20.61	0.00	50.0	
AAA	10MHz, QPSK, PUSC, 18 symbols)			73.34	22.47	6.02	50.0	± 9.6 %
		Y	6.70	73.58	22.50		50.0	
10308-	IEEE 802.16e WiMAX (29:18, 10ms,	Z	6.29	73.03	22.22	6.00	50.0	1000
AAA	10MHz, 16QAM, PUSC)		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)		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 %
		Υ	6.61	73.05	22.35		50.0	
10011	TF FDD (00 FD)	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	0.47	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	
10317-	IEEE 902 446 WIELE OUT (OFDIA C	Z	4.64	66.69	16.24	0.47	150.0	1000
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- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Z	4.64 4.75	66.69 66.92	16.24 16.17	0.00	150.0 150.0	± 9.6 %
, v \D	oopo duty oyoic/	Y	4.81	67.18	16.37		150.0	-
		Z	4.72	66.89	16.14		150.0	
10401-	IEEE 802.11ac WiFi (40MHz, 64-QAM,	X	5.45	67.19	16.14	0.00	150.0	± 9.6 %
AAD	99pc duty cycle)					0.00		1 9.0 /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 %
700	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 %
		Y	1.55	69.01	14.40		115.0	
		Z	1.25	66.21	12.49		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	Х	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	
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	1.75 700 /00 50111 1.75 10111	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=		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 %
		Υ	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 %
		Υ	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 44 WIEI 0 4 OU /DOOR	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)	Х	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	
		Ζ	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 %
		Υ	4.75	66.89	16.33		150.0	
		Z	4.67	66.65	16.12		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.89	67.00	16.27	0.00	150.0	± 9.6 %
		Υ	4.94	67.25	16.46		150.0	
40404	LEGE 000 44 (VIT O	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-	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 %
	, D. OK	<b>—</b>	5.46	67.59	16.64		150.0	
				66.70	10.04		L TOU.U	
AAB		Y 7			16.40			
AAB 10426-	IEEE 802.11n (HT Greenfield, 90 Mbps,	Z	5.40 5.43	67.39 67.42	16.48 16.49	0.00	150.0 150.0	± 9.6 %
AAB		Z	5.40	67.39		0.00	150.0	± 9.6 %

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		Y	0.92	68,57	16.19		150.0	
		Z	0.92	65.69	14.19		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	32.24	3.29	80.0	± 9.6 %
		Υ	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)	X	13.11	84.75	18.36	3.23	80.0	± 9.6 %
		Y	100.00	107.13	24.20		80.0	
10101		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	
40465	LITE TOP (OO FOM: 4 55 6 5 11)	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	
40400	LITE TOD (OO EDM) 4 DD OM!	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)	Х	8.66	80.23	16.95	3.23	80.0	± 9.6 %
		Υ	88.88	105.43	23.71		80.0	
40407	LITE TOD (OO EDIM ( DD 5144)	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	
10100		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	
10100		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	
10470	LITE TOD (OO EDMA 4 DD 40 M)	Z	42.62	99.70	22.79		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	8.75	80.33	16.97	3.23	80.0	± 9.6 %
		Y	95.63	106.16	23.85		80.0	
10470	LTE TDD (CC EDMA 4 DD 45 ML)	Z	7.61	79.36	16.63	0.55	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 %
7010	G. W., OL Gubitatie-2,0,4,7,0,8)	Y	100.00	109.86	25.49		80.0	
		Z	41.71	99.48	22.73		80.0	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	8.66	80.23	16.94	3.23	80.0	± 9.6 %
,,,,,	Q/ WI, OL GUDITATIO-2,3,4,7,0,9)	Υ	92.76	105.86	23.79		80.0	
		Z	7.52	79.25	16.60		<del>}</del>	
			1.02	18.20	10.00	L	80.0	L

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	
		Ζ	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 %
		Y	4.96	70,77	18.30		80.0	
		Z	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)	Х	5.42	74.96	19.36	2.23	80.0	± 9.6 %
		Υ	5.98	76.57	20.11		80.0	
		Z	5.33	74.86	19.31		80.0	
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.74	70.64	18.10	2.23	80.0	± 9.6 %
		Y	4.99	71.49	18.58		80.0	
		Z	4.68	70.58	18.06		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.80	70.29	18.01	2.23	80.0	± 9.6 %
		Υ	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 %
		Υ	4.08	73.99	17.07		80.0	
		Z	3.04	70.05	15.01		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.52	65.21	12.20	2.23	80.0	± 9.6 %
		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 %
		Y	2.87	66.51	12.93		80.0	
		Z	2.25	63.75	11.14		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.75	75.65	19.32	2.23	80.0	± 9.6 %
		Y	5.48	77.92	20.36		80.0	
		Z	4.68	75.58	19.22		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.26	71.24	17.39	2.23	80.0	± 9.6 %
****		Y	4.61	72.46	18.05		80.0	
		Z	4.19	71.15	17.24		. 80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.30	71.03	17.26	2.23	80.0	± 9.6 %
		Y	4.65	72.20	17.90		80.0	
		Z	4.23	70.93	17.11		80.0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	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)	X	4.37	70.96	17.92	2.23	80.0	± 9.6 %
		Y	4.66	71.99	18.49		80.0	
		Z	4.31	70.92	17.85		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.44	70.72	17.85	2.23	80.0	± 9.6 %
********		Υ	4.72	71.68	18.38		80.0	
		Z	4.39	70.68	17.78		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.37	74.82	19.29	2.23	80.0	± 9.6 %
		Υ	5.93	76.44	20.05		80.0	
		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 %
		Υ	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	

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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	L	150.0	<u> </u>

10541- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	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 (00 MIL 140 04	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	
10E40	IEEE 900 44cc W/E: (004/11 - \$4000	Z	5.66	66.95	16.12		150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.56	66.76	16.04	0.00	150.0	± 9.6 %
		Y	5.60	66.98	16.21		150.0	
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	

10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.07	67.37	16.30	0.00	150.0	± 9.6 %
		Y	6.12	67.58	16.46		150.0	
		Z	6.04	67.31	16.27		150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.06	67.18	16.25	0.00	150.0	± 9.6 %
		Y	6.10	67.40	16.41		150.0	
		Z	6.03	67.14	16.23		150.0	
10561-	IEEE 802.11ac WiFi (160MHz, MCS7,	$\frac{1}{x}$	5.98	67.16	16.28	0.00	150.0	± 9.6 %
AAC	99pc duty cycle)	Y	6.02	67.38	16.43	0.00	150.0	2 0.0 70
		Z	5.95	67.13	16.26		150.0	
10562-	IEEE 802.11ac WiFi (160MHz, MCS8,	$\frac{2}{X}$	6.14	67.65	16.52	0.00	150.0	1000
AAC	99pc duty cycle)					0.00		± 9.6 %
		Y	6.18	67.88	16.69		150.0	
40500	IEEE 000 44 MEE (400 ML 1400 C	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	
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-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.98	67.08	16.43	0.46	150.0	± 9.6 %
AAA	OFDM, 18 Mbps, 99pc duty cycle)					0.40		± 9.0 %
		Y	5.04	67.33	16.62		150.0	
40507	IEEE 000 44 MEE 0 4 OU (DOOD	Z	4.94	67.05	16.40		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	5.00	67.42	16.74	0.46	150.0	± 9.6 %
		Υ	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 %
	= =, t :po; copo daty cyclo)	Y	5.04	67.57	16.91		150.0	
		Ż	4.95	67.33	16.71		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.25	64.93	15.40	0.46	130.0	± 9.6 %
	pri stes add ojoloj	Y	1.32	65.99	16.25		130.0	
		Z	1.24	64.84				
10572-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	$\frac{2}{X}$			15.31	0.10	130.0	. 0 0 0/
AAA	Mbps, 90pc duty cycle)		1.27	65.48	15.72	0.46	130.0	± 9.6 %
		Y	1.35	66.62	16.60		130.0	
10572		Z	1.26	65.38	15.63		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	2.10	81.92	20.57	0.46	130.0	± 9.6 %
		Υ	6.18	99.59	26.88		130.0	
		Z	1.98	81.02	20.18		130.0	
10574- AAA						0.46	130.0	1000
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 %
		X	1.40	70.72	19.61	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 ofolo/	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 OUT (OFFICE 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 %
		Υ	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 %
AAB	,,,,,	Υ'	5.48	67.26	16.66		130.0	
		1 1 1	().40	0//n	Thinh		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	
		Z	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	
40044		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	
10615		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	
10010		Z	4.73	66.35	16.12		130.0	
10613- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.78	66.28	16.05	0.46	130.0	± 9.6 %
		Υ	4.84	66.57	16.26		130.0	
		Z	4.74	66.25	16.02		130.0	
10614- 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)	Х	5.36	66.52	16.31	0.46	130.0	± 9.6 %
		Υ	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 %
		Υ	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 %
		Υ	5.36	66.91	16.54		130.0	
		Z	5.28	66.66	16.36		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.34	66.55	16.24	0.46	130.0	± 9.6 %
		Y	5.39	66.77	16.41		130.0	
		Z	5.31	66.53	16.23		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.44	66.61	16.33	0.46	130.0	± 9.6 %
		Y	5.49	66.85	16.50		130.0	
10621-	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 %
AAB	90pc duty cycle)	!	F 40	00.07	40.01		100 -	
		Y	5.46	66.85	16.61		130.0	
10000		Z	5.38	66.63	16.44	0.15	130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.43	66.83	16.54	0.46	130.0	± 9.6 %
	1777	Y	5.47	67.03	16.69		130.0	
		Z	5.41	66.83	16.53		130.0	1

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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		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) ***	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 %
		Y	6.40	68.06	17.03		130.0	
40045		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	
40040	LTE TOP (00 EDIM ( DD TAW)	Z	6.83	68.87	17.33		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	Х	48.50	125.76	41.37	9.30	60.0	± 9.6 %
		Υ	90.47	140.91	45.72		60.0	
		Z	50.32	127.46	41.96		60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	48.77	126.82	41.82	9.30	60.0	± 9.6 %
		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 %
		Υ	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 TOP (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 1 W (2001)	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	
		Z	18.59	92.23	24.12		50.0	
10659- AAA	Pulse Waveform (200Hz, 20%)	Х	100.00	114.98	28.67	6.99	60.0	± 9.6 %
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1	100.00	116.01	20.42		00.0	
		Y	100.00	116.21	29.42		60.0	

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%)	X	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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Multilateral Agreement for the recognition of calibration certificates

Client

**PC Test** 

Certificate No: EX3-7409_Jun18

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# **CALIBRATION CERTIFICATE**

Object

EX3DV4 - SN:7409

Calibration procedure(s)

QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6

Calibration procedure for dosimetric E-field probes

3N/ 17/16/2018

Calibration date:

June 25, 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	1D	Cal Date (Certificate No.)	Scheduled Calibration		
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19		
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19		
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19		
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19		
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-18)	In house check: Jun-20		
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20		
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check; Jun-20		
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20		
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-17)	In house check: Oct-18		

Calibrated by:

Claudio Leubler

Claudio Leubler

Euchnician

Signature

Laboratory Technician

Function

Signature

Technical Manager

Issued: June 26, 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





S Schweizerischer Kalibrierdienst
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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 OCP

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).

# Probe EX3DV4

SN:7409

Manufactured:

November 24, 2015

Calibrated:

June 25, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

### DASY/EASY - Parameters of Probe: EX3DV4 - SN:7409

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ² ) ^A	0.38	0.33	0.38	± 10.1 %
DCP (mV) ^B	100.8	102.3	97.7	

#### **Modulation Calibration Parameters**

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc ^t (k=2)
0	CW	×	0.0	0.0	1.0	0.00	157.1	±2.2 %
		Y	0.0	0.0	1.0		172.6	
		Z	0.0	0.0	1.0		175.7	

Note: For details on UID parameters see Appendix.

#### **Sensor Model Parameters**

	C1 fE	C2 fF	α V-1	T1 ms.V ⁻²	T2 ms.V⁻¹	T3	T4 V-2	T5 V~1	<b>T</b> 6
<u> </u>	11		٧	<del></del>	<b></b>	ms	•	٧	
X	15.40	116.5	36.38	2.655	0.140	4.978	0.000	0.017	1.008
Υ	27.94	206.6	35.20	4.338	0.095	4.989	1.642	0.000	1.004
Z	31.47	244.0	37.99	3.819	0.313	5.030	0.103	0.363	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.

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

# DASY/EASY - Parameters of Probe: EX3DV4 - SN:7409

#### 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	9.91	9.91	9.91	0.44	0.90	± 12.0 %
835	41.5	0.90	9.67	9.67	9.67	0.46	0.85	± 12.0 %
1750	40.1	1.37	8.43	8.43	8.43	0.38	0.80	± 12.0 %
1900	40.0	1.40	8.05	8.05	8.05	0.38	0.84	± 12.0 %
2300	39.5	1.67	7.57	7.57	7.57	0.32	0.80	± 12.0 %
2450	39.2	1.80	7.23	7.23	7,23	0.34	0.86	± 12.0 %
2600	39.0	1.96	6.98	6.98	6.98	0.39	0.86	± 12.0 %
5250	35.9	4.71	5.20	5.20	5.20	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.77	4,77	4.77	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.82	4.82	4.82	0.40	1.80	± 13.1 %

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

At frequencies below 3 CHz, the contribution of the contribution

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.

### DASY/EASY - Parameters of Probe: EX3DV4 - SN:7409

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

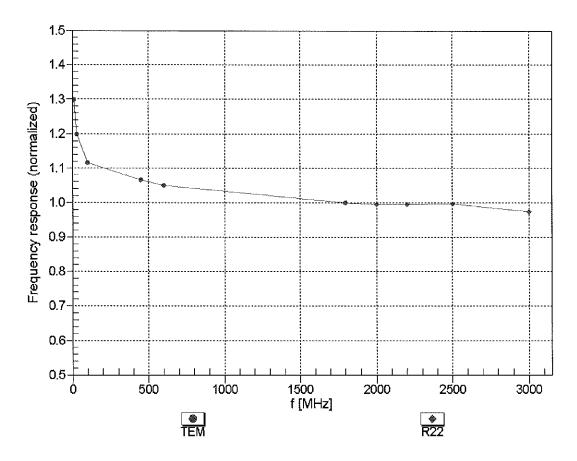
					•			
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	9.82	9.82	9.82	0.52	0.84	± 12.0 %
835	55.2	0.97	9.63	9.63	9.63	0.48	0.80	± 12.0 %
1750	53.4	1.49	7.91	7.91	7.91	0.36	0.93	± 12.0 %
1900	53.3	1.52	7.60	7.60	7.60	0.44	0.80	± 12.0 %
2300	52.9	1.81	7.36	7.36	7.36	0.38	0.88	± 12.0 %
2450	52.7	1.95	7.24	7.24	7.24	0.33	0.89	± 12.0 %
2600	52.5	2.16	7.07	7.07	7.07	0.32	0.96	± 12.0 %
5250	48.9	5.36	4.67	4.67	4.67	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.25	4.25	4.25	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.32	4.32	4.32	0.50	1.90	± 13.1 %

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

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

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

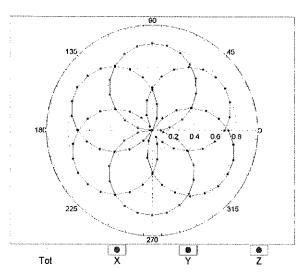


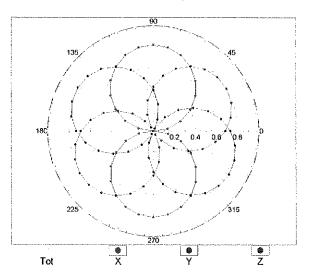
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

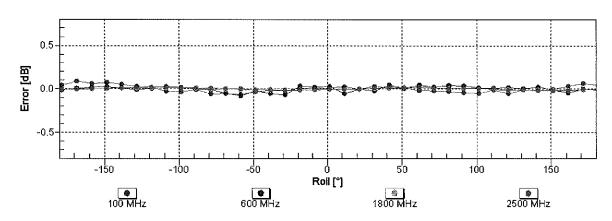
# Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

f=600 MHz,TEM

f=1800 MHz,R22

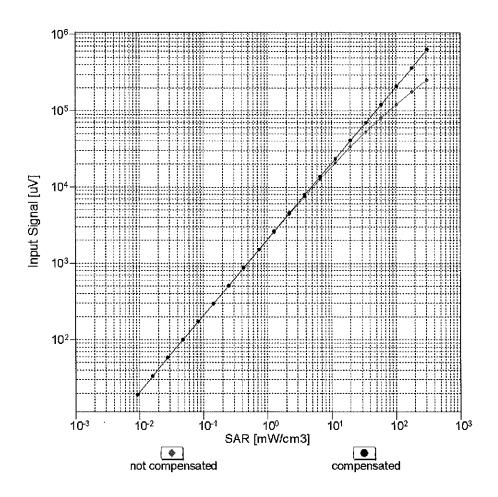


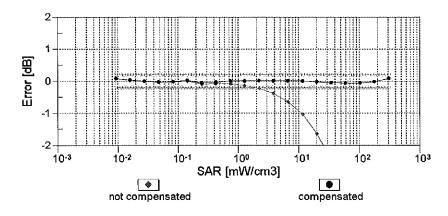




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

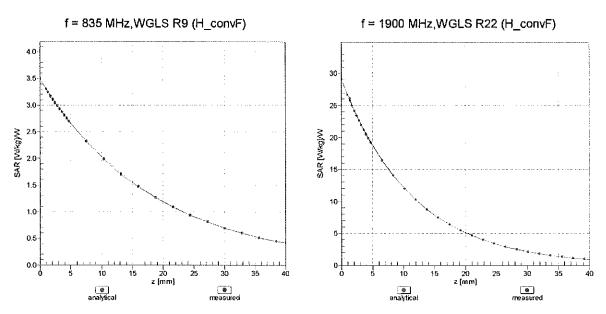
# Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



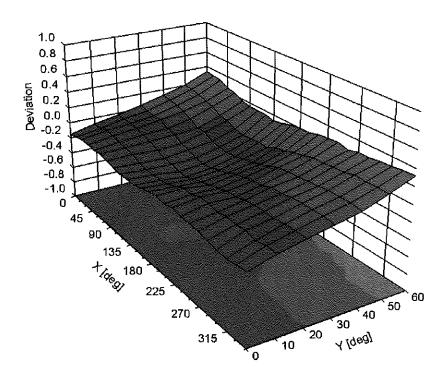


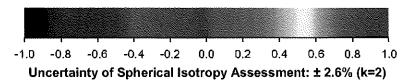
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

# **Conversion Factor Assessment**



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





# DASY/EASY - Parameters of Probe: EX3DV4 - SN:7409

## Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	41.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Appendix: Modulation Calibration Parameters

ÜID	lix: Modulation Calibration Para 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	157.1	± 2.2 %
		Υ	0.00	0.00	1.00		172.6	
		Z	0.00	0.00	1.00		175.7	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	1.25	60.42	5.97	10.00	20.0	± 9.6 %
		Υ	1.37	61.35	6.72		20.0	
10044		Z	1.46	61.54	7.06		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	0.71	66.47	12.38	0.00	150.0	± 9.6 %
		Y	1.49	76.31	19.52		150.0	
40040	LEEE 000 441 148E 0 4 OU 10 O	Z	0.80	65.38	13.27		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	Х	0.97	63.61	14.22	0.41	150.0	± 9.6 %
		Y	1.14	65.32	16.39		150.0	
40040	IEEE 000 44 MIEE	Z	1.01	62.66	14.20		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	Х	3.98	66.92	16.39	1.46	150.0	±9.6%
		Υ	4.51	67.09	17.14		150.0	
40004	COM EDD (TDIM COMO)	Z	4.51	66.48	16.81		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	2.93	68.02	10.47	9.39	50.0	± 9.6 %
		Y	5.30	74.12	13.20		50.0	
40000	CERC FOR (FRIANCE)	Z	8.30	79.26	15.55		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	2.04	64.26	8.75	9.57	50.0	± 9.6 %
		Υ	3.75	70.52	11.87		50.0	
40004		Z	5.18	74.16	13.81		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	0.77	60.84	5.97	6.56	60.0	± 9.6 %
	44	Y	100.00	98.81	18.33		60.0	
10005		Z	7.39	79.44	14.17		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	Х	2.92	62.32	21.25	12.57	50.0	± 9.6 %
		Y	3.79	70.21	26.28		50.0	***
40000		Z	3.08	62.64	21.59		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Х	4.19	76.79	26.73	9.56	60.0	± 9.6 %
		Υ	5.08	81.51	29.10		60.0	
4000=		Z	4.89	79.35	27.91		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	0.43	60.00	4.84	4.80	80.0	± 9.6 %
		Υ	100.00	98.82	17.61		80.0	
10000		Z	99.96	97.90	17.31		0.08	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	×	0.29	60.00	4.20	3.55	100.0	± 9.6 %
		Υ	100.00	100.72	17.79		100.0	
40000	FDOE FOR (TDAM STORY	Z	0.57	63.31	6.83		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	3.08	70.55	22.84	7.80	80.0	± 9.6 %
		Y	3.50	73.17	24.28		80.0	
10030-	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Z X	3,45 0.52	72.07 60.00	23.57 4.79	5.30	80.0 70.0	± 9.6 %
CAA		Υ	1.54	67.33	0.00		70.0	
CAA		1 1			9.06		70.0	
CAA		7	1 17	65.26	ייות עבר ו			
10031-	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Z X	1.17 0.04	65.26 196.26	8,49 30.81	1.88	70.0 100.0	± 9.6 %
	IEEE 802.15.1 Bluetooth (GFSK, DH3)					1.88		± 9.6 %

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10032-	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	0.00	86.08	35.43	1,17	100.0	± 9.6 %
CAA	1222 GOZITON Blastestin (Gr. Gr.) Bitto)					,,,,		
		Υ	99.99	344.89	100.44		100.0	
		Ζ	1.14	132.41	13.71		100.0	
10033~ CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Х	0.95	60.75	6.54	5.30	70.0	±9.6 %
······		Υ	4.98	80.79	18.23		70.0	
		Z	3.25	75.39	16.74		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Х	3.04	65.72	5.34	1.88	100.0	± 9.6 %
		Υ	1.68	70.56	12.82		100.0	
		Z	0.99	64.34	10.07		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Х	24.75	218.80	26.78	1.17	100.0	± 9.6 %
		Y	1.37	69.43	12.15		100.0	
40000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z	0.77	62.85	8.95		100.0	
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	0.94	60.83	6.63	5.30	70.0	± 9.6 %
		Y	7.23	85.73	19.90		70.0	
4000=		Z	3.94	78.17	17.83		70.0	1000
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	1.41	63.61	4.82	1.88	100.0	± 9.6 %
		Y	1.40	68.85	12.14		100.0	
40000	Immer ooo as a mile and a month of the	Z	0.93	63.88	9.84		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Х	26.17	217.46	26.16	1.17	100.0	± 9.6 %
		Y	1.45	70.29	12.67		100.0	
40000	ODMA 2022 (4: DTT DO4)	Z	0.78	63.02	9.17	0.00	100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	Х	21.96	306.20	30.49	0,00	150.0	± 9.6 %
		Υ	1.63	72.13	12.95		150.0	
		Z	0.63	61.62	7.75		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	1.01	60.95	6.26	7.78	50.0	± 9.6 %
		Y	1.74	65.58	9.03		50.0	
		Z.	1.77	65.58	9.34		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	Х	0.10	124.30	3.45	0.00	150.0	± 9.6 %
		Υ	0.01	119.74	2.99		150.0	
		Z	0.14	123.41	9.03		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	2.82	62.25	9.34	13.80	25.0	± 9.6 %
······		Υ	3.46	64.98	10.90		25.0	
		Z	4.35	67.54	12.61		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	Х	2.47	64.28	8.96	10.79	40.0	± 9.6 %
		Y	3,27	67.55	10.82		40.0	
40050	11170 700 (700 000)	Z	4.02	69.88	12.36		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	Х	2.81	66.64	10.78	9.03	50.0	± 9.6 %
		Y	11.82	86.24	20.09		50.0	
40050	FDOT FDD /FDLLL SDOK TV S 4 S 5	Z	9.59	84.12	20.02		50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	2.65	68.11	20,96	6.55	100.0	± 9.6 %
		Y	2.94	70.05	22.07		100.0	
10059-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	Z X	2.91 0.95	69.15 64.02	14.39	0.61	100,0 110.0	± 9.6 %
CAB	Mbps)	Y	4 4 4	60 40	16.00		440.0	
			1.14	66.10 63.23	16.82		110.0	
10060-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	Z	1.00 1.76	81.26	14.55	1 20	110.0	TUC D/
CAB	Mbps)				19.48	1.30	110.0	± 9.6 %
		Y	100.00	150.16	40.00		110.0	
		<u>Z</u>	1.90	81.85	20.27		110.0	1

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10061-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	X	1.18	69.71	16.58	2.04	110.0	± 9.6 %
CAB	Mbps)							
		Y	1.94	78.32	21.99	***************************************	110.0	
10062-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6	X	1.40 3.80	71.35 66.99	18.33 15.87	0.49	110.0 100.0	+069/
CAC	Mbps)					0.49		± 9.6 %
		Y	4.35	67.21	16.69		100.0	
10063-	JEEE 902 440/b WIFE E CUE (OFDM O	Z	4.31	66.43	16.23	0.70	100.0	
CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	3.81	67.06	15.96	0.72	100.0	± 9.6 %
,		Y	4.36	67.29	16.77		100.0	
10064-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12	Z	4.32	66.52	16.32		100.0	
CAC	Mbps)	X	3.97	67.23	16.12	0.86	100,0	± 9.6 %
		Y	4.56	67.40	16.91		100.0	
400CE	IEEE OOG 44 - # JAPE" E OU JOED LA JO	Z	4.55	66.72	16.52		100.0	
10065- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	3.85	66.82	16.06	1.21	100.0	± 9.6 %
		Y	4.42	67.15	16.92		100.0	
40000		Z	4.42	66.52	16.58		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	3.83	66.65	16.06	1.46	100.0	± 9.6 %
		Υ	4.41	67.05	17.01		100.0	
4000=		Z	4.42	66.49	16.71		100.0	
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	Х	4.01	66.66	16.35	2.04	100.0	± 9.6 %
		Υ	4.65	67.23	17.40		100.0	
		Z	4.70	66.78	17.19		100.0	
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	Х	4.12	66.97	16.78	2.55	100.0	± 9.6 %
		Y	4.69	67.14	17.56		100.0	
		Z	4.73	66.69	17.36		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	Х	4.11	66.73	16.77	2.67	100.0	± 9.6 %
		Υ	4.72	67.08	17.69		100.0	
		Z	4.78	66.70	17.53		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.07	66.96	16.68	1.99	100.0	± 9.6 %
		Y	4.59	67.07	17.37		100.0	
		Z	4.60	66.53	17.10		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	×	3.98	66.89	16.71	2,30	100.0	± 9.6 %
		Y	4.51	67.19	17.50		100.0	
		Z	4.54	66.70	17.26		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	Х	4.03	67.09	17.06	2.83	100.0	± 9.6 %
		Υ	4.56	67.35	17.81		100.0	
		Z	4.59	66.87	17.58		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	Х	4.11	67.36	17.40	3.30	100.0	± 9.6 %
		Υ	4,57	67.31	17.95		100.0	
		Z	4.60	66.82	17.73		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	Х	4.18	67.58	17.73	3.82	90.0	± 9.6 %
		Y	4.58	67.25	18.15		90.0	
		Z	4.61	66.79	17.96		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	Х	4.24	67.48	17.91	4.15	90.0	± 9.6 %
		Υ	4.61	67.08	18.28		90.0	
		Z	4.65	66.67	18.13		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	Х	4.28	67.60	18.06	4.30	90.0	± 9.6 %
		Y	4.64	67.18	18.41	<b>†</b>	90.0	t
		1	4.04	1 07.10	10.41	F	1 30.0	I

10081- CAB	CDMA2000 (1xRTT, RC3)	X	7.85	258.95	40.09	0.00	150.0	± 9.6 %
		Y	0.57	64.50	9.19		150.0	
	***************************************	Z	0.37	60.00	6.09		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	Х	72.13	59.07	0.77	4.77	80.0	± 9.6 %
		Y	7.02	60.09	1.53		80.0	***************************************
		Z	7.63	60.12	1.53		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	0.78	60.88	6.00	6.56	60.0	± 9.6 %
		Y	100.00	98.83	18.35		60.0	
10097- CAB	UMTS-FDD (HSDPA)	Z X	8.66 1.12	80.77 65.69	14.58 11.46	0.00	60.0 150.0	± 9.6 %
		Υ	2.39	74.48	18.29		150.0	
		Z	1.58	66.95	14.31		150.0	
10098- CAB	UMTS-FDD (HSUPA, Subtest 2)	Х	1.11	65.81	11.55	0.00	150.0	± 9.6 %
		Υ	2.34	74.47	18.31		150.0	
		Z	1.54	66.88	14.28		150.0	
10099- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	Х	4.22	76.90	26.77	9.56	60.0	±9.6%
		Y	5.12	81.66	29.15		60.0	
40400	LTE EDD (OO EDMA 4000) ED 00	Z	4.92	79.46	27.95	0.00	60.0	
10100- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	2.39	69.31	16.37	0.00	150.0	± 9.6 %
		Z	3.20	72.58	18.18		150.0	
10101- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	2.69 2.61	68.81 67.07	15.94 15.44	0.00	150.0 150.0	± 9.6 %
<del></del>	THILE, TO QUIII)	Y	3.12	68.53	16.66		150.0	
		Z	2.91	66.65	15.40		150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	2.71	67.23	15.58	0.00	150.0	± 9.6 %
		Υ	3.22	68.53	16.74		150.0	
		Z	3.02	66.72	15.54		150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	Х	3.72	71.26	18.49	3.98	65.0	± 9.6 %
		Υ	4.70	73.63	19.84		65.0	
***************************************		Z	4.41	71.81	18.98		65.0	
10104- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.95	69.27	17.90	3.98	65.0	± 9.6 %
		Y	4.71	71.04	19.29		65.0	
10105- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	4.63 3.78	70.10 68.25	18.86 17.72	3.98	65.0 65.0	± 9.6 %
		Y	4.47	69.73	18.97	1	65.0	
		Z	4,37	68.68	18.48		65.0	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	×	1.98	69.15	15.95	0.00	150.0	± 9.6 %
		Y	2.77	72.39	18.20		150.0	
		Z	2.29	68.22	15.72		150.0	
10109- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.19	67.24	14.70	0.00	150.0	± 9.6 %
		Y	2.80	69.06	16.71		150.0	<u> </u>
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Z X	2.54 1.35	66.58 66.94	15.14 13.41	0.00	150.0 150.0	± 9.6 %
		Y	2.32	72.63	18.00		150.0	<u> </u>
		Z	1.78	67.28	14.92		150.0	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	1.58	65.90	12.12	0.00	150.0	± 9.6 %
		Y	2.81	72.30	17.60		150.0	
		Z	2.22	67.49	14.99		150.0	

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	2.30	67.45	14.81	0.00	150.0	± 9.6 %
		Υ	2.93	69.12	16.76		150.0	
		Z	2.66	66.72	15.26		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	1.64	65.77	12.05	0.00	150.0	±9.6 %
		Υ	2.95	72.32	17.65		150.0	
		Ζ	2.37	67.73	15.17		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	Х	4.34	66.99	16.28	0.00	150.0	± 9.6 %
***		Υ	4.86	67.57	16.78		150.0	
40445	IEEE OOD 44 /UT O	Z	4.82	66.90	16.32		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	4.58	67.29	16.33	0.00	150.0	± 9.6 %
		Υ	5.08	67.61	16.77		150.0	
10116-	JEEE 000 44- (UT OS-I-I 405 M)	Z	5.06	66.98	16.35		150.0	
CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	Х	4.40	67.26	16.31	0.00	150.0	± 9.6 %
		Y	4.93	67.75	16.79		150.0	
40447	IEEE 000 442 /UEAE 1 40 512	Z	4.89	67.04	16.31		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	4.33	66.90	16.26	0.00	150.0	± 9.6 %
		Υ	4.84	67.46	16.74		150.0	
40440	IEEE 000 44 - /UTAK L 04 AM	Z	4.79	66.75	16.26		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	4.58	67.24	16.31	0.00	150.0	±9.6%
***************************************		Y	5.15	67.78	16.86		150.0	
40440	FEET COO AA (UTAN) AARTAN OA	Z	5.14	67.21	16.48		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	Х	4.39	67.16	16.27	0.00	150.0	± 9.6 %
		Υ	4.94	67.78	16.81		150.0	
		Z	4.90	67.08	16.34		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	2.65	67.18	15.35	0.00	150.0	± 9.6 %
		Υ	3.23	68.57	16.65		150.0	
		Z	3.03	66.74	15.44		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	2.80	67.68	15.68	0.00	150.0	± 9.6 %
		Υ	3.37	68.79	16.86		150.0	
		Ζ	3.16	66.97	15.67		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	0.71	61.44	8.06	0.00	150.0	± 9.6 %
		Υ	2.27	74.06	17.56		150.0	
		Z	1.48	66.51	13.59		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	0.73	60.00	6.15	0.00	150.0	± 9.6 %
		Υ	2.80	73.44	16.54		150.0	
10111		Z	1.85	66.55	13.15		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	0.73	60.00	5.65	0.00	150.0	± 9.6 %
		Y	1.85	66.75	12.85		150.0	<b></b>
40445	LITE EDD (OO EDIA) AGGG TO (	Z	1.61	64.01	11.28		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	5.16	385.51	36.59	0.00	150.0	± 9.6 %
		Y	0.54	60.00	5.91		150.0	
10146-	LTE-FDD (SC-FDMA, 100% RB, 1.4	Z X	0.58	60.00	5.88 0.00	0.00	150.0 150.0	±9.6%
CAE	MHz, 16-QAM)							
		Υ	0.74	60.00	4.95		150.0	
	Name	Z	0.80	60.00	5.53		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	0.00	60.00	0.00	0.00	150.0	± 9.6 %
		Υ	0.60	58.26	3.86		150.0	
		Z	0.82	60.00	5.58		150.0	

	1			т				
10149-	LTE-FDD (SC-FDMA, 50% RB, 20 MHz,	X	2.21	67.36	14.78	0.00	150.0	± 9.6 %
CAD	16-QAM)	Y	2.81	69.16	16.77		150.0	
		Z	2.55	66.65	15.19		150.0	
10150-	LTE-FDD (SC-FDMA, 50% RB, 20 MHz,	X	2.32	67.56	14.88	0.00	150.0	± 9.6 %
CAD	64-QAM)	^`	2.02	01.00	1 1 1 1 1 1	0.00	100.0	20.0 %
		Υ	2.94	69.22	16.82		150.0	
		Z	2.67	66.78	15.30		150.0	
10151-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	X	3.66	73.29	18.78	3.98	65.0	± 9.6 %
CAD	QPSK)							
****		Y	4.98	76.80	21.12		65.0	
10150		Z	4.55	74.40	20.06		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	3.31	68.29	16.15	3.98	65.0	± 9.6 %
CAD	10-QAIVI)	Y	4.23	70.96	18.67		65.0	
		Z	4.23	69.89	18.22		65.0	
10153-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	$\frac{2}{X}$	3.64	69.78	17.29	3.98	65.0	± 9.6 %
CAD	64-QAM)	^	J.U <del>T</del>	05.10	17.2.3	0.00	00.0	2 3.0 %
		Y	4.61	72.30	19.68		65.0	<u> </u>
		Ż	4.49	71.11	19.19	····	65.0	
10154-	LTE-FDD (SC-FDMA, 50% RB, 10 MHz,	X	1.38	67.29	13.63	0.00	150.0	± 9.6 %
CAE	QPSK)							
		Υ	2.40	73.30	18.35	}	150.0	
		Z	1.82	67.63	15.14		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	1.60	66.02	12.20	0.00	150.0	± 9.6 %
		Υ	2.83	72.40	17.66		150.0	
		Ζ	2.23	67.54	15.03		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	0.51	60.00	5.91	0.00	150.0	± 9.6 %
		Υ	2.15	74.23	16.90		150.0	
		Z	1.25	65.50	12.43		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	0.57	60.00	4.69	0.00	150.0	± 9.6 %
		Y	1.61	66.51	12.13	***************************************	150.0	
		Z	1.35	63.41	10.38	****	150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	1.65	65.90	12.13	0.00	150.0	±9.6%
		Υ	2.98	72.51	17.74		150.0	
		Ζ	2.38	67.83	15.24		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	0.59	60.00	4.69	0.00	150.0	± 9.6 %
"		Y	1.68	66.77	12.27		150.0	
		Ζ	1.39	63.54	10.48		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	1.93	68.16	15.00	0.00	150.0	± 9.6 %
		Υ	2.76	71.39	17.74		150.0	
		Ζ	2.38	67.93	15.64		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.12	67.05	14.02	0.00	150.0	± 9.6 %
		Y	2.84	69.35	16.71		150.0	
		Z	2.55	66.69	15.09		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	2.21	67.37	14.17	0.00	150.0	± 9.6 %
		Y	2.96	69.65	16.87		150.0	
		Ζ	2.66	66.96	15.26		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	2.13	65.17	17.70	3.01	150.0	± 9.6 %
		Y	3.00	69.75	19.60		150.0	
		Z	2.90	67.96	18.43		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	1.98	65.92	17.43	3.01	150.0	± 9.6 %
CAE	10 00 1111)							
CAE	, , , , , , , , , , , , , , , , , , ,	Y	3.74	74.17	20.63		150.0	

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	2.18	68.43	19.32	3.01	150.0	± 9.6 %
		Y	4.55	78.58	22.96	***************************************	150.0	
		Z	3.73	73.08	20.34	*******	150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	1.87	64.00	17.04	3.01	150.0	± 9.6 %
		Υ	2.53	68.75	19.16		150.0	
		Z	2.36	66.10	17.52	1	150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	1.85	66.74	18.73	3.01	150.0	± 9.6 %
		Y	3.84	78.32	23.19		150.0	
40474		Z	2.87	70.66	19.54		150.0	
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	1.59	63.66	15.82	3.01	150.0	± 9.6 %
		Υ	2.83	71.75	19.17		150.0	
40470	LTE TOD (CO EDIA)	Z	2.39	66.90	16.66		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	1.63	66.94	19.47	6.02	65.0	± 9.6 %
		Y	2.64	75.18	23.09		65.0	
40472	LTC TDD (OC EDMA 4 DD COAR)	Z	2.68	72.94	21,86		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	1.75	70.70	19.61	6.02	65.0	± 9.6 %
		Υ	6.55	90.87	26.66		65.0	
40474	LTC TDD (CO EDIM 4 DD CO HI	Z	4.15	79.90	22.82		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	1.33	66.12	16.85	6.02	65.0	± 9.6 %
		Υ	3.87	81.08	22.62		65.0	
40475	LTC FDD (OO FDLIA ( DD ( O L)	Z	2.77	72,65	19.43		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	1.85	63.78	16.81	3.01	150.0	± 9.6 %
		Υ	2.49	68.40	18.88		150.0	
		Z	2.33	65.83	17.28		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	1.86	66.75	18.74	3.01	150.0	± 9.6 %
		Y	3.85	78.36	23.20		150.0	
		Z	2.87	70.68	19.55		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	1.86	63.82	16.84	3.01	150.0	± 9.6 %
		Υ	2.51	68.53	18.95		150.0	
		Z	2.34	65.93	17.35		150.0	·
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	1.85	66.70	18.70	3.01	150.0	± 9.6 %
		Υ	3.81	78.15	23.10		150.0	
		Ζ	2.85	70.55	19.47		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	1.70	65.12	17.16	3.01	150.0	± 9.6 %
		Y	3.27	74.82	21.01		150.0	
40400	1	Z	2.59	68.61	17.93		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	×	1.59	63.66	15.82	3.01	150.0	± 9.6 %
		Υ	2.82	71.71	19.14		150.0	
		Z	2.39	66.88	16.63		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	1.86	63.82	16.84	3.01	150.0	± 9.6 %
		Υ	2.50	68.51	18.95		150.0	
		Z	2.34	65.92	17.34		150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	Х	1.85	66.68	18.69	3.01	150.0	± 9.6 %
		Y	3.80	78.11	23.08		150.0	
		Z	2.85	70.52	19.45		150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	1.59	63.65	15.80	3.01	150.0	± 9.6 %
		Υ	2.82	71.68	19.12		150.0	
		Z	2.38	66.86	16.62		150.0	

10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	1.86	63.84	16.85	3.01	150.0	± 9.6 %
		Υ	2.51	68.55	18.97	·	150.0	
		Z	2.35	65.96	17.36		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	1.86	66.74	18.73	3.01	150.0	± 9.6 %
		Υ	3.83	78.22	23.13		150.0	
		Z	2.86	70.59	19.49		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	1.59	63.69	15.83	3.01	150.0	± 9.6 %
		Υ	2.83	71.76	19.16		150.0	
		Z	2.39	66.91	16.65		150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	1.87	63.97	16.99	3.01	150.0	± 9.6 %
		Υ	2.53	68.67	19.08		150.0	
		Z	2.36	66.04	17.45		150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	1.89	67.14	19.05	3.01	150.0	± 9.6 %
		Υ	4.00	79.20	23.64		150.0	
		Z	2.94	71.15	19.86		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	1.61	63.93	16.07	3.01	150.0	± 9.6 %
		Υ	2.91	72.32	19.52		150.0	
		Z	2.43	67.24	16.90		150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	Х	3.74	67.40	15.79	0.00	150.0	± 9.6 %
		Υ	4.29	67.57	16.55		150.0	
		Ζ	4.20	66.51	15.90		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	Х	3.82	67.41	15.90	0.00	150.0	± 9.6 %
		Y	4.40	67.71	16.67		150.0	
		Z	4.32	66.72	16.05		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	Х	3.83	67.37	15.89	0.00	150.0	± 9.6 %
		Υ	4.42	67.68	16.66		150.0	
		Z	4.35	66.72	16.06	·····	150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	Х	3.72	67.37	15.75	0.00	150.0	± 9.6 %
		Υ	4.26	67.52	16.51		150.0	
		Z	4.17	66.48	15.88		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	Х	3.82	67.41	15.91	0.00	150.0	±9.6%
		Υ	4.41	67.70	16.67		150.0	
		Ζ	4.33	66.72	16.05		150.0	
10198- CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	Х	3.82	67.36	15.88	0.00	150.0	± 9.6 %
		Υ	4.41	67.66	16.65		150.0	
		Ζ	4.34	66.71	16.05		150.0	
10219- CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	Х	3.68	67.48	15.78	0.00	150.0	± 9.6 %
		Υ	4.22	67.61	16.52		150.0	
		Z	4.13	66.53	15.85		150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	Х	3.82	67.41	15.91	0.00	150.0	± 9.6 %
		Υ	4.40	67.66	16.65		150.0	
		Ζ	4.32	66.68	16.04		150.0	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	Х	3.85	67.40	15.91	0.00	150.0	± 9.6 %
		Υ	4.43	67.62	16.64		150.0	
		Z	4.36	66.67	16.05		150.0	
10222- CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	Х	4.34	66.97	16.27	0.00	150.0	± 9.6 %
		Y	4.82	67.47	16.73		150.0	

10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	Х	4.49	67.10	16.25	0.00	150.0	± 9.6 %
		Y	5.02	67.50	16.74		150.0	
		ż	5.01	66.90	16.33		150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	4.35	67.14	16.26	0.00	150.0	± 9.6 %
		Υ	4.86	67.63	16.73		150.0	
		Z	4.81	66.90	16.25		150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	1.60	62.87	10.00	0.00	150.0	± 9.6 %
		Υ	2.64	67.73	15.37		150.0	
		Ż	2.42	65.46	14.06		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	1.83	71.58	20.13	6.02	65.0	± 9.6 %
		Y	7.36	93.10	27.50		65.0	
		Z	4.39	80.98	23.33		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	1.73	70.59	18.93	6.02	65.0	± 9.6 %
		Υ	7.00	90.72	25.86	***************************************	65.0	
		Ζ	4.34	79.99	22.28		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	1.83	69.36	20.71	6.02	65.0	± 9.6 %
		Υ	3.28	79.62	24.97	-	65.0	
		Z	3.15	76.53	23.48		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	1.76	70.79	19.64	6.02	65.0	± 9.6 %
		Υ	6.63	91.03	26.72		65.0	
		Z	4.18	80.00	22.86		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	1.65	69.73	18,45	6.02	65.0	± 9.6 %
		Υ	6.22	88.63	25.09		65.0	
		Z	4.10	78.96	21.82		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	1.79	68.81	20.33	6.02	65.0	± 9.6 %
		Y	3.15	78.74	24.52		65.0	
		Z	3.06	75.85	23.10		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	1.76	70.77	19.64	6.02	65.0	± 9.6 %
		Υ	6.61	91.00	26.71		65.0	
		Z	4.18	79.98	22.86		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	1.65	69.70	18.44	6.02	65.0	± 9.6 %
		Υ	6.19	88.57	25.08		65.0	
·····		Z	4.09	78.93	21.81		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	1.76	68.43	20.02	6.02	65.0	± 9.6 %
		Υ	3.07	78.12	24.14		65.0	
		Ζ	2.98	75.33	22.76		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	1.76	70.76	19.64	6.02	65.0	± 9.6 %
		Υ	6.61	91.04	26.73		65.0	
		Z	4.18	80.00	22.87		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	1.66	69.79	18.48	6.02	65.0	± 9.6 %
		Υ	6.30	88.80	25.14	*****	65.0	
405		Z	4.13	79.05	21.85		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	1.78	68.76	20.32	6.02	65.0	± 9.6 %
		Υ	3.15	78.74	24.53		65.0	
		Z	3.05	75.85	23.11		65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	Х	1.76	70.75	19.64	6.02	65.0	± 9.6 %
		Υ	6.59	90.97	26.70		65.0	
		Ζ						

10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	1.65	69.67	18.43	6.02	65.0	± 9.6 %
		Y	6.16	88.50	25.06		65.0	
		Z	4.07	78.89	21.79		65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	1.78	68.77	20.32	6.02	65.0	± 9.6 %
		Υ	3.14	78.73	24.52		65.0	
		Z	3.05	75.83	23.10		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	3.09	71.04	21.81	6.98	65.0	± 9.6 %
		Υ	5.84	80.29	25.20		65.0	
		Z	5.54	77.13	23.79		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	2.70	68,41	20.47	6.98	65.0	±9.6 %
		Y	4.94	76.94	23.76		65.0	
		Z	4.89	74.64	22.64		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	×	2.78	67.24	20.54	6.98	65.0	± 9.6 %
		Y	4.14	72.94	22.88		65.0	
		Z	4.22	71.72	22.18		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	0.80	57.73	3.36	3.98	65.0	± 9.6 %
		Y	2.15	64.01	10.18		65.0	
		Z	2.44	64.99	11.42		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	×	0.82	57.61	3.20	3.98	65.0	± 9.6 %
		Y	2.13	63,69	9.96		65.0	
10010	1. TE TEE (0.0 ED) (0.1 E)	Z	2.42	64.65	11.19		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	0.87	60.00	5.50	3.98	65.0	± 9.6 %
		Υ	2.12	67.09	12.65		65.0	
	V.,	Ζ	2.17	66.84	12.89		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	1.26	60.00	6.38	3.98	65.0	± 9.6 %
		Y	2.78	67.32	13.60		65.0	
		Z	2.82	66.99	13.82		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	1.30	60.00	6.40	3.98	65.0	± 9.6 %
***************************************		Υ	2.73	66.64	13.26		65.0	
		Z	2.81	66.52	13.58		65.0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.24	61.72	8.36	3.98	65.0	± 9.6 %
		Υ	3.85	75.74	18.20		65.0	
		Z	3.35	73.06	17.32		65.0	
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.74	67.58	14.25	3.98	65.0	± 9.6 %
		Υ	4.25	73.58	19.37		65.0	
1005		Z	4.02	71.93	18.78		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	×	2.46	65.14	12.48	3.98	65.0	± 9.6 %
		Y	3.86	70.68	17.56		65.0	
40055		Z	3.78	69.64	17.25		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	2.82	71.28	16.40	3.98	65.0	± 9.6 %
		Y	4.98	79,52	21.77		65.0	
10253-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	Z X	4.29 3.12	76.11 67.32	20.42 15.07	3.98	65.0 65.0	± 9.6 %
CAD	16-QAM)	1	4.40	70.00	40.00		05.0	<u> </u>
		Y	4.18	70.66	18.33		65.0	-
10254-	LITE TOD (SC EDMA 500/ DD 45 MILE	Z	4.10	69.61	17.93	2.00	65.0	1000
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.39	68.52	15,96	3.98	65.0	± 9.6 %
		<u> Y</u>	4.50	71.75	19.15		65.0	
		Z	4.39	70.63	18.74		65.0	

10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	3.40	72.07	17.90	3.98	65.0	± 9.6 %
		Y	4.72	76.03	20.86		65.0	
		Z	4.36	73.79	19.90		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	Х	0.74	56.57	1.48	3.98	65.0	± 9.6 %
		Υ	1.50	60.83	7.03		65.0	
		Z	1.77	61.73	8.31		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	0.63	56.72	1.58	3.98	65.0	± 9.6 %
		Y	1.50	60.62	6.80		65.0	
		Z	1.77	61.47	8.06		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	0.75	60.00	4.13	3.98	65.0	± 9.6 %
******		Υ	1.38	61.96	8.52		65.0	
		Z	1.52	62.42	9.24		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	×	1.62	61.68	8.48	3.98	65.0	± 9.6 %
		Υ	3.35	69.89	15.82		65.0	
40000		Z	3.28	68.97	15.69		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	1.65	61.61	8.42	3.98	65.0	± 9.6 %
		Υ	3.36	69.55	15.64		65.0	
40007		Z	3.31	68.75	15.57		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	×	1.63	64.06	10.69	3.98	65.0	± 9.6 %
		Υ	4.19	76.83	19.42		65.0	
10000		Z	3.63	73.87	18.36		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	2.73	67.47	14.17	3.98	65.0	±9.6%
		Y	4.22	73.47	19.30		65.0	
		Z	4.00	71.83	18.72		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.46	65.13	12.47	3.98	65.0	± 9.6 %
		Y	3.85	70.66	17.56		65.0	
		Z	3.77	69.62	17.25		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Х	2.78	71.03	16.25	3.98	65.0	± 9.6 %
		Y	4.91	79.23	21.63		65.0	
		Z	4.25	75.88	20.29		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.31	68.31	16.16	3.98	65.0	± 9.6 %
		Y	4.23	70.96	18.67		65.0	
		Z	4.14	69.89	18.23		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.64	69.75	17.27	3.98	65.0	±9.6%
		Υ	4.61	72.28	19.66		65.0	
		Z	4.48	71.09	19.18		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	3.65	73.23	18.74	3.98	65.0	± 9.6 %
		Υ	4.96	76.74	21.09		65.0	
		Z	4.55	74.35	20.04		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	4.08	69.60	17.97	3.98	65.0	± 9.6 %
		Υ	4.89	71.20	19.41		65.0	
		Z	4.81	70.25	18.99		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	4.15	69.51	17.90	3.98	65,0	± 9.6 %
		Υ	4.93	70.92	19.29		65.0	
		Z.	4.85	69.98	18.89		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	4.11	72.44	19.03	3.98	65.0	± 9.6 %
		Υ	5.01	74.05	20.18		65.0	
		Z	4.76	72.38	19.41		65.0	I

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	Х	1.45	63.39	10.22	0.00	150.0	± 9.6 %
		Y	2.58	68.99	15.79		150.0	
		Z	2.26	65.99	14.08		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	Х	1.00	66.09	12.05	0.00	150.0	± 9.6 %
		Υ	1.98	74.04	18.23		150.0	
		Z	1.30	66.38	13.95		150.0	
10277- CAA	PHS (QPSK)	X	4.43	65.00	5.66	9.03	50.0	± 9.6 %
		Υ	1.25	57.54	2.57		50.0	
		Z	1.34	58.35	3.69		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	Х	1.39	58.79	4.19	9.03	50.0	± 9.6 %
		Y	2.00	62.01	7.70		50.0	
10070	BUG (ODOK BIN OO (AN) BU WOOO)	Z	2.27	62.99	8.81	0.00	50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	1.42	58.87	4.28	9.03	50.0	± 9.6 %
		Y	2.04	62.14	7.84		50.0	***************************************
40000	ODMAGOOO DOL COTT TIE	Z	2.32	63.16	8.96	0.00	50.0	1000
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	24.89	264.54	21.43	0.00	150.0	± 9.6 %
		Y	0.75	64.32	9.28		150.0	
40004	ODMA0000 PC0 COSS 5 " " " '	Z	0.55	60.53	6.84	0.05	150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	Х	8.17	257.05	37.61	0.00	150.0	± 9.6 %
		Y	0.54	64.12	8.98		150.0	
40000	ODLIAGOGO BOO GOOD E N.D. (	Z	0.37	60.00	6.07		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	Х	2.31	326.58	8.83	0.00	150.0	± 9.6 %
		Y	100.00	114.29	23.68		150.0	
10000	ODILIAGOS DOS COS E UES	Z	0.37	60.29	6.50		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	Х	2.41	304.08	37.98	0.00	150.0	± 9.6 %
		Y	100.00	121.87	26.96		150.0	
10005		Z	0.47	62.33	8.10		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	Х	11.16	76.14	13.68	9.03	50.0	± 9.6 %
		Υ	24.30	94.04	23.00		50.0	
		Z	21.29	93.19	23.41		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.00	69.33	16.06	0.00	150.0	± 9.6 %
		Υ	2.80	72.57	18.31		150.0	
		Z.	2.31	68.33	15.80		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	8.49	243.95	30.00	0.00	150.0	± 9.6 %
		Y	0.98	64.80	10.42		150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Z X	0.78 12.17	61.52 331.10	8.38 45.12	0.00	150.0 150.0	± 9.6 %
, , , , ,	10 30 1191)	Y	0.99	61.11	7.01		150.0	
		Z	1.06	61.03	7.46		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	10.15	348.38	28.30	0.00	150.0	± 9.6 %
<del>-</del>		Y	0.82	59.43	5.36		150.0	
		Z	0.95	60.00	6.23		150.0	
10301- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	3.30	64.31	15.03	4.17	50.0	± 9.6 %
***************************************		Υ	4.07	65.29	17.00		50.0	·
		Ż	4.16	64.88	16.72		50.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	3.81	65.12	15.99	4.96	50.0	± 9.6 %
	and the second s	Y	4.52	65.76	17.66		50.0	
		z	4.66	65.71	17.60	<del> </del>	50.0	

10303- AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	Х	3.64	65.07	15.71	4.96	50.0	± 9.6 %
	TOWITZ, OTQAWI, I USU)	Y	4.29	65.44	17.44		50.0	
		Z	4.42	65.39	17.44		50.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	3.46	64.98	15.29	4.17	50.0	± 9.6 %
		Y	4.15	65.58	17.11		50.0	
		Z	4.21	64.95	16.68		50.0	
10305- AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	Х	2.52	62.00	12.12	6.02	35.0	± 9.6 %
		Υ	3.52	65.78	17.45		35.0	
		Z	3.76	66,23	17.67		35.0	
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	3.12	63.64	14.29	6.02	35.0	± 9.6 %
		Y	3.94	65.53	17.75		35.0	
40007	1555 000 40 10 10 10 10	Z	4.14	65.73	17.85		35.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	3.01	63.42	14.02	6.02	35.0	± 9.6 %
		Y	3.81	65.44	17.59		35.0	
40000	IEEE 000 40 - MILLAN (00 40 40	Z	4.01	65.68	17.70		35.0	
10308- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	3.02	63.75	14.28	6.02	35.0	± 9.6 %
		Y	3.78	65.60	17.74		35.0	
10309-	IEEE 000 46- MIMAY (00:40, 40	Z	3.98	65.86	17.83	0.00	35.0	
AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	3.17	63,94	14.58	6.02	35.0	± 9.6 %
		Y	3.94	65.55	17.83		35.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Z X	4.14 3.11	65.77 63.82	17.93 14.42	6.02	35.0 35.0	± 9.6 %
7777	TOWINZ, QESK, AMC 2x3, 16 symbols)	Y	3.89	65.58	17.76		35.0	
		Z	4.09	65.78	17.76		35.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	2.31	68.15	15.92	0.00	150.0	± 9.6 %
		Y	3.15	71.23	17.71		150.0	
	***************************************	Ż	2.66	67.57	15.55		150.0	
10313- AAA	iDEN 1:3	X	1.67	67.67	13.40	6.99	70.0	± 9.6 %
		Y	2.25	71.10	15.22		70.0	
		Z	1.73	67.06	13.24		70.0	
10314- AAA	iDEN 1:6	Х	6.12	86.17	23.14	10.00	30.0	±9.6 %
		Y	7.14	89.19	24.60		30.0	
		Z	3.49	76.84	20.05		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	Х	0.91	63.92	14.34	0.17	150.0	± 9.6 %
····		Υ	1.09	65,84	16.70		150.0	
		Z	0.93	62.70	14.16		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	X	3.71	66.95	15.64	0.17	150.0	± 9.6 %
		Y	4.26	67.26	16.51		150.0	
40047	IEEE 000 44- WELE CIT (CEDIT )	Z	4.21	66.40	15.98		150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	3.71	66.95	15.64	0.17	150.0	± 9.6 %
		Y	4.26	67.26	16.51		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM,	Z X	4.21 3.67	66.40 66.95	15.98 15.61	0.00	150.0 150.0	± 9.6 %
WND	99pc duty cycle)	Y	4 20	67.50	10.50		450.0	
		Z	4.32 4.27	67.59	16.58		150.0	
10401-	IEEE 802.11ac WiFi (40MHz, 64-QAM,	X		66.67	15.99	0.00	150.0	+060/
AAD	99pc duty cycle)		4.49	66.84	16.09	0.00	150.0	± 9.6 %
		Y	5.01	67.23	16.55		150.0	
		Z	4.95	66.47	16.07	<u> </u>	150.0	

				,				,
10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	×	4.90	67.23	16.33	0.00	150.0	± 9.6 %
		Υ	5.37	67.75	16.72		150.0	
		Z	5.33	67.10	16.30	,	150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	Х	24.89	264.54	21.43	0.00	115.0	± 9.6 %
		Υ	0.75	64.32	9.28		115.0	
*******		Z	0.55	60.53	6.84		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	24.89	264.54	21.43	0.00	115.0	± 9.6 %
	****	Y	0.75	64.32	9.28		115.0	
		Z	0.55	60.53	6.84		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	0.25	60.00	3.04	0.00	100.0	± 9.6 %
		Y	100.00	107.14	22.27		100.0	
10110	LITE TOP (OC FOLIA ) DE JOUR	Z	35.03	104.04	23.84		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	1.11	74.02	16.29	3.23	80.0	± 9.6 %
		Y	100.00	123.32	29.06		80.0	
		Z	3.02	80.23	18.57		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	0.88	63.60	14.08	0.00	150.0	± 9.6 %
		Y	1.05	65.44	16.40		150.0	
		Z	0.90	62.27	13.77		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	3.72	67.22	15.78	0.00	150.0	± 9.6 %
		Y	4.26	67.46	16.59		150.0	
		Z	4.18	66.47	15.97		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	Х	3.72	67.22	15.78	0.00	150.0	± 9.6 %
		Y	4.26	67.46	16.59		150.0	
		Z	4.18	66.47	15.97		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	×	3.67	67.37	15.86	0.00	150.0	± 9.6 %
		Υ	4.26	67.73	16.69		150.0	
		Z	4.18	66.68	16.03		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	×	3.70	67.32	15.83	0.00	150.0	± 9.6 %
		<u>Y</u>	4.28	67.63	16.66		150.0	
		Z	4.19	66.61	16.02		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	Х	3.79	67.23	15.85	0.00	150.0	± 9.6 %
		Y	4.37	67.55	16.64		150.0	
		Z	4.30	66.59	16.04		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	Х	3.85	67.43	15.91	0.00	150.0	± 9.6 %
		Y	4.48	67.79	16.72		150.0	
1-1		Z	4.41	66.83	16.12		150.0	
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	3.80	67.32	15.87	0.00	150.0	± 9.6 %
		Y	4.41	67.73	16.70		150.0	
40.405		Z	4.34	66.77	16.09		150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	4.52	67.29	16.36	0.00	150.0	± 9.6 %
**************************************	***************************************	Y	5.01	67.60	16.77		150.0	
40400		Z	5.00	66.98	16.36		150.0	
10426- AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	Х	4.54	67.39	16.40	0.00	150.0	± 9.6 %
		Υ	5.06	67.79	16.86		150.0	
		Z	5.04	67.17	16.45		150.0	

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	4.54	67.34	16.38	0.00	150.0	± 9.6 %
		Υ	5.02	67.56	16.74		150.0	
		Z	4.99	66.89	16.30	***************************************	150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	Х	2.54	67.86	12.99	0.00	150.0	± 9.6 %
		Υ	5.20	77.46	20.26		150.0	
10101		Z	4.04	72.15	17.87		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	Χ	3.04	66.93	14.37	0.00	150.0	±9.6%
		Y Z	3.88	68.36	16.49		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	3.75 3.52	66.95 67.40	15.66 15.50	0.00	150.0 150.0	± 9.6 %
		Υ	4.19	67.98	16.66		150.0	
		Z	4.09	66.85	15.96		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	3.82	67.39	15.92	0.00	150.0	± 9.6 %
· · · · · · · · · · · · · · · · · · ·		Υ	4.43	67.78	16.72		150.0	
		Z	4.36	66.81	16.12		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	Х	1.61	62.74	9.15	0.00	150.0	±9.6%
		<	5.68	78.98	20.05		150.0	
40405		Z	3.98	72.24	17.17		150.0	
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	1.04	73.03	15.81	3.23	80.0	±9.6%
w		Y	100.00	122.83	28.83		80.0	
10447-	LITE EDD (OCDMA 5 MILE E TM 0.4	Z	2.85	79.40	18.23		80.0	
AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	1.63	62.08	8.98	0.00	150.0	± 9.6 %
		Y	3.10	68.15	14.99		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	Z X	2.89 2.97	66.18 66.84	13.94 14.33	0.00	150.0 150.0	± 9.6 %
		Υ	3.76	68.19	16.40		150.0	
		Z	3.63	66.75	15.54		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	3.43	67.31	15.47	0.00	150.0	±9.6 %
		Υ	4.05	67.84	16.58		150.0	
		Ζ	3.95	66.68	15.86		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	3.70	67,17	15.79	0.00	150.0	± 9.6 %
		Υ	4.26	67.58	16.60		150.0	
····		Z	4.17	66.58	15.96		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	Х	1.22	60.20	6.79	0.00	150.0	±9.6 %
		Y	2.78	67.25	13.76		150.0	
10456- AAB	IEEE 802.11ac WiFl (160MHz, 64-QAM, 99pc duty cycle)	Z X	2.61 5.60	65.48 67.64	12.83 16.61	0.00	150.0 150.0	± 9.6 %
	SUPU date Oyoto)	Y	6.26	68.94	17.34		150.0	
		ż	6.00	67.69	16.64		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.27	66.46	15.58	0.00	150.0	± 9.6 %
		Y	3.68	66.34	16.37		150.0	
10458-	CDMA2000 (1vEV DO Boy B 2	Z	3.59	65.30	15.71		150.0	
	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	1.12 3.56	60.00	5,83	0.00	150.0	±9.6 %
AAA			3 55	71.73	16.05	I	150.0	1
AAA		Y						
10459-	CDMA2000 (1xEV-DO, Rev. B, 3	Z X	3.03 2.37	68.42 61.19	14.58 9.10	0.00	150.0 150.0	± 9.6 %
		Z	3.03	68.42	14.58	0.00	150.0	± 9.6 %

10460-	UMTS-FDD (WCDMA, AMR)	Х	0.77	69.97	14.37	0.00	150.0	± 9.6 %
AAA		Υ	1.81	00.00	22.94		150.0	
····		Z	0.70	83.33 66.15	13.99		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.10	74.88	17.91	3,29	80.0	± 9.6 %
		Y	100.00	130.63	32.41		80.0	
		Z	2.28	78.08	18.84		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.93	230.19	29.26	3.23	80.0	± 9.6 %
		Υ	0.59	60.00	5.55		80.0	
		Z	0.64	60.00	7.06		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.96	233.23	22.29	3.23	80.0	± 9.6 %
		Y	23.26	230.85	21.52		80.0	
10464-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz,	Z X	0.66 0.60	60.00 67.04	6.36 13.62	3.23	80.0	4.069/
AAA	QPSK, UL Subframe=2,3,4,7,8,9)					3.23	80.0	± 9.6 %
		ΙΥ Ζ	100.00 1.46	124.51 72.00	29.50 15.83		80.0 80.0	
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	6.88	228.32	21.10	3.23	80.0	± 9.6 %
1000	(Will, 02 005)(dillo 2,0), ([1,0,0)	Y	0.24	55.14	2.95		80.0	
		Z	0.64	60.00	7.00		80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	4.90	230.59	11.80	3.23	80.0	± 9.6 %
		Y	24.92	227.37	29.84		80.0	
		Z	0.66	60.00	6.32		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	0.65	68.17	14.23	3.23	80.0	± 9.6 %
		Υ	100.00	125.25	29.82		0.08	
		Z	1.58	73.06	16.29		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	6.75	228.62	22.92	3.23	80.0	± 9.6 %
		Y	0.24	55.19	3.02		80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Z X	0.64 4.89	60.00 230.67	7.02 12.36	3.23	80.0 80.0	± 9.6 %
70.0	2,0,1,1,0,0,	Y	24.62	227.52	30.16		80.0	<del></del>
		Ż	0.66	60.00	6.32		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	0.65	68,21	14.25	3.23	80.0	± 9.6 %
		Y	100.00	125.26	29.81		80.0	
		Z	1.58	73.08	16.29		80.0	
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	6.71	228.68	22.79	3.23	80.0	± 9.6 %
		Y	0.24	55.16	2.98	ļ	80.0	
10472-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-	Z X	0.64 4.83	60.00 230.72	7.01 12.16	3.23	80.0 80.0	1069/
AAC	QAM, UL Subframe=2,3,4,7,8,9)	Y		230.72		3,23		± 9.6 %
		Z	24.39 0.66	60.00	30.29 6.30	<b></b>	80.0 80.0	
10473- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	0.65	68,12	14.21	3.23	80.0	± 9.6 %
		Υ	100.00	125.20	29.78		80.0	
		Z	1.57	73.01	16.25		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.67	228.73	22.56	3.23	80.0	± 9.6 %
		Y	0.59	60.00	5.48		80.0	
		Z	0.64	60.00	7.01		80.0	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.82	230.67	11.80	3.23	80.0	± 9.6 %
		Υ	24.34	227.67	30.21		80.0	
		Z	0.66	60.00	6.30		80.0	

10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	6.74	228.54	21.21	3.23	80.0	± 9.6 %
	1 1 1 3 - 3 - 7	Y	0.23	55.08	2.89		80.0	
		Z	0.64	60.00	6.98		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	4.84	230.57	11.22	3.23	80.0	± 9.6 %
		Υ	24.37	227.68	30.04		80.0	
		Z	0.66	60.00	6.29		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.02	84.98	21.47	3.23	80.0	±9.6 %
***		Y	100.00	125.48	31.72		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.02 0.47	83.00 60.00	20.76 6.63	3.23	80.0 80.0	± 9.6 %
		Y	1.92	67.54	11.86		80.0	
···		Z	1.73	65.44	11.67		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	0.22	55.04	3.12	3.23	80.0	± 9.6 %
		Υ	1.09	61.90	8.89		80.0	
		Z	1.31	62.31	9.77		80.0	
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	53.67	208.87	10.65	2.23	80.0	± 9.6 %
		Υ	1.05	62.14	9.95		80.0	
40400	LITE TOD (OO FOMA FOR OR ONLY	Z	0.98	60.56	9.26		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	64.01	327.64	15.81	2.23	80.0	± 9.6 %
		Y Z	1.10 1.21	60.00	7.60		80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	72.15	60.00 316.72	8.23 7.23	2.23	80.0 80.0	± 9.6 %
	0 : Q. III, 02 Odolidilo 2,0,1,1,10,0)	Y	1.13	60.00	7.59		80.0	-
		Ż	1.24	60.00	8.22		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	0.75	60.00	6.88	2.23	80.0	± 9.6 %
		Υ	2.48	72.41	16.54		80.0	
		Ζ	1.64	65.93	13.71		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.01	60.00	5.53	2.23	80.0	± 9.6 %
		Υ	1.68	63.79	11.57		80.0	
		Z	1.58	62.22	10.94		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.04	60.00	5.50	2.23	80.0	± 9.6 %
		Y	1.66	63.28	11.27		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.59 1.44	61.98 64.72	10.79 13.06	2.23	80.0 80.0	± 9.6 %
		Υ	2.82	72.60	18.56		80.0	
		Z	2.27	68.12	16.38		80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.47	61.87	10.73	2.23	80.0	± 9.6 %
		Υ	2.82	68.91	16.54		80.0	
112 12 13		Z	2.48	66.05	15.16		80.0	
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.47	61.55	10.50	2.23	80.0	± 9.6 %
····		Y	2.86	68.61	16.37		80.0	
10491- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.55 1.98	65.97 66.25	15.11 14.91	2.23	80.0 80.0	± 9.6 %
770	Gr ON, OL GUDITAINE-2,0,4,7,0,8)	Y	2.98	70.44	18.02		80.0	-
		Z	2.64	67.54	16.51	<del> </del>	80.0	<b>_</b>
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.19	64.63	13.64	2.23	80.0	± 9.6 %
	,	Y	3.11	67.88	16.76		80.0	
		Ż	2.90	65.95	15.77		80.0	

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10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.21	64.43	13.47	2.23	80.0	± 9.6 %
		Υ	3.16	67.71	16.66		80.0	
		Z	2.96	65.87	15.72		80.0	
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	2.11	67.23	15.74	2.23	80.0	± 9.6 %
		Y	3.21	71.79	18.57		80.0	
		Z	2.78	68.52	16.88		80.0	
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.35	65.50	14.66	2.23	80.0	± 9.6 %
		Υ	3.14	68.07	17.04		80.0	
		Z	2.93	66.16	16.02	****	80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.42	65.39	14.61	2.23	80.0	± 9.6 %
		Υ	3.21	67.85	16.95		80.0	
		Z	3.02	66.06	16.01		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.50	220.48	26.76	2.23	80.0	± 9.6 %
		Υ	0.82	60.00	6.90		80.0	
		Z	0.88	60.00	7.23		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.00	60.00	0.00	2.23	80.0	± 9.6 %
		Υ	1.06	60.00	5.49		80.0	
		Z	1.08	60.00	6.01		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.00	60.00	0.00	2.23	80.0	± 9.6 %
		Υ	1.10	60.00	5.30		80.0	
		Z	1.11	60.00	5.84		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	0.83	60.00	8.23	2.23	80.0	± 9.6 %
		Υ	2.68	72,91	17.52		80.0	
		Z	1.91	67.05	14.90		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.03	60.00	6.96	2.23	80.0	± 9.6 %
		Υ	2.26	66.74	13.90		80.0	
····		Z	1.97	64.14	12.76		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.05	60.00	6.86	2.23	80.0	± 9.6 %
		Υ	2.24	66.31	13.60		80.0	
		Z	1.99	63.95	12.58		80,0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.42	64.51	12.94	2.23	80.0	± 9.6 %
		Υ	2.78	72.32	18.42		80.0	
4050 (	LITE TOP (OR TOWN	Z	2.24	67.93	16.27		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.45	61.75	10.65	2.23	80.0	± 9.6 %
		Y	2.79	68.76	16.45		80.0	
40505	LITE TOD (OO ET) (A LESS) EE	Z	2.46	65.95	15.09		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.46	61.45	10.42	2.23	80.0	± 9.6 %
		Υ	2.84	68.47	16.29		80.0	
40500		Z	2.53	65.87	15.05		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.09	67.08	15.65	2.23	80.0	± 9.6 %
		Y	3.18	71.61	18.48		80.0	
40507	LITE TOD (OO DOWN 1000)	Z	2.76	68.39	16.81		80.0	
10507- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.34	65.41	14.60	2.23	80.0	± 9.6 %
		Υ	3.12	67.99	16.99		80.0	
		Z	2.92	66.10	15.98	<b> </b>	80.0	

10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.40	65.29	14.54	2.23	80.0	± 9.6 %
		Υ	3.20	67.76	16.90		80.0	
		Z	3.01	65.99	15.96		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.58	67.03	16.09	2.23	80.0	±9.6 %
		Υ	3.55	70.28	17.97		80.0	
10510		Z	3.24	67.94	16.71		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.84	65.59	15.48	2.23	80.0	± 9.6 %
		Υ	3.55	67.42	17.00		80.0	
10511		Z	3.41	66.05	16.23		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.92	65.56	15.46	2.23	80.0	±9.6 %
		Y	3.62	67.28	16.95		80.0	
		Z	3.49	65.96	16.22		80.0	
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.57	67.43	16.22	2.23	80.0	± 9.6 %
		Y	3.65	71.51	18.37		80.0	
40540	LITE TOD (OO FDAM 1000) DD 00	Z	3.23	68.73	16.92		80.0	<u> </u>
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.79	65.51	15.59	2.23	80.0	±9.6 %
		Y	3.45	67.50	17.07		80.0	
40544	1.75 750 (0.0 MD) 14	Z	3.30	66.08	16.26		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.87	65.41	15.56	2.23	80.0	±9.6%
		Υ	3.50	67.18	16.96		80.0	
		Z	3.36	65.86	16.21		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.84	63.77	14.11	0.00	150.0	± 9.6 %
		Y	1.02	65.86	16.61		150.0	
40540	IFFE 000 441 MEET 0 4 OUT 4D000 F.F.	Z	0.85	62.40	13.77	2.22	150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.62	73.89	17.55	0.00	150.0	±9.6 %
		Y	4.44	111.45	33.24		150.0 150.0	
10517-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Z X	0.45 0.68	67.70 65.50	14.48 14.61	0.00	150.0	106%
AAA	Mbps, 99pc duty cycle)	Y	0.96	70.28	18.66	0.00	150.0	± 9.6 %
		Ż	0.68	63.72	13.93		150.0	
10518- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	3.70	67.39	15.82	0.00	150.0	± 9.6 %
		Υ	4.26	67.62	16.61		150.0	
		Z	4.17	66.58	15.96		150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	Х	3.79	67.51	15.88	0,00	150.0	± 9.6 %
		Y	4.38	67.73	16.67		150.0	
40500	LEES 000 (4. II WES TO CHE COMPANY)	Z	4.31	66.74	16.05	0.00	150.0	
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	3.65	67.31	15.75	0.00	150.0	±9.6%
·		Y	4.25 4.16	67.68	16.61		150.0 150.0	<u> </u>
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	3.59	66.65 67.16	15.95 15.66	0.00	150.0	± 9.6 %
		Y	4.18	67.62	16.58		150.0	1
		Z	4.10	66.58	15.92		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	Х	3.61	67.21	15.68	0.00	150.0	± 9.6 %
		Υ	4.20	67.65	16.61		150.0	
		Z	4.13	66.67	15.99		150.0	

10523- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	Х	3,58	67.41	15.78	0.00	150.0	± 9.6 %
		Y	4.19	67.90	16.68		150.0	
		Ż	4.09	66.77	15.97		150.0	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	3.55	67.17	15.73	0.00	150.0	± 9.6 %
···		Υ	4.18	67.74	16.69		150.0	
		Z	4.09	66.69	16.02		150.0	
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	3.68	66.62	15.57	0.00	150.0	± 9.6 %
		Υ	4.25	66.93	16.35		150.0	
		Z	4.15	65.82	15.66		150.0	
10526- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	3.72	66.70	15.62	0.00	150.0	± 9.6 %
		Υ	4.34	67.14	16.44		150.0	
		Z	4.25	66,06	15.76		150.0	
10527- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	3.68	66.74	15.58	0.00	150.0	± 9.6 %
		Υ	4.29	67.16	16.40		150.0	
4		Z	4.18	66.03	15.70		150.0	
10528- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	Х	3.67	66.65	15.55	0.00	150.0	± 9.6 %
		Y	4.30	67.15	16.42		150.0	
	***************************************	Z	4.20	66.04	15.73		150.0	
10529- AAB	IEEE 802,11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	3.67	66.65	15.55	0.00	150.0	± 9.6 %
		Y	4.30	67.15	16.42		150.0	
		Z	4.20	66.04	15.73		150.0	
10531- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	Х	3.64	66.66	15.53	0.00	150.0	± 9.6 %
		Υ	4.25	67.14	16.38	·	150.0	
		Z	4.15	66.02	15.69		150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	3.57	66.55	15.48	0.00	150.0	± 9.6 %
		Υ	4.15	67.03	16.34		150.0	
		Z	4.04	65.89	15.62		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	Х	3.68	66.88	15.62	0.00	150.0	± 9.6 %
		Y	4.30	67.28	16.44		150.0	
		Z	4.20	66.13	15.73		150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	4.34	66.44	15.93	0.00	150.0	± 9.6 %
		Υ	4.85	66.86	16.39		150.0	
		Z	4.79	66.06	15.87		150.0	
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	Х	4.34	66.46	15.95	0.00	150.0	± 9.6 %
		Υ	4.87	66.95	16.44		150.0	
		Z	4.82	66.17	15.93		150.0	
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	Х	4.25	66.45	15.91	0.00	150,0	± 9.6 %
		Υ	4.78	66.98	16.43		150.0	
		Z	4.71	66.14	15.89		150.0	
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	4.35	66.61	16.01	0,00	150.0	± 9.6 %
		Y	4.86	67.05	16.47		150.0	
		Z	4.80	66.24	15.94		150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	4.37	66.44	15.94	0.00	150.0	± 9.6 %
		Y	4.89	66.89	16,42		150.0	
		Z	4.84	66.13	15.93		150.0	
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	Х	4.31	66.35	15.93	0.00	150.0	± 9.6 %
		Y	4.83	66.86	16.43		150.0	
		Z	4.77	66.08	15.92		150.0	

10541-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	4.33	66.41	15.92	0.00	150.0	± 9.6 %
AAB	99pc duty cycle)				<u> </u>	,		
		Y	4.83	66.83	16.39		150.0	
40E40	IEEE 000 44 - 14/5 /404 II 14000	Z	4.77	66.02	15.87		150.0	
10542- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	4.45	66.54	16.01	0.00	150.0	± 9.6 %
		Υ	4.97	66.88	16.43		150.0	
		Z	4.91	66.12	15.94		150.0	
10543- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	Х	4.48	66.49	16.02	0.00	150.0	± 9.6 %
		Υ	5.04	66.97	16.50		150.0	
10511	1555 000 111 1115	Z	5.01	66.28	16.06		150.0	
10544- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	Х	4.77	66.20	15.88	0.00	150.0	±9.6%
		Υ	5.21	66.81	16.32		150.0	
40545		Z	5.15	66.11	15.87		150.0	
10545- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	Х	4.82	66,41	15.96	0.00	150.0	± 9.6 %
		Υ	5.37	67.24	16.50		150.0	
40540	1555 000 11	Z	5.34	66.63	16.10		150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	Х	4.77	66.27	15.89	0.00	150.0	± 9.6 %
		Y	5.24	66.91	16.35		150.0	
40547	IEEE 000 44 - 14/15/ (001 11 - 1405)	Z	5.18	66.22	15.90		150.0	
10547- AAB	IEEE 802.11ac WIFi (80MHz, MCS3, 99pc duty cycle)	X	4.83	66.38	15.95	0.00	150.0	± 9.6 %
		Y	5.36	67.18	16.48		150.0	
40540		Z	5.31	66.51	16.04		150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	Х	4.82	66.54	16.01	0.00	150.0	± 9.6 %
		Υ	5.39	67.48	16.61		150.0	
		Z	5.39	66.96	16.24		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	Х	4.79	66.46	16.00	0.00	150.0	± 9.6 %
		Y	5.34	67.29	16.55		150.0	
		Z	5.30	66.62	16.12		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	Х	4.75	66.25	15.87	0.00	150.0	± 9.6 %
		Υ	5.21	66.84	16.29		150.0	
		Z	5.16	66.14	15.84		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	4.78	66.50	15.97	0.00	150.0	± 9.6 %
		Υ	5.22	66.98	16.36		150.0	
		Z	5.16	66.23	15.88		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	Х	4.79	66.33	15.90	0.00	150.0	± 9.6 %
		Υ	5.26	66.86	16.32		150.0	
40851		Z	5.20	66.16	15.87		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.25	66,42	15.95	0.00	150.0	± 9.6 %
		Y	5.65	67.07	16.36		150.0	
40FF=	LEEE 000 44 140E 110C	Z	5.60	66.46	15.97		150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	Х	5.31	66.63	16.05	0.00	150.0	± 9.6 %
		Y	5.71	67.24	16.43		150.0	
40550	LEEF COO AL COMPTIANTO	Z	5.68	66.67	16.06		150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	Х	5.32	66.65	16.05	0.00	150.0	± 9.6 %
		Υ	5.77	67.42	16.51		150.0	
1000		Z	5.74	66.86	16.15		150.0	
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.28	66.55	16.01	0.00	150.0	± 9.6 %
		Y	5.72	67.25	16.45		150.0	
		Z	5.67	66.64	16.06		150.0	

10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	Х	5,24	66.46	15.98	0.00	150.0	± 9.6 %
·····		TY	5.69	67.20	16.44		150.0	······································
<del></del>		Z	5.65	66.61	16.06		150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	Х	5.28	66.44	16.00	0.00	150.0	± 9.6 %
		Y	5.72	67.18	16.47		150.0	
		Z	5.68	66.60	16.09		150.0	
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	Х	5.21	66.38	15.99	0.00	150.0	± 9.6 %
		Y	5.66	67.17	16.49		150.0	
		Z.	5.63	66.59	16.12		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	Х	5.30	66.67	16.13	0.00	150.0	± 9.6 %
		Y	5.70	67.29	16.55		150.0	
		Z	5.66	66.70	16.17		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	Х	5.57	67.31	16.43	0.00	150.0	± 9.6 %
		Υ	5.83	67.40	16.57		150.0	
		Z.	5.78	66.77	16.18		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	Х	3.98	67.19	15.91	0.46	150.0	± 9.6 %
		Υ	4.54	67.45	16.63		150.0	
		Z	4.49	66.59	16.10		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	Х	4.14	67.73	16.32	0.46	150.0	± 9.6 %
		Y	4.73	67.88	16.97		150.0	
		Z	4.67	67.02	16.44		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	Х	3.97	67.32	16.02	0.46	150.0	± 9.6 %
•		Y	4.56	67.66	16.76		150.0	
		Z	4.51	66.79	16.21		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	Х	4.06	67.96	16.56	0.46	150.0	± 9.6 %
		Υ	4.62	68.16	17.21		150.0	
		Z	4.55	67.23	16.63		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	Х	3.80	66.64	15.45	0.46	150.0	± 9.6 %
		Y	4.41	67.18	16.36		150.0	
		Z	4.38	66.42	15.88		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	4.07	68.35	16.82	0.46	150.0	± 9.6 %
		Υ	4.63	68.53	17.43		150.0	
		Z	4.55	67.52	16.81		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	Х	3.99	67.81	16.52	0.46	150.0	± 9.6 %
		Υ	4.60	68.17	17.24		150.0	
		Z	4.53	67.25	16.66		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	Х	0.93	63.68	14.15	0.46	130.0	± 9.6 %
		Υ	1.11	65.62	16.53		130.0	
		Z	0.97	62.81	14.25	1	130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	Х	0.94	64.27	14.56	0.46	130.0	± 9.6 %
		Y	1.13	66.40	17.03		130.0	
10573-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	Z	0.97 1.10	63.27 79.41	14.57 19.97	0.46	130.0 130.0	± 9.6 %
AAA	Mbps, 90pc duty cycle)	_						
		Υ	29.09	140.84	40.18		130.0	
		Z	0.81	73.52	17.65		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	Х	1.00	70.10	17.80	0.46	130.0	± 9.6 %
		Υ	1.40	75.63	21.83		130.0	
		Z	0.96	67.63	16.92	t	130.0	<b>-</b>

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	3.74	66.83	15,70	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)					0.40	100,0	20.070
		Y	4.30	67.12	16.57		130.0	
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.26	66.31	16.08		130.0	
AAA	OFDM, 9 Mbps, 90pc duty cycle)	X	3.78	67.20	15.91	0.46	130.0	± 9.6 %
		Y	4.34	67.41	16.71	<u> </u>	130.0	ļ
10577-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.29	66.55	16.18		130.0	
AAA	OFDM, 12 Mbps, 90pc duty cycle)	X	3.89	67.42	16.06	0.46	130.0	± 9.6 %
		<u> </u>	4.48	67.61	16.83		130.0	
10578-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.44	66.77	16.33		130.0	
AAA	OFDM, 18 Mbps, 90pc duty cycle)		3.83	67.60	16.23	0.46	130.0	± 9.6 %
		Y	4.40	67.82	17.00	<b> </b>	130.0	
10579-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.35	66.92	16.45	0.40	130.0	
AAA	OFDM, 24 Mbps, 90pc duty cycle)		3.51	66.09	15.01	0.46	130.0	± 9.6 %
		Y	4.12	66.74	16.08		130.0	
10580-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.09	65.97	15.60	0.10	130.0	
AAA	OFDM, 36 Mbps, 90pc duty cycle)		3.49	65.97	14.89	0.46	130.0	± 9.6 %
		Y	4.12	66.69	16.03		130.0	
10581-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.11	65.99	15.59		130.0	
AAA	OFDM, 48 Mbps, 90pc duty cycle)	X	3.74	67.63	16.20	0.46	130.0	± 9.6 %
		Y	4.33	67.99	17.02		130.0	
10582-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z X	4.26	67.01	16.43		130.0	
AAA	OFDM, 54 Mbps, 90pc duty cycle)		3.37	65.61	14.64	0.46	130.0	± 9.6 %
		Y	4.03	66,45	15.82		130.0	
10502	IEEE 000 44-/h MEE: E OU L (OED) A O	Z	4.01	65.72	15.36		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	Х	3.74	66.83	15.70	0.46	130.0	± 9.6 %
		Y	4.30	67.12	16.57		130.0	·
10584-	IEEE 000 44-/6 WIELE OUT (OED) 1	Z	4.26	66.31	16.08		130.0	
AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	Х	3.78	67.20	15.91	0.46	130.0	± 9.6 %
		Y	4.34	67.41	16.71		130.0	
40E0E	IEEE 000 44-# WIEE 5 OUT (OED) 4.40	Z	4.29	66.55	16.18		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	Х	3.89	67.42	16.06	0.46	130.0	±9.6%
*****		Y	4.48	67.61	16.83		130.0	
10506	IEEE 000 44-# MEELE ON TOPPIA 40	Z	4.44	66.77	16.33		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	3.83	67.60	16.23	0.46	130.0	± 9.6 %
		Y	4.40	67.82	17.00		130.0	
10507	REEE 000 44- % WIELE OUT (OFDIA 04	Z	4.35	66.92	16.45		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	3.51	66.09	15.01	0.46	130.0	± 9.6 %
·····		Y	4.12	66.74	16.08		130.0	
10500	HEEF DOO 44-15 MIES FOLL (OFFICE OF	Z	4.09	65.97	15.60		130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	3.49	65.97	14.89	0.46	130.0	± 9.6 %
		Y	4.12	66.69	16.03		130.0	
10500	IEEE 000 44 % MUST F OUT (OFFICE	Z	4.11	65.99	15.59		130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	3.74	67.63	16.20	0.46	130.0	± 9.6 %
		Y	4.33	67.99	17.02		130.0	
10500	IEEE 000 44 a WEEL COLL (OFFICE	Z	4.26	67.01	16.43		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	Х	3.37	65.61	14.64	0.46	130.0	± 9.6 %
		Υ	4.03	66.45	15.82		130.0	
		Z	4.01	65.72	15.36		130.0	

				,			,	
10591-	IEEE 802.11n (HT Mixed, 20MHz,	X	3.91	67.05	15.98	0.46	130.0	± 9.6 %
AAB	MCS0, 90pc duty cycle)							
		Y	4.46	67.24	16.72		130.0	
		Z	4.42	66.45	16.24	0.40	130.0	- 0 0 0/
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	3.96	67.20	16.07	0.46	130.0	± 9.6 %
		Υ	4.56	67.49	16.83		130.0	
		Z	4.52	66.71	16.36		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	3.89	67.09	15.91	0.46	130.0	± 9.6 %
		Υ	4.48	67.36	16.68		130.0	
		Z	4.44	66.57	16.20		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	Х	3.93	67.20	16.06	0.46	130.0	± 9.6 %
		Y	4.53	67.56	16.87		130.0	
		Z	4.50	66.76	16.38		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	Х	3.88	67.15	15.95	0.46	130.0	± 9.6 %
		Υ	4.50	67.54	16.78	,,,,	130.0	
		Z	4.46	66.73	16.29		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	3.78	66.88	15.82	0.46	130.0	± 9.6 %
		Υ	4.41	67.44	16.74		130.0	
		Z	4.38	66.66	16.26		130.0	
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	3.79	66.92	15.72	0.46	130.0	± 9.6 %
		Y	4.37	67.31	16.57		130.0	
		Z	4.34	66.51	16.09		130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	3.85	67.45	16.19	0.46	130.0	± 9.6 %
		Υ	4.40	67.66	16.93		130.0	
		Z	4.34	66.79	16.40		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	Х	4.79	67.73	16.77	0.46	130.0	± 9.6 %
		Y	5.21	67.73	17.04		130.0	
		Z	5.16	67.02	16.62		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	4.68	67.39	16.57	0.46	130.0	± 9.6 %
		Υ	5.21	67.78	17.04		130.0	
		Z	5.26	67.42	16.79		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	Х	4.64	67.32	16.56	0.46	130.0	± 9.6 %
****		Υ	5.18	67.81	17.08		130.0	
		Z	5.18	67.25	16.73		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	4.63	67.06	16.35	0.46	130.0	± 9.6 %
		Y	5.19	67.55	16.86		130.0	
		Z	5,23	67.15	16.59		130.0	
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	Х	4.68	67.32	16.65	0.46	130.0	± 9.6 %
		Y	5.23	67.74	17.10		130.0	
		Z	5.27	67.35	16.84		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	4.64	67.04	16.46	0.46	130.0	± 9.6 %
		Υ	5.12	67.34	16.87		130.0	
		Z	5.13	66.84	16.55		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	Х	4.61	67.01	16.45	0.46	130.0	± 9.6 %
	1	Y	5.17	67.54	16.97		130.0	
		Z	5.21	67.15	16.70		130.0	
10606- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	×	4.52	66.73	16.13	0.46	130.0	± 9.6 %
		Y	5.04	67.22	16.65		130.0	
		Z	5.04	66.71	16.33		130.0	<del> </del>

10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0,	Х	3.77	66.40	15.66	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)							
		Y	4.33	66.69	16.43		130.0	
10608-	IEEE 000 44 WEE (OOM) 1 14004	Z	4.27	65.78	15.88		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	×	3.82	66,54	15.73	0.46	130.0	± 9.6 %
		Y	4.44	66.96	16.55		130.0	
		Z	4.38	66.06	16.01		130.0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	Х	3.73	66.35	15.52	0.46	130.0	± 9.6 %
		Y	4.34	66.78	16.36		130.0	
40040	1555.000.14	Z	4.28	65.87	15.81		130.0	
10610- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	3.78	66.52	15.70	0.46	130.0	± 9.6 %
		Y	4.40	66.99	16.56		130.0	
40044		Z	4.34	66.07	16.00		130.0	
10611- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	3.70	66.30	15.52	0.46	130.0	± 9.6 %
····		Y	4.30	66.73	16.37		130.0	
40040		Z	4.25	65.83	15.82		130.0	
10612- AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	3.61	66.09	15.37	0.46	130.0	± 9.6 %
		Υ	4.27	66.79	16.38		130.0	
		Z	4.22	65.92	15.84		130.0	
10613- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	3.64	66.03	15.27	0.46	130.0	± 9.6 %
		Y	4.27	66.59	16.20		130.0	
		Z	4.22	65.72	15.67		130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	3.70	66.56	15.73	0.46	130.0	± 9.6 %
		Υ	4.27	66.95	16.54		130.0	
		Z	4.20	66.00	15.96		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	Х	3.64	65.99	15.16	0.46	130.0	± 9.6 %
		Υ	4.28	66.52	16.09		130.0	
		Z	4.23	65.64	15.56		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	4.45	66.34	16.08	0.46	130.0	± 9.6 %
		Y	4.95	66.71	16.53		130.0	
		Z	4.93	66.07	16.13		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	Х	4.43	66.27	16.03	0.46	130.0	±9.6 %
		Υ	4.97	66.78	16.54		130.0	
		Z	4.96	66.18	16.16		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	4.37	66.39	16.11	0.46	130.0	± 9.6 %
		Y	4.90	66.88	16.61		130.0	
		Z	4.86	66.19	16.18		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	Х	4.42	66.32	16.00	0.46	130.0	± 9.6 %
		Y	4.94	66.79	16.49		130.0	
		Z	4.93	66.18	16.10		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	4.43	66.13	15.93	0.46	130.0	± 9.6 %
		Y	4.96	66.62	16.45		130.0	
		Z	4.96	66.05	16.09		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	4.50	66.48	16.27	0.46	130.0	± 9.6 %
		Y	5.00	66.84	16.69		130.0	
		Z	4.97	66.18	16.29		130.0	_
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	4.46	66.43	16.25	0.46	130.0	± 9.6 %
		Y	4.98	66.91	16.73		130.0	
		Z	4.96	66.27	16.33		130.0	

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				,				
10623- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	4.39	66.10	15.89	0.46	130.0	± 9.6 %
		Y	4.89	66.49	16.36		130.0	
		Z	4.86	65.84	15.96		130.0	
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	4.54	66.35	16.10	0.46	130.0	± 9.6 %
		Y	5.06	66.70	16.53	***************************************	130.0	
		Z	5.05	66.11	16.17		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	Х	4.65	66,63	16.32	0.46	130.0	± 9.6 %
		Υ	5.15	66.88	16.69		130.0	
		Z	5.16	66.34	16.36		130.0	
	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	4.87	66.09	16.03	0.46	130.0	± 9.6 %
		Υ	5.31	66.64	16.44	••••	130.0	
		Z	5.28	66.07	16.09		130.0	
10627- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	4.96	66.39	16.17	0.46	130.0	± 9.6 %
		Y	5.52	67.25	16.73		130.0	
		Z	5.53	66.80	16.43		130.0	
	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	4.83	65.96	15.85	0.46	130.0	± 9.6 %
		Υ	5.28	66.56	16.30		130.0	
1005-		Z	5.27	66.03	15.96	0.10	130.0	
10629- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	Х	4.89	66.11	15.93	0.46	130.0	± 9.6 %
		Y	5.45	66.99	16.52		130.0	
		Z	5.45	66.49	16.20		130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	Х	4.94	66.47	16.13	0.46	130.0	± 9.6 %
		Υ	5.52	67.40	16.73		130.0	-
		Z	5.58	67.09	16.50		130.0	
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	Х	5.04	67.01	16.63	0.46	130.0	±9.6%
		Y	5.56	67.66	17.07		130.0	
		Z	5.56	67.16	16.74		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.02	66.85	16.55	0.46	130.0	± 9.6 %
		Υ	5.59	67.70	17.10		130.0	
		Z	5.59	67.18	16.77		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	Х	4.86	66.17	16.01	0.46	130.0	± 9.6 %
		<b>Y</b>	5.30	66.64	16.39		130.0	
		Z	5.27	66.07	16.03		130.0	
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	Х	4.95	66,64	16,30	0.46	130.0	± 9.6 %
		Υ	5.35	66.92	16.58	ļ	130.0	
		Z	5.32	66.32	16.21		130.0	<u> </u>
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	4.70	65.44	15.34	0.46	130.0	± 9.6 %
***************************************		Υ	5.17	66.01	15.82		130.0	
		Z	5.16	65.50	15.50		130.0	
10636- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.37	66.35	16.11	0.46	130.0	±9.6%
		Y	5.75	66.94	16.50		130.0	
		Z	5.74	66.45	16.20		130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	5.47	66.68	16.28	0.46	130.0	± 9.6 %
		Y	5.84	67.17	16.61		130.0	
		Z	5.85	66.75	16.34		130.0	
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	Х	5.45	66.60	16.21	0.46	130.0	± 9.6 %
		Y	5.91	67.37	16.68		130.0	T
		Z	5.90	66.89	16.39		130.0	

10639-	IEEE 802.11ac WiFi (160MHz, MCS3,	X	5.40	66.48	16.20	0.46	130.0	± 9.6 %
AAC	90pc duty cycle)							
		Y	5.83	67.15	16.61		130.0	
10640-	IEEE 802.11ac WiFi (160MHz, MCS4,	Z X	5.82	66.67	16.32		130.0	
AAC	90pc duty cycle)		5.32	66.22	15.99	0.46	130.0	± 9.6 %
		Y	5.75	66.89	16.42		130.0	
10641-	IEEE DOO 44 oo MEE: /4000411 - A4005	Z	5.75	66.45	16.15		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	Х	5.45	66.45	16.13	0.46	130.0	± 9.6 %
		Y	5.88	67.07	16.54		130.0	
10642-	IEEE 802.11ac WiFi (160MHz, MCS6,	Z	5.90	66.70	16.30		130.0	
AAC	90pc duty cycle)	^   _	5.46	66.60	16.39	0.46	130.0	± 9.6 %
		Z	5.90 5.89	67.28	16.81	ļ	130.0	
10643-	IEEE 802.11ac WiFi (160MHz, MCS7,	X	5.28	66.80	16.53	0.40	130.0	
AAC	90pc duty cycle)	^ Y		66.13	16.00	0.46	130.0	±9.6%
		$\frac{1}{Z}$	5.73	66.91	16.51		130.0	
10644-	IEEE 802.11ac WiFi (160MHz, MCS8,	<del> </del>	5.74 5.42	66.48	16.24		130.0	10000
AAC	90pc duty cycle)	^   _Y	5.42	66.58	16.26	0.46	130.0	± 9.6 %
		Z	5.78	67.08	16.62		130.0	
10645-	IEEE 802.11ac WiFi (160MHz, MCS9,	X	5.81	66.62 67.58	16.33	0.46	130.0	1000
AAC	90pc duty cycle)	Y			16.73	0.46	130.0	± 9.6 %
			5.91	67.16	16.62		130.0	
10646-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz,	Z	5.93 2.64	66.77 72.38	16.38	0.20	130.0	
AAD	QPSK, UL Subframe=2,7)				24.11	9.30	60,0	± 9.6 %
		Y	4.60	84.41	29.31		60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	Z X	4.84 2.46	83.41 71.01	28.63 23.55	9.30	60.0 60.0	± 9.6 %
7770	QF3N, OL Subilanie-2,1)	ΤΥ	4.04	04.04	00.00			
		Z	4.04	81.81	28.38		60.0	
10648-	CDMA2000 (1x Advanced)	X	4.35 2.44	81.42	27.96	0.00	60.0	. 0.007
AAA	ODMA2000 (1X Advanced)			155.88	0.83	0.00	150.0	± 9.6 %
		Y	0.35	60.28	6.28		150.0	
10652-	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1,	Z	0.35	60.00	5.54	0.00	150.0	
AAB	Clipping 44%)		2.08	63.49	12.30	2.23	80.0	± 9.6 %
		Y	3.15	67.39	16.19		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	Z X	2.91 3.02	65.29 65.17	15.14 14.89	2.23	80.0 80.0	± 9.6 %
	The state of the s	Y	3.64	66.22	16.46	L	80.0	
		Z	3.52	64.96	15.78		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	3.20	64.95	15.39	2.23	80.0	± 9.6 %
		Y	3.67	65.70	16.49	***	80.0	
		Z	3.57	64.61	15.88		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	3.35	64.77	15.59	2.23	80.0	± 9.6 %
		Υ	3.76	65.50	16.51		80.0	
400=-		Z	3.66	64.52	15.94		80.0	
10658- AAA	Pulse Waveform (200Hz, 10%)	Х	2.01	62.76	7.94	10.00	50.0	± 9.6 %
		Y	2.58	65.57	9.73		50.0	
400=0		Z	3.05	67.26	11.01		50.0	
10659- AAA	Pulse Waveform (200Hz, 20%)	X	0.84	60.00	5.36	6.99	60.0	± 9.6 %
		Υ	1.33	63.54	7.82		60.0	
		Z	1.53	64.53	8.66		60.0	

10660- AAA	Pulse Waveform (200Hz, 40%)	X	0.39	60.00	3.98	3.98	80.0	± 9.6 %
		Y	0.54	61.57	5.88		80.0	
***************************************		Z	0.45	60.00	5.04		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	Х	17.64	60.43	1.44	2.22	100.0	± 9.6 %
		Y	0.23	60.00	4.28		100.0	
		Z	0.25	60.00	3.48		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	Х	0.00	84.91	40.93	0.97	120.0	± 9.6 %
		Y	49.30	1078.61	357.44		120.0	
		Z	0.03	139.18	4.12		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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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: 11S37390585	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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#### 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**

Certificate No: ES3-3347_Mar18

	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 frequency and the many second of the convergence of the converge

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

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## 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.

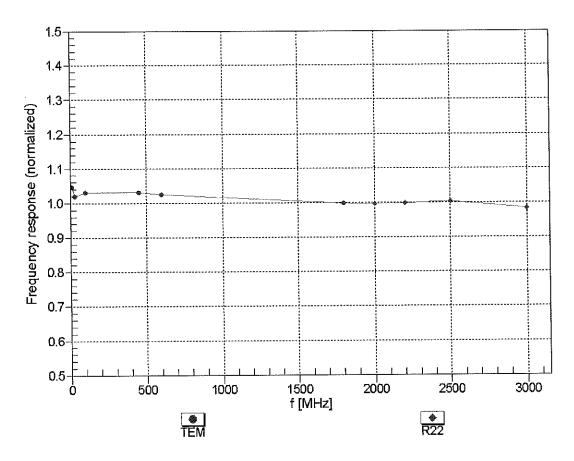
validity can be extended to ± 110 MHz.

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.

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

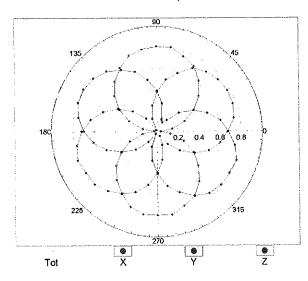


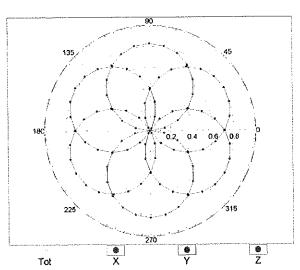
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

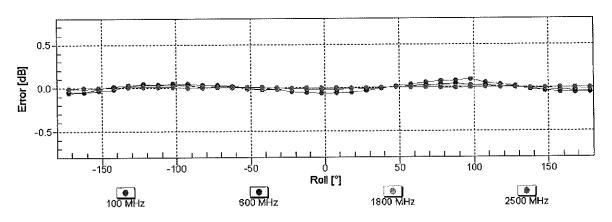
## Receiving Pattern ( $\phi$ ), $9 = 0^{\circ}$

f=600 MHz,TEM

f=1800 MHz,R22

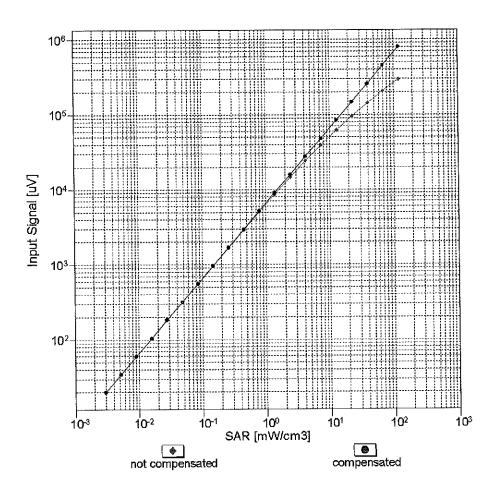


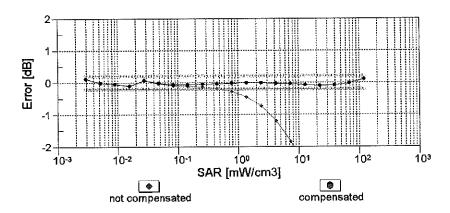




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

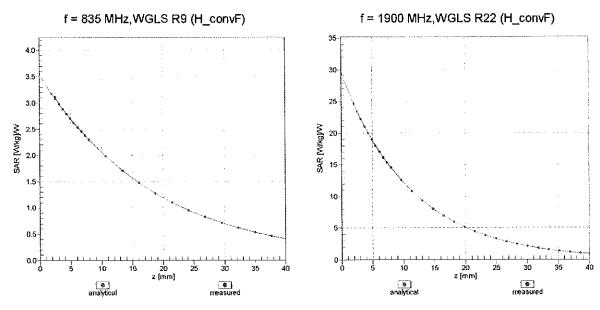
## Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



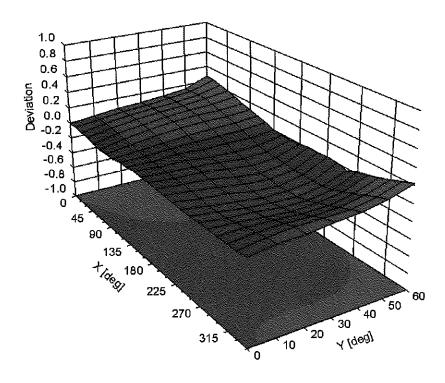


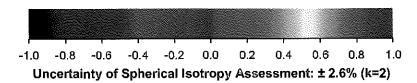
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

## **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 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 ADOM THE A CO	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 VIVA DE DOME DIVIN	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 %
		Υ	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	
10001		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	1555 000 44 4	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	1555 000 44 11 11 15 15 15 15 15 15 15 15 15 15 15	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 %
h		Y	4.92	67.57	17.33		100.0	
		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 %
		Y	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 %
		Υ	5.22	68.36	18.44		100.0	
		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 %
		Υ	5.26	68.43	18.68		100.0	
		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	
400==		Z	5.40	68.60	19.05		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	Х	5.50	68.45	19.21	4.15	90.0	± 9.6 %
		Y	5.40	68.64	19.31		90.0	
4000		Z	5.44	68.46	19.21		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	Х	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, 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, 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)  10101- CAD  LTE-FDD (SC-FDMA, 100% RB, 2)  MHz, 64-QAM)  LTE-TDD (SC-FDMA, 100% RB, 2)  MHz, G4-QAM)  LTE-FDD (SC-FDMA, 100% RB, 2)  MHz, G4-QAM)  LTE-FDD (SC-FDMA, 100% RB, 2)  LTE-FDD (SC-FDMA, 100% RB, 2)  MHz, G4-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, 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)  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)  10110- 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 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 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 %
		Y	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	
		Ζ	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	
40440		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 %
		Y	5.15	67.53	16.41		150.0	
40447		Z	5,20	67.47	16.40		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.10	67.11	16.30	0.00	150.0	± 9.6 %
		Υ	5.03	67.22	16.34		150.0	
40440	1	Ζ	5.06	67.11	16.31		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.56	67.71	16.61	0.00	150.0	± 9.6 %
		Y	5.40	67.63	16.55		150.0	
40440		Z	5.48	67.67	16.59		150.0	
10119- CAC	IEEE 802.11π (HT Mixed, 135 Mbps, 64- QAM)	X	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 %
		Υ	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%
		Υ	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 %
		Υ	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	
10		Z	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 %
		Y	2.08	66.17	13.48		150.0	
4044	LTF FDD (00 FDL)	Z	2.13	66,11	13.65		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.17	64.40	11.32	0.00	150.0	± 9.6 %
		Y	0.99	63.23	9.93		150.0	
10146-	LTE-FDD (SC-FDMA, 100% RB, 1.4	X	1.08 2.07	63.80 66.79	10.61 12.08	0.00	150.0 150.0	± 9.6 %
CAE	MHz, 16-QAM)	<del>  ,  </del>	474	05.40	40.50	ļ	450.0	
***************************************		Y	1.74	65.46	10.58		150.0	
40447	LTE EDD (CO EDMA 4000/ DD 44	Z	1.93	66.25	11.43	0.00	150.0	1000
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 %
		Υ	2.02	67.13	11.50		150.0	
		Z	2.26	68.13	12.45		150.0	L

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	
		Z	2,95	67.18	15.62		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	9.21	81.33	22.45	3.98	65.0	± 9.6 %
		Υ	9.55	83.12	23.24		65.0	
		Z	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	ļ	150.0	
		Z	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	
		Z	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	
		Z	2.67	67.98	15.86		150.0	L
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)	X	2.69	68.21	15.87	0.00	150.0	± 9.6 %
		Υ	2.64	68.50	16.02		150.0	
10161		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	
40465		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 %
		Y	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	
		Z	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	<b>-</b>
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	
		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 (OG EDMA ( DD GO)	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 %
		Y	3.56	73.31	19.70		150.0	
10172-	LTE TDD (CC TDMA 4 DD CO MIL)	Z	3.59	72.29	19.01		150.0	
CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	21.10	104.74	32.18	6.02	65.0	± 9.6 %
		Υ	44.31	124.23	38.59		65.0	
10173-	LTE TOD (CO EDMA 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 %
		Υ	100.00	131.53	37.83		65.0	
10174-	LTE TDD (CO FDMA 4 DD CO FV)	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	
10175	LTE EDD (OO EDMA 4 DE 400M)	Z	36.57	109.34	31.20		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	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	ļ	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	
		Ζ	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	
	And Andrews Control of the Control o	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	LTE 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	1.75 FDD (00 FD)	Z	3.59	72.21	18.96		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.13	69.64	18.92	3.01	150.0	± 9.6 %
		Υ	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)		4.00	77 70	00.51		4=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)	X	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 1000) DR 10	<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)	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 %
CAD	reio. 10)	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 %
01.0		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	
	4444	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)	X	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	155500000000000000000000000000000000000	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	
40007		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 %
		Υ	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 %
		Υ	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)	Х	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)	X	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 %
AAD		Y	E 22	67.38	40.40		450.0	
		1 1	5.32	07.30 :	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 %
	55,5 43,5 5,5,5,	Υ	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	
		Ζ	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 %
		Y	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	X	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)	×	0.96	62.46	13.98	0.00	150.0	±9.6 %
		Υ	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 %
		Υ	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)	X	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)	X	4.66	66.73	16.13	0.00	150.0	± 9.6 %
		Y	4.57	66.94	16.17	1	150.0	<u> </u>
		Z	4.61	66.79	16.14		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	Х	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	
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		150.0	1

Y   4.03   70.48   17.58   150.0   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10431-   10	10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.38	67.41	16.44	0.00	150.0	± 9.6 %
TE-FDD (OFDMA, 5 MHz, E-TM 3.1)			Y	5.27	67.46	16.44		150.0	
10430-  17-F-PD (OFDMA, 5 MHz, E-TM 3.1)   X   4.17   70.27   17.81   0.00   150.0   ± 9.6 %   10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431-  10431						· <del>}</del>			
Tempo		LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)					0.00		± 9.6 %
10431-			Y	4.03	70.48	17.58		150.0	
1043-			Z	4.14			<del>                                     </del>		<del> </del>
Total		LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)					0.00		± 9.6 %
Total			Υ	4.09	67.33	16.03		150.0	
10432- AAA  LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) X 4.51 67.03 16.15 0.00 150.0 ±9.6 %  V 4.40 67.23 16.17 150.0  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) X 4.76 67.08 16.15 150.0 150.0 ±9.6 %  AAB  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) X 4.76 67.04 16.27 150.0 150.0 ±9.6 %  V 4.66 67.21 16.27 150.0 150.0 ±9.6 %  V 4.67 67.04 16.24 0.00 150.0 ±9.6 %  V 4.67 67.04 16.24 0.00 150.0 ±9.6 %  V 4.07 71.14 17.40 150.0 150.0 ±9.6 %  AAA  W-CDMA (BS Test Model 1, 64 DPCH) X 4.23 70.97 17.72 0.00 150.0 ±9.6 %  LTE-FDD (SC-FDMA, 1 RB, 20 MHz, Z 4.21 71.31 17.74 150.0 150.0 ±9.6 %  AAC QPSK, UL Subframe=2,3.4,7.8,9) X 100.00 118.98 29.60 3.23 80.0 ±9.6 %  LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, X 3.49 66.99 15.32 0.00 150.0 ±9.6 %  CIpping 44%) Y 3.34 67.04 15.22 150.0 150.0 100.0 100.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, X 4.04 66.88 15.90 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, X 4.04 66.88 15.90 0.00 150.0 ±9.6 %  CIpping 44%) Y 3.94 67.12 15.89 150.0 150.0 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, X 4.04 66.88 15.90 0.00 150.0 ±9.6 %  CIpping 44%) Y 3.94 67.12 15.89 150.0 150.0 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, X 4.22 66.84 16.03 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.32 66.84 16.03 0.00 150.0 ±9.6 %  CIpping 44%) Y 4.44 66.97 16.08 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.99 16.08 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.99 16.08 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.99 16.08 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 50 MHz, E-TM 3.1, X 4.51 66.99 16.08 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 50 MHz, E-TM 3.1, X 4.51 66.99 16.08 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 50 MHz, E-TM 3.1, X 4.51 66.99 16.08 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 50 MHz, E-TM 3.1, X 4.51 66.99 16.08 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 50 MHz, E-TM 3.1, X 4.51 66.99 16.08 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 50 MHz, E-TM 3.1, X 4.51 66.99 16.08 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 50 MHz, E-TM 3.1, X 4.51 66.90 16.04 150.0 150.0 ±9.6 %  LTE-FDD			Z	4.15					
10433-		LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)					0.00		± 9.6 %
10433- AAA    TE-FDD (OFDMA, 20 MHz, E-TM 3.1)   X   4.76   67.04   16.24   0.00   150.0   ± 9.6 %				4.40	67.23	16.17		150.0	
AAB  Y 4.66 67.21 16.27 150.0  10434-AAA  W-CDMA (BS Test Model 1, 64 DPCH) X 4.23 70.97 17.72 0.00 150.0 ±9.6 %  Y 4.07 71.14 17.40 150.0  Z 4.21 71.31 17.74 150.0  LTE-TDD (SC-FDMA, 1 RB, 20 MHz, X 100.00 118.98 29.60 3.23 80.0 ±9.6 %  ACC  QPSK, UL Subframe=2.3.4,7,8,9) Y 100.00 118.98 29.60 3.23 80.0 ±9.6 %  LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, X 3.49 66.99 15.32 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, X 4.04 66.88 15.90 0.00 150.0 ±9.6 %  Clippin 44%) Y 3.34 67.16 15.09 150.0 ±9.6 %  LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, X 4.04 66.88 15.90 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, X 4.22 66.44 16.03 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, X 4.22 66.44 16.03 0.00 150.0 ±9.6 %  LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, X 4.32 67.04 16.06 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.31 66.79 16.04 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.21 66.97 16.10 150.0 150.0 ±9.6 %  Clipping 44%) Y 4.23 67.04 16.06 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.04 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.04 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.04 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.04 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.04 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.06 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.04 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.04 16.06 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.04 16.06 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.04 16.06 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.04 16.06 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.04 16.06 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.04 16.06 150.0 150.0 ±9.6 %  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.04 16.06 150.0 150.0	10100	- Want		4.46	67.08	16.15		150.0	
10434-		LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)				16.24	0.00	150.0	± 9.6 %
10434- AAA  W-CDMA (BS Test Model 1, 64 DPCH)  X				4.66		16.27		150.0	
10447- AAB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)  LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, AAB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, ABB LTE-FDD (O	40404	N. Salvers							
TE-FDD (SC-FDMA, 1 RB, 20 MHz, AB   TE-FDD (SC-FDMA, 5 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD (OFDMA, 20 MHz, E-TM 3.1, TE-FDD		W-CDMA (BS Test Model 1, 64 DPCH)					0.00		± 9.6 %
10435- AAC								150.0	
AAC QPSK, UL Subframe=2,3,4,7,8,9)  Y 100.00 122.59 30.87 80.0  ILTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)  Y 3.34 67.16 15.09 150.0 150.0 ± 9.6 %  ILTE-FDD (OFDMA, 10 MHz, E-TM 3.1, X 4.04 66.88 15.90 0.00 150.0 ± 9.6 %  ILTE-FDD (OFDMA, 15 MHz, E-TM 3.1, X 4.04 66.88 15.90 0.00 150.0 ± 9.6 %  ILTE-FDD (OFDMA, 15 MHz, E-TM 3.1, X 4.32 66.84 16.03 0.00 150.0 ± 9.6 %  ILTE-FDD (OFDMA, 15 MHz, E-TM 3.1, X 4.32 66.84 16.03 0.00 150.0 ± 9.6 %  ILTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.90 16.04 150.0 150.0 10450-AAB Clipping 44%)  ILTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.97 16.08 0.00 150.0 ± 9.6 %  ILTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.97 16.09 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.	4040=							150.0	
TO447-   LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, AB   Clipping 44%)		LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)			L		3.23	80.0	± 9.6 %
10447-   AAB						30.87		80.0	
AAB Clipping 44%)    Y   3.34   67.16   15.09   150.0     Z   3.41   67.04   15.22   150.0     Z   3.41   67.04   15.22   150.0     Z   3.41   67.04   15.22   150.0     Z   3.41   67.04   15.22   150.0     Z   3.41   67.04   15.22   150.0     Z   3.41   67.04   15.22   150.0     Z   3.48   67.12   15.89   150.0     Y   3.94   67.12   15.89   150.0     Z   3.99   66.95   15.89   150.0     LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, X   4.32   66.84   16.03   0.00   150.0   ±9.6 %   X   4.32   67.04   16.06   150.0     X   4.27   66.90   16.04   150.0     10450- AAB   Clipping 44%)   X   4.51   66.79   16.08   0.00   150.0   ±9.6 %   X   4.47   66.83   16.09   150.0     10451- AAA   Clipping 44%)   X   3.37   67.12   14.92   0.00   150.0   ±9.6 %   X   3.19   67.13   14.54   150.0     X   3.19   67.13   14.54   150.0     X   3.28   67.11   14.76   150.0     X   3.19   67.13   14.54   150.0     X   3.28   67.11   14.76   150.0     X   3.75   65.50   15.83   150.0     10457- AAA   UMTS-FDD (DC-HSDPA)   X   3.77   65.25   15.79   0.00   150.0   ±9.6 %    X   3.75   65.50   15.83   150.0     10458- AAA   CDMA2000 (1xEV-DO, Rev. B, 2   X   3.87   70.16   17.10   0.00   150.0   ±9.6 %    X   3.71   70.34   16.66   150.0     10459- AAA   CDMA2000 (1xEV-DO, Rev. B, 2   X   3.84   70.49   17.05   150.0     X   3.84   70.49   17.05   150.0     X   4.81   68.13   17.56   150.0     X   4.81   68.13   17.56   150.0	1011-			100.00	119.99	29.88		80.0	
10448-						15.32	0.00	150.0	± 9.6 %
10448-   LTE-FDD (OFDMA, 10 MHz, E-TM 3.1,   X   4.04   66.88   15.90   0.00   150.0   ± 9.6 %				3.34	67.16	15.09		150.0	
AAB Clippin 44%)  Y 3.94 67.12 15.89 150.0  10449- AAB Cliping 44%)  LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, X 4.32 66.84 16.03 0.00 150.0 ±9.6 %  Cliping 44%)  Y 4.23 67.04 16.06 150.0  Z 4.27 66.90 16.04 150.0  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.79 16.08 0.00 150.0 ±9.6 %  Clipping 44%)  Y 4.44 66.97 16.11 150.0  LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, X 4.51 66.83 16.09 150.0 ±9.6 %  W-CDMA (BS Test Model 1, 64 DPCH, X 3.37 67.12 14.92 0.00 150.0 ±9.6 %  Y 3.19 67.13 14.54 150.0  LEEE 802.11ac WiFi (160MHz, 64-QAM, AB)  99pc duty cycle)  Y 6.17 68.10 16.67 150.0  LEEE 802.11ac WiFi (160MHz, 64-QAM, AB)  UMTS-FDD (DC-HSDPA)  X 3.77 65.25 15.79 0.00 150.0 ±9.6 %  AAA Carriers)  Y 3.71 70.34 16.66 150.0  LEDMA2000 (1xEV-DO, Rev. B, 2 X 3.87 70.16 17.10 0.00 150.0 ±9.6 %  CDMA2000 (1xEV-DO, Rev. B, 3 X 5.00 67.94 17.87 0.00 150.0 ±9.6 %  AAA CDMA2000 (1xEV-DO, Rev. B, 3 X 5.00 67.94 17.05 150.0 150.0 ±9.6 %  CDMA2000 (1xEV-DO, Rev. B, 3 X 5.00 67.94 17.87 0.00 150.0 ±9.6 %  AAA CDMA2000 (1xEV-DO, Rev. B, 3 X 5.00 67.94 17.87 0.00 150.0 ±9.6 %  AAA CDMA2000 (1xEV-DO, Rev. B, 3 X 5.00 67.94 17.87 0.00 150.0 ±9.6 %  AAA CDMA2000 (1xEV-DO, Rev. B, 3 X 5.00 67.94 17.87 0.00 150.0 ±9.6 %  AAA CDMA2000 (1xEV-DO, Rev. B, 3 X 5.00 67.94 17.87 0.00 150.0 ±9.6 %  AAA CDMA2000 (1xEV-DO, Rev. B, 3 X 5.00 67.94 17.87 0.00 150.0 ±9.6 %  AAA CDMA2000 (1xEV-DO, Rev. B, 3 X 5.00 67.94 17.87 0.00 150.0 ±9.6 %	10110			3.41	67.04	15.22		150.0	
10449-   AAB			X		66.88	15.90	0.00		± 9.6 %
10449-   AAB			Υ	3.94	67.12	15.89		150.0	
AAB Cliping 44%)  Y 4.23 67.04 16.06 150.0  INVESTIGATION OF THE PROPERTY OF T				3.99	66.95	15.89		150.0	
Tourish			Х	4.32	66.84	16.03	0.00	150.0	± 9.6 %
10450-   AAB				4.23	67.04	16.06		150.0	
AAB Clipping 44%)  Y 4.44 66.97 16.11 150.0  10451- AAA Clipping 44%)  Y 3.19 67.13 14.54 150.0  Z 3.28 67.11 14.76 150.0  10456- AAB 99pc duty cycle)  Y 6.17 68.10 16.67 150.0  Z 6.19 67.99 16.63 150.0  Y 3.77 65.25 15.79 0.00 150.0 ± 9.6 %  Y 3.75 65.50 15.83 150.0  10458- AAA Carriers)  Y 3.71 70.34 16.66 150.0  10459- AAA CDIMA2000 (1xEV-DO, Rev. B, 2 AAA carriers)  Y 4.81 68.13 17.56 150.0  Y 4.81 68.13 17.56 150.0			Ζ	4.27	66.90	16.04		150.0	
Tourish					66.79		0.00		± 9.6 %
10451-   AAA			Υ	4.44	66.97	16.11		150.0	
AAA Clipping 44%)  Y 3.19 67.13 14.54 150.0  10456- AAB 99pc duty cycle)  Y 6.17 68.10 16.67 150.0  Z 6.19 67.99 16.63 150.0  10457- AAA  UMTS-FDD (DC-HSDPA)  Y 3.75 65.25 15.79 0.00 150.0 ± 9.6 %  Y 3.75 65.32 15.80 150.0  Z 3.75 65.32 15.80 150.0  10458- AAA  CDMA2000 (1xEV-DO, Rev. B, 2 X 3.87 70.16 17.10 0.00 150.0 ± 9.6 %  Y 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 X 5.00 67.94 17.87 0.00 150.0 ± 9.6 %  CDMA2000 (1xEV-DO, Rev. B, 3 X 5.00 67.94 17.87 0.00 150.0 ± 9.6 %  CDMA2000 (1xEV-DO, Rev. B, 3 X 5.00 67.94 17.87 0.00 150.0 ± 9.6 %  CDMA2000 (1xEV-DO, Rev. B, 3 X 5.00 67.94 17.87 0.00 150.0 ± 9.6 %  CDMA2000 (1xEV-DO, Rev. B, 3 X 5.00 67.94 17.87 0.00 150.0 ± 9.6 %  CDMA2000 (1xEV-DO, Rev. B, 3 X 5.00 67.94 17.87 0.00 150.0 ± 9.6 %						16.09		150.0	
Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers   Touriers							0.00	150.0	± 9.6 %
10456- AAB 99pc duty cycle)  Y 6.17 68.10 16.67 150.0  Z 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 %  Y 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 X 3.87 70.16 17.10 0.00 150.0 ± 9.6 %  Y 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 X 5.00 67.94 17.87 0.00 150.0 ± 9.6 %  Y 4.81 68.13 17.56 150.0									
AAB 99pc duty cycle)  Y 6.17 68.10 16.67 150.0  Z 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 %  Y 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 X 3.87 70.16 17.10 0.00 150.0 ± 9.6 %  Y 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 X 5.00 67.94 17.87 0.00 150.0 ± 9.6 %  Y 4.81 68.13 17.56 150.0	40450	IEEE 000 44	_						
Total Color							0.00		± 9.6 %
10457-AAA       UMTS-FDD (DC-HSDPA)       X       3.77       65.25       15.79       0.00       150.0       ± 9.6 %         Y       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)       X       3.87       70.16       17.10       0.00       150.0       ± 9.6 %         Y       3.71       70.34       16.66       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0       150.0	·····								***************************************
AAA	40453	LIMTO FDD /F C 1105 - 4							
10458- AAA   CDMA2000 (1xEV-DO, Rev. B, 2		UNITS-FUD (DC-HSDPA)					0.00		± 9.6 %
10458- AAA     CDMA2000 (1xEV-DO, Rev. B, 2 carriers)     X     3.87     70.16     17.10     0.00     150.0     ± 9.6 %       Y     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)     X     5.00     67.94     17.87     0.00     150.0     ± 9.6 %       Y     4.81     68.13     17.56     150.0									
Y         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)         X         5.00         67.94         17.87         0.00         150.0         ± 9.6 %           Y         4.81         68.13         17.56         150.0							0.00		± 9.6 %
10459-   CDMA2000 (1xEV-DO, Rev. B, 3   X   5.00   67.94   17.87   0.00   150.0   ± 9.6 %				2 74	70.24	16.60		450.0	
10459- AAA									
Y 4.81 68.13 17.56 150.0							0.00		± 9.6 %
				/ Ω1	69.40	17 56		450.0	
			Z	4.96	68.23	17.89		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)	Х	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	<b>-</b>	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	1.0.0.0/
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	-	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		19.0 %
		Y	5.02	66.51	15.98		150.0	
10542-	IEEE 802.11ac WiFi (40MHz, MCS8,	$\frac{1}{x}$	5.07 5.27	66.45 66.51	15.97	0.00	150.0	
AAB	99pc duty cycle)				16.02	0.00	150.0	± 9.6 %
		Y	5.18	66.61	16.04		150.0	
10543-	IEEE 802.11ac WiFi (40MHz, MCS9,	Z	5.22	66.53	16.03		150.0	
AAB	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 802.11ac WiFi (80MHz, MCS0,	Z X	5.30	66.57	16.07		150.0	
AAB	99pc duty cycle)		5.43	66.55	15.94	0.00	150.0	± 9.6 %
		Y	5.37	66.65	15.97		150.0	
10545-	IEEE 802.11ac WiFi (80MHz, MCS1,	Z	5.40	66.56	15.95		150.0	
AAB	99pc duty cycle)	X	5.64	67.00	16.11	0.00	150.0	±9.6%
		Y	5.55	67.08	16.15		150.0	
10546-	IEEE 802 1100 M/SE: /90M !- MOOC	Z	5.60	67.02	16.13		150.0	
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	
10547-	IEEE 900 44 co MUE: (OOM III MOOO	Z	5.46	66.76	16.01		150.0	
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	
10548-	IEEE 000 44 MEE: (00MH   MOOA	Z	5.53	66.81	16.03		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.89	67.94	16.56	0.00	150.0	± 9.6 %
·		Y	5.69	67.68	16.43		150.0	
40550	IFFE 000 dd DAIEL (0014)	Z	5.80	67.83	16.51		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	×	5.53	66.79	16.03	0.00	150.0	±9.6 %
		Y	5.46	66.91	16.08		150.0	
40554	1555 000 44 1855 (0014) 140 05	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 %
		Y	5.44	66,85	16.02		150.0	
40550		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 %
	***************************************	Y	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	
4000		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	
40555		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	
		Ζ	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	
		Ζ	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)	X	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 %
		Υ	4.98	67.43	16.60		150.0	i
		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	
		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 %
		Y	1.27	65.45	15.71		130.0	
		Ż	1.24	65.29	15.60		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	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)	X	2.61	85.52	21.81	0.46	130.0	± 9.6 %
1		Y	2.97	88.51	23.34		130.0	
		Ż	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 %
	par adea aday ayaraj	Y	1.44	71.68	18.74	1	130.0	1

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)	<del>  .</del> _	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 %
<del></del>		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)	X	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)	Z 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. <del>T</del> 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)	<del></del>		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	1000
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	
V		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, dopo daty dyoldy	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, oopo dat, oj aloj	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	WCG7, sope daty cycle)	Y	4.69	67.37	16.67		130.0	
		Z	4.74	67.29	16.67		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.50	67.33	16.69	0.46	130.0	± 9.6 %
AAD	wicso, sope daty cycle)	Y	5.40	67.43	16.72		130.0	
		Ż	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)	<b>─</b>	5.53	67.86	16.92		130.0	
		$\frac{1}{Z}$	5.61	67.87	16.94	ļ	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 %
VVD	Wicoo, Jope daty Gyole)	Y	5.55	67.79	16.82		130.0	
		ż	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 %
770	WOOT, Jopo daty Gyolo)	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 %
,,,,,		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 %
,,,,,,		Y	5.53	67.80	16.94		130.0	]
		<u>.</u>	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 %
ιΔΔΡ								
AAB	(NOCY, Cope daty Gyolo)	Y	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 I - 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 <del>6</del>	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	
							. 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)	^	0.20	00.41	10.11	0.40	100.0	20.070
		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)	X	5.45	66.63	16.34	0.46	130.0	± 9.6 %
		Y	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		130.0	
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	
		Z	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)	Х	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)	X	5.68	66.90	16.36	0.46	130.0	± 9.6 %
		Υ	5.59	66.94	16.37		130.0	ļ
		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	<u> </u>	130.0	1.000
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.18	67.38	16.49	0.46	130.0	± 9.6 %
		Y	6.10	67.42	16.51		130.0	
		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 LANGE L	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





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

**PC Test** 

Certificate No: EX3-7406_May18

#### **CALIBRATION CERTIFICATE**

Object

EX3DV4 - SN:7406

Calibration procedure(s)

QA CAL-01.v9, QA CAL-12.v9, QA CAL-23.v5, QA CAL-25.v6

Calibration procedure for dosimetric E-field probes

Calibration date:

May 22, 2018

06-2/2-5018

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-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-17)	In house check: Oct-18

Name Function Signature

Calibrated by: Jeton Kastrati Laboratory Technician

Approved by: Katja Pokovic Technical Manager

Issued: May 22, 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





S Schweizerischer Kalibrierdienst
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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Glossary:

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

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

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

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

Polarization 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).

Certificate No: EX3-7406_May18 Page 2 of 39

EX3DV4 – SN:7406 May 22, 2018

# Probe EX3DV4

SN:7406

Manufactured:

November 24, 2015

Calibrated: May 22, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

EX3DV4-SN:7406 May 22, 2018

### DASY/EASY - Parameters of Probe: EX3DV4 - SN:7406

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.47	0.43	0.46	± 10.1 %
DCP (mV) ⁸	98.8	100.2	97.1	

#### **Modulation Calibration Parameters**

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc [±] (k=2)
0	CW	Х	0.0	0.0	1.0	0.00	159.0	±3.3 %
		Y	0.0	0.0	1.0		176.8	
		Z	0.0	0.0	1.0		172.1	

Note: For details on UID parameters see Appendix.

#### **Sensor Model Parameters**

	C1	C2	α	T1	T2	T3	T4	T5	T6
	fF	fF	V-1	ms.V ⁻²	ms.V⁻¹	ms	V-2	V-1	
X	40.51	308.1	36.65	8.462	0.498	5.057	0.000	0.453	1.008
Y	20.79	155.9	36.07	8.177	0.281	5.026	0.312	0.202	1.000
Z	39.96	308.6	37.72	7.122	0.556	5.056	0.094	0.485	1.007

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.

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

### DASY/EASY - Parameters of Probe: EX3DV4 - SN:7406

#### 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)
30	55.0	0.75	16.52	16.52	16.52	0.00	1.00	± 13.3 %
750	41.9	0.89	10.09	10.09	10.09	0.48	0.90	± 12.0 %
835	41.5	0.90	9.70	9.70	9.70	0.43	0.91	± 12.0 %
1750	40.1	1.37	8.58	8.58	8,58	0.35	0.80	± 12.0 %
1900	40.0	1.40	8.22	8.22	8.22	0.39	0.84	± 12.0 %
2300	39.5	1.67	7.95	7.95	7.95	0.30	0.84	± 12.0 %
2450	39.2	1.80	7.54	7.54	7.54	0.31	0.87	± 12.0 %
2600	39.0	1.96	7.40	7.40	7.40	0.25	0.95	± 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.

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validity can be extended to  $\pm$  110 MHz.

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.

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:7406

#### 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	9.91	9.91	9.91	0.52	0.80	± 12.0 %
835	55.2	0.97	9.61	9.61	9.61	0.52	0.80	± 12.0 %
1750	53.4	1.49	8.04	8.04	8.04	0.43	0.84	± 12.0 %
1900	53.3	1.52	7.74	7.74	7.74	0.39	0.84	± 12.0 %
2300	52.9	1.81	7.46	7.46	7.46	0.41	0.86	± 12.0 %
2450	52.7	1.95	7.30	7.30	7.30	0.43	0.88	± 12.0 %
2600	52,5	2.16	7.27	7.27	7.27	0.33	0.98	± 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.

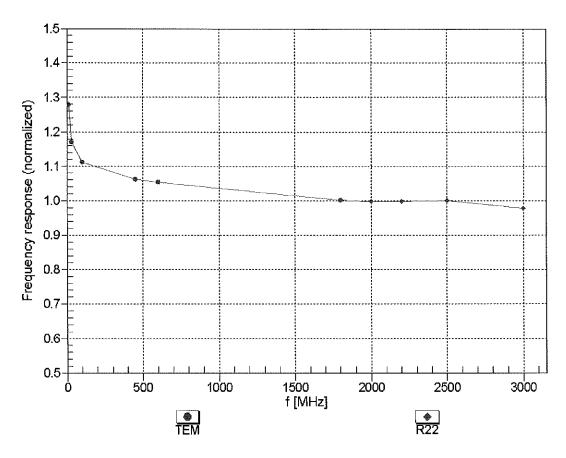
Certificate No: EX3-7406_May18

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 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.

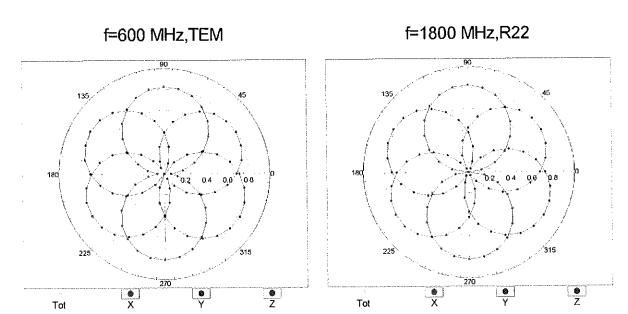
# Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

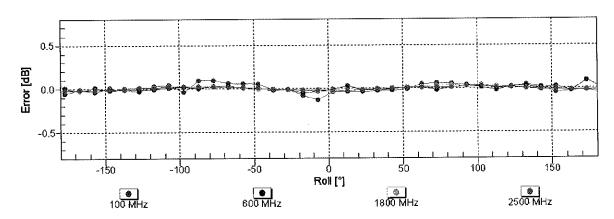


Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

May 22, 2018

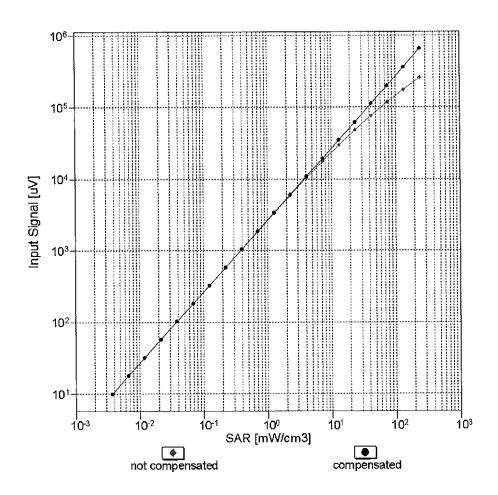
# Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

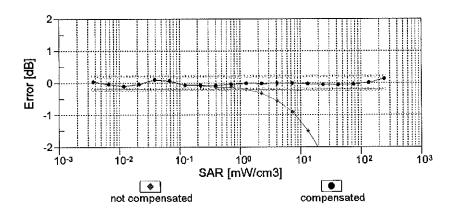




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

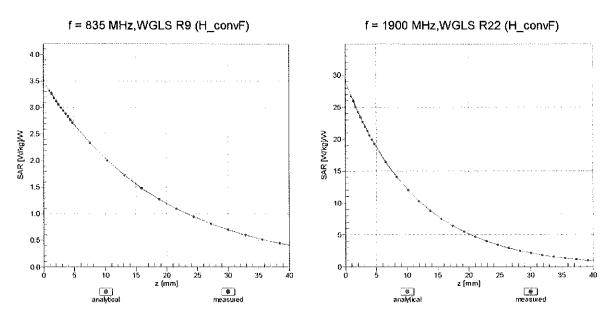
# Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



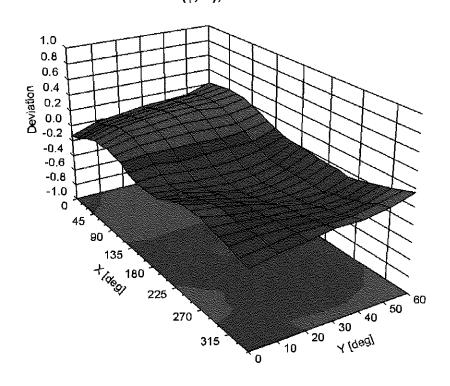


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

### **Conversion Factor Assessment**



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



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7406

### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	2.9
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

**Appendix: Modulation Calibration Parameters** 

UID	IX: Modulation Calibration Parar 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	159.0	± 3.3 %
		Υ	0.00	0.00	1.00		176.8	
		Z	0.00	0.00	1.00		172.1	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	Х	2.08	64.96	9.67	10.00	20.0	±9.6 %
		Y	1.53	62.37	7.61		20.0	
40044	LIMTO FDD (MODIAN)	Z	1.91	63.93	9.02		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	0,84	64.72	13.20	0.00	150.0	± 9.6 %
		Y	2.29	84.03	21.49		150.0	
40040	LEEE OOO AAL MEET O A OUL ADOOD A	Z	0.87	65.77	13.83	0.44	150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	×	1.07	62.64	14.17	0.41	150.0	± 9.6 %
		Υ	1.16	66.58	16.90		150.0	
10010		Z	1.05	62.95	14.54		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	×	4.71	66.44	16.84	1.46	150.0	± 9.6 %
		Υ	4.37	67.68	17.36		150.0	
10001	COLLEGE (TRACE OF COLOR)	Z	4.70	66.50	16.96		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	100.00	111.67	26.02	9.39	50.0	± 9.6 %
		Y	100.00	105.88	22.91		50.0	
40000	ODDO EDD (TDMA OMOL THE)	Z	100.00	110.56	25.48		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100,00	111.18	25.86	9.57	50.0	± 9.6 %
		Y	100.00	104.93	22.52		50.0	
10024-	CDDS EDD /TDMA_CMS/_TNL0.4)	Z X	100.00	110.10	25.33	0.50	50.0	100%
DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)		100.00	110.92	24.51	6.56	60.0	± 9.6 %
		<u>Y</u>	100.00	104.17	21.07		60.0	
40005	EDGE EDD (TDM/ ODG)( THO)	Z	100.00	109.40	23.71	40.57	60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	3.97	69.08	25.47	12.57	50.0	± 9.6 %
		Y	6.34	86.82	35.22		50.0	
10026-	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Z	3.66	66.66	24.05	0.50	50.0 60.0	± 9.6 %
DAC_	EDGE-FDD (TDIVIA, 6FSK, TN 0-1)		6.82	85.96	30,56	9.56		19.0%
		Y	6.90	89.59	32.84		60.0	ļ
10027-	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	Z X	6.52 100.00	85.14 111.11	30.29 23.76	4.80	60.0 80.0	± 9.6 %
DAC		Y	100.00	105.05	20.71		80.0	
		Z	100.00	108.99	22.68		80.0 80.0	
10028-	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	111.34	23.14	3.55	100.0	± 9.6 %
DAC		Y	100.00	107.81	21.20	<b> </b>	100.0	<del> </del>
		Z	100.00	107.51	21.58		100.0	<del> </del>
10029-	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	4.51	76.74	25.54	7.80	80.0	± 9.6 %
DAC		Y	4.44	78.91	27.21		80.0	
		Z	4.44	76.19	25.41		80.0	<del> </del>
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	108.75	23.04	5.30	70.0	± 9.6 %
W/ / /		Y	100.00	100.28	18.89	<b> </b>	70.0	
		Z	100.00	106.90	22.09		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	99.67	17.08	1.88	100.0	± 9.6 %
		Y	50.08	84.31	11.26		100.0	
		Z	0.35	62.17	5.86		100.0	

10032-	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	28.56	85.45	12.04	1.17	100.0	± 9.6 %
CAA		ļ.,.						
		Y	0.15	60.00	3.24		100.0	
10033-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	Z	0.16 8.12	60.00 89.17	3.46 23.19	5.30	70.0	± 9.6 %
CAA	DH1)		0.12	03.17	20.19	3.30	70.0	1 3.0 %
		Υ	5.53	78.60	16.12		70.0	
		Z	8.77	90.41	23.45		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	1.89	71.18	14.91	1.88	100.0	± 9.6 %
O/A	DIIO)	Y	0.70	61.17	6.54		100.0	
		Ż	1.94	71.91	15.07		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Х	1.33	67.78	13.07	1.17	100.0	± 9.6 %
		Υ	0.50	60.00	5.45		100.0	
40000		Z	1.34	68.27	13.15		100.0	
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	11.58	94.76	24.99	5.30	70.0	± 9.6 %
		Y	7.92	82.80	17.55		70.0	
10037-	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Z X	13.45 1.76	97.05 70.41	25.53 14.56	1.88	70.0 100.0	± 9.6 %
CAA	in the state of th					1.00		I 9.0 70
		Y	0.67 1.78	60.87 71.00	6.38		100.0	
10038-	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	1.33	68.01	14.68 13.29	1.17	100.0	± 9.6 %
CAA		***************************************				1.17		1.9.0 /6
		Y Z	0.50 1.35	60.00	5.57		100.0	
10039-	CDMA2000 (1xRTT, RC1)	X	1.09	68.60 65.82	13.42 11.60	0.00	100.0 150.0	± 9.6 %
CAB	35.11. E333 (13.11.11.13.1)	l			11.00	0.00	130.0	19.0 %
		Υ	0.33	60.00	4.54		150.0	
10042-	IC EA LIC 420 EDD /TDAAA/EDAA DUA	Z	1.10	66.30	11.64		150.0	
CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	100.00	107.41	23.26	7.78	50.0	±9.6 %
		Y Z	57.23 100.00	96.27	18.96		50.0	1
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.03	105.97 118.97	22.54 9.94	0.00	50.0 150.0	± 9.6 %
		Y	0.05	129.23	11.15		150.0	
		Z	0.09	122.00	10.41		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	21.95	89.61	21.44	13.80	25.0	± 9.6 %
		Y	5.10	70.47	13.72		25.0	
10049-	DECT (TDD, TDMA/FDM, GFSK, Double	Z	12.15	81.59	18.87	40.70	25.0	
CAA	Slot, 12)		43.64	100.12	23.34	10.79	40.0	± 9.6 %
		Y Z	5.90 17.31	74.58 88.39	14.22 19.94		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	25.07	100.73	26.75	9.03	40.0 50.0	± 9.6 %
		Υ	12.75	86.31	19.79		50.0	
		Z	22.08	98.32	25.86		50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	Х	3.64	72.69	22.94	6.55	100.0	± 9.6 %
		Y	3.58	74.51	24.46		100.0	
10059~ CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	Z X	3.51 1.08	72.30 63.42	22.90 14.64	0.61	100.0 110.0	± 9.6 %
		Υ	1.21	68.14	17.70		110.0	
		Ζ	1.06	63.79	15.05		110.0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	Х	2.61	84.17	21.25	1.30	110.0	± 9.6 %
		Υ	100.00	147.02	38.69		110.0	
		Z	5.12	95.07	24.77		110.0	

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Х	1.89	74.28	19.62	2.04	110.0	± 9.6 %
CAD	Mbps)	T	6.72	99.45	28.86		1400	
****		Z	1.98	76.00	20.54		110.0 110.0	
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.50	66,38	16.23	0.49	100.0	± 9.6 %
		Y	4.17	67.64	16.77		100.0	
		Z	4.49	66.45	16.37		100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	Х	4.52	66.46	16.33	0.72	100.0	± 9.6 %
		Υ	4.19	67.78	16.90		100.0	
		Z	4.51	66.54	16.46		100.0	
10064- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	Х	4.78	66.72	16.56	0.86	100.0	± 9.6 %
		Υ	4.37	67.91	17.05		100.0	
40005		Z	4.77	66.78	16.69		100.0	
10065- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	Х	4.65	66.59	16.65	1.21	100.0	± 9.6 %
·····		Y	4.25	67.66	17.08		100.0	
40000	JEEE 000 44-5 MEE 5 011 10-11	Z	4.64	66.65	16.78		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	Х	4.67	66.60	16.82	1.46	100.0	± 9.6 %
		Y	4.25	67.56	17.16		100.0	
40007		Z	4.65	66.66	16.94		100.0	
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	4.96	66.87	17.31	2.04	100.0	± 9.6 %
		Y	4.45	67.61	17.49		100.0	
40000	ICET OOG 44 % IANE A GOOD (A CONTRACTOR)	Z	4.95	66.92	17.43		100.0	
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	Х	5.00	66,83	17.50	2.55	100.0	± 9.6 %
		Υ	4.58	67.92	17.91		100.0	
10000		Z	4.98	66.87	17.60		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.07	66.86	17.70	2.67	100.0	± 9.6 %
		Y	4.58	67.73	17.95		100.0	
40074	IEEE 000 dd MEE' 0 d OU	Z	5.05	66.90	17.80		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.80	66.52	17.15	1.99	100.0	± 9.6 %
		Y	4.47	67.76	17.67		100.0	
100=0		Z	4.79	66.57	17.27		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.77	66.78	17.34	2.30	100.0	± 9.6 %
		Y	4.40	67.85	17.80		100.0	·····
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	Z X	4.75 4.82	66.83 66.94	17.46 17.68	2.83	100.0	± 9.6 %
0710	(BOCC/OT DIM, TO MIDPS)	Y	4.48	68.17	18.22		100.0	
		Z	4.81	66.99	17.79		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.82	66.85	17.82	3.30	100.0	± 9.6 %
		Υ	4.56	68.39	18.51		100.0	
****		Z	4.80	66.90	17.93		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	Х	4.84	66.90	18.10	3.82	90.0	± 9.6 %
		Υ	4.62	68.53	18.81		90.0	
		Z	4.82	66.93	18.20		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	Х	4.87	66.75	18.26	4.15	90.0	± 9.6 %
		Υ	4.66	68.36	18.96		90.0	
		Z	4.85	66.78	18.35		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	Х	4.90	66.83	18.36	4.30	90.0	± 9.6 %
		Υ	4.70	68.52	19.13		90.0	
		Z	4.88	66.86	18.46		90.0	

10081- CAB	CDMA2000 (1xRTT, RC3)	X	0.57	62.19	9.13	0.00	150.0	± 9.6 %
***************************************		Υ	27.42	131.24	12.30		150.0	
***************************************		Z	0.55	62.22	8.90		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	Х	5.02	67.53	6.38	4.77	80.0	± 9.6 %
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Υ	1.48	62.15	3.83		80.0	
		Z	0.60	60.00	3.69		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	110.99	24.56	6.56	60.0	± 9.6 %
		Y	100.00	104.24 109.50	21.12		60.0	
10097-	UMTS-FDD (HSDPA)	X	100.00 1.62	66.19	23.78 14.37	0.00	60.0 150.0	± 9.6 %
CAB	UNITS-FDD (FISDFA)	Y	2.77	77.65	18.43	0.00	150.0	1 9.0 76
		Z	1.66	66.92	14.80		150.0	
10098- CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.59	66.12	14.32	0.00	150.0	± 9.6 %
		Y	2.75	77.82	18.53		150.0	***************************************
		Z	1.63	66.85	14.76		150.0	
10099- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	Х	6.86	86.10	30.61	9.56	60.0	± 9.6 %
		Υ	6.96	89.80	32.91		60.0	
		Z	6.57	85.27	30.34		60.0	
10100- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	2.79	68.67	15.73	0.00	150.0	±9.6%
		Υ	3.01	72.73	18.31		150.0	
		Z	2.85	69.21	16.10		150.0	
10101- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	Х	3.03	66.63	15.32	0.00	150.0	± 9.6 %
		Y	2.95	68.63	16.67		150.0	
		Z	3.05	66.87	15.55		150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	×	3.14	66.68	15.45	0.00	150.0	± 9.6 %
		Y	3.05	68.65	16.75		150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	Z X	3.16 5.48	66.90 74.24	15.67 19.94	3.98	150.0 65.0	± 9.6 %
O, (D	inite, with	Y	5.83	78.05	21.80		65.0	
		Ż	5.16	73.46	19.72		65.0	
10104- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	5,43	71.87	19.65	3.98	65.0	±9.6%
		Y	5.15	73.23	20.29		65.0	ļ
		Z	5.30	71.66	19.65		65.0	
10105- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	5.28	71.13	19.61	3,98	65.0	±9.6%
		Y	5.09	72.76	20.36		65.0	
10108-	LTE-FDD (SC-FDMA, 100% RB, 10	Z	5.27 2.42	71.32 67.95	19.81 15.52	0.00	65.0 150.0	± 9.6 %
CAE	MHz, QPSK)							
		Y	2.65	73.21	18.48	ļ	150.0	
40400	LTE EDD (OO ED) (A 4000 ED 40	Z	2.47	68.55	15.91	~ ~ ~	150.0	1000
10109- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.67	66.43	15.11	0.00	150.0	± 9.6 %
		Y	2.65	69.54	16.65	1	150.0	_
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.69 1.92	66.74 66.97	15.37 14.92	0.00	150.0	± 9.6 %
	- Sity	Y	2.27	74.05	18.03		150.0	
		Z	1.96	67.64	15.34	1	150.0	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.36	67.07	15.14	0.00	150.0	± 9.6 %
		Y	2.72	73.04	17.01	·	150.0	-
	***************************************	Z	2.39	67.59	15.47	1	150.0	<u> </u>

10112-	LTE-FDD (SC-FDMA, 100% RB, 10	X	2.80	66.52	15.22	0.00	150.0	± 9.6 %
CAE	MHz, 64-QAM)							_ 510 /0
····		Y	2.78	69.65	16.71		150.0	
40440	LTE EDD (OO EDMA 4000) ED - LUI	Z	2.82	66.81	15.47		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	×	2.51	67.31	15.33	0.00	150.0	± 9.6 %
		Y	2.80	72.79	16.92		150.0	·····
10111	LEEE 000 44 - OFF CO. C. L. 40 C.	Z	2.54	67.82	15.65		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	4.96	66.85	16.19	0.00	150.0	± 9.6 %
		Y	4.63	67.53	16.79		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Z X	4.96 5.22	66.92 66.93	16.33 16.24	0.00	150.0 150.0	± 9.6 %
	10 32 111)	Υ	4.88	67.74	16.83		150.0	
	A A A A A A A A A A A A A A A A A A A	Ż	5.22	67.01	16.38		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.05	67.03	16.21	0.00	150.0	± 9.6 %
		Υ	4.70	67.78	16.83		150.0	
		Z	5.05	67.12	16.36		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	Х	4.94	66.75	16.16	0.00	150.0	± 9.6 %
		Υ	4.61	67.43	16.76		150.0	
40465		Z	4.95	66.84	16.31		150.0	*****
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.30	67.13	16.35	0.00	150.0	± 9.6 %
		Υ	4.86	67.63	16.79		150.0	
40440	IFFE COD 44 - (UT M) - 1 405 M) - O4	Z	5.31	67.24	16.51		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.04	67.00	16.20	0.00	150.0	± 9.6 %
		Y	4.69	67.70	16.79		150.0	
40440	LTC CDD (OC CDMA 4000) DD 45	Z	5.05	67.10	16.36	0.00	150.0	. 0.00
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.17	66.68	15.36	0.00	150.0	± 9.6 %
		Y Z	3.04	68.72	16.64		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.18 3.30	66.91 66.85	15.58 15.57	0.00	150.0 150.0	± 9.6 %
		Y	3.18	69.04	16.88		150.0	
		Z	3.31	67.07	15.79		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.67	66.60	14.19	0.00	150.0	± 9.6 %
		Υ	1.87	72.33	15.40		150.0	
		Z	1.70	67.34	14.60		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.12	67.16	14.28	0.00	150.0	± 9.6 %
		Y	1.56	66.54	11.72		150.0	
40321		Z	2.16	67.74	14.58		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	1.92	65.03	12.70	0.00	150.0	± 9.6 %
		Y	1.13	62.33	8.88		150.0	
10145-	LITE EDD (SC EDMA 4000/ DD 4.4	Z X	1.92	65.29	12.82	0.00	150.0	1060/
CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)		0.84	61.53	8.53	0.00	150.0	± 9.6 %
		Y Z	0.42 0.80	60.00 61.27	3.23 8.17		150.0 150.0	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	1.25	62.09	8.49	0.00	150.0	± 9.6 %
∪ / 11	WHILE, TO WORK WITH	Y	15.63	136.67	2.52		150.0	
		Z	1.18	61.53	7.92		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	1.33	62.76	8.97	0.00	150.0	± 9.6 %
		Y	175.53	59.57	0.91		150.0	
		ż	1.25	62.05	8.31		150.0	

10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	2.68	66.49	15.16	0.00	150.0	± 9.6 %
		Y	2.67	69.66	16.73	<u> </u>	150.0	
V		Z	2.70	66.80	15.42		150.0	
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	2.81	66.57	15.26	0.00	150.0	± 9.6 %
		Υ	2.79	69.76	16.78		150.0	
		Z	2.82	66.87	15.51		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	5.57	76.26	20.83	3.98	65.0	± 9.6 %
		Υ	6,54	82.28	23.19		65.0	
		Z	5.47	76.32	20.97		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	4.95	71.73	19.22	3.98	65.0	± 9.6 %
		Υ	4.69	73.27	19.41		65.0	
101		Z	4.83	71.56	19.23		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	5.31	72.79	20.07	3.98	65.0	± 9.6 %
···		Υ	5.16	74.91	20.53		65.0	
4045		Z	5.19	72.65	20.11		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	1.96	67.30	15.14	0.00	150.0	± 9.6 %
		Y	2.37	74.79	18.39		150.0	
40455	LTE EDD (OO EDW) 500' TO (OO EDW)	Z	2.00	68.02	15.59		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	2.36	67.10	15.16	0.00	150.0	± 9.6 %
		Y	2.75	73.23	17.11		150.0	
40450	LTE FDD (OO FDIM FOO FD	Z	2.39	67.62	15.50		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1,48	66.22	13.61	0.00	150.0	± 9.6 %
		Υ	1.17	67.13	11.92		150.0	
40457		Z	1.51	66.95	13.98		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	1.71	65.06	12.34	0.00	150.0	± 9.6 %
		Υ	0.82	60.69	7.08		150.0	
		Z	1.71	65.33	12.43		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.51	67.38	15.38	0.00	150.0	± 9.6 %
		Υ	2.84	73.04	17.05		150.0	
		Z	2.55	67.90	15.71		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	1.79	65,38	12.55	0.00	150.0	± 9.6 %
		Y	0.84	60.64	7.05		150.0	
		Z	1.79	65.65	12.65		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2,49	67.50	15.47	0.00	150,0	± 9.6 %
		Υ	2.56	71.83	17.66		150.0	
10101	LITE EDD (OO ED) 15 - 15 - 15 - 15 - 15 - 15 - 15 - 15	Z	2.54	68.10	15.86		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	2.70	66.49	15.13	0,00	150.0	± 9.6 %
		Y	2.68	69.90	16.49		150.0	
10100	LTE EDD (OO EDMA SOO) OD (ELIII)	Z	2.71	66.81	15.39		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	2.81	66,70	15.28	0.00	150.0	± 9.6 %
		Y	2.80	70.26	16.67		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz,	X	2.82 3.24	67.03 68.52	15.53 18.59	3.01	150.0 150.0	± 9.6 %
UAE	QPSK)	 	0.40	07.40	40.00		4=	
		Y	2.46	67.16	18.36		150.0	
10167-	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz,	Z	3.27	68.87	18.81		150.0	
CAE	16-QAM)	X	3.78	70.80	18.80	3.01	150.0	± 9.6 %
		Y	2.65	69.44	18.59		150.0	
		Z	3.87	71.35	19.05		150.0	

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	4.22	73.24	20.28	3.01	150.0	± 9.6 %
		Υ	2.98	72.19	20.36		150.0	
		Z	4.38	74.05	20.65		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	2.60	66.96	17.88	3.01	150.0	± 9.6 %
		Υ	2.17	66.08	17.74		150.0	
		Z	2.64	67.39	18.13		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	3.25	71.58	19.84	3.01	150.0	± 9.6 %
		Υ	2.55	70.69	19.84		150.0	
		Z	3.42	72.54	20.26		150.0	
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	2.73	68.00	17.17	3.01	150.0	± 9.6 %
		Υ	2.14	67.11	17.01		150.0	
		Z	2.83	68.55	17.41		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	4.83	82.25	25.65	6.02	65.0	± 9.6 %
***		Υ	3.25	78.99	24.66		65.0	
		Z	4.17	79.62	24.62		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	7.80	88.67	26.11	6.02	65.0	± 9.6 %
		Υ	4.97	85.33	24.86		65.0	
		Z	8.07	89.25	26.21		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	6.67	84,99	24.27	6.02	65.0	± 9.6 %
		Υ	3.85	80.27	22.34		65.0	
		Z	5.89	82.90	23.46		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	2.57	66.69	17.64	3.01	150.0	± 9.6 %
		Υ	2.15	65.85	17.52		150.0	
		Z	2.61	67.10	17.88		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	3.26	71.60	19.85	3.01	150.0	± 9.6 %
		Υ	2.56	70.71	19.85		150.0	
		Z	3.43	72.56	20.27		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	2.59	66.81	17.73	3.01	150.0	± 9.6 %
		Y	2.16	65.91	17.56		150.0	
		Z	2.63	67.23	17.97		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	3.23	71.44	19.75	3.01	150.0	± 9.6 %
		Υ	2.55	70.64	19.81	ļ	150.0	
		Z	3.40	72.38	20.17		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	2.96	69.67	18.37	3.01	150.0	± 9.6 %
		Υ	2.32	68.83	18.31		150.0	
		Z	3.09	70.38	18.68		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	Х	2.73	67.95	17.14	3.01	150.0	± 9.6 %
		Υ	2.14	67.11	17.00		150.0	
		Z	2.82	68.50	17.37		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.59	66.80	17.72	3.01	150.0	± 9.6 %
		Y	2.15	65.90	17.56		150.0	
		Z	2.63	67.21	17.96		150.0	ļ
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.23	71.42	19.74	3.01	150.0	± 9.6 %
		Υ	2.55	70.62	19.79		150.0	
		Z	3.40	72.36	20.16		150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	2.73	67.93	17.12	3.01	150.0	± 9.6 %
	•	Υ	2.14	67.09	16.99		150.0	
		Z	2.82	68.48	17.36	1	150.0	T

10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.60	66.84	17.74	3.01	150.0	± 9.6 %
		Υ	2.16	65.93	17.57		150.0	
,		Ż	2.64	67.25	17.98		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	3.24	71.49	19.78	3.01	150.0	±9.6 %
		Y	2.56	70.68	19.83		150.0	
		Z	3.41	72.43	20.20		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	2.74	67.99	17.16	3.01	150.0	± 9.6 %
		Υ	2.14	67.14	17.02		150.0	
		Z	2.83	68.54	17.39	7 17 18 18 18 18 18 18 18 18 18 18 18 18 18	150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	×	2.60	66.90	17.81	3.01	150.0	± 9.6 %
		Υ	2.17	66.04	17.68	····	150.0	
		Z	2.65	67.32	18.06		150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	3.33	72.04	20.13	3.01	150.0	± 9.6 %
		Υ	2.61	71.14	20.14		150.0	
		Z	3.51	73.05	20.58		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	2.79	68.33	17.41	3.01	150.0	± 9.6 %
·		Υ	2.18	67.45	17.26		150.0	
		Z	2.89	68.91	17.66		150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	Х	4.35	66.32	15.83	0.00	150.0	± 9.6 %
		Υ	4.08	67.94	16.57		150.0	
		Z	4.35	66.41	15.97		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.50	66.59	15.97	0.00	150.0	± 9.6 %
		Υ	4.17	67.97	16.67		150.0	
		Z	4.50	66.68	16.11		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	Х	4.54	66.63	15.99	0.00	150.0	± 9.6 %
		Υ	4.18	67.89	16.64		150.0	
		Z	4.54	66.71	16.13		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.34	66.34	15.84	0.00	150.0	± 9.6 %
		Y	4.05	67.87	16.52		150.0	
		Z	4.34	66.43	15.98		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	Х	4.52	66.61	15.98	0.00	150.0	± 9.6 %
		Υ	4.17	67.97	16.68		150.0	
		Z	4.51	66.70	16.12		150.0	
10198- CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.54	66.63	16.00	0.00	150.0	± 9.6 %
		Y	4.17	67.88	16.63		150.0	
40040	IEEE 000 44 - (UTA)	Z	4.53	66.72	16.14		150.0	
10219- CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.29	66.36	15.79	0.00	150.0	± 9.6 %
		Υ	4.02	68.01	16.56		150.0	
40000	1555 000 44° (1554)	Z	4.29	66.45	15.94		150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.51	66.57	15.97	0.00	150.0	± 9.6 %
		Υ	4.17	67.92	16.66		150.0	
10221-	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-	Z X	4.50 4.55	66.66 66.57	16.11 15.99	0.00	150.0 150.0	± 9.6 %
CAC	QAM)	 , 	4.40	07.07	40.04			
		Y	4.19	67.87	16.64		150.0	
10222-	IEEE 802.11n (HT Mixed, 15 Mbps,	Z	4.55	66.66	16.13		150.0	
CAC	BPSK)		4.91	66.74	16.14	0.00	150.0	± 9.6 %
		Y	4.61	67.46	16.76		150.0	
		Z	4.92	66.81	16.28		150.0	

10223-	IEEE 802.11n (HT Mixed, 90 Mbps, 16-	X	5,20	66.98	16.29	0.00	150.0	± 9.6 %
CAC	QAM)	^	0,20	00,50	10.23	0.00	100.0	2 9.0 %
		Υ	4.78	67.52	16.75		150.0	
		Z	5.21	67.07	16.44		150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	Х	4.95	66.84	16.12	0.00	150.0	± 9.6 %
		Υ	4.64	67.65	16.77		150.0	
		Z	4.95	66.92	16.26		150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	2.60	65.43	14.52	0.00	150.0	±9.6 %
****		Υ	2.31	67.01	13.92		150.0	
40000	LTE TOD (OO FOLM 4 DD 4 4 4 4	Z	2.60	65.66	14.70		150.0	2.2.0/
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	8.30	89.91	26.63	6.02	65.0	± 9.6 %
		Y	5.39	86.92	25.51		65.0	
10227-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z X	8.64 8.42	90.59 88.94	26.77 25.65	6.02	65.0 65.0	± 9.6 %
CAA	64-QAM)	Y	4.82	84.03	23.72	0.02		£ 9.0 76
		Z	8.66	89.39	25.69		65.0 65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	5.33	84.56	26.61	6.02	65.0	± 9.6 %
		Υ	3.51	80.74	25.42		65.0	
		Z	5.37	85.04	26.79		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	7.86	88.78	26.15	6.02	65.0	± 9.6 %
		Υ	5,00	85.42	24.89		65.0	
		Z	8.13	89.36	26.26		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	7.90	87.76	25.18	6.02	65.0	± 9.6 %
		Υ	4.45	82.60	23.15		65.0	
		Z	8.08	88.11	25.19		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	×	5.13	83.76	26.22	6.02	65.0	± 9.6 %
		Υ	3.36	79.77	24.94		65.0	
10000	LITE TOO CO COMMANDO COMMANDO	Z	5.16	84.16	26.37		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	7.85	88.76	26.15	6.02	65.0	± 9.6 %
		Y	4.99	85.41	24.89	<u> </u>	65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	8.11 7.87	89.34 87.73	26.25 25.17	6.02	65.0 65.0	± 9.6 %
		Υ	4,44	82.56	23.14		65.0	
		Ζ	8.06	88.08	25.18		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	4.98	83.08	25.85	6.02	65.0	± 9.6 %
		Υ	3.27	79.15	24.57		65.0	
10005	LITE TOP (OO FELL)	Z	5.00	83.43	25.98		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	7.85	88.79	26.16	6.02	65.0	± 9.6 %
		Y	5.00	85.44	24.91		65.0	
10000	LTE TOD (SC EDMA 4 DB 40 MU-	Z	8.12	89.37	26.27	6.00	65.0	1060/
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	7.96	87.89	25.21	6.02	65.0	± 9.6 %
		Y	4.49 8.15	82.70 88.24	23.18 25.23		65.0 65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	5.13	83.78	26.24	6.02	65.0	± 9.6 %
3,12	- Cory	Y	3.35	79.76	24.95		65.0	
		Z	5.16	84.20	26.39		65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	7.83	88.73	26.14	6.02	65.0	± 9.6 %
		Υ	4.99	85.40	24.89		65.0	
		Z	8.09	89.31	26.24		65.0	

10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	7.84	87.68	25.15	6.02	65.0	± 9.6 %
***************************************		Y	4.43	82.52	23.13		65.0	
	······································	Ż	8.03	88.04	25.17		65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	5.12	83.75	26.22	6.02	65.0	± 9.6 %
***************************************		Y	3.35	79.78	24.95		65.0	·
		Z	5.14	84.16	26.38		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	6.74	78.78	24.52	6,98	65.0	± 9.6 %
		Y	5.69	81.27	25.87		65.0	
***************************************		Z	6.76	79.00	24.59		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	6.37	77.64	23.95	6.98	65.0	± 9.6 %
		Y	5.22	79.69	25,18		65.0	
.,,,		Z	6.58	78.48	24.29		65.0	1
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	5.29	74.44	23.43	6.98	65.0	± 9.6 %
		Y	4.45	76.12	24.64		65.0	
		Z	4.96	73.24	22.88		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	4.30	71.80	16.21	3.98	65.0	± 9.6 %
-		Y	1.55	60.92	7.03		65.0	
		Z	4.03	70.91	15.66		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	4.18	71.11	15.84	3.98	65.0	± 9.6 %
		Y	1.55	60.79	6.91		65.0	
		Ζ	3.92	70.24	15.30		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	3.86	73.77	17.33	3.98	65.0	± 9.6 %
		Y	1.55	63.11	9.15		65.0	
		Z	3.72	73.55	17.17		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	3.97	70.99	16.82	3.98	65,0	± 9.6 %
		Υ	2.28	64.64	10.82	****	65.0	
		Z	3.84	70.75	16.69		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	3.96	70.43	16.55	3.98	65.0	± 9.6 %
		Υ	2.25	64.13	10.55		65.0	
		Z	3.83	70.16	16.40		65,0	Y
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	5.06	78.16	20.28	3.98	65.0	± 9.6 %
		Υ	3.58	73.72	16.05		65.0	
		Z	5.04	78.50	20.42		65.0	<u> </u>
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	4.92	73.99	20.11	3.98	65.0	± 9.6 %
		Υ	4.91	76.06	19.61		65.0	
		Ζ	4.82	73.98	20.18		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	4.70	71.93	18.79	3.98	65.0	± 9.6 %
		Υ	4.06	71.69	17.17		65.0	
		Ζ	4.58	71.78	18.78		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	5.51	78.57	21.66	3.98	65.0	± 9.6 %
		Υ	7.63	86.68	23.81		65.0	
10253-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	X	5.47 4.88	78.89 71.33	21.88 18.98	3.98	65.0 65,0	± 9.6 %
CAD	16-QAM)							<u></u>
		Υ	4.55	72.63	18.75		65.0	
		Ζ	4.76	71.16	18.98		65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	5.20	72.27	19.72	3.98	65.0	± 9.6 %
CAD	01 30 (11)							
CAD	0 1 30 HT	Υ	4.94	73.95	19.64	· · · · · · · · · · · · · · · · · · ·	65.0	***************************************

10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	5.31	75,57	20.73	3.98	65.0	± 9.6 %
		Y	6.09	81.09	22.63		65.0	
		Z	5.22	75.61	20.85		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	3.08	67.09	12.82	3.98	65.0	± 9.6 %
		Y	1.10	59.01	4.61		65.0	
		Z	2,85	66.14	12.16		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	3.00	66.43	12.39	3.98	65.0	± 9.6 %
		Υ	1.10	58,89	4.44		65.0	
		Z	2.79	65.56	11.75		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	2.70	68.34	13.85	3.98	65.0	± 9.6 %
	1444	Y	1.08	60.00	5.96		65.0	
10050	LTE TOO (OO EDIM 1000) OR ON	Z	2.52	67.66	13.41		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	4.36	72.23	18.07	3.98	65.0	± 9.6 %
		Υ	3.05	68.29	13.76		65.0	
10000		Z	4.25	72.11	18.03		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	4.39	71.97	17.95	3.98	65.0	± 9.6 %
		Y	3.03	67.89	13.54		65.0	
10001	LEE TOP (OR EDIA)	Z	4.27	71.82	17.89		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	5.00	77.54	20.53	3.98	65.0	± 9.6 %
		Y	4.86	78.27	18.84		65.0	
10000	LTE TDD (00 FD) (4 100)	Z	4.96	77.83	20.69		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	4.91	73.93	20.06	3.98	65.0	± 9.6 %
		Υ	4.87	75.90	19.51		65.0	
		Z	4.80	73.90	20.13		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	4.69	71.90	18.78	3.98	65.0	± 9.6 %
		Υ	4.05	71.68	17.17		65.0	
		Z	4.57	71.76	18.77		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Х	5.45	78.36	21.55	3.98	65.0	± 9.6 %
		Y	7.43	86.19	23.60		65.0	
		Z	5.41	78.66	21.76		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	4.95	71.73	19.22	3.98	65.0	± 9.6 %
		Y	4.69	73.28	19.42		65.0	
		Z	4.83	71.56	19.24		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	×	5.30	72.77	20.06	3.98	65.0	± 9.6 %
		Υ	5,16	74.89	20.52		65.0	
4000=	1	Z	5.18	72.63	20.09		65.0	1000
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	5.56	76.21	20.81	3.98	65.0	± 9.6 %
		Y	6.50	82.16	23.14		65.0	
		Z	5.46	76.27	20.95		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	5.60	71.84	19.73	3.98	65.0	± 9.6 %
		Y	5.34	73.47	20.38		65.0	
		Z	5.47	71.64	19.74		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	5.61	71.49	19.61	3.98	65.0	± 9.6 %
		Υ	5.38	73.21	20.25		65.0	
		Z	5.48	71.28	19.61		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	5.61	73.88	19.99	3.98	65.0	± 9.6 %
		Υ	5.96	77.92	21.88		65.0	
		Ζ	5.49	73.78	20.05		65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	Х	2.40	65.75	14.40	0.00	150.0	± 9.6 %
		Y	2.28	68.52	14.52		150.0	
		Z	2.41	66.07	14.63		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.37	65.89	14.00	0.00	150.0	± 9.6 %
		Υ	2.24	77.18	18.60	l	150.0	
		Z	1.41	66.69	14.48		150.0	
10277- CAA	PHS (QPSK)	Х	1.83	60.56	6.14	9.03	50.0	± 9.6 %
		Y	1.18	58.25	3.31		50.0	
		Z	1.78	60.31	5.89		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	3.52	68.49	13.06	9.03	50.0	± 9.6 %
		Y	1,90	61.19	6.81		50.0	
40070	DIIO (ODDIK BIM OCAMIL D. II (CO.OO)	Z	3.28	67.42	12.39		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	3.63	68.79	13.26	9.03	50.0	±9.6%
		Y	1.93	61.26	6.89		50.0	
10200	CDMA2000 DOL COSS 5 H.D.	Z	3.38	67.71	12.59		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	0.93	64.00	10.40	0.00	150.0	± 9.6 %
		Y	0.33	60.00	4.23		150.0	
10291-	ODMAROOD DOD OOSS S. II D. I	Z	0.92	64.13	10.27		150.0	
AAB	CDMA2000, RC3, SO55, Full Rate	X	0.56	62.08	9.05	0.00	150.0	± 9.6 %
		Y	0.25	60.00	3.73		150.0	
10000	CDMA2000 DOS COSO E-41 D 1	Z	0.54	62.09	8.81		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	×	0.64	64.04	10.45	0.00	150.0	± 9.6 %
		Υ	0.23	60.00	3.99		150.0	
10000		Z	0.63	64.48	10.42		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	Х	0.84	67.30	12.52	0.00	150.0	± 9.6 %
		Y	0.24	60.00	4.44		150.0	
1000=		Z	0.95	69.16	13.11		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	×	11.34	87.79	23.91	9.03	50.0	±9.6 %
		Υ	100.00	106.64	24.70		50.0	
		Z	13.04	89.56	24.26		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.43	68.04	15.58	0.00	150.0	± 9.6 %
		Y	2.68	73.41	18.60		150.0	
40000	LTE EDD (OC ED) LA SON CO.	<u>Z</u>	2.48	68.65	15.99		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.13	64.13	11.23	0.00	150.0	± 9.6 %
		Y	0.47	60.00	5.40		150.0	
10299-	LITE EDD (SO EDMA EOS) DD CAN	Z	1.12	64.36	11.24		150.0	
AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	1.79	65.44	11.45	0.00	150.0	± 9.6 %
		Y	0.62	60.00	4.41		150.0	
10200	LTE EDD (SO EDMA FOR DD OAR)	Z	1.72	64.98	11.00		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.44	62.46	9.17	0.00	150.0	±9.6%
		Y	0.61	60.00	3.80		150.0	
10301- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	Z X	1.39 4.49	62.14 65.00	8.79 16.96	4.17	150.0 50.0	± 9.6 %
, , , ,	TOWITZ, QLOIC, FUGO,	Y	4.09	86.60	17.40			
		Z	4.52	66,69 65,33	17.12		50.0	
10302-	IEEE 802.16e WIMAX (29:18, 5ms,	X	4.99		17.21	4.00	50.0	1000
AAA	10MHz, QPSK, PUSC, 3 CTRL symbols)			65.68	17.71	4.96	50.0	± 9.6 %
		Y	4.49	66.84	17.65		50.0	
		Z	4.97	65.74	17.79		50.0	

10303- AAA	IEEE 802.16e WIMAX (31:15, 5ms,	Х	4.74	65.30	17.51	4.96	50.0	± 9.6 %
/VV1	10MHz, 64QAM, PUSC)	Υ	4.42	67.46	17.88		EOO	
		Z	4.72	65.36	17.59		50.0 50.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.55	65.18	17.01	4.17	50.0	± 9.6 %
		Υ	4.17	66.84	17.11		50.0	
		Z	4.53	65.26	17.11		50.0	
10305- AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	Х	4.22	67.24	18.89	6.02	35.0	± 9.6 %
		Υ	3.80	67.97	17.01		35.0	
		Z	4.24	67.52	19.03		35.0	
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.53	66.32	18.64	6.02	35.0	± 9.6 %
		Y	4.12	67.69	17.81		35.0	
40007	15-55 000 40 NOTHEN (00 40 40	Z	4.53	66.50	18.76		35.0	
10307- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.42	66.39	18.56	6.02	35.0	± 9.6 %
		Y	4.01	67.62	17.64		35.0	
10308-	IEEE 902 160 MIMAY (20:40, 40	Z	4.42	66.59	18.68	600	35.0	1000
AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.40	66.60 68.08	18.70	6.02	35.0	± 9.6 %
 -			4.05		17.93		35.0	
10309-	IEEE 802.16e WIMAX (29:18, 10ms,	Z	4.40	66.81	18.83	0.00	35.0	
AAA	10MHz, 16QAM, AMC 2x3, 18 symbols)		4.57	66.46	18.76	6.02	35.0	± 9.6 %
		Y	4.15	67.86	18.00		35.0	
10310- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Z X	4.57 4.48	66.64 66.38	18.88 18.62	6.02	35.0 35.0	± 9.6 %
/7/7/1	TOWITZ, QESK, AWO 2X3, To symbols)	Υ	4.11	67.92	17.93		35.0	
		Z	4.48	66.57	18.74		35.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	2.77	67,40	15.33	0.00	150.0	± 9.6 %
	7717-121	Y	2.94	71.44	17.85		150.0	
		Z	2.83	67.92	15.69		150.0	
10313- AAA	iDEN 1:3	X	2.63	70.72	15.17	6.99	70.0	± 9.6 %
		Y	4.78	79.70	18.53		70.0	
		Z	2.45	70.15	14.87		70.0	
10314- AAA	iDEN 1:6	Х	4.23	78.95	21.28	10.00	30.0	± 9.6 %
		Y	21.13	105.84	29.54		30.0	
		Z	4.50	79.98	21.54		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	Х	0.98	62.52	14.02	0.17	150.0	± 9.6 %
		Y	1.09	67.04	17.16		150.0	
		Z	0.97	62.89	14.44		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	X	4.40	66.34	15.98	0.17	150.0	± 9.6 %
		Y	4.07	67.64	16.55		150.0	
40047	LEEF 000 44- WELF OLL (CERTS)	Z	4.39	66.42	16.11	0.17	150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.40	66.34	15.98	0.17	150.0	± 9.6 %
		Y	4.07	67.64	16.55		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM,	Z X	4.39 4.48	66.42 66.62	16.11 15.95	0.00	150.0 150.0	± 9.6 %
MU	99pc duty cycle)	Y	4.04	67.65	16.49		150.0	
		Z	4.04	66.71	16.49	 	150.0	
10401-	IEEE 802.11ac WiFi (40MHz, 64-QAM,	X	5.21	66.82	16.17	0.00	150.0	± 9.6 %
				1	1			
AAD	99pc duty cycle)	Υ	4.85	67.54	16.72		150.0	

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM,	Х	5.47	67.11	16.20	0.00	150.0	± 9.6 %
AAD	99pc duty cycle)	Υ	5.17	67.70	40.77		450.0	
		Z		67.73	16.77		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	5.47 0.93	67.15 64.00	16.32 10.40	0.00	150.0 115.0	± 9.6 %
		Υ	0.33	60.00	4.23		115.0	······································
		Z	0.92	64.13	10.27		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	0.93	64.00	10,40	0.00	115.0	± 9.6 %
		Α	0.33	60.00	4.23		115.0	
		Z	0.92	64.13	10.27		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	16.67	98.68	24.47	0.00	100.0	± 9.6 %
		Y	7.21	81.11	14.31		100.0	
		Z	37.53	107.95	26.47		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	24.48	107.00	27.24	3,23	80.0	± 9.6 %
		Υ	15.52	100.17	23.54		80.0	
		Z	35.49	111.31	27.96		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	Х	0.93	61.94	13.54	0.00	150.0	± 9.6 %
		Υ	1.01	66.17	16.61		150.0	
		Z	0.92	62.29	13,95		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.35	66.34	15.91	0.00	150.0	± 9.6 %
		Υ	4.05	67.74	16.57		150.0	
		Z	4.35	66.43	16.05		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.35	66.34	15.91	0.00	150.0	± 9.6 %
		Υ	4.05	67.74	16.57	···	150.0	
10110		Z	4.35	66.43	16.05		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.34	66.51	15.94	0.00	150.0	± 9.6 %
		Υ	4.03	68.00	16.69		150.0	
		Z	4.34	66.61	16.09		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.36	66,46	15.94	0.00	150.0	± 9.6 %
		Υ	4.05	67.90	16.64		150.0	
		Z	4.36	66.55	16.08		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	Х	4,47	66.46	15.96	0.00	150.0	± 9.6 %
		Y	4.14	67.79	16.63		150.0	
40400		Z	4,47	66.54	16.10		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.61	66.73	16.06	0.00	150.0	± 9.6 %
***		Y	4.22	68.01	16.69		150.0	
40404	IEEE 000 14 /UEC	Z	4.61	66.82	16.20		150.0	
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.54	66.68	16.03	0.00	150.0	± 9.6 %
		Y	4.16	67.92	16.66		150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	Z X	4.53 5.17	66.77 66.99	16.18 16.27	0.00	150.0 150.0	± 9.6 %
	2. 0.0	Y	4.80	67.69	16.83		4500	
		Z	5.17	67.08	16.83		150.0	
10426-	IEEE 802.11n (HT Greenfield, 90 Mbps,	X	5.17	67.08	16.41	0.00	150.0	1000
AAB	16-QAM)					0,00	150.0	± 9.6 %
		Y	4.84	67.85	16.90		150.0	
		Z	5.20	67.19	16.47	L	150.0	

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	5.17	66.95	16.24	0.00	150.0	± 9.6 %
····		Y	4.81	67.67	16.81		150.0	
	***************************************	Ż	5.17	67.02	16.38		150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.04	70.70	17.69	0.00	150.0	± 9.6 %
		Υ	5.18	78.06	19.24		150.0	
		Z	4,12	71.34	18.06		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	3.97	66.79	15.75	0.00	150.0	± 9.6 %
		Υ	3.59	68.58	16.14		150.0	
		Z	3.97	66,94	15.91		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.30	66.71	15.93	0.00	150.0	± 9.6 %
		Υ	3.93	68.25	16.56		150.0	
		Z	4.29	66.83	16.08		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.56	66.71	16.05	0.00	150.0	± 9.6 %
		Υ	4.18	67.98	16.70		150.0	
40/0/		Z	4.55	66.80	16.19		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.08	71.35	17.45	0.00	150.0	± 9.6 %
		Υ	4.19	74.65	16.76		150.0	
40.45-		Z	4.19	72.07	17.82		150.0	***************************************
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	22.01	105.36	26.76	3.23	80.0	± 9.6 %
·		Υ	12.26	97.11	22.67		80.0	
		Z	30.46	109.05	27.35		80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.20	66.45	14.65	0.00	150.0	± 9.6 %
		Υ	2.49	66.31	12.90		150.0	
		Ζ	3.20	66.65	14.79		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	Х	3.83	66.57	15.61	0.00	150.0	± 9.6 %
		Υ	3.50	68.44	16.07		150.0	
		Ζ	3.83	66.72	15.77		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	Х	4.13	66.53	15.82	0.00	150.0	± 9.6 %
		Υ	3.82	68.12	16.50		150.0	
		Z	4.12	66.65	15.98		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.34	66.47	15.89	0.00	150.0	± 9.6 %
		Υ	4.03	67.78	16.58		150.0	
		Z	4.33	66.57	16.04		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.02	66.30	14.00	0.00	150.0	± 9.6 %
		Υ	1.96	63.95	10.66		150.0	
		Z	3.02	66.48	14.10		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.11	67.70	16.53	0.00	150.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	6.19	69.21	17.55		150.0	
		Z	6.14	67.81	16.68		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3,68	65,04	15.61	0.00	150.0	± 9.6 %
	-	Y	3.54	66.84	16.42		150.0	
40.1=1		Z	3.67	65.12	15.76		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.62	70.05	16.39	0.00	150.0	± 9.6 %
		Y	1.73	62.72	9.51		150.0	
45.4		Z	3.68	70.56	16.64		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.87	68.53	17.80	0.00	150.0	± 9.6 %
		Y	3.66	66.63	14.39		150.0	
		Z	4.93	68.95	18.05		150.0	I

10460- AAA	UMTS-FDD (WCDMA, AMR)	Х	0.72	64.98	13.65	0.00	150.0	± 9.6 %
AAA		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.00	400 57	00.00		4500	1
		Z	8.89 0.75	109.57	29.93		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	13.94	66.41 101.67	14.51 26.79	3.29	150.0 80.0	± 9.6 %
		Y	100.00	127.12	30.86		80.0	
		Z	40.31	115.94	29.98		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.11	63.17	10.06	3.23	80.0	± 9.6 %
		Υ	0.26	55.58	3.51		80.0	
		Z	0.94	61.56	9.02		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.81	60,00	7.90	3.23	80.0	± 9.6 %
		Y	1.89	63.59	6.01		80.0	
40404	LITE TOD (OO EDMA A DD O MIL)	Z	0.81	60.00	7.64		80.0	
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	10.27	95.95	24.48	3.23	80.0	± 9.6 %
		Y	10.37	95.51	22,29		80.0	
10465-	LITE TOD (CO COMA 4 DD OME 40	Z	21.85	105.27	26.52	0.00	80.0	
AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	1.01	62.26	9.56	3.23	80.0	± 9.6 %
		Y	0.26	55.51	3.41		80.0	
10466-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-	Z	0.88	60.92	8.64		80.0	
AAA	QAM, UL Subframe=2,3,4,7,8,9)	X	0.81	60.00	7.85	3.23	80.0	± 9.6 %
		Y	2.94	64.67	6.15		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Z X	0.81 12.26	60.00 98.51	7.59 25.22	3.23	80.0 80.0	± 9.6 %
7010	Gr Srt, OE Oubhanie-2,3,4,7,0,9)	Y	17.71	102.01	24.01		80.0	
		Z	30.02	102.65	27.64		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	1.04	62.52	9.70	3.23	80.0	± 9.6 %
		Y	0.26	55.56	3.48		80.0	
		Z	0.90	61.11	8.75		80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	0.81	60.00	7.85	3.23	80.0	± 9.6 %
		Υ	0.90	60.91	5.15		80.0	
		Z	0.81	60.00	7.59		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	12.39	98.68	25.27	3.23	80.0	± 9.6 %
		Υ	18.66	102.62	24.14		80.0	
		Z	30.74	109.98	27.71		80.0	
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	1.03	62.46	9.66	3.23	0.08	± 9.6 %
		Y	0.26	55.54	3.46		80.0	
10470	LITE TOD (CO FOMA 4 FOR 10 MILE)	Z	0.89	61.06	8.72		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	0.81	60.00	7.83	3.23	80.0	± 9.6 %
		Y	1.83	63.55	6.01		80.0	
10473-	LITE TOD (SO COMA 4 DD 45 M)	Z	0.81	60.00	7.57		80.0	
AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	12.30	98.56	25.23	3.23	80.0	±9.6%
		Y	17.97	102.17	24.03		80.0	
10474	LITE TOD (CC CDMA 4 DD 45 ML 45	Z	30.28	109.75	27.65		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.02	62.43	9.65	3.23	80.0	± 9.6 %
···		Y	0.26	55.54	3.45		80.0	
10475-	LTE TOD (SC EDMA 4 DD 45 ML) O4	Z	0.89	61.04	8.70		80.0	
AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.81	60.00	7.83	3.23	80.0	± 9.6 %
		Y	3.14	65.15	6.35		80.0	
·		Z	0.81	60.00	7.57		80.0	

10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-	Х	1.00	62.22	9.52	3.23	80.0	± 9.6 %
7770	QAM, UL Subframe=2,3,4,7,8,9)	Y	0.26	55.50	3.40		90.0	
···		Z	0.26	60.88	8.60		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.81	60.00	7.82	3.23	80.0 80.0	± 9.6 %
		Υ	3.81	65.69	6.44		80.0	
		Z	0.81	60.00	7.56		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.59	85.50	22.56	3.23	80,0	± 9.6 %
		Υ	100.00	124.45	30.64		80.0	
		Z	8.59	89.42	23.62		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4,79	76.18	17.27	3.23	80.0	± 9.6 %
		Y	0.79	60.53	7.96		80.0	
10481-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z	4.72	75.80	16.90	0.00	80.0	
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.50	71.72	15.20	3.23	80.0	± 9.6 %
		Y 7	0.75	60.00	7.10	1	80.0	
10482-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	Z X	3.26 1.78	70.74 66.01	14.59 13.40	2.23	80.0 80.0	± 9.6 %
AAA	QPSK, UL Subframe=2,3,4,7,8,9)	^ Y	0.80	60.00	6.87	۷،۷۵	80.0	19.0 %
		Z	1.80	66.49	13.54		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.59	67.30	13.51	2.23	80.0	± 9.6 %
7001	33,77,7-7-7	Y	1.09	60.00	5.52		80.0	***************************************
		Z	2.37	66.27	12.85		80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.46	66.44	13.12	2.23	0.08	± 9.6 %
		Υ	1.12	60,00	5.52		80.0	
		Z	2.26	65.46	12.48		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	2,31	69.06	16.01	2.23	80.0	± 9.6 %
***************************************		Y	2.52	71.75	14.63		80.0	
40400	LIE TOD (OO FDMA CON DD CAM)	Z	2.43	70.26	16.55	0.00	80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.35	65.93	13.92	2.23	80.0	± 9.6 %
		Y	1.10	60.00	7.99		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.35 2.36	66.25 65.64	14.03 13.75	2.23	80.0 80.0	± 9.6 %
***************************************		Y	1.13	60.00	7.94		80.0	
		Z	2.36	65.89	13.84	ĺ.	80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	2.76	69.44	17.18	2.23	80.0	± 9.6 %
		Υ	4.34	80.02	20.91		80.0	
		Z	2.84	70.33	17.68		80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	2.91	67.08	16.06	2.23	0.08	± 9.6 %
		Y	3.28	71.79	16.98		80.0	
10400	LITE TOD (SO FDMA FOR TO ACK!!!	Z	2.93	67.51	16.34	0.00	80.0	1000
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.00	67.01	16.04	2.23	80.0	± 9.6 %
		Z	3.19 3.01	70.91 67.40	16.56 16.29	1	80.0 80.0	
10491- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.11	68.64	17.05	2.23	80.0	± 9.6 %
	and and administration with the first	Υ	3.62	74.69	19.64		80.0	
		Z	3.15	69.19	17.41		80.0	
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.31	66.73	16.33	2.23	80.0	± 9.6 %
	-,	Υ	3.42	70.36	17.49	 	80.0	
		Z	3.30	66.98	16.55		80.0	

10493-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	Х	3.37	66.65	16.30	2.23	80.0	± 9.6 %
AAC	64-QAM, UL Subframe=2,3,4,7,8,9)							
***		Υ	3.42	69.99	17.28		80.0	
		Z	3.37	66.89	16.51		80.0	
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.29	69.76	17.41	2.23	80.0	±9.6 %
		Υ	3.96	76.26	20.40		80.0	
		Z	3.36	70.43	17.82		80.0	
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.32	66.99	16.51	2.23	80.0	± 9.6 %
		Υ	3.45	70.58	17.96		80.0	
		Z	3.32	67.26	16.75		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.41	66.83	16.48	2.23	80.0	± 9.6 %
		Y	3.49	70.20	17.79		80.0	
		Z	3.41	67.07	16.70		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.18	61.39	9.87	2.23	80.0	± 9.6 %
		Υ	0.42	53.98	1.19		80.0	
		Z	1.11	61.01	9.51		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.22	60.00	7.98	2.23	80.0	± 9.6 %
		Y	99.99	258.49	1.69		80.0	
		Z	1.20	60.00	7.80		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.24	60.00	7.83	2.23	80.0	±9.6%
		Υ	99.95	273.67	5.17		80.0	
		Z	1.21	60.00	7.64		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	2.48	69.15	16.47	2.23	80.0	± 9.6 %
		Y	4.15	78.35	18.23		80.0	
		Z	2.59	70.22	16.99		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.62	66.65	14.86	2,23	80.0	±9.6%
		Υ	1.65	63.40	10.90		80.0	
		Z	2.64	67.08	15.07		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.66	66.53	14.74	2.23	80.0	± 9.6 %
		Υ	1.59	62.74	10.46		80.0	
		Z	2.68	66.92	14.92		80.0	Ì
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.73	69.26	17.09	2.23	80.0	±9.6 %
		Υ	4.21	79.52	20.70		80.0	
		Z	2.81	70.13	17.57		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.89	66.99	16.00	2,23	80.0	± 9.6 %
		Y	3.22	71.53	16.84		80.0	
		Z	2.91	67.41	16.27		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.98	66.92	15.98	2.23	80.0	± 9.6 %
		Υ	3.15	70.69	16.45		80.0	l
		Ζ	3.00	67.30	16.23		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.27	69.63	17.34	2.23	80.0	± 9.6 %
		Υ	3.91	76.02	20.28		80.0	
		Ζ	3.33	70.28	17.74		80.0	
10507- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL	Х	3.31	66.93	16.47	2.23	80.0	± 9.6 %
7,70								
	Subframe=2,3,4,7,8,9)	Y	3.43	70.48	17.90		80.0	

10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.40	66.77	16.43	2.23	80.0	± 9.6 %
		Υ	3.47	70.07	17.72		80.0	
		Z	3.40	67.00	16.65		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.71	68.99	17.10	2.23	80.0	± 9.6 %
······································		Υ	3.93	72.91	19.23		80.0	
40540		Z	3.74	69.39	17.40		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.81	66.87	16.61	2.23	80.0	± 9.6 %
		Y	3.70	69.03	17.73		80.0	
40544	LITE TOO YOU FRAME AREA	Z	3.80	67.02	16.79		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.88	66.72	16.58	2.23	80.0	±9.6 %
		Y	3.77	68.83	17.64		80.0	
100		Z	3.87	66.85	16.75		80.0	
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.76	70.05	17.41	2.23	80.0	± 9.6 %
		Y	4.13	74.35	19.72		80.0	
40540		Z	3.82	70.57	17.75		80.0	
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	3.69	66.99	16.66	2.23	80.0	± 9.6 %
****		Υ	3.62	69.07	17.83		80.0	
40544	1.75 700 /00 501	Z	3.68	67.16	16.86		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.74	66.70	16.58	2.23	80.0	± 9.6 %
,,,,		Υ	3.66	68.68	17.67		80.0	
		Ζ	3.72	66.84	16.77		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	×	0.89	62.04	13.53	0.00	150.0	± 9.6 %
		Y	0.99	66.72	16.88		150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	Z X	0.88 0.42	62.43 65.22	13.97 13.44	0.00	150.0 150.0	± 9.6 %
^^^	Midps, 99pc duty cycle)	Y	100.00	470.44	46.50		450.0	
		Z	0.47	170.44 67.93	14.90		150.0 150.0	
10517-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	X	0.71	63.10	13.56	0.00	150.0	± 9.6 %
AAA	Mbps, 99pc duty cycle)	Y	0.99	72.70	19.61		150.0	
		Z	0.71	63.90	14.21		150.0	
10518- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.34	66.42	15.89	0.00	150.0	± 9.6 %
		Υ	4.04	67.95	16.62		150.0	
		Z	4.34	66.52	16.03		150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	Х	4.50	66.62	16.00	0.00	150.0	± 9.6 %
		Y	4.14	68.05	16.67		150.0	
10800	Immer occ 44 # 1445	Z	4.49	66.71	16.14		150.0	
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.35	66.54	15.90	0.00	150.0	± 9.6 %
		Z	4.01	67.95	16.60		150.0	
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.35 4.29	66.64 66.51	16.05 15.88	0.00	150.0 150.0	± 9.6 %
		Y	3.94	67.81	16.52		150.0	
		Z	4.28	66.61	16.02		150.0	
10522- AAB	IEEE 802.11a/h WiFl 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	Х	4.34	66.65	15,98	0.00	150.0	± 9.6 %
		Υ	3,95	67.80	16.52		150.0	
		Z	4.34	66.75	16.13		150.0	

10523-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	ТхТ	4.25	66.56	15.85	0.00	150.0	± 9.6 %
AAB	Mbps, 99pc duty cycle)	^	4.20	00.00	13.65	0.00	150.0	T 9.0 %
		Y	3.96	68.17	16.68	***************************************	150.0	
		Ζ	4.25	66.67	16.01		150.0	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.29	66.57	15.95	0.00	150.0	± 9.6 %
		Y	3.92	67.94	16.65		150.0	
		Z	4.28	66.68	16.11		150.0	
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.30	65.65	15.56	0.00	150.0	± 9.6 %
		Υ	4.04	67.23	16.37		150.0	
		Z	4.30	65.76	15.72		150.0	
10526- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	Х	4.44	65.96	15.69	0.00	150.0	± 9.6 %
		Y	4.10	67.36	16.43		150.0	
40507	JEEE 000 44 WEEL (OOM II - MOCO	Z	4.44	66.06	15.84	0.00	150.0 150.0	1060/
10527- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)		4.36	65.91	15.62	00.00		± 9.6 %
		Y	4.06	67.43	16.42		150.0	
10528-	IEEE 802.11ac WiFi (20MHz, MCS3,	Z	4.36 4.38	66.02 65.93	15.78 15.65	0.00	150.0 150.0	±9.6%
AAB	99pc duty cycle)	Y				0.00	150.0	±9.0 %
		Z	4.05	67.35	16.40			
10500	IEEE 802.11ac WiFi (20MHz, MCS4,	<u>Z</u>	4.38	66.04	15.81	0.00	150.0 150.0	1069/
10529- AAB	99pc duty cycle)		4.38	65.93	15.65	0.00		± 9.6 %
		Y	4.05	67.35	16.40	·	150.0	
10531- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.38 4.35	66.04 65.97	15.81 15.64	0.00	150.0 150.0	± 9.6 %
MMD	aspc duty cycle)	TY	4.01	67.35	16.37		150.0	
		+ '	4.35	66.08	15.79		150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.23	65.82	15.56	0.00	150.0	± 9.6 %
		Y	3.93	67.27	16.33		150.0	
		Z	4.23	65.93	15.72		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.39	65.99	15.65	0.00	150.0	± 9.6 %
		Υ	4.07	67.57	16.46		150.0	
		Z	4.39	66.11	15.81		150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	Х	4.94	66.05	15.78	0.00	150.0	± 9.6 %
		Υ	4.64	66.91	16.43		150.0	
		Z	4.95	66.13	15.92		150.0	
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	Х	5.00	66.21	15.85	0.00	150.0	± 9.6 %
		Υ	4.65	66.98	16.47		150.0	
		Z	5.00	66.29	16.00		150.0	
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	Х	4.88	66.17	15.81	0.00	150.0	± 9.6 %
		Υ	4.56	66.99	16.45		150.0	
		Z	4.88	66.26	15.96		150.0	
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	4.93	66.14	15.80	0.00	150.0	± 9.6 %
		Y	4.65	67.13	16.53	*****	150.0	
40500	JEEE 000 44 - 1 MEE: /401411 - 1400 1	Z	4.94	66.23	15.95	0.00	150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.01	66.14	15.84	0.00	150.0	± 9.6 %
		Y	4.66	66.91	16.44	1	150.0	ļ
40540	LEEE 000 44 NAVEY (10) 41 NOCE	Z	5.02	66.22	15.99		150.0	
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	Х	4.94	66.12	15.84	0.00	150.0	± 9.6 %
		Υ	4.60	66.83	16.43		150.0	
	•	Z	4.95	66.20	15.99		150.0	

10541-	IEEE 802.11ac WiFi (40MHz, MCS7,	Х	4.92	66.01	15.78	0.00	150.0	± 9.6 %
AAB	99pc duty cycle)	\bot						
		Y	4.61	66.86	16.41		150.0	
10542-	IEEE 900 44 co MIE: /40MI I - MOOR	Z	4.92	66.07	15.91		150.0	
AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.08	66.12	15.85	0.00	150.0	± 9.6 %
		Y	4.74	66.92	16.46		150.0	
40540	1555.000 (4)	Z	5.08	66.19	15.99		150.0	
10543- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	Х	5.14	66.15	15.90	0.00	150.0	± 9.6 %
		Y	4.79	66.97	16.52		150.0	
10544-	IEEE 900 44 to MSE: (00MI I - MOOO	Z	5.15	66.24	16.04		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.28	66.17	15.79	0.00	150.0	± 9.6 %
		Y	5.02	66.72	16.34		150.0	
10545-	IEEE 802.11ac WiFi (80MHz, MCS1,	Z	5.29	66.22	15.92		150.0	
AAB	99pc duty cycle)	X	5.46	66.60	15.97	0.00	150.0	± 9.6 %
		Y	5.15	67.11	16.50		150.0	,,,,
10546-	IEEE 902 4400 MIE: (20MIE MOCO	Z	5.48	66.70	16.12		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	Х	5.32	66.30	15.83	0.00	150.0	± 9.6 %
		Y	5.04	66.80	16.35		150.0	
10547-	IEEE 902 44ee WIE! (90MI - MOCC	Z	5.32	66.36	15.96	0.55	150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.39	66.39	15.87	0.00	150.0	± 9.6 %
		Y	5.17	67.18	16.54		150.0	
10510	IFFE 000 dd - 18/Ff (0014) - 1400 d	Z	5.41	66.46	16.01	L	150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.58	67.13	16.21	0.00	150.0	± 9.6 %
		Υ	5.08	67.06	16.46		150.0	
		Z	5.61	67.28	16.39		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.37	66.44	15.91	0.00	150.0	± 9.6 %
		Y	5.20	67.46	16.69		150.0	
***		Z	5.39	66.55	16.06		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.33	66.33	15.82	0.00	150.0	± 9.6 %
		Υ	5.00	66.73	16.30		150.0	
		Z	5.34	66.38	15.94		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.29	66.25	15.78	0.00	150.0	± 9.6 %
		Υ	5.03	66.95	16.40		150.0	
		Z	5.29	66.30	15.90		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.35	66.24	15.81	0.00	150.0	± 9.6 %
		Y	5.04	66.77	16.32		150.0	
1000	I NO DE LA COLLEGA DE LA COLLE	Z	5.35	66.28	15.93		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	×	5.70	66.53	15.89	0.00	150.0	± 9.6 %
		Y	5.48	66.93	16.36		150.0	
		Z	5.71	66.58	16.01	_	150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	Х	5.81	66.79	16.00	0.00	150.0	± 9.6 %
		Υ	5.55	67.14	16.45		150.0	
		Z	5.82	66.86	16.13		150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	5.84	66.87	16.04	0.00	150.0	± 9.6 %
		Υ	5.59	67.27	16.51		150.0	
		Z	5.85	66.94	16.17		150.0	
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	×	5.79	66.74	15.99	0.00	150.0	± 9.6 %
		Y	5.53	67.10	16.44		150.0	
·····		Z	5.80	66.79	16.11		150.0	

10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.83	66.87	16.07	0.00	150,0	± 9.6 %
		Y	5.48	66.99	16.40		150.0	
		Ż	5.83	66.91	16.19		150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.83	66.75	16.05	0.00	150.0	± 9.6 %
		Υ	5.52	66.99	16.43		150.0	
		Z	5.84	66.79	16.17		150.0	
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	Х	5.76	66.74	16.07	0.00	150.0	± 9.6 %
		Υ	5.46	66.95	16.44		150.0	
		Z	5.77	66.80	16.20		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	Х	5.83	66.96	16.19	0.00	150.0	± 9.6 %
		Υ	5.52	67.16	16.55		150.0	
		Z	5.84	67.00	16.31		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	5.92	66.88	16.11	0.00	150.0 ± 9.6 150.0 150.0 150.0 ± 9.6 150.0 150.0	± 9.6 %
40004	IEEE 000 44 - MEE' C 4 OU 4 (DOOG				•	0.10		
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	4.67	66.49	16.06	0.46		± 9.6 %
		<	4.32	67.73	16.66			
40505	IEEE OOO 44 - MEEL O 4 OU 4 OOO	Z	4.66	66.56	16.18	0.10		
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	4.87	66.92	16.38	0.46		± 9.6 %
		<u>i</u>	4.49	68.17	17.00		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	4.86 4.71	67.00 66.74	16.52 16.18	0.46	150.0 150.0	± 9.6 %
AAA	OFDIVI, 16 Mups, 99pc duty cycle)	Y	4.33	67.89	16.77		150.0	
		Ż	4.70	66.81	16.31		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	4.74	67.14	16.55	0.46	150.0	± 9.6 %
,,,,,	or any 21 maps of obs day of old	Y	4.39	68.40	17.22		150.0	
		Z	4.73	67.23	16.70		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	4.61	66.49	15.93	0.46	150.0	± 9.6 %
		Υ	4.16	67.29	16.29		150.0	
		Z	4.60	66.56	16.05		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	4.71	67.30	16.65	0.46	150.0	± 9.6 %
		Υ	4.41	68.83	17.49		150.0	
		Z	4.71	67.41	16.81		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	Х	4.73	67.11	16.56	0.46	150.0	± 9.6 %
		Y	4.35	68.37	17.24		150.0	
40574	IEEE 000 441 MEE 0 4 00 4 (5 0 0 0 0	Z	4.72	67.21	16.71		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.04	62.89	14.28	0.46	130.0	± 9.6 %
		Y	1.15	67.27	17.22		130.0	
40570	LEEE 200 445 MEET 0 4 OUT (DOOG 0	Z	1.02	63.22	14.67	0 10	130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	Х	1.04	63.32	14.57	0.46	130.0	± 9.6 %
		Y	1.18	68.30	17.83		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	Z X	1.03 0.83	63.72 71.63	15.00 16.92	0.46	130.0 130.0	± 9.6 %
11/1/1	impo, auto duty cycle)	Y	100.00	162.55	44.35	 	120.0	
		Z	1.07	76.86	19.24		130.0 130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.02	67.14	16.57	0,46	130.0	± 9.6 %
	impo, cope daty dyold)	Y	1.91	82.76	24.56	 	130.0	
			M I	X7 /h	74 55	4	1 1300	

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Х	4.45	66.27	16.09	0.46	130,0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)			00.27		0.40	150,0	1 3.0 70
		Υ	4.10	67.49	16.61		130.0	
10576-	JEET 000 44 - WEET 0 4 GU (FOOD	Z	4.44	66.34	16.22		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	X	4.47	66.45	16.16	0.46	130.0	± 9.6 %
		Υ	4.15	67.84	16.79		130.0	
10577	IEEE 000 44 MIEI 0 4 OU (DOOR	Z	4.47	66.53	16.30		130.0	
10577- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	Х	4.65	66.71	16.33	0.46	130.0	±9.6 %
~~		Y	4.27	68.02	16.91		130.0	
10578-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.64	66.79	16.46		130.0	
AAA	OFDM, 18 Mbps, 90pc duty cycle)	^ ^ Y	4.55	66.84	16.42	0.46	130.0	± 9.6 %
		Z	4.20 4.54	68.23	17.08		130.0	
10579-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.34	66.94 66.05	16.56	0.40	130.0	
AAA	OFDM, 24 Mbps, 90pc duty cycle)				15.67	0.46	130.0	± 9.6 %
		Y Z	3.90	66.98	16.06	····	130.0	
10580-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.30 4.35	66.11 66.12	15.79	0.40	130.0	1000
AAA	OFDM, 36 Mbps, 90pc duty cycle)	Y	3.88	66.84	15.70	0.46	130.0	± 9.6 %
		Z	4.34		15.95		130.0	
10581-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.45	66.18 66.88	15.83 16.36	0.46	130.0	+000
AAA	OFDM, 48 Mbps, 90pc duty cycle)	Y	4.45	68.42		0.46	130.0	± 9.6 %
		Z	4.14	66.99	17.13		130.0	***************************************
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.24	65.81	16.52 15.45	0.46	130.0 130.0	± 9.6 %
		Y	3.79	66.65	15.78		130.0	
		Z	4.23	65.87	15.57		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.45	66.27	16.09	0.46	130.0	± 9.6 %
		Y	4.10	67.49	16.61		130.0	
		Z	4.44	66.34	16.22		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.47	66.45	16.16	0.46	130.0	± 9.6 %
		Y	4.15	67.84	16.79		130.0	
		Z	4.47	66.53	16.30		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	Х	4.65	66.71	16.33	0.46	130.0	± 9.6 %
		Υ	4.27	68.02	16.91		130.0	
		Z	4.64	66.79	16.46		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	Х	4.55	66.84	16.42	0.46	130.0	± 9.6 %
		Υ	4.20	68.23	17.08		130.0	
40563	IEEE 000 44 # MUE & COLUMN TO THE COLUMN TO	Z	4.54	66.94	16.56		130.0	
10587- AAB	IEEE 802.11a/h WIFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.31	66.05	15.67	0.46	130.0	± 9.6 %
		Y	3.90	66.98	16.06		130.0	
10500	JEEE 000 44 - IL MIELE OLL (OFFICE OF	Z	4.30	66.11	15.79		130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.35	66.12	15.70	0.46	130.0	± 9.6 %
		Y	3.88	66.84	15.95		130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	Z X	4.34 4.45	66.18 66.88	15.83 16.36	0.46	130.0 130.0	± 9.6 %
770	iviopa, aopti duty cycle)	Y	4 4 4	60 40	47.40		100.0	·········
		Z	4.14 4.44	68.42 66.99	17.13 16.52	**************************************	130.0 130.0	
10590-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54	X	4.44	65.81	15.45	0.46	130.0	T U E 0/
AAB	Mbps, 90pc duty cycle)	^ Y				0.40		± 9.6 %
		Z	3.79	66.65	15.78		130.0	
		<u> </u>	4.23	65.87	15.57		130.0	

10591-	IEEE 802.11n (HT Mixed, 20MHz,	T X T	4.61	66.36	16.22	0.46	130.0	± 9.6 %
AAB	MCS0, 90pc duty cycle)		1.01	30.00	,0.22	01.0	7.007.0	/-
		Y	4.27	67.61	16.79		130.0	
		Z	4.60	66.43	16.35		130.0	
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.73	66.67	16.34	0.46	130.0	± 9.6 %
		Υ	4.33	67.81	16.89		130.0	
		Z	4.72	66.74	16.48		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	Х	4.65	66.54	16.20	0.46	130.0	± 9.6 %
		Y	4.27	67.73	16.75		130.0	
		Z	4.64	66.61	16.33		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	Х	4.71	66.72	16,37	0.46	130.0	± 9.6 %
		Υ	4.31	67.86	16.91		130.0	
		Z	4.70	66.80	16.50		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.67	66.68	16.26	0.46	130.0	± 9.6 %
***************************************		Y	4.27	67.85	16.83		130.0	
		Z	4.66	66.76	16.40		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.60	66.65	16.25	0.46	130.0	± 9.6 %
		Υ	4.18	67.67	16.75		130.0	
		Z	4.59	66.73	16.39		130.0	
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.55	66.52	16.11	0.46	130.0	± 9.6 %
		Y	4.16	67.60	16.61	,,,,	130.0	
		Z	4.54	66.60	16.24		130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.54	66.75	16.38	0.46	130.0	± 9.6 %
		Y	4.21	68.06	17.02		130.0	
		Z	4.53	66.84	16.52		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	Х	5.29	66.89	16.48	0.46	130.0	± 9.6 %
		Y	5.11	68.25	17.34		130.0	
		Z	5.30	66.99	16.63		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	Х	5.40	67.29	16.65	0.46	130.0	± 9,6 %
		Υ	5.01	67.95	17.16		130.0	
		Z	5.43	67.45	16.83		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	Х	5.30	67.04	16.55	0.46	130.0	± 9.6 %
		Υ	4.95	67.81	17.11		130.0	
		Z	5.31	67.16	16.70		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.43	67.22	16.56	0.46	130.0	± 9.6 %
		Υ	4.98	67.69	16.96		130.0	
		Z	5.44	67.31	16.70		130.0	ļ
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.50	67.52	16.84	0.46	130.0	± 9.6 %
		Y	5.00	67.82	17.18		130.0	
		Z	5.52	67.67	17.02		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	Х	5.38	67.17	16.65	0.46	130.0	±9.6 %
		Y	4.97	67.66	17.06		130.0	
		Z	5.40	67.31	16.82	<u> </u>	130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.40	67.20	16.66	0.46	130.0	± 9.6 %
		Y	4.93	67.56	17.02		130.0	
		Z	5.42	67.33	16.82		130.0	
10606- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	Х	5.15	66.52	16.17	0.46	130.0	± 9.6 %
<u> </u>		Y	4.95	67.77	16.96	Ī	130.0	
		Z	5.16	66.62	16.32		130.0	

10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	Х	4.44	65.66	15.83	0.46	130.0	± 9.6 %
		Y	4.14	67.09	16.52		130.0	
-		Ż	4.44	65.75	15.97		130.0	
10608- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.60	66.02	15.98	0.46	130.0	± 9.6 %
		Y	4.22	67.28	16.62	- mt	130.0	
		Z	4.59	66.11	16,13		130.0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	Х	4.49	65.84	15.80	0.46	130.0	± 9.6 %
		Y	4.13	67.14	16.44		130.0	
		Z	4.48	65.93	15.94		130.0	
10610- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.54	66.01	15.97	0.46	130.0	± 9.6 %
		Y	4.18	67.30	16.61		130.0	
		Z	4.53	66.10	16.12		130.0	
10611- AAB	1- IEEE 802.11ac WiFi (20MHz, MCS4, X 4.45 65.81 1 90pc duty cycle) Y 4.09 67.07 1 Z 4.45 65.90 1	15.81	0.46	130.0	± 9.6 %			
					16.44		130.0	
					15.96		130.0	
10612- AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.45	65.93	15.85	0.46	130.0	± 9.6 %
		Y	4.03	67.00	16.38		130.0	
		Z	4.44	66.03	15.99		130.0	
10613- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.44	65.77	15.70	0.46	130.0	± 9.6 %
		Y	4.05	66.88	16.24		130.0	
		Z	4.44	65.85	15.84		130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.41	65.98	15.95	0.46	130.0	± 9.6 %
		Υ	4.08	67.31	16.62		130.0	
		Z	4.40	66.08	16.10		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	Х	4.45	65.64	15.58	0.46	130.0	± 9.6 %
		Υ	4.06	66.87	16.16		130.0	
		Z	4.44	65.72	15.71		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.09	66.09	16.06	0.46	130.0	± 9.6 %
		Υ	4.76	66.84	16.63		130.0	
		Z	5.10	66.16	16.20		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.16	66.28	16.13	0.46	130.0	± 9.6 %
		Υ	4.76	66.87	16.63		130.0	
		Z	5.16	66.37	16.28		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	×	5.05	66.30	16.16	0.46	130.0	± 9.6 %
		Υ	4.69	66.97	16.69		130.0	
		Z	5.06	66.39	16.30		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.06	66.08	15.98	0.46	130.0	± 9.6 %
		Y	4.75	66.94	16.61		130.0	
		Z	5.07	66.17	16.13		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	Х	5.14	66.12	16.05	0.46	130.0	± 9.6 %
		Y	4.76	66.75	16.54		130.0	
		Z	5.15	66.20	16.19		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.15	66.26	16.24	0.46	130.0	± 9.6 %
		Υ	4.80	66.94	16.78		130.0	
		Z	5.16	66.33	16.38		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.15	66.36	16.29	0.46	130.0	± 9.6 %
		Υ	4.77	66.96	16.79		130.0	
		Z	5,15	66.43	16.42		130.0	

10623- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	Х	5.03	65.89	15.92	0.46	130.0	± 9.6 %
		Y	4.69	66.61	16.45		130.0	
		Z	5.03	65.94	16.04		130.0	
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	Х	5.23	66.15	16.11	0.46	130.0	± 9.6 %
		Υ	4.85	66.81	16.62		130.0	
		Z	5.23	66.22	16.25		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	Х	5.41	66.58	16.39	0.46	130.0	± 9.6 %
		Y	4.98	67.17	16.88		130.0	
		Z	5.39	66.59	16.50		130.0	
10626- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	Х	5.42	66.17	16.04	0.46	130.0	± 9.6 %
		Y	5.14	66.64	16.52		130.0	
		Z	5.42	66.21	16.16		130.0	
10627- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.65	66.77	16.32	0.46	130.0	± 9.6 %
		Y	5.31	67.18	16.77		130.0	
		Z	5.68	66.90	16.48		130.0	
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.42	66.16	15.94	0.46	130.0	± 9.6 %
		Y	5.11	66.54	16.37		130.0	
		Z	5.42	66.21	16.06		130.0	
10629- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	×	5.51	66.29	16.00	0.46	130.0	± 9.6 %
		Y	5.29	67.09	16.65		130.0	
		Z	5.53	66.38	16.14		130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.82	67.43	16.57	0.46	130.0	± 9.6 %
		Y	5.21	66.99	16.61		130.0	
		Ζ	5.87	67.63	16.77		130.0	
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.76	67.37	16.74	0.46	130.0	± 9.6 %
		Y	5.33	67.57	17.10		130.0	
		Z	5.78	67.47	16.89		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.64	66.89	16.52	0.46	130.0	± 9.6 %
		Y	5.50	68.05	17.35		130.0	
		Z	5.67	67.03	16.69		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.49	66.38	16.08	0.46	130.0	± 9.6 %
		Y	5.12	66.68	16.49		130.0	
·		Z	5.49	66.42	16.20		130.0	·
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	×	5.47	66.40	16.15	0.46	130.0	± 9.6 %
		Υ	5.20	67.06	16.73		130.0	
		Z	5.47	66.45	16.27		130.0	
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	×	5.34	65,69	15.52	0.46	130.0	± 9.6 %
		Υ	4.98	66.00	15.88		130.0	
		Z	5.34	65.71	15.62		130.0	
10636- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	Х	5.85	66.55	16.15	0.46	130.0	± 9.6 %
		Y	5.60	66.87	16.55		130.0	
		Z	5.86	66.59	16.27		130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	5.99	66.90	16.31	0.46	130.0	±9.6%
		Y	5.71	67.22	16.72		130.0	
		Z	6.00	66.97	16.44		130.0	
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	5,99	66.89	16.28	0.46	130.0	± 9.6 %
		Y	5.74	67.30	16.74		130.0	
		Z	6.01	66.96	16.42	1	130.0	†

10639- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	Х	5.96	66.80	16.28	0.46	130.0	± 9.6 %
780	90pc daty cycle)	- , , -	5.07		<u> </u>			
	1	Y	5.67	67.08	16.67		130.0	
10640-	IEEE 802.11ac WiFi (160MHz, MCS4,	Z	5.97	66.85	16.40		130.0	
AAC	90pc duty cycle)	X	5.95	66.77	16.21	0.46	130.0	± 9.6 %
		Y	5.56	66.76	16.45		130.0	
10641-	IFEE 000 44 - 14851 (4001 H)	Z	5.95	66.81	16.32		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.02	66.79	16.24	0.46	130.0	± 9.6 %
		Y	5.69	66.96	16.57		130.0	
10642-		Z	6.04	66.86	16.37		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.05	66.99	16.51	0.46	130.0	± 9.6 %
		Y	5.71	67.14	16.83		130.0	
40040		Z	6.06	67.04	16.63		130.0	
10643- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	Х	5.89	66.69	16.25	0.46	130.0	± 9.6 %
		Υ	5.55	66.75	16.51		130.0	
40041		Z	5.91	66.75	16.38		130.0	
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	Х	5.98	66.95	16.40	0.46	130.0	± 9.6 %
		Υ	5.64	67.07	16.70		130.0	
		Z	5.98	66.98	16.51		130.0	·
10645- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	Х	6.12	67.04	16.41	0.46	130.0	± 9.6 %
····		Y	6.04	68.05	17.16		130.0	
		Z	6.18	67.23	16.60		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	9.30	96.04	33.28	9.30	60.0	± 9.6 %
		Υ	4.72	85.46	29.98		60.0	
		Z	9.03	95.55	33.06	·	60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	Х	8.21	93.71	32.60	9.30	60.0	± 9.6 %
		Υ	4.16	82.96	29.11		60.0	
		Z	7.96	93.24	32.39		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.48	60.73	7.74	0.00	150.0	± 9.6 %
		Υ	0.28	60.00	2.97	<u> </u>	150.0	
		Z	0.45	60.55	7.36		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.22	65.68	15.68	2.23	80.0	± 9.6 %
		Y	3.30	69.14	16.34		80.0	
		Z	3.22	65.91	15.87		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	Х	3.80	65.29	16.06	2.23	80.0	± 9.6 %
		Υ	3.72	67.55	16.85		80.0	
		Z	3.78	65.38	16.21		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	Х	3.81	64.97	16.11	2.23	80.0	± 9.6 %
		Υ	3.74	66.80	16.91	******	80.0	
		Z	3.80	65.03	16.25		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	3.89	64.93	16.16	2.23	80.0	± 9.6 %
		Υ	3.83	66.43	16.92		80.0	
		Z	3.87	64.98	16.29		80.0	
10658- AAA	Pulse Waveform (200Hz, 10%)	X	14.05	86.04	19.08	10.00	50.0	± 9.6 %
		Υ	3.58	69.28	11.90		50.0	
		Z	8.33	79.49	16.82		50.0	
10659- AAA	Pulse Waveform (200Hz, 20%)	Х	100.00	106.74	22.89	6.99	60.0	± 9.6 %
		Υ	3.69	71.79	11.78		60.0	

10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	104.23	20.43	3.98	80.0	± 9.6 %
		Y	100.00	95.42	16.30		80.0	
		Z	100.00	101.41	19.06		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	Х	100.00	99.34	17.30	2.22	100.0	± 9.6 %
		Y	100.00	88.65	12.65		100.0	
······································		Z	15.45	82.53	12.34		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	X	0.16	60.00	3.79	0.97	120.0	± 9.6 %
7001		Y	0.01	60.00	22597. 33		120.0	
		Z	27.38	213.45	12.35		120.0	

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