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





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Swiss Calibration Service

Accreditation No.: SCS 0108

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Client

UL CCS USA

Certificate No: EX3-3902_May16

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:3902

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

Calibration date:

May 17, 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)

Certificate No: EX3-3902_May16

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: S5277 (20x)	05-Apr-16 (No. 217-02293)	Apr-17
Reference Probe ES3DV2	SN: 3013	31-Dec-15 (No. ES3-3013_Dec15)	Dec-16
DAE4	SN: 660	23-Dec-15 (No. DAE4-660_Dec15)	Dec-16
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (No. 217-02285/02284)	In house check: Jun-16
Power sensor E4412A	SN: MY41498087	06-Apr-16 (No. 217-02285)	In house check: Jun-16
Power sensor E4412A	SN: 000110210	06-Apr-16 (No. 217-02284)	In house check: Jun-16
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Apr-13)	In house check: Jun-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: Claudio Leubler Laboratory Technician

Approved by: Katja Pokovic Technical Manager

Issued: May 19, 2016

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Calibration Laboratory of

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Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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Glossary:

TSL tissue simulating liquid

NORMx,y,z sensitivity in free space

ConvF sensitivity in TSL / NORMx,y,z

DCP diode compression point

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

Polarization φ rotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., $\vartheta = 0$ is normal to probe axis

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

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013

b) IEC 62209-1, "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"

Methods Applied and Interpretation of Parameters:

Certificate No: EX3-3902_May16

- 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).

Page 2 of 11

EX3DV4 - SN:3902 May 17, 2016

Probe EX3DV4

SN:3902

Manufactured:

September 4, 2012

Calibrated:

May 17, 2016

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3902

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.46	0.46	0.46	± 10.1 %
DCP (mV) ^B	99.1	100.1	98.0	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc ⁻ (k=2)
0	CW	X	0.0	0.0	1.0	0.00	134.0	±2.7 %
		Υ	0.0	0.0	1.0	THE	133.7	
		Z	0.0	0.0	1.0		137.0	

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.

EX3DV4- SN:3902 May 17, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3902

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	10.13	10.13	10.13	0.59	0.80	± 12.0 %
900	41.5	0.97	9.54	9.54	9.54	0.35	1.09	± 12.0 %
1750	40.1	1.37	8.33	8.33	8.33	0.39	0.84	± 12.0 %
1900	40.0	1.40	8.10	8.10	8.10	0.32	0.80	± 12.0 %
2300	39.5	1.67	7.92	7.92	7.92	0.35	0.80	± 12.0 %
2450	39.2	1.80	7.38	7.38	7.38	0.33	0.84	± 12.0 %
2600	39.0	1.96	7.07	7.07	7.07	0.39	0.80	± 12.0 %
5250	35.9	4.71	5.21	5.21	5.21	0.35	1.80	± 13.1 %
5600	35.5	5.07	4.38	4.38	4.38	0.50	1.80	± 13.1 %
5750	35.4	5.22	4.82	4.82	4.82	0.45	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.

Page 5 of 11

validity can be extended to \pm 110 MHz.

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3902

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	10.15	10.15	10.15	0.37	0.95	± 12.0 %
900	55.0	1.05	9.75	9.75	9.75	0.36	0.95	± 12.0 %
1750	53.4	1.49	7.92	7.92	7.92	0.29	1.04	± 12.0 %
1900	53.3	1.52	7.89	7.89	7.89	0.35	0.86	± 12.0 %
2300	52.9	1.81	7.64	7.64	7.64	0.34	0.96	± 12.0 %
2450	52.7	1.95	7.47	7.47	7.47	0.38	0.80	± 12.0 %
2600	52.5	2.16	7.19	7.19	7.19	0.28	0.80	± 12.0 %
5250	48.9	5.36	4.42	4.42	4.42	0.45	1.90	± 13.1 %
5600	48.5	5.77	3.69	3.69	3.69	0.55	1.90	± 13.1 %
5750	48.3	5.94	3.95	3.95	3.95	0.55	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.

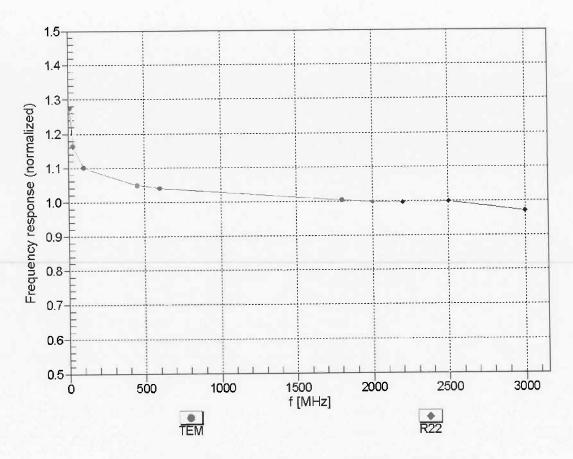
validity can be extended to \pm 110 MHz.

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

the ConvF uncertainty for indicated target tissue parameters.

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.

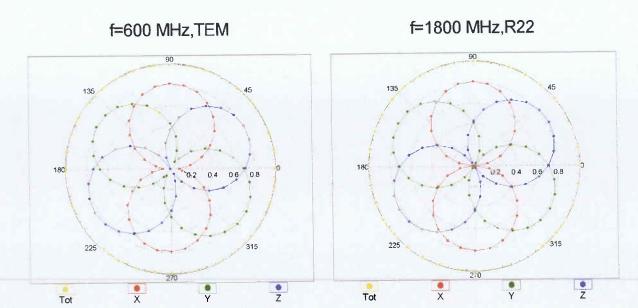
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

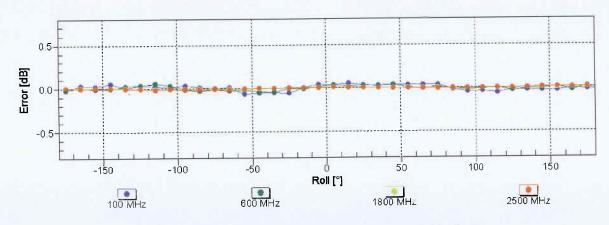


Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

EX3DV4-SN:3902

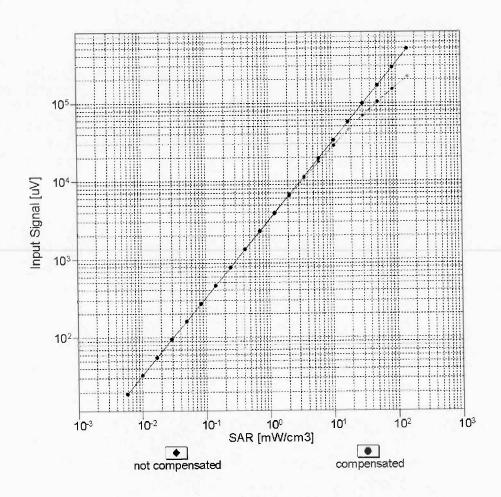
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

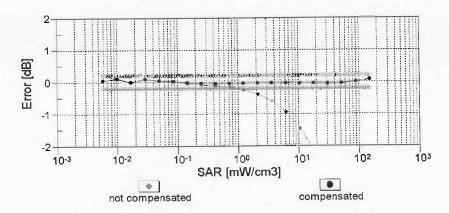




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

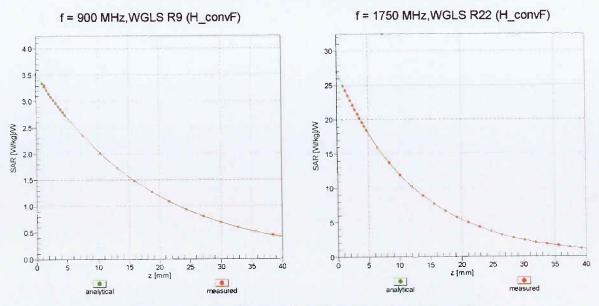
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



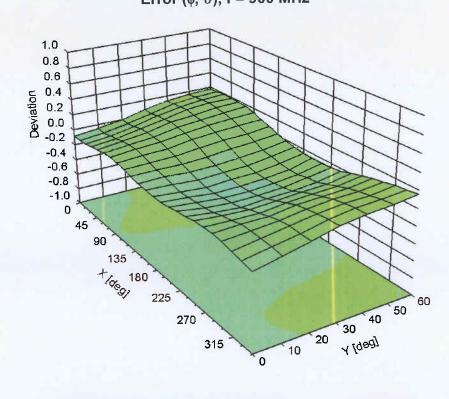


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



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



Page 10 of 11

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3902

Other Probe Parameters

Certificate No: EX3-3902_May16

Sensor Arrangement	Triangular
Connector Angle (°)	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

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Client

UL CCS USA

Certificate No: EX3-3686_Aug16

CALIBRATION CERTIFICATE

Object EX3DV4 - SN:3686

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

Calibration date: August 25, 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: S5277 (20x)	05-Apr-16 (No. 217-02293)	Apr-17
Reference Probe ES3DV2	SN: 3013	31-Dec-15 (No. ES3-3013_Dec15)	Dec-16
DAE4	SN: 660	23-Dec-15 (No. DAE4-660_Dec15)	Dec-16
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-15)	In house check: Oct-16

Name Function Signature
Calibrated by: Leif Klysner Laboratory Technician

Approved by: Katja Pokovic Technical Manager

Issued: August 26, 2016

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Certificate No: EX3-3686_Aug16 Page 1 of 11

Calibration Laboratory of Schmid & Partner

Certificate No: EX3-3686_Aug16

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Glossary:

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

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

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

o 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, "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

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 $f \le 800 \text{ MHz}$) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 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).

Page 2 of 11

Probe EX3DV4

SN:3686

Manufactured: Calibrated:

March 10, 2009 August 25, 2016

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

August 25, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3686

Basic Calibration Parameters

EX3DV4-SN:3686

busio Cambration Fara	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.46	0.48	0.42	± 10.1 %
DCP (mV) ^B	99.0	96.8	100.7	

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	160.0	±3.3 %
		Y	0.0	0.0	1.0		141.5	
		Z	0.0	0.0	1.0		149.7	

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%.

^B Numerical linearization parameter: uncertainty not required.

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

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3686

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	9.47	9.47	9.47	0.46	0.80	± 12.0 %
900	41.5	0.97	9.22	9.22	9.22	0.30	1.09	± 12.0 %
1750	40.1	1.37	8.22	8.22	8.22	0.35	0.80	± 12.0 %
1900	40.0	1.40	7.90	7.90	7.90	0.34	0.80	± 12.0 %
2300	39.5	1.67	7.47	7.47	7.47	0.36	0.80	± 12.0 %
2450	39.2	1.80	7.04	7.04	7.04	0.40	0.80	± 12.0 %
2600	39.0	1.96	6.96	6.96	6.96	0.37	0.88	± 12.0 %
5250	35.9	4.71	5.18	5.18	5.18	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.44	4.44	4.44	0.50	1.80	± 13.1 %
5750	35.4	5.22	4.58	4.58	4.58	0.50	1.80	± 13.1 %

 $^{^{\}rm C}$ 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.

Certificate No: EX3-3686_Aug16

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

the ConvF uncertainty for indicated target tissue parameters.

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3686

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	9.12	9.12	9.12	0.56	0.80	± 12.0 %
900	55.0	1.05	9.12	9.12	9.12	0.43	0.89	± 12.0 %
1750	53.4	1.49	7.74	7.74	7.74	0.42	0.84	± 12.0 %
1900	53.3	1.52	7.46	7.46	7.46	0.45	0.80	± 12.0 %
2300	52.9	1.81	7.37	7.37	7.37	0.40	0.80	± 12.0 %
2450	52.7	1.95	7.12	7.12	7.12	0.40	0.80	± 12.0 %
2600	52.5	2.16	6.97	6.97	6.97	0.29	0.80	± 12.0 %
5250	48.9	5.36	4.34	4.34	4.34	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.67	3.67	3.67	0.55	1.90	± 13.1 %
5750	48.3	5.94	3.87	3.87	3.87	0.60	1.90	± 13.1 %

^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.

Certificate No: EX3-3686_Aug16 Page 6 of 11

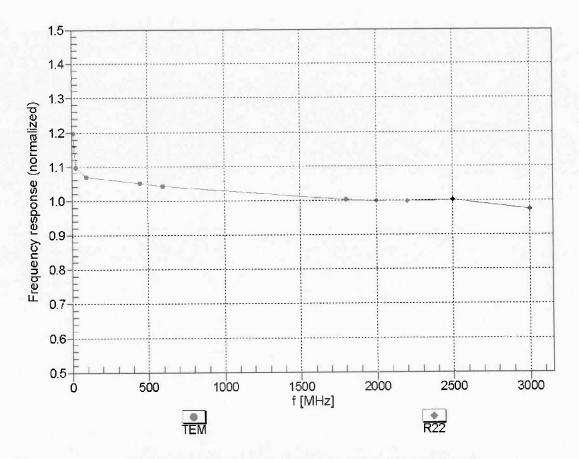
F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to \pm 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to \pm 5%. The uncertainty is the RSS of the ConvF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

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.

August 25, 2016 EX3DV4-SN:3686

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

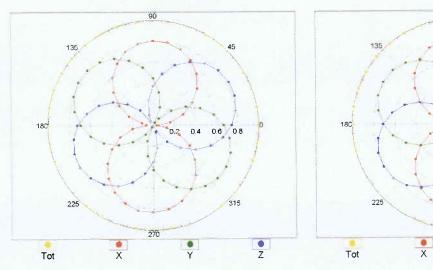


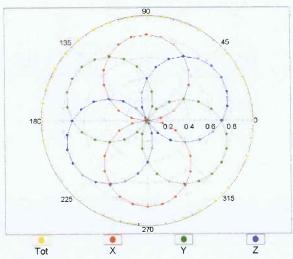
Uncertainty of Frequency Response of E-field: \pm 6.3% (k=2)

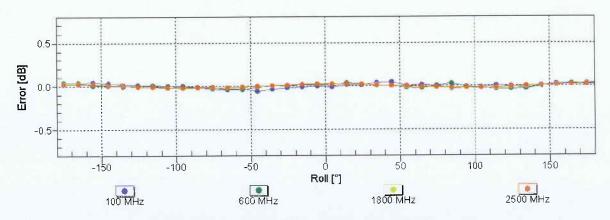
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

f=600 MHz,TEM

f=1800 MHz,R22

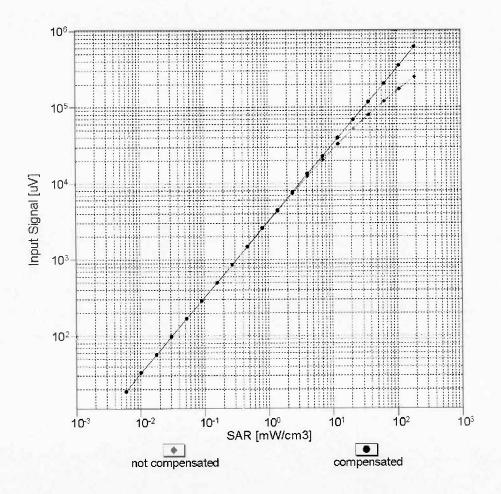


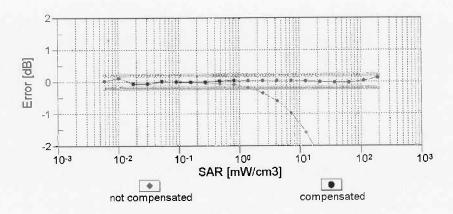




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

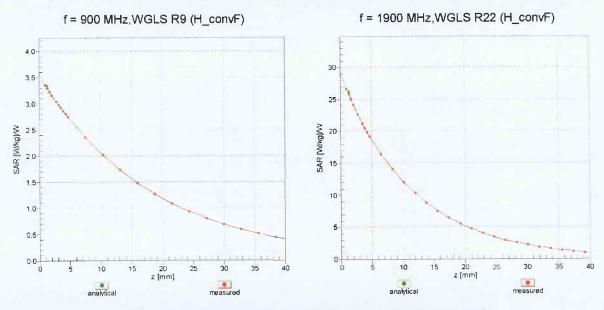
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



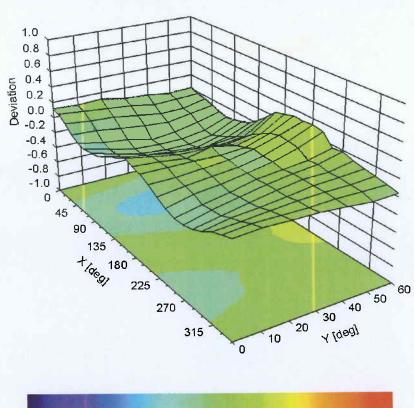


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



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



August 25, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3686

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	34.5
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

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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Client

UL CCS USA

Certificate No: EX3-3772_Feb17

CALIBRATION CERTIFICATE

Object EX3DV4 - SN:3772

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

Calibration date: February 16, 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	10	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: S5277 (20x)	05-Apr-16 (No. 217-02293)	Apr-17
Reference Probe ES3DV2	SN: 3013	31-Dec-16 (No. ES3-3013_Dec16)	Dec-17
DAE4	SN: 660	7-Dec-16 (No. DAE4-660_Dec16)	Dec-17
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17

Calibrated by:

Claudio Leubler

Claudio Leubler

Claudio Leubler

Eunction

Laboratory Technician

Approved by:

Katja Pokovic

Technical Manager

Issued: February 16, 2017

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

Certificate No: EX3-3772_Feb17 Page 1 of 38

Calibration Laboratory of

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





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Glossary:

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

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

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

Polarization φ φ rotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 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, "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"

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: EX3-3772_Feb17 Page 2 of 38

Probe EX3DV4

SN:3772

Manufactured:

January 10, 2011 February 16, 2017

Calibrated:

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3772

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.48	0.54	0.53	± 10.1 %
DCP (mV) ^B	100.4	98.4	99.7	

Modulation Calibration Parameters

UID	Communication System Name		Α	В	С	D	VR	Unc
			dB	dB√μV		dB	mV	(k=2)
0	CW	X	0.0	0.0	1.0	0.00	130.1	±2.7 %
		_ Y	0.0	0.0	1.0		146.8	
		Z	0.0	0,0	1.0		143.6	

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	41.69	310.8	35.71	15.7	0.941	5.006	0.634	0.296	1.005
Υ	48.04	361.6	36.11	18.19	1.308	5.016	0.75	0.492	1.007
Z	47.61	353.7	35.23	14.27	1.163	5.011	1.51	0.251	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%.

B Numerical linearization parameter: uncertainty not required.

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

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

EX3DV4- SN:3772

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3772

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G	Unc (k ⊏2)
750	41.9	0.89	8.85	8.85	8,85	0.50	0.80	± 12.0 %
900	41.5	0.97	9.05	9.05	9.05	0.50	0.80	± 12.0 %
1750	40.1	1.37	7,77	7.7 7	7.77	0.41	0.80	± 12.0 %
1900	40.0	1.40	7.58	7.58	7.58	0.41	0.80	± 12.0 %
2300	39.5	1.67	7.48	7.48	7.48	0.35	0.80	± 12.0 %
2450	39.2	1.80	7.16	7.16	7.16 _	0.37	0.80	± 12.0 %
2600	39.0	1.96	6.84	6.84	6.84	0.37	0.88	± 12.0 %
5250	35.9	4.71	5.13	5.13	5.13	0.30	1.80	± 13.1 %
5600	35.5	5.07	4.56	4.56	4.56	0.35	1.80	± 13.1 %
5750	35.4	5.22	4.75	4.75	4.75	0.40	1.80	± 13.1 %

^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.

⁶ At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to \pm 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to \pm 5%. The uncertainty is the RSS of the ConvE uncertainty for indicated target tissue 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.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3772

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ⁵	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	9.30	9.30	9.30	0.49	0.81	± 12.0 %
900	55.0	1.05	8.95	8.95	8.95	0.51	0.80	± 12.0 %
1750	53.4	1.49	7.61	7.61	7.61	0.38	0.80	± 12.0 %
1900	53.3	1.52	7.32	7.32	7.32	0.39	0.85	± 12.0 %
2300	52.9	1.81	7.16	7.16	7.16	0.42	0.80	± 12.0 %
2450	52.7	1.95	7.07	7.07	7.07	0.38	0.80	± 12.0 %
2600	52.5	2.16	6.84	6.84	6.84	0.35	0.80	± 12.0 %
5250	48.9	5.36	4.48	4.48	4.48	0.35	1.90	± 13.1 %
5600	48.5	5.77	3.93	3.93	3.93	0.40	1.90	± 13.1 %
5750	48.3	5.94	4.22	4,22	4.22	0.40	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.

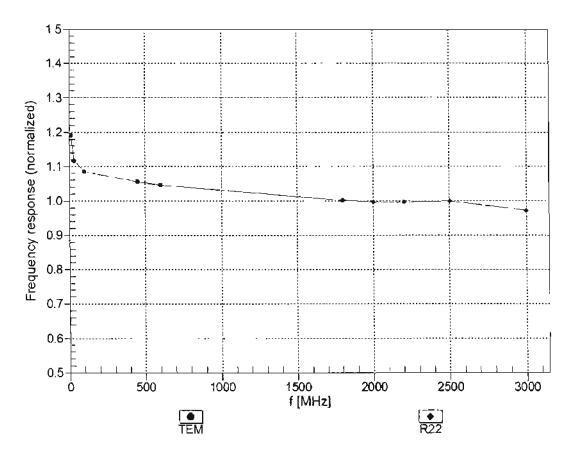
F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConyF uncertainty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

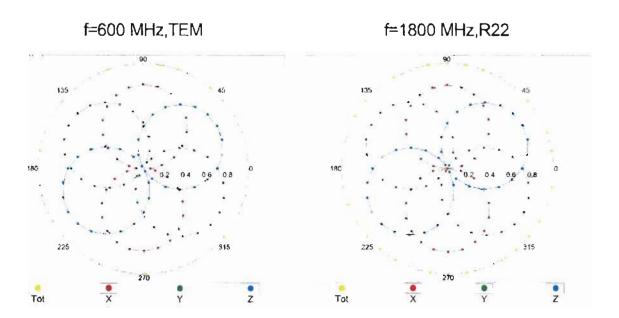
Frequency Response of E-Field

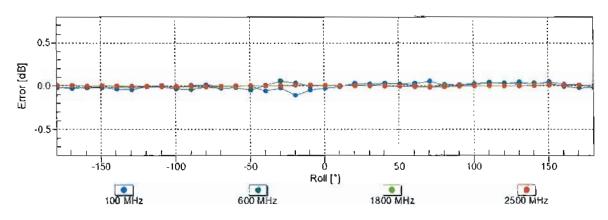
(TEM-Cell:ifi110 EXX, Waveguide: R22)



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

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

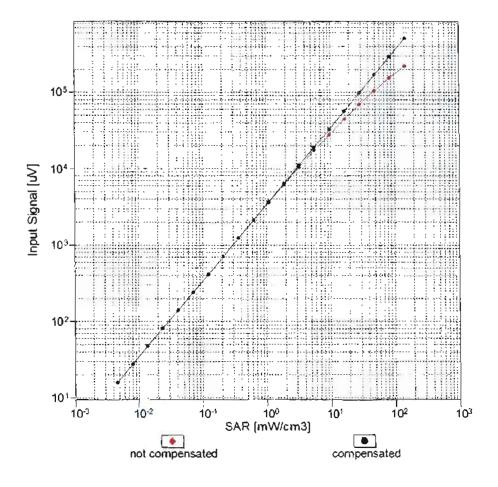


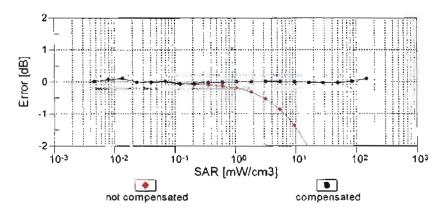


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Dynamic Range f(SAR_{head})

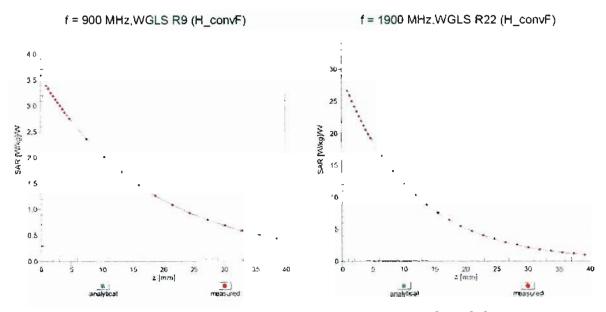
(TEM cell, f_{eval}= 1900 MHz)



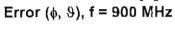


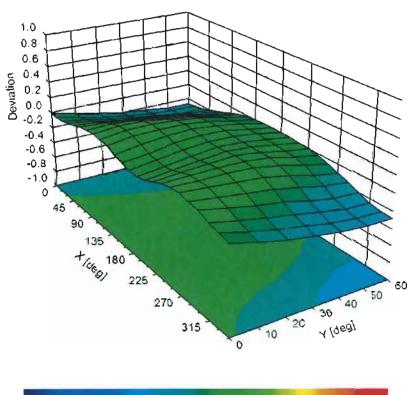
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

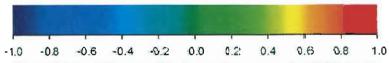
Conversion Factor Assessment



Deviation from Isotropy in Liquid







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

EX3DV4-SN:3772

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3772

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	80.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Appendix: Modulation Calibration Parameters

UID	Communication System Name		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	130.1	± 2.7 %
		Y	0.00	0.00	1.00		146.8	
		Z	0.00	0.00	1.00		143.6	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	×	3.26	68.72	12.17	10.00	20.0	± 9.6 %
		Υ	4.15	71.41	14.01		20.0	
		Z	3.85	70.44	13,39		20.0	
10011- CAB	UMTS-FDD (WCDMA)	Х	1.31	72.36	18.20	0.00	150.0	± 9.6 %
		Υ	1.02	66.82	15.04		150.0	
		Z	0.99	66.09	14.49		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	Х	1.24	65.33	16.41	0.41	150.0	± 9.6 %
		Υ	1.21	63.84	15.14		150.0	
		Z	1.18	63.45	14.77		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	4.83	66.94	17.24	1,46	150.0	± 9.6 %
		Y	4.91	66.61	17.00		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	4.87 100.00	66.54 113.01	16.88 27.29	9.39	150.0 50.0	± 9.6 %
<u> </u>		Υ	85.90	113.90	28.63		50.0	
		Z	47.41	104.79	25.98	<u> </u>	50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	94.70	112.09	27.08	9.57	50.0	± 9.6 %
		Y	45.13	104.91	26.43	_	50.0	
		Z	29.91	98.44	24.33		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	111.01	25.32	6.56	60.0	± 9.6 %
		Υ	100.00	113.18	26.72		60.0	
		Z	100.00	112.62	26.27	ĺ	60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	Х	10.29	95.87	37.53	12.57	50.0	± 9.6 %
		Υ	6.62	80.14	30.14		50.0	
		Z	10.50	95.09	36.99		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	12.43	98.43	34.70	9.56	60.0	± 9.6 %
		Υ	11.16	93.43	32.40		60.0	
		Z	11.64	95.54	33.42		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	111.24	24.67	4.80	80.0	± 9.6 %
		Y_	100.00	112.51	25.64		80.0	
10028-	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	112.31	25.32 24.83	3.55	80.0 100.0	± 9.6 %
DAC		Y	100.00	113.10	25.21		100.0	
	 	Z	100.00	113.13	24.98		100.0	
10029-	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	7.13	85.52	28.80	7.80	80.0	± 9.6 %
DAC		Y	7.13	83.84	27.70	7.00	80.0	20.076
	-	Z	6.86	83.58	27.77		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	109.37	24.11	5.30	70.0	± 9.6 %
		Y	100.00	111.34	25.40		70.0	
		Z	100.00	110.97	25.02		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	115.30	24.42	1.88	100.0	± 9.6 %
-		Y	100.00	113.01	23.86		100.0	
		Z	100.00	112.72	23.50		100.0	

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	100.00	129.14	29.04	1.17	100.0	± 9.6 %
O 7 0 1		Y	100.00	118.56	25.25		100.0	
		ż	100.00	117.95	24.77		100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	14.27	94.54	24 59	5.30	70.0	± 9.6 %
		Υ	8.68	86.78	22.60		70.0	
	1	Z	7.17	84.45	21.79		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	6.41	86.27	20.77	1.88	100.0	± 9.6 %
		Υ	3.18	76.14	17.63		100.0	_
		Z	2.53	73.41	16.52		100.0	
10035- CAA	IEEE 802.15.1 Bluelooth (PI/4-DQPSK, DH5)	Х	4.23	82.29	19.37	1.17	100.0	± 9.6 %
		Υ	2.21	72.71	16.13		100.0	
		Z	1.83	70.50	15.14		100.0	
10036- CAA	IEEE 802.15.1 Bluelooth (8-DPSK, DH1)	X	20.75	100.31	26.31	5.30	70.0	± 9.6 %
		Υ	10.65	90.11	23.75		70.0	
		Z	8.50	87.24	22.79		70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	5.50	84.35	20.14	1.88	100.0	±9.6 %
		Υ	3.00	75.44	17.33		100.0	
		Z	2.40	72.84	16.26		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	4.38	83.12	19.79	1.17	100.0	± 9.6 %
		Υ	2.23	73.07	16.38		100.0	
		Z	1.84	70.75	15.35		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	X	4.93	86.47	20.81	0.00	150.0	±9.6 %
		Υ	1.81	71.68	15.66		150.0	
		Z	1,61	69.91	14.76		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	100.00	109.19	24.75	7.78	50.0	± 9.6 %
		Υ	100.00	111.84	26.37		50.0	
		Z	87.80	109.51	25.48		50.0	1
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	105.19	1.14	0.00	150.0	± 9.6 %
		Υ	0.00	93.06	0.90		150.0	_
		Z	0.01	89.46	0.39		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Stot, 24)	Х	12.16	83.46	20.60	13.80	25.0	± 9.6 %
		Y	12.72	85.49	22.36		25.0	
		Z	11,19	82.29	20.84		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	16.06	88.69	21.15	10.79	40.0	± 9.6 %
		Υ	16.15	90.13	22.60		40.0	
		Z	13.25	86.58	21,11		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	×	16.14	92.31	24.35	9,03	50.0	± 9.6 %
		Y	11.95	87.65	23.44		50.0	
		Z	12.03	87.80	23.33		50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK. TN 0-1-2-3)	X	5.27	79.44	25.65	6.55	100.0	± 9.6 %
		Υ	5.47	78.65	24.91		100.0	1
		Z	5.09	77.76	24.65		100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.32	66.80	17.13	0 61	110.0	± 9.6 %
		Υ	1.27	65.06	15.74		110.0	
		Z	1.23	64.45	15.27		110.0	
10060- CAB	(EEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	138.56	36.10	1.30	110.0	± 9.6 %
	\$5000 m	Y	8.36	97.30	25.27		110.0	

10061-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	X	4.95	88.96	25.15	2.04	110.0	± 9.6 %
CAB	Mbps)							20.070
		Y	3.27	79.81	21.40		110.0	
40000	VECE DOO 44-16-16/15/15 OUT (OFFICE	Z	2.63	76.69	20.17		110.0	
10062- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.64	66.98	16.74	0.49	100.0	± 9.6 %
		Υ	4.70	66.60	16.46		100.0	
10000		Z	4.67	66.53	16.34		100.0	
10063- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.66	67.07	16.83	0.72	100.0	± 9.6 %
		Y	4.72_	 66 .69	16.55		100.0	
40001		Z	4.68	66.61	16.42		100.0	
10064- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.92	67.27	17.01	0.86	100.0	± 9.6 %
		Y	5.01	66.95	16.78		100.0	
40005	IFFE DOD 44 // MISS 5 OUT (OFFI)	Z	4.97	66.88	16.65		100.0	
10065- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	×	4.79	67.15	17.09	1.21	100.0	± 9.6 %
		ΙΥ	4.88	66.86	16.86		100.0	
(0000	NEEE OOO 44 A DAVE - COLOR	Z	4.84	66.77	16.73	<u> </u>	100.0	
10066- CA B	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.81	67.16	17,24	1.46	100.0	± 9.6 %
		Y	4.90	66.89	17.02		100.0	
40067	ICEE 000 44 W INVESTIGATION	Z	4.86	66.80	16.89		100.0	
10067- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.10	67.35	17.66	2.04	100.0	± 9.6 %
		Y	5.20	67.04	17.44	_	100.0	
		Z	5.16	66.97	17.33		100.0	
10068- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.14	67.33	17.84	2.55	100.0	± 9.6 %
		Y	5.26	67.15	17.68		100.0	
		Z	5.22	67.07	17.56		100.0	
10069- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	Х	5.21	67.36	18.03	2.67	100.0	± 9.6 %
		Y	5.34	67.14	17.86		100.0	
		Z	5.30	67.07	17.75		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.93	67.01	17.52	1.99	100.0	± 9.6 %
		[Y	5.01	66.72	17.30		100.0	
		ÌΖ	4.97	66.64	17,18		100.0	
10072- ÇAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.91	67.33	17.72	2.30	100.0	± 9.6 %
		Υ	5.00	67.06	17.51		100.0	
		Z	4.96	66.97	17.38		100.0	
10073- CA B	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.98	67.52	18.04	2.83	100.0	± 9.6 %
		Y	5.08	67.26	17.83		100.0	
		Z	5.03	67.15	17.70		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.98	67.45	18.19	3.30	100.0	± 9.6 %
		Υ	5.08	67.19	17.99		100.0	
		Z	5.02	67.08	17.86		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.03	67.56	18.48	3.82	90.0	± 9.6 %
		Y	5.14	67.38	18.32		90.0	
		Z	5.08	67.25	18.19		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.05	67.41	18.62	4.15	90.0	± 9.6 %
		Υ	5.16	67.19	18.44		90.0	
		Z	5.10	67.08	18.32		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.09	67.50	18.73	4.30	90.0	± 9.6 %
		Y	5.19	67.27	18.54		90.0	
		Z	5.13	67.16	18.42		90.0	1

10081- CAB	CDMA2000 (1xRTT, RC3)	Х	1.35	73.37	15.85	0.00	150.0	±9.6 %
		Y	0.85	65.80	12.60		150.0	
		Z	0.80	64.81	11.96		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	0.87	60.00	4.96	4.77	80.0	± 9.6 %
		_ Y_	0.99	60.00	5.42		80.0	
		Z	0.90	60.00	5.23		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	111.02	25.34	6.56	60.0	± 9.6 %
		Υ	100.00	113.21	26.76		60.0	
		Z	100.00	112.64	26.30		60.0	
10097- CAB	UMTS-FDD (HSDPA)	X	2.08	70.62	17.32	0.00	150.0	± 9.6 %
		Y	1.83	67.42	15.59		150.0	
10000	NATO FOR (LOURA A L	Z	1.78	66.93	15.20		150.0	
10098- CAB	UMTS-FDD (HSUPA, Subtest 2)	X	2.04	70.61	17,32	0.00	150.0	±9.6 %
		Υ	1.79	67.36	15.55		150.0	
10055		Z	1.75	66.88	_15.17		150.0	
10099- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	12.51	98.52	34.72	9.56	60.0	± 9.6 %
	 	Y	11.21	93.47	32.41		60.0	
10100	LITE COR LOCATION CONTRACTOR	Z	11.69	95.59	33.43		60.0	
10100- CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.37	72.19	17.87	0.00	150.0	± 9.6 %
		Υ	3.12	70.07	16.62		150.0	
	<u> </u>	Z	3.05	69.69	16.32		150.0	
10101- CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.30	68.33	16.57	0.00	150.0	± 9.6 %
		Y	3.25	67.39	15.89		150.0	
		Z	3.21	67.22	15.70		150.0	12
10102- CAC	LTE-FDD (SC-FDMA, 100% R8, 20 MHz, 64-QAM)	X	3.40	68.26	16.63	0.00	150.0	± 9.6 %
		Υ	3.36	67.37	15.99		150.0	
		Z	3.32	67.21	15.80		150.0	
10103- CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	6.99	77.25	20.99	3.98	65.0	±9.6 %
		ľΥ	6.82	75.75	20.21		65.0	
		Z	6.33	74.80	19.79		65.0	
10104- CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	6.63	74.60	20.70	3.98	65.0	± 9.6 %
		Υ	6.82	74.12	20.35		65.0	
		Z	6.49	73.58	20.10		65.0	
10105- CAC	LTE-TDD (SC-FDMA, 100% R8, 20 MHz. 64-QAM)	X	6.39	73.77	20.64	3.98	65.0	± 9.6 %
		Y	6.48	73.07	20.19		65.0	
		Z	6.10	72.26	19.81		65.0	
10108- CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	×	2.93	71.51	17.76	0.00	150.0	± 9.6 %
		Y	2.72	69.30	16.44		150.0	
		Z	2.66	68.89	16.12		150.0	
10109- CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.97	68.42	16.57	0.00	150.0	± 9.6 %
		Y	2.91	67.23	15.79		150.0	
10110-	LTE-FDD (SC-FDMA, 100% RB, 5 MHz,	Z	2.87	67.01 70.99	15.57 17.53	0.00	150.0 150.0	± 9.6 %
CAD	QPSK)	+	201	00.00	40.00		450.5	-
		Y	2.21	68.38	16.03		150.0	-
10444	LTE EDD (CO EDLA ACCO) DO ENTI	Z	2.16	67.94	15.68	0.00	150.0	1
10111- CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.77	70.08	17.19	0.00	150.0	± 9.6 %
		Y	2.62	68.06	16.09		150.0	
		Z	2.57	67.65	15.76		150.0	

10112- CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.09	68.37	16.59	0.00	150.0	± 9.6 %
<u> </u>		Y	3.03	67.24	15.86		150.0	
		Z	2.99	67.03	15.64		150.0	
10113- CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.92	70.14	17.26	0.00	150.0	± 9.6 %
		Υ	2.78	68.21	16.23		150.0	
		Z	2.72	67.81	15.90		150.0	
10114- CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.11	67.49	16.73	0.00	150.0	± 9.6 %
		Y	5.15	67.16	16.44		150.0	
		Z	5.12	67.10	16.32		150.0	
10115- CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Х	5.36	67.51	16.74	0.00	150.0	± 9.6 %
		Υ	5.44	67.30	16.52		150.0	
		Z	5.41	67.23	16.40		150.0	
10116- CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.20	67,67	16.75	0.00	150.0	±9.6%
		Υ	5.25	67.36	16.47		150.0	
		Z _	5.21	67.28	16.34		150.0	
10117- CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps. BPSK)	X	5.08	67.36	16.68	0.00	150.0	± 9.6 %
		Υ	5.11	67.02	16.39		150.0	
		Z	5.09	66.97	16.27		150.0	
10118- CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	Х	5.44	67.71	16.85	0.00	150.0	± 9.6 %
		Y	5.53	67,51	16.63		150.0	
		Z	5.49	67.43	16.50		150.0	
10119- CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.18	67.63	16.74	0.00	150.0	± 9.6 %
		Y	5.22	67.30	16.45		150.0	
		Z	5.19	67.23	16.32		150.0	
10140- CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.43	68.27	16.54	0.00	150.0	± 9.6 %
	i i	Y	3.39	67.38	15.91		150.0	
		Z	3.36	67.22	15.73		150.0	
10141- CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.55	68.36	16.70	0.00	150.0	± 9.6 %
		Υ	3.52	67.49	16.09		150.0	
		Z	3.48	67.33	15.90		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.25	71.76	17.44	0.00	150.0	± 9.6 %
		Y	1.99	68.36	15.69		150.0	
		Z	1.93	67.80	15.29		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% R8, 3 MHz, 16-QAM)	X	2.79	71.80	17.17	0.00	150.0	± 9.6 %
		Y	2.49	68.81	15.82		150.0	
		Ż	2.40	68.21	15.40		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.34	68.18	14.93	0.00	150.0	± 9.6 %
		Υ	2.25	66.50	14.19		150.0	
		Z	2.21	66.19	13.93		150.0	
10145- CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.30	66.78	12.27	0.00	150.0	± 9.6 %
		Y_	1.25	65.20	11.96		150.0	
		Z	1,19	64.56	11.53		150.0	
10146- CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	Х	1.60	64.92	10.41	0.00	150.0	± 9.6 %
		Υ	2.08	66.72	12.01		150.0	<u> </u>
		Z	2.04	66.55	11.73		150.0	
10147- CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	1.92	66.91	11.49	0.00	150.0	± 9.6 %
		Y	2.48	68.92	13 17		150.0	
		Z	2.41	68.58	12.81		150.0	

10149- CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.98	68.49	16.62	0.00	150.0	± 9.6 %
		Υ	2.91	67.30	15.84		150.0	
		Z	2.88	67.07	15.61		150.0	
10150- CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.10	68.44	16.64	0.00	150.0	± 9.6 %
		Y	3.04	67.30	15.90		150.0	
		Z	3.00	67.08	15.68		150.0	
10151- CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	7.42	79.86	22.05	3.98	65.0	± 9.6 %
		Υ	7.12	77.88	21.12		65.0	
		Z	6.64	77.03	20.75		65.0	
10152- CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	6.18	74.64	20.35	3.98	65.0	± 9.6 %
		Y	6.33	74.01	20.00		65.0	
		2	6.01	73.43	19.74		65.0	
10153- CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	6.61	75.73	21.18	3.98	65.0	± 9.6 %
		Y	6.73	75.00	20.78		65.0	
		Z	6.37	74.32	20.48		65.0	
10154- CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.47	71.51	17.83	0.00	150.0	± 9.6 %
		Υ	2.26	68.80	16.29		150.0	
		Z	2.20	68.29	15.92		150.0	
10155- CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.78	70.11	17.21	0.00	150.0	± 9.6 %
		Υ	2.62	68.07	16.10		150.0	
		Z	2.57	67.67	15.78		150.0	
10156- CAD	LTE-FOD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	2.17	72.49	17.44	0.00	150.0	±9.6%
		Υ	1.84	68.46	15.50		150.0	
		Z	1.77	67.77	15.03		150.0	
10157- CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	×	2.26	69.38	15.20	0.00	150.0	± 9.6 %
		Y	2.09	67.07	14.24		150.0	
		Z	2.03	66,61	13.90	_	150.0	
10158- CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.93	70.23	17.32	0.00	150.0	± 9.6 %
		Υ	2.78	68.28	16.27		150.0	
		Z	2.72	67.87	15.95	<u>. </u>	150.0	-
10159- CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.40	69.97	15.52	0.00	150.0	± 9.6 %
		Υ	2.20	67.56	14.54		150.0	
_		Z	2.13	67.04	14.17		150.0	
10160- CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.90	70.33	17.38	0.00	150.0	±9.6 %
		Y	2.74	68.44	16.24		150.0	
		Z	2.68	68.06	15.94		150.0	
10161- CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.00	68.47	16.60	0.00	150.0	± 9.6 %
		Υ	2.94	67.24	15.83		150.0	
		Z	2.90	67.01	15.60		150.0	
10162- CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.11	68.64	16.71	0.00	150.0	±9.6 %
		Υ	3.05	67.39	15.94		150.0	
•		Z	3.01	67.16	15.71		150.0	
10166- CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.44	69.90	19.55	3.01	150.0	±9.6 %
		Y	3.67	69.65	19.15		150.0	
		Z	3.65	69.83	19.18		150.0	_
10167- CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.20	73.15	20.14	3.01	150.0	± 9.6 %
CAD	10 00 000	Y	4.60	72.76	19.68		150.0	

10168- CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.77	75.95	21.73	3.01	150.0	± 9.6 %
		Y	5.15	75.24	21.10		150.0	
		Z	5.23	75.95	21.32		150.0	
10169- CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.76	68.70	19.10	3.01	150.0	± 9.6 %
		Y	3.14	69.45	19.05		150.0	
		Z	3.11	69.90	19.24		150.0	
10170- CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	3.76	75.27	21.82	3.01	150.0	± 9.6 %
		Υ	4.49	75.93	21.56		150.0	
_		Z	4.69	77.66	22.21		150.0	
10171- AAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz. 64-QAM)	Х	3.06	70.82	18.84	3.01	150.0	± 9.6 %
		Y	3.62	71.39	18.65		150.0	
		Z	3.70	72.70	19 16		150.0	
10172- <u>CA</u> C	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	9.15	93.28	29.05	6.02	65.0	± 9.6 %
		Y	9.33	90.20	27.45		65.0	
		2	8.91	90.82	27.84		65.0	
10173- CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	17.05	100.39	29.14	6.02	65.0	± 9.6 %
		Υ	14.98	94.71	27.08		65.0	
		Z	18.78	99.79	28.57		65.0	
10174- CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	12.79	94.10	26.62	6.02	65.0	± 9.6 %
		Y	11.41	89.10	24.79		65.0	
		Z	12.20	91.39	25.48		65.0	
10175- CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	2.73	68.40	18.85	3.01	150.0	± 9.6 %
		Y	3.10	69.12	18.79		150.0	
		Z	3.07	69.58	18.99		150.0	
10176- CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	3.77	75.29	21.84	3.01	150.0	± 9.6 %
		Y	4.50	75.96	21.57		150.0	
		Z	4.70	77.68	22.22		150.0	
10177- CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	2.75	68.55	18.94	3.01	150.0	±9.6%
		Y	3.13	69.28	18.89		150.0	
	Ţ	2	3.10	69.74	19.08		150.0	
10178- CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	3.74	75.09	21.73	3.01	150.0	± 9.6 %
		Y	4.45	75.71	21.44		150.0	
		Z	4.64	77.43	22.09		150.0	
10179- CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.38	72.97	20.22	3.01	150.0	±9.6 %
		Υ	4.01	73,49	19.95		150.0	
		Z	4.15	75.01	20.54		150.0	
10180- CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	3.05	70.76	18.79	3.01	150.0	± 9.6 %
		Y	3.61	71.31	18.60	1	150.0	1
		Z	3.69	72.62	19.11		150.0	
10181- CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.75	68.53	18.93	3.01	150.0	± 9.6 %
		Y	3.12	69.26	18.88		150.0	
10182-	LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	X	3.09 3.73	69.72 75.07	19.07	3.01	150.0 150.0	± 9.6 %
CAC	16-QAM)	1		75.00	04.40		450.0	
		Y	4.44	75.69	21.43		150.0	1
1015-		Z	4.64	77.40	22.08		150.0	
10183- AAB	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	3.04	70.73	18.78	3.01	150.0	± 9.6 %
		Υ	3.60	71.29	18.59		150.0	
]	Z	3.68	72.59	19.10		150.0	

10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.76	68.57	18.95	3.01	150.0	± 9.6 %
		Y	3,13	69.31	18.90		150.0	
		Z	3.10	69.76	19.10		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	3.75	75.14	21.75	3.01	150.0	± 9.6 %
		Υ	4.46	75.76	21.47		150.0	
		2	4.66	77,48	22.12		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	3.06	70.80	18.82	3 01	150.0	± 9.6 %
		Υ	3.62	71.36	18.62		150,0	
		Z	3.70	72.67	19.14		150.0	
10187- CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz. QPSK)	Х	2.77	68.63	19.02	3.01	150.0	± 9.6 %
		Υ	3.14	69.36	18.97		150.0	
		Z	3.11	69.82	19.16		150.0	
10188- CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	3.87	75.83	22.15	3.01	150.0	± 9.6 %
		Y	4.62	76.50	21.88		150.0	Ī
		Ζ	4.84	78.27	22.54		150.0	
10189- AAD	LTE-FOD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.13	71.25	19.11	3.01	150.0	± 9.6 %
		Υ	3.71	71.81	18.91		150.0	
		Z	3.80	73.16	19.44		150.0	
10193- CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.51	67.04	16.46	0.00	150.0	± 9.6 %
		Υ	4,54	66.57	16.14		150.0	
		Z	4.52	66.51	16.02		150.0	
10194- CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.67	67.32	16.59	0.00	150.0	± 9.6 %
		Υ	4.71	66.88	16.26		150.0	
		Z	4.69	66.82	16.14		150.0	
10195- CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.71	67.34	16.61	0.00	150.0	± 9.6 %
	,	Y	4.75	66.91	16.28		150.0	
		Z	4.73	66.86	16.16		150.0	
10196- CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.50	67.07	16.47	0.00	150.0	±9.6 %
	1	Υ	4.55	66.63	16.16		150.0	1
		Z	4.52	66.57	16.03		150.0	
10197- CAB	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.68	67.33	16.60	0.00	150.0	± 9.6 %
		Y	4.73	66.90	16.27		150.0	
		Z	4.70	66.84	16.15		150.0	
10198- CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM)	Х	4.70	67.35	16.61	0.00	150.0	± 9.6 %
		Υ	4.76	66.93	16.29		150.0	
		Z	4.73	66.87	16.17		150.0	
10219- CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.46	67.11	16.45	0.00	150.0	± 9.6 %
		_Y	4.50	66.64	16.12		150.0	
		Z	4.47	66.58	15.99		150.0	
10220- CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.67	67.29	16.59	0.00	150.0	± 9.6 %
		_ Y	4.72	66.87	16.26		150.0	
		Z	4.69	66.82	16.14		150.0	
10221- CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	Х	4.71	67.28	16.59	0.00	150.0	± 9.6 %
		Υ	4.77	66.86	16.28		150.0	
		Z	4.74	66.80	16.16		150.0	1
10222-		_			16.68	0.00	150.0	± 9.6 %
	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.05	67.36	10.00	0.50	,,,,,	2 0.0 %
10222- CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	Y	5.05	67.03	16.38	0.00	150.0	10.0 %

10223- CA B	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	Х	5.35	67.57	16.79	0.00	150.0	± 9.6 %
	= = = = = = = = = = = = = = = = = = = =	Y	5.39	67.24	16.51		150.0	
		Z	5.36	67.17	16.39		150.0	
10224- CA 8	IEEE 802.11n (HT Mixed, 150 Mbps, 64- QAM)	X	5.10	67.48	16.66	0.00	150.0	± 9.6 %
		Υ	5.14	67.14	16.37		150.0	
		Z	5.11	67.09	16.25		150.0	
10225-	UMTS-FDD (HSPA+)	X	2.84	67.07	15.85	0.00	150.0	± 9.6 %
CAB		Y	2.81	66.04	15.29		150.0	1 9.0 %
		2	2.79	65.87			150.0	
10226-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	X	18.72	102.19	15.09	6.00	-	1000
CAA	16-QAM)				29.77	6.02	65.0	± 9.6 %
		Y	16.03	96.02	27.57		65.0	
10007	1.75 TOD (00 50144 4 DD 4 4 NUL	Z	20.40	101.36	29.13		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	16.98	98.76	28.06	6.02	65.0	± 9.6 %
		Υ	14.44	92.92	26.04		65.0	
		2	17.49	97.12	27.23		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	10.77	96.68	30.22	6.02	65.0	± 9.6 %
		Υ	<u>11,</u> 38	94.31	28.89		65.0	
		Z	11.34	95.57	29.45		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	17.18	100.50	29.19	6.02	65.0	± 9.6 %
		Y	15.08	94.81	27.12		65.0	
		Z	18.92	99.90	28.61		65.0	
10230- CAB	LTE-TOD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	15.56	97.19	27.52	6.02	65.0	± 9.6 %
<u> </u>		Y	13.61	91.84	25.63	I.	65.0	
		Z	16.28	95.84	26.77		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	10.18	95.48	29.75	6.02	65.0	± 9.6 %
OAD	<u></u>	Y	10.83	93.28	28.47		65.0	+
		Z	10.80	94.55	29.04		65.0	
10232- CAC	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	17.16	100.49	29.18	6.02	65.0	± 9.6 %
0/10	St-Mil)	Y	15.06	94.80	27.11		65.0	
		z	18.89	99.89	28.61		65.0	
10233- CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	15.52	97.17	27.51	6.02	65.0	± 9.6 %
<u> </u>		Y	13.59	91.83	25.63	1	65.0	
	<u> </u>	z	16.26	95.82	26.77		65.0	
10234- CAC	LTE-TDD (SC-FDMA, 1 R8, 5 MHz, QPSK)	X	9.72	94.39	29.27	6.02	65.0	± 9.6 %
		TY	10.37	92.29	28.04		65.0	
		Ż	10.34	93.56	28.60	1	65.0	
10235- CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	17.20	100.55	29.20	6.02	65.0	± 9.6 %
5, 10		Y	15.07	94.83	27.12		65.0	
		Ż	18.93	99.94	28.62		65.0	
10236- CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	15.74	97.37	27.56	6.02	65.0	± 9.6 %
5, 10	27 50 507	Y	13.71	91.95	25.66	1	65.0	
	_	Z	16.45	95.99	26.81		65.0	
10237- CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	10.22	95.58	29.78	6.02	65.0	± 9.6 %
5/10	4. 5.7/	Y	10.86	93.35	28.50		65.0	
		Z	10.83	94.64	29.07		65.0	1
10238-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	X	17.12	100.47	29.18	6.02	65.0	± 9.6 %
CAC	16-QAM)					0.02		1 3.0 %
		Y	15.03	94.78	27.10	-	65.0	-
		Z	18.86	99,87	28.60		65.0	

10220	TE TOD (CC EDIMA A DD AF MILE	T	45.47	07.40	07.50	0.00	05.0	
10239- CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	15.47	97.13	27.50	6.02	65.0	± 9.6 %
		Y	13.55	91.80	25.62		65.0	1
		2	16.21	95.80	26.76		65.0	
10240- CAC	LTE-TDD (SC-FDMA, 1 R8, 15 MHz, QPSK)	X	10.19	95.54	29.77	6.02	65.0	± 9.6 %
		Υ	10.83	93.31	28.48	t-	65.0	
		Z	10.80	94.59	29.05		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	8.54	82.97	25.95	6.98	65.0	± 9.6 %
		Υ	9.06	82.00	25.36		65.0	
		Z	8.90	82.53	25.67		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	8.00	81.62	25.33	6.98	65.0	± 9.6 %
		Υ	8.30	80.17	24.55		65.0	
		Z	7.93	80.15	24.64		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	6.35	77.74	24.66	6.98	65.0	± 9.6 %
		Y	6.67	76.86	24.06		65.0	
		Z	6.31	76.41	23.97		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	5.38	73.60	16.79	3.98	65.0	± 9.6 %
		Y	6.17	74.81	17.85		65.0	
		Z	5.78	74.30	17.58		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	5.21	72.88	16.44	3.98	65.0	± 9.6 %
		Y	6.05	74.27	17.58		65.0	
		Z	5.67	73.77	17.31		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	5.83	78.09	18.99	3.98	65.0	± 9.6 %
		Y	5.73	76.99	18.94		65.0	
		Z	5.10	75.65	18.39		65.0	
10247- CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	5.22	73.88	18.03	3.98	65.0	± 9.6 %
		Y	5.43	73.61	18.23	1	65.0	
		Z	5.02	72.74	17.83		65.0	İ
10248- CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	5.15	73.21	17.73	3.98	65.0	± 9.6 %
		Y	5.42	73.13	18.01		65.0	
		Z	5.05	72.34	17.65		65.0	
10249- CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	7.80	83.21	21.99	3.98	65.0	± 9.6 %
		Y	6.94	80.18	21.04		65.0	
		Z	6.18	78.77	20.48		65.0	
10250- CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	6.42	77.37	21.35	3.98	65.0	± 9.6 %
		Υ	6.43	76.27	20.90		65.0	
		Z	5.98	75.31	20.48		65.0	
10251- CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	5.98	74.92	19.96	3.98	65.0	± 9.6 %
		Υ	6.12	74.23	19.72		65.0	
		Z	5.77	73.57	19.42	1	65.0	
10252- CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	8.04	83.38	23.24	3.98	65.0	± 9.6 %
		Υ	7.30	80.32	22.01		65.0	
		Z	6.65	79.14	21.54		65.0	
10253- CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	6.06	74.15	20.09	3.98	65.0	± 9.6 %
		Υ	6.20	73.51	19.77		65.0	
		Z	5.89	72.94	19.52		65.0	
10254- CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	6.44	75.12	20.82	3.98	65.0	± 9.6 %
					_1	1		
CAC		Y	6.58	74.43	20.48		65.0	

10255- CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	7.07	79.23	22.00	3.98	65.0	± 9.6 %
		Y	6.84	77.36	21.12		65.0	
		Z	6.38	76.51	20.76		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	3.84	68.61	13.45	3.98	65.0	± 9.6 %
		Y	4.84	70.99	15.24	1	65,0	
		Z	4.50	70.46	14.92		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	3.73	67.92	13.03	3.98	65.0	± 9.6 %
		Y	4.73	70.35	14.86		65.0	
		Z	4.40	69.84	14.56		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz. QPSK)	Х	3.89	71.65	15.38	3.98	65.0	± 9.6 %
		. Y	4.41	72.69	16.39		65.0	
		Z	3.95	71.58	15.89		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	5.71	75.28	19.27	3.98	65.0	± 9.6 %
		Y	5.83	74.61	19.20		65.0	
		Z	5.40	73.72	18.80		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	5.70	74.91	19.12	3.98	65.0	± 9.6 %
		Y	5.85	74.37	19.11		65.0	
		Z	5.44	73.52	18.72		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	7.45	82.33	22.16	3.98	65.0	± 9.6 %
		Y	6.77	79.50	21.18		65.0	
		Z	6.11	78.24	20.68		65.0	
10262- CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	6.40	77.30	21.30	3.98	65.0	± 9.6 %
		Y	6.42	76.21	20.86		65.0	
		Z	5.97	75.26	20.44		65.0	
10263- CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	5.97	74.89	19.96	3.98	65.0	± 9.6 %
		Y	6.11	74.21	19.71		65.0	
		Z	5.76	73.54	19.42		65.0	
10264- CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Х	7.94	83.14	23.13	3.98	65.0	± 9.6 %
		Y	7.23	80.14	21.92		65.0	
		Z	6.60	78.98	21.45		65.0	
10265- CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	6.18	74.65	20.36	3.98	65.0	± 9.6 %
		Y	6.33	74.01	20.00		65.0	
		Z	6.00	73.43	19.74	_	65.0	
10266- CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	6.60	75.72	21.17	3.98	65.0	± 9.6 %
		Y	6.73	74.99	20.77		65.0	
		Z	6.37	74.31	20.47		65.0	
10267- ÇAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	7.40	79.81	22.03	3.98	65.0	± 9.6 %
		Y	7.11	77.84	21.10		65.0	
		Z	6.63	76.99	20.74		65.0	
10268- CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.77	74.46	20.74	3.98	65.0	± 9.6 %
		Y	6.96	73.99	20.41		65.0	
		Z	6.64	73.45	20.16		65.0	
10269- CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	6.74	74.04	20.61	3.98	65.0	± 9.6 %
		Y	6.94	73.62	20.31		65.0	
		Z	6.63	73.10	20.07		65.0	
10270- CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.99	76.65	20.97	3.98	65.0	± 9.6 %
		Y	6.98	75.55	20.35		65.0	
		Z	6.60	74.88	20.04		65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	×	2.69	67.82	15.99	0.00	150.0	± 9.6 %
		Υ	2.60	66.37	15.19		150.0	
		Z	2.57	66.17	14.98		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.87	71.23	17.47	0.00	150.0	± 9.6 %
		Y	1.60	67.54	15.41		150.0	
		Z	1.56	67.00	15.00		150.0	
10277- CAA	PHS (QPSK)	X	2.46	62.02	7.59	9.03	50.0	± 9.6 %
		Υ	2.96	63.41	9.06		50.0	
		Z	2.83	63.10	8.74		50.0	· <u> </u>
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	4.30	69.69	13.97	9.03	50.0	± 9.6 %
		Υ	5.27	72.48	16.03		50.0	
		Z	5.05	71.99	15.66		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	4.40	69.94	14.13	9.03	50.0	± 9.6 %
		Υ	5.39	72.71	16.17		50.0	
		Z	5.17	72.24	15.81		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	2.26	75.70	16.72	0.00	150.0	± 9.6 %
		Υ	1.44	68.45	13.94		150.0	
		Z	1.33	67.33	13.30		150.0	
1029 1 - AA B	CDMA2000, RC3, SO55, Full Rate	X	1.28	72.72	15.56	0.00	150.0	± 9.6 %
		Y	0.83	65.59	12.48		150.0	
		Z	0.78	64.63	11.85		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	Х	6.96	96.87	24.14	0.00	150.0	± 9.6 %
		Υ	1.06	69.72	14.88		150.0	<u> </u>
		Z	0.94	67.77	13.82		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	100.00	136.66	34.48	0.00	150.0	± 9.6 %
- + -		Υ	1.66	76.22	18.11		150.0	
		Z	1.29	72.29	16.31		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	Х	10.57	85.26	23.06	9.03	50.0	± 9.6 %
, , , ,		Υ	8.51	81.51	22.32		50.0	
		Z	8.18	81.05	22.07		50.0	_
10297- AAB	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.95	71.64	17 84	0.00	150.0	± 9.6 %
		Υ	2.74	69.40	16.50		150.0	
		Z	2.67	68.98	16.18		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.88	71.38	15.69	00.00	150.0	± 9.6 %
		Y	1.56	67.46	14.06		150.0	
		Z	1.49	66.67	13.56		150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	2.65	70.65	14.30	0.00	150.0	± 9.6 %
		Y	2.79	70.03	14.51		150.0	
		Z	2.78	70.01	14.31		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	1.70	64.43	10.59	0.00	150.0	± 9.6 %
		Y	2.06	65.35	11.58		150.0	
		Z	2.04	65.35	11.42		150.0	
10301- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.84	66.54	18.04	4.17	50.0	± 9.6 %
	<u></u>	Y	4.95	66.16	17.82		50.0	
		Z	4.89	66.00	17.70		50.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms. 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.22	66.68	18.50	4.96	50.0	± 9.6 %
		Y	5.36	66.38	18.30		50.0	
		Z	5,32	66.40	18.30		50.0	_

40200	IEEE 000 40 - WILLIAM (04 45 5							
10303- AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.98	66.37	18.35	4.96	50.0	± 9.6 %
		Y	5.13	66.10	18.18		50.0	
		Z	5.08	66.10	18.16	_	50.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	Х	4.78	66.23	17.84	4.17	50.0	± 9.6 %
		Y	4.90	65.86	17.61		50.0	
		Z	4.86	65.82	17.56		50.0	
10305- AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.74	69.69	20.51	6.02	35.0	± 9.6 %
		Y	4.96	69.63	20.58		35.0	
	_	Z	4.84	69.37	20.49		35.0	
10306- AAA	1EEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.87	67.85	19.77	6.02	35.0	± 9.6 %
		Y	5.06	67.76	19.78		35.0	
		Z	4.98	67.61	19.71		35.0	_
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	Х	4.79	68.12	19.79	6.02	35.0	± 9.6 %
		Y	5.01	68.12	19.83		35.0	
		Z	4.92	67.93	19.75		35.0	
10308- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	Х	4.79	68.43	19.99	6.02	35.0	± 9.6 %
		Y	5.00	68.41	20.01		35.0	
		Z	4.91	68.21	19.93		35.0	
10309- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.91	68.02	19.90	6.02	35.0	± 9.6 %
		Y _	5.12	67.98	19.92		35.0	
		Z	5.05	67.84	19.87		35.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Х	4.83	67.99	19.79	6.02	35.0	± 9.6 %
		Y	5.03	67.91	19.79		35.0	
		Z	4.95	67.74	19.72		35.0	
10311- AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	3.33	70.70	17.36	0.00	150.0	± 9.6 %
	_	Υ	3.10	68.73	16.17		150.0	
) Z	3.03	68.35	15.88	y a	150.0	
10313- AAA	iDEN 1:3	Х	4.60	75.43	17.00	6.99	70.0	± 9.6 %
		Y	4.26	73.41	16.33		70.0	
		Z	3.67	72.12	15.78		70.0	
10314- AAA	iDEN 1:6	X	7.12	84.44	23.04	10.00	30.0	± 9.6 %
		Y	5.47	79.06	21.22		30.0	
		Z	4.63	76.82	20.32	_	30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.15	65.35	16.47	0.17	150.0	±9.6 %
		Y	1.11	63.66	15.05		150.0	
		Z	1.09	63.28	14.65		150.0	=
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Х	4.55	67.00	16.54	0.17	150.0	± 9.6 %
		Y	4.60	66.59	16.24		150.0	
		Z	4.57	66.53	16.11		150.0	
10317- AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.55	67.00	16.54	0.17	150.0	± 9.6 %
		Y	4.60	66.59	16.24		150.0	
		Z	4.57	66.53	16.11		150.0	
10400- AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	4.65	67.36	16.58	0.00	150.0	± 9.6 %
		Υ	4.70	66.93	16.25		150 0	
		Z	4.68	66.88	16.14		150.0	
10401- AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.34	67.37	16.66	0.00	150.0	± 9:6 %
		Y	5.41	67.14	16.43		150.0	
	I .		0.71				100.0	

February 16, 2017

10402- AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	Х	5.61	67.68	16.68	0.00	150.0	± 9.6 %
		Υ	5.66	67.43	16.44		150.0	
		Z	5.63	67.39	16.33		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	2.26	75.70	16.72	0.00	115.0	± 9.6 %
7010	-	Υ	1.44	68.45	13.94		115.0	
		Z	1.33	67.33	13.30		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	2.26	75.70	16.72	0.00	115.0	± 9.6 %
AAU		Υ	1.44	68.45	13.94		115.0	
		Z	1.33	67.33	13.30		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	124.15	30.98	0.00	100.0	± 9.6 %
		Υ	84.46	118.62	29.73		100.0	
		Z	100.00	117.90	28.58		100.0	
10410- AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	122.00	30.03	3.23	80.0	± 9.6 %
		Υ	34.30	105.38	26.16		80.0	
		Z	37.08	106.34	26.08		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	Х	1.06	64.43	15.93	0.00	150.0	± 9.6 %
		Υ	1.02	62.80	14.52		150.0	
	<u> </u>	Z	1.01	62.57	14.19		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	Х	4.51	67.06	16.54	0.00	150.0	± 9.6 %
		Y	4.55	66.61	16,20		150.0	
		Z	4.52	66.55	16.08		150.0	
10417- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	Х	4.51	67.06	16.54	0.00	150.0	± 9.6 %
		Υ	4.55	66.61	16.20		150.0	
		Z	4.52	66.55	16.08		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.50	67.26	16.59	0.00	150.0	± 9.6 %
		Y	4.54	66.76	16.23		150.0	
		Z	4.51	66.71	16,10		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.52	67.19	16.57	0.00	150.0	± 9.6 %
		Υ	4.56	66,71	16.23		150.0	
		Z	4.53	66.66	16,10		150.0	
10422- AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.63	67.16	16.57	0.00	150.0	± 9.6 %
		Y	4.67	66.71	16.24	1.	150.0	
		Z	4.65	66.66	16.12		150.0	
10423- AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	Х	4.78	67.44	16.67	0.00	150.0	± 9.6 %
		Υ	4.84	67.03	16.35		150.0	
		Z	4.81	66.97	16.24		150.0	
10424- AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	×	4.70	67.41	16.65	0.00	150.0	± 9.6 %
		İΥ	4.76	66.98	16.33	!	150.0	
		Z	4.73	66.92	16.21		150.0	
10425- AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.30	67.57	16.77	0.00	150.0	± 9.6 %
		Y	5.36	67.29	16.51		150.0	
		Z	5.32	67.21	16.38		150.0	
10426- AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.32	67.65	16.81	0.00	150.0	± 9.6 %
		Y	5.37	67.32	16.52		150.0	
		Z	5.33	67.24	16.39	1	150.0	

10427- AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	5.31	67.55	16.75	0.00	150.0	± 9.6 %
		Y	5.38	67.30	16.51		150.0	
		Z	5.34	67.23	16.38		150.0	
10430- AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.48	72.73	19.06	0.00	150.0	± 9.6 %
		Υ	4.30	70.97	18.28	•	150.0	
		Z	4.17	70.32	17.82		150.0	
10431- AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.18	67.79	16.58	0.00	150.0	± 9.6 %
		Y	4.22	67,14	16.19		150.0	
40.100		Z	4.19	67.05	16.05		150.0	
10432- AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.48	67.54	16.63	0.00	150.0	± 9.6 %
_		Y	4.52	67.02	16.27		150.0	
10433-	LTE FOR (OFRICA 20 MILE F TM 2.4)	Z	4.50	66.95	16.14		150.0	1000
AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.72	67.44	16.67 16.35	0.00	150.0	± 9.6 %
		Z	4.77	66.95	16.33		150.0	_
10434-	W-CDMA (8S Test Model 1, 64 DPCH)	X	4.75	74.07	19.16	0.00	150.0	± 9.6 %
AAA	W-CDIVIA (65 Test Model 1, 64 DFCH)	Y	4.42	71.88	18.26	0.00	150.0	£ 9.6 %
		Z	4.25	71.09	17.75		150.0	
10435- AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	121.70	29.89	3.23	80.0	± 9.6 %
770	Q1 GR, OE Obbitative=2,3,4,7,0,0)	Y	31.31	104.01	25.77		80.0	_
		Z	33.52	104.86	25.66		80.0	
10447- AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.50	68.06	15.90	0.00	150.0	± 9.6 %
7001	Cupping 1170,	Y	3.51	67.12	15.49		150.0	
		Z	3.47	66.96	15.31		150.0	
10448- AAA	LTE-FDD (OFDMA, 10 MHz. E-TM 3.1, Clippin 44%)	X	4.03	67.59	16.45	0.00	150.0	±9.6 %
		Y	4.06	66.92	16.05		150.0	
		Z	4.03	66.83	15.91		150.0	
10449- AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.30	67.38	16.54	0.00	150.0	± 9.6 %
		Υ	4.34	66.85	16.17		150.0	
		Z	4.31	66.77	16.04		150.0	
10 4 50- AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.50	67.23	16.54	0.00	150.0	± 9.6 %
		Y	4.53	66.78	16.20	_	150.0	
		Z	4.51	66.72	16.08		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.38	68.23	15.44	0.00	150.0	± 9.6 %
		Y	3.39	67.28	15.09	ļ	150.0	
40450	ADDE 000 445 - 1885: 7400141 - 04 0 144	Z	3.35	67.08	14.90	0.00	150.0	+060/
10456- AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duly cycle)	X	6.22	68.15	16.93	0.00	150.0	±9.6 %
		<u>Y</u>	6.23	67.84	16.67		150.0	
1015~	THE FOR (DO HOSE)	Z	6.19	67.79	16.55	0.00	150.0	+0.50/
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.80	65.72	16.26	0.00	150.0	± 9.6 %
		Y	3.81	65.25	15.91		150.0	
10458-	CDMA2000 (1xEV-DO, Rev. 8, 2	Z X	3.79 3.14	65.21 67.27	15.79 14.58	0.00	150.0 150.0	± 9.6 %
AAA	carriers)	Y	3.21	66.59	14.47		150.0	
		Y	3,21	66.45	14.47		150.0	+
10459-	CDMA2000 (1xEV-DO, Rev. B, 3	X	4.23	65.60	15.66	0.00	150.0	± 9.6 %
AAA	carriers)	Y	4.27	64.83	15.40		150.0	
						-	150.0	-
		Z	4.25	64.83	15.33		130.0	

February 16, 2017

10460-	UMTS-FDD (WCDMA, AMR)	Х	1.24	74.97	19.96	0.00	150.0	± 9.6 %
AAA		Υ	0.89	67.38	15.76		150.0	
		Z	0.85	66.41	15.05		150.0	
10461-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	X	100.00	126.47	32.15	3.29	80.0	± 9.6 %
AAA	QPSK, UL Subframe=2,3.4.7,8,9)					3.29		19.0 %
		Y	17.84	99.09	25.34		80.0	
		Z	10.61	92.80	23.48		80.0	_
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.40	64.49	10.31	3.23	80.0	± 9.6 %
		Υ	2.19	67.01	11.98		80.0	
		Z	1.52	64.10	10.26		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.91	60.27	7.78	3.23	80.0	± 9.6 %
		Υ	1.54	63.11	9.81		0.08	
		Z	1.13	61.04	8.35		80.0	
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	123.29	30.53	3.23	80.0	±9.6 %
		Y	13.07	93.70	23.27		80.0	
		Ż	8.11	88.21	21.52		80.0	
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	1.24	63.35	9.74	3.23	80.0	± 9.6 %
•	and an analysis and the late.	Y	1.96	65.84	11.43		80.0	
		Z	1.40	63.28	9.83		80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.88	60.00	7.59	3.23	80.0	± 9.6 %
7001	Gran, 62 666 and 2,6,4,7,6,6)	Υ	1.46	62.53	9.49		80.0	
		Z	1.09	60.65	8.11		80.0	_
10467- AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.65	30.68	3.23	80.0	± 9.6 %
7012	Q1 014 02 000 (0110 210; (17 1010)	Υ	14.83	95.46	23.78		80.0	
		Ż	8.96	89.59	21.96		80.0	
10468- AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	1.28	63.66	9.90	3.23	80.0	± 9.6 %
74B	QAIVI, OL SUBILATITE-2,3,4,7,0,3)	Y	2.01	66.13	11.57		0.08	
	· -	Z	1,42	63.48	9.94		80.0	
10469- AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.88	60.00	7.59	3.23	80.0	± 9.6 %
740	Q/NM, OE Outstante=2,0,4,7,0,0)	Y	1.46	62.55	9.50		80.0	
		Ż	1.08	60.66	8.11		80.0	
10470- AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.67	30.68	3.23	80.0	± 9.6 %
7000	Q: O(; O E O D D II O II O E O C O C O C O C O C O C O C O C O C	Υ	14.89	95.53	23.80		80.0	
		Z	8.97	89.64	21.97		80.0	
1047 1 - AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	1.27	63.59	9.85	3.23	80.0	± 9.6 %
	,	Υ	2,00	66.07	11.53		80.0	
		Z	1.42	63.43	9.90	1	80.0	
10472- AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.88	60.00	7.58	3.23	80.0	± 9.6 %
		Υ	1.45	62.51	9.48		80.0	
		Z	1.08	60.63	8.08		80.0	
10473- AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.63	30.67	3.23	80.0	± 9.6 %
_		Y	14.82	95.46	23.77		80.0	
		Z	8.95	89.59	21.95		80.0	
10474- AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subírame=2,3,4,7,8,9)	X	1.27	63.55	9.84	3.23	80.08	± 9.6 %
		Y	1.99	66.04	11.52		80.0	
		Z	1.41	63.40	9.89	1	80.0	
10475-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-	X	0.88	60.00	7.58	3.23	80.0	± 9.6 %
	OAM UL Subframe=2.3.4.7.8.9\			1	1	1	1	1
10475- AAB	QAM, UL Subframe=2,3,4,7,8,9)	Y	1.45	62.49	9.47	_	80.0	-

EX3DV4-SN:3772

10477- AAB	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	1.23	63.29	9.70	3.23	80.08	± 9.6 %
	1000	Υ	1.95	65.80	11.40		80.0	
		Z	1.39	63.23	9.79		80.0	
10478- AAB	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	88.0	60.00	7.57	3.23	80.0	± 9.6 %
		Υ	1.44	62.45	9.44		80.0	
		Z	1.07	60.58	8.05		80.0	.[
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	14.78	96.29	25.69	3.23	80.0	± 9.6 %
		Υ	6.27	81.78	21.29		80.0	
10.100		Z	5.16	79.42	20.41		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	8.73	82.81	19.37	3.23	80.0	± 9.6 %
		Y	5.79	76.48	17.74		80.0	
40404	LTE TOO (OO FOLIA SON FOLIA LIII	Z	5.00	75.06	17.05		80.0	<u> </u>
10481- AAA	LTE-TDD (SC-FDMA, 50% R8, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.57	76.54	16.87	3.23	80.0	± 9.6 %
		Y	4.79	73.53	16.31		80.0	
10100	LITE TOO GO SOME TOO SOME	Z	4.14	72.17	15.61		80.0	
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.42	73.64	16.89	2.23	80.0	± 9.6 %
		Y	2.79	69.85	15.66		80.0	
40.400	LITTE TOP (OO EDIA)	Z	2.41	68.14	14.86		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	3.73	71.14	15.18	2.23	80.0	± 9.6 %
		Υ	3.94	71.00	15.69		80.0	
		Z	3.47	69.69	15.07		80.0	İ
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subfrarne=2,3,4,7,8,9)	X	3.43	69.90	14.68	2.23	80.0	± 9.6 %
		Υ	3.76	70.17	15.35		80.0	
		Z	3.34	68.99	14.78		80.0	
10485- AAB	LTE-TDD (SC-FDMA, 50% R8, 5 MHz. QPSK, UL Subframe=2,3,4,7,8,9)	X	4.07	76.48	19.20	2.23	80.0	± 9.6 %
		Y	3.22	71.68	17.34		80.0	
		Z	2.82	69.97	16.55	_	80.0	
10486- AA B	LTE-TDD (SC-FDMA, 50% R8, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.38	70.34	16.10	2.23	80.0	± 9.6 %
		Υ	3.17	68.38	15.48		80.0	
		Z	2.89	67.29	14.93		80.0	
10487- AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.33	69.77	15.84	2.23	80.0	± 9.6 %
		Υ	3.18	68.06	15.33		80.0	
		Z	2.91	67.03	14.80		80.0	<u> </u>
10488- AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.04	74,71	19.50	2.23	80.0	± 9.6 %
		Y	3.61	71.53	17.99		80.0	
		Z	3.27	70.24	17.37		80.0	
10489- AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.69	70.29	17.63	2.23	80.0	± 9.6 %
		Y	3.57	68.62	16.82		80.0	1
		Z	3.34	67.76	16.36		80.0	
10490- AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.76	70.04	17.53	2.23	80.0	± 9.6 %
		Y	3.66	68.50	16.79		0.08	
		Z	3.44	67.69	16.35		80.0	A
10491- AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.09	72.47	18.79	2.23	80.0	± 9.6 %
		Υ	3.88	70.42	17.70		80.0	
		Z	3.61	69.47	17.21		80.0	
10492- AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.96	69.21	17.56	2.23	80.0	± 9.6 %
		Υ	3.94	68.11	16.94		80.0	
		Z	3.74	67.45	16.57		80.0	

40400	LITE TOO (CO FOMA FOR DO 45 MILE		1.00	00.04	47.40	0.00	00.0	1.0.0.0/
10493- AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.02	69.04	17.49	2.23	80.0	± 9.6 %
		Y	4.01	68.01	16.91		80.0	
		Z	3.82	67.38	16.55		80.0	
10494- AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.49	74.13	19.32	2.23	80.0	± 9.6 %
	69	Y	4.15	71.68	18.06		80.0	
		Z	3.82	70.59	17.53		80.0	
10495- AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)_	X	4.00	69.56	17.77	2.23	80.0	± 9.6 %
		Y	3.97	68.45	17.11		80.0	
10496- AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.76 4.06	67.77 69.25	16.73 17.67	2.23	80.0 80.0	± 9.6 %
, , , ,		Y	4.06	68.24	17.06		80.0	
		2	3.85	67.59	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	1.99	66.49	12.71	2.23	80.0	±9.6 %
		Υ	2.04	65.87	12.98		80.0	
		Z	1.79	64.57	12.31		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	X	1.35	60.15	8.47	2.23	80.0	± 9.6 %
		Y	1.70	61.61	9.91		80.0	
		Z	1.58	61.03	9.54		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.35	60.00	8.24	2.23	80.0	± 9.6 %
		Y	1.66	61.17	9.54		80.0	
		2	1,55	60.64	9.20		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.97	75.44	19.22	2.23	80.0	± 9.6 %
		İΥ	3.34	71.40	17.53		80.0	
		Z	2.98	69.93	16.84		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.56	70.54	16.78	2.23	80.0	± 9.6 %
		Y	3.36	68.56	16.03		80.0	ļ
10502- AAA	LTE-TDD (SC-FDMA, 100% R8, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.10 3.59	67.57 70.28	15.52 16.60	2.23	80.0	± 9.6 %
AAA	04-QAM, OL Subitatite=2,5,4,7,8,9)	Y	3.41	68.44	15.93		80.0	1
		Z	3.16	67.49	15.43		80.0	
10503- AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.98	74.48	19.39	2.23	80.0	± 9.6 %
		Υ	3.57	71.35	17.90		80.0	
		Z	3.24	70.09	17.29		80.0	
10504- AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.67	70.18	17.56	2.23	80.0	± 9.6 %
		Y	3.55	68.53	16.77		80.0	
10===	1 TO TOP 100 CP 11	Z	3.33	67.69	16.31		80.0	
10505- AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3,74	69.93	17.46	2.23	80.0	± 9.6 %
		Y	3.65	68.41	16.74	-	80.0	
40000	\	Z	3.42	67.62	16,30	0.00	80.0	
10506- AAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.45	73.96	19.24	2.23	80.0	± 9.6 %
		Y	4.12	71.55	18.00		80.0	+
1055	175 777 100 7711 10111 10111	Z	3.80	70.48	17.47		80.0	+
10507- AAB	LTE-TDD (SC-FDMA, 100% R8, 10 MHz, 16-QAM, UL Subframe=2,3.4,7,8,9)	×	3.98	69.50	17.73	2.23	80.08	± 9.6 %
		Υ	3.96	68.39	17.08		80.0	
		Z	3.75	67.71	16.69		80.0	

10508- AAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.05	69.17	17.62	2.23	80.0	± 9.6 %
		Υ	4.04	68.17	17.02		80.0	
		Z	3.84	67.53	16.66		80.0	
10509- AAB	LTE-TDO (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.67	72.22	18.56	2.23	80.0	± 9.6 %
		Y	4.49	70.59	17.64		80.0	
		Z	4.22	69.78	17.22		80.0	
10510- AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.43	68.99	17.65	2.23	80.0	± 9.6 %
		Y	4.46	68.24	17,14		80.0	
		Z	4.26	67.69	16.82		0.08	
10511- AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.48	68.73	17.57	2.23	80.0	± 9.6 %
		Y	4.51	68.03	17.10		80.0	
		Z	4.33	67.51	16.78		80.0	
10512- AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.96	73.95	19.10	2.23	0.08	± 9.6 %
		Y	4.64	71.87	18.01		0.08	
100:0		2	4.30	70.91	17.53		80.0	
10513- AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.33	69.27	17.76	2.23	80.0	± 9.6 %
		Υ	4.34	68.47	17.22		80.0	
		Z	4.14	67.87	16,88		80.0	
10514- AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM. UL Subframe=2,3,4,7,8,9)	X	4.34	68.82	17.63	2.23	80.0	± 9.6 %
		Y	4.37	68.11	17.13		80.0	
		Z	4.18	67.55	16.80		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	Х	1.03	64.75	16.09	0.00	150.0	± 9.6 %
		Υ	0.98	62.96	14.56		150.0	
		Z	0.97	62.70	14.21		150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	1.34	86.86	25.38	0.00	150.0	± 9.6 %
		Y	0.57	68.54	16.44		150.0	
10517-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Z	0.53	66.93 68.18	15.32 17.64	0.00	150.0 150.0	+069/
AAA	Mbps, 99pc duty cycle)	Y	0.93	64.62	15.07	0.00	150.0	± 9.6 %
		2	0.81	64.10	14.55		150.0	
10518- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4,50	67.16	16.53	0.00	150.0	± 9.6 %
		Y	4.54	66,68	16.18		150.0	
		Z	4.51	66.62	16.06		_ 150.0	
10519- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.66	67.34	16.62	0.00	150.0	± 9.6 %
		Y	4.72	66.91	16.30		150.0	
40500	1555 000 44 - A-14(5) 5 011 (055)	Z	4.69	66.85	16.18	0.00	150.0	
10520- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.52	67.31	16.55	0.00	150.0	± 9.6 %
	1	Y	4.57 4.54	66.87 66.80	16.22 16.09		150.0 150.0	-
10521- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.46	67.31	16.55	0.00	150.0	± 9.6 %
		Υ	4.50	66.86	16.21		150.0	
		Ž	4.48	66.79	16.08		150.0	1
10522- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.52	67.43	16.65	0.00	150.0	± 9.6 %
		Y	4.56	66.96	16.29		150.0	
		Z	4.54	66.89	16.17		150.0	

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10523- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.42	67.37	16.53	0.00	150.0	± 9.6 %
		Υ	4.45	66.83	16.15		150.0	
		Z	4.42	66.76	16.02		150.0	
10524- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.46	67.36	16.62	0.00	150.0	± 9.6 %
		Y	4.51	66.87	16.26		150.0	
		Z	4.48	66.80	16.13		150.0	
10525- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.48	66.45	16.23	0.00	150.0	± 9.6 %
		Y	4.50	65.93	15.86		150.0	_ ~
		Z	4.47	65.87	15.73		150.0	
10526- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.62	66.77	16.36	0.00	150.0	± 9.6 %
		Y	4.66	66.29	16.00		150.0	
		Z	4.63	66.22	15.87		150.0	
10527- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.55	66.75	16.31	0.00	150.0	± 9.6 %
		Y	4.58	66.25	15.94		150.0	
		Z	4.55	66.17	15.81		150.0	
10528- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	Х	4.56	66.76	16.33	0.00	150.0	± 9.6 %
		Y	4.60	66.26	15.97		150.0	
		Z	4.57	66.19	15.84		150.0	
10529- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.56	66.76	16.33	0.00	150.0	± 9.6 %
		Ŷ	4.60	66.26	15.97		150.0	
		Z	4.57	66.19	15.84		150.0	
10531- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	Х	4.54	66.83	16.34	0.00	150.0	± 9.6 %
		Y	4.59	66.36	15.98		150.0	
		Z	4.56	66.28	15.85		150.0	
10532- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.42	66.70	16.28	0.00	150.0	± 9.6 %
		Y	4.45	66.21	15.91		150.0	
		Z	4.42	66.13	15.78		150.0	
10533~ AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.58	66.84	16.34	0.00	150.0	± 9.6 %
		Υ	4.61	66.31	15.96	-	150.0	
		Z	4.58	66.24	15.83		150.0	
10534- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.10	66.73	16.34	0.00	150.0	± 9.6 %
		Y	5.14	66.37	16.03		150.0	
		Z	5.10	66.31	15.91		150.0	
10535- AAA	IEEE 802.11ac WiFi (40MHz. MCS1, 99pc duty cycle)	X	5.16	66.90	16.41	0.00	150.0	± 9.6 %
		Y	5.20	66.55	16.12		150.0	
		Z	5.17	66.48	15.99		150.0	_
10536- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.04	66.89	16.39	0.00	150.0	± 9.6 %
		Y	5.07	66.50	16.07		150.0	
		Z	5.04	66.43	15.95		150.0	
10537- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.10	66.83	16.37	0.00	150.0	± 9.6 %
		Y	5.13	66.46	16.06		150.0	
		Z	5.10	66.40	15.94		150.0	
10538- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	Х	5.17	66.81	16.39	0.00	150.0	± 9.6 %
		Υ	5.22	66.48	16.10		150.0	
		2	5.18	66.42	15.98		150.0	
10540- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.10	66.80	16.41	0.00	150.0	± 9.6 %
		- Y	5.15	66.50	16.13	<u> </u>	150.0	†

EX3DV4-- SN:3772

10541- AAA	IEEE 802.11ac WiFi (40MHz. MCS7, 99pc duty cycle)	X	5.08	66.70	16.34	0.00	150.0	± 9.6 %
		Y	5.12	66.37	16.06		150,0	
		z	5.09	66.31	15.94		150.0	
10542-	IEEE 802.11ac WiFi (40MHz. MCS8,	X	5.23	66.77	16.39	0.00	150.0	+069/
10342+ \AA	99pc duty cycle)					0.00		± 9.6 %
		Y	5.28	66,44	16.11		150.0	
	1	Z	5.25	66.39	15.99		150.0	
10543- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	Х	5.29	66.77	16.42	0.00	150.0	± 9.6 %
	0000000	Y	5.35	66.47	16.14		150.0	
		Z	5.32	66.42	16.03		150.0	
10544-	IEEE 802.11ac WiFi (80MHz, MCS0,	X	5.43	66.79	16.30	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)					0.00		1 5.6 %
		Υ	5.45	66.49	16.03		150.0	
		Z	5.42	66.44	15.92		150.0	
10545- AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.61	67.22	16.47	0.00	150.0	± 9.6 %
		Y	5.64	66.90	16,19		150.0	
		Z	5,60	66.82	16.06	_	150.0	
10546-	IEEE 802.11ac WiFi (80MHz, MCS2,	X	5.47	66.95	16.35	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)							2 0.0 /0
		Y	5.51	66.68	16.10	1	150.0	
		2	5.48	66.63	15.98		150.0	
10547- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.54	67.01	16.37	0.00	150.0	± 9.6 %
		Y	5.58	66,73	16.11		150.0	
		Z	5.55	66.67	16,00		150.0	
10548- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.74	67.79	16.74	0.00	150.0	± 9.6 %
	Sope duty Gyole)	Y	5.81	67.60	16.52		150.0	
		Z	5.74	67.44	16.36		150.0	
10550	16FF 000 44 - 11/F: /001/1/- 14000					0.00		1000
10550- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.51	67.05	16.41	0.00	150.0	± 9.6 %
		Y	5.54	66.71	16.12		150.0	
		Z	5.50	66.65	16.00		150.0	
10551- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.49	66.98	16.34	0.00	150.0	± 9.6 %
		Y	5.55	66.75	16.10		150.0	14
		Ż	5.51	66.70	15.99		150.0	
40550	JEEE 000 44 as MEE: (90MH~ MCC9	X	5.44	66.88	16.30	0.00	150.0	± 9.6 %
10552- AAA	IEEE 802.11ac WiFi (80MHz, MC\$8, 99pc duty cycle)				ļ	0.00		£ 9.0 %
		Υ	5.46	66.56	16.01		150.0	
		Z	5,43	66.52	15.91		150.0	
10553- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.50	66.86	16.31	0.00	150.0	± 9.6 %
		Y	5.54	66.59	16.06		150.0	
		Z	5.51	66.55	15.95		150.0	
10554- AAA	IEEE 1602 11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.84	67.11	16.37	0.00	150.0	± 9.6 %
/V-V^	33pc duty cycle)	Y	5.86	66.85	16.12		150.0	+
	· · · · · · · · · · · · · · · · · · ·						150.0	+
/+===	AMERICAN AND AND AND AND AND AND AND AND AND A	Z	5.82	66.81	16.02	0.00		L 0.00/
10555- AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.95	67.39	16.48	0.00	150.0	± 9.6 %
		Y	5.98	67,14	16.25		150.0	
		Z	5.94	67.08	16.13		150.0	
10556- AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	5.98	67.46	16.51	0.00	150.0	± 9.6 %
, , , , ,		Y	6.01	67.19	16.27	1	150.0	
						1	150.0	
40557	JEEE 4000 44 - WEE (400) HE 14000	Z	5.96	67.13	16.15	0.00		1060
10557- AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	×	5.94	67,34	16.47	0.00	150.0	± 9.6 %
AAA	Sope dely cycle)							
AAA	Sope dety cycle)	Y	5.97	67.09	16.24		150.0 150.0	

February 16, 2017

10558- AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	Х	5.98	67.48	16.56	0.00	150.0	± 9.6 %
~~	Sape daty cycle)	Υ	6.02	67.25	16.33		150.0	
		Z	5.98	67.19	16.22	-	150.0	
10560- AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.97	67.34	16.52	0.00	150.0	± 9.6 %
		Y	6.01	67.10	16.29		150.0	
		Z	5.98	67.06	16.19		150.0	_
10561- AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.91	67.32	16.55	0.00	150.0	± 9.6 %
		Y	5.94	67.07	16.31		150.0	
		Z	5.90	67.02	16.20		150.0	
10562- AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	Х	5.99	67.59	16.68	0.00	150.0	± 9.6 %
		Υ	6.05	67.42	16.49		150.0	
		Z	6.00	67.36	16.37		150.0	
10563- AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.07	67.46	16.58	0.00	150.0	± 9.6 %
		Υ	6.23	67 <u>.</u> 58	16.53		150.0	
		Z	6.18	67.49	16.40		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	Х	4.81	67.15	16.62	0.46	150.0	± 9.6 %
		Y	4.86	66,75	16.33		150.0	
		Z	4.84	66.71	16.23		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	Х	5.02	67.57	16.94	0.46	150.0	± 9.6 %
		Y	5.09	67.20	16,65		150.0	
		Z	5.06	67.14	16.54		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	4.86	67.41	16.75	0.46	150.0	± 9.6 %
		Y	4.92	67.03	16.46		150.0	
		Z	4.89	66,98	16.35		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	Х	4.90	67.83	17.14	0.46	150.0	± 9.6 %
		Υ	4.95	67.44	16.83		150.0	
		Z	4.92	67.35	16.69		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	Х	4.77	67.17	16.51	0.46	150.0	± 9.6 %
		Υ	4.83	66.79	16.22		150.0	
		Z	4.81	66.77	16.13		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	4.87	68.00	17.24	0.46	150.0	£ 9.6 %
		Y	4.91	67.54	16.90		150.0	
		Z	4.88	67.44	16.75		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	4.89	67.81	17.15	0.46	150.0	± 9.6 %
		Υ	4.94	67.37	16.82		150.0	
		Z	4.91	67.30	16.69		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	Х	1.24	65 .93	16.68	0.46	130.0	± 9.6 %
		Υ	1.20	64.30	15.34_		130.0	
		Z	1.17	63.81	14.91		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	Х	1.27	66.67	17.12	0.46	130.0	± 9.6 %
		Υ	1.22	64.84	15.67		130.0	
		2	1.18	64.27	15.20		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	21,97	127.98	36.06	0.46	130.0	± 9.6 %
		Y	1.57	79.52	20.74		130.0	
		Z	1.18	75.01	18.80	_	130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duly cycle)	X	1.58	75.16	21.31	0.46	130.0	± 9.6 %
• .		Y	1.31	69.96	18.26		130.0	-
		Ż	1.21	68.49	17.36	+	130.0	_

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Х	4.59	66.89	16.62	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)		4.00		10.02	0.40	130.0	2 3.0 %
		Υ	4.65	66.51	16.34		130.0	
		Z	4.62	66.45	16.22		130.0	
10576- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	X	4.62	67.09	16.71	0.46	130.0	± 9.6 %
_		Y	4.67	66.68	16.41		130.0	
		Z	4.64	66.61	16.28		130.0	
10577- _AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	X	4.80	67.34	16.86	0.46	130.0	± 9.6 %
		Y	4.87	66.97	16.58		130.0	
		2	4.84	66.90	16.45		130.0	
10578- AAA	IEEE 802,11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.70	67.52	16.98	0.46	130.0	± 9.6 %
		Y	4.77	67.12	16.68		130.0	
10.000		Z	4.73	67.03	16.54		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.46	66.73	16.24	0,46	130.0	± 9.6 %
		Y	4.53	66.38	15.97		130.0	
		Z	4.50	66.34	15.86		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	X	4.50	66,79	16.27	0,46	130.0	± 9.6 %
	-	Y	4.58	66.42	15.99		130.0	
40564	TEEE COO 44 INCENT OF THE COOPER	Z	4.55	66.39	15.90	0 1 2	130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.61	67.58	16.94	0.46	130.0	± 9.6 %
		Y	4.66	67.14	16.61		130.0	
		Z	4.63	67.05	16.47		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.39	66.48	16.02	0.46	130.0	± 9.6 %
		Υ]	4.47	66.13	15.75		130.0	
		Z	4.45	66.11	15.67		130.0	
10583- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.59	66.89	16.62	0.46	130.0	± 9.6 %
		Υ	4.65	66.51	16.34		130.0	
		Z	4.62	66.45	16.22		130.0	
10584- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.62	67.09	16.71	0.46	130.0	±9.6%
		Y	4.67	66.68	16.41		130.0	
		Z	4.64	66.61	16.28		130.0	
1058 5- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.80	67,34	16.86	0.46	130.0	± 9.6 %
		Y	4.87	66.97	16.58		130.0	
		Z	4.84	66.90	16.45		130.0	
10586- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.70	67.52	16.98	0.46	130.0	± 9.6 %
		Υ	4.77	67,12	16.68	1	130.0	
		Z	4.73	67.03	16.54		130.0	
10587 <i>-</i> AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM. 24 Mops, 90pc duty cycle)	X	4.46	66.73	16.24	0.46	130.0	± 9.6 %
		Y	4.53	66.38	15 97		130.0	
		Z	4.50	66.34	15.86		130.0	
10588- AAA	iEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.50	66.79	16.27	0.46	130.0	±9.6 %
		Y	4.58	66.42	15.99		130.0	
_	_	<u>Z</u>	4.55	66.39	15.90		130.0	
10589- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	×	4.61	67.58	16.94	0.46	130.0	±9.6 %
		Y	4.66	67.14	16,61		130.0	
		Z	4.63	67.05	16.47		130.0	
10590- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.39	66.48	16.02	0.46	130.0	± 9.6 %
		Y	4.47	66.13	15.75		130.0	
		Z	4.45	66.11	15.67		130.0	

10591-	IEEE 802.11n (HT Mixed, 20MHz,	Х	4.74	66.95	16.72	0.46	130.0	± 9.6 %
AAA	MCS0, 90pc duty cycle)	- 1	4.00	20.50	40.45		420.0	
		Y	4.80	66.58	16.45		130.0	
10500	1555 000 11 (15514) 1 001111	Z	4.77	66.52	16.33	0.40	130.0	
10592- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.88	67.27	16.85	0.46	130.0	± 9.6 %
		Y	4.95	66.91	16.58		130.0	
	_	Z	4.92	66.85	16.46		130.0	
10593- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.80	67.16	16.72	0.46	130.0	± 9.6 %
		Y	4.87	66.81	16.45		130.0	
		l Z	4.84	66.75	16.33		130.0	
10594- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.85	67.34	16.88	0.46	130.0	± 9.6 %
		Y	4.92	66.98	16.61		130.0	
		Z	4.89	66.91	16.48		130.0	
10595-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.82	67.30	16.79	0.46	130.0	± 9.6 %
AAA	MCS4, 90pc duty cycle)	Y	4.89	66.93	16.50		130.0	
		Z	4.86	66.87	16.38		130.0	
10596-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.75	67.29	16.79	0.46	130.0	± 9.6 %
AAA	MCS5, 90pc duty cycle)					0.46		I 9.0 %
		Y 7	4.82	66.92	16.50		130.0	
40505	IEEE 000 44 DIE 1997 COOK	Z	4.79	66.86	16.38	7.12	130.0	. 0.00
10597- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.70	67.17	16.66	0.46	130.0	± 9.6 %
		Y	4,77	66.82	16.38		130.0	
		Z	4.74	66,76	16.26		130.0	
10598- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	×	4.69	67.42	16.93	0.46	130.0	± 9.6 %
		Y	4.76	67.06	16.65		130.0	
		Z	4.72	66.97	16.51		130.0	
10599- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.40	67.36	16.89	0.46	130.0	± 9.6 %
		Y	5.47	67.13	16.67		130.0	
		Z	5.43	67.06	16.55		130.0	
10600- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.52	67.76	17.06	0.46	130.0	± 9.6 %
		Y	5.59	67.51	16.83		130.0	
-		Z	5.54	67.40	16.69		130.0	
10601- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.41	67.53	16.97	0.46	130.0	± 9.6 %
		Y	5.48	67.27	16.73		130.0	
		Z	5.44	67.19	16.60		130.0	
10602- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.55	67.70	16.97	0.46	130.0	±9.6 %
		Y	5.58	67.31	16.66		130.0	
		Z	5.55	67.26	16.55		130.0	
10603- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.61	67.96	17.24	0.46	130.0	± 9.6 %
		Y	5.66	67.60	16.94		130.0	
		Z	5.61	67.51	16.81	1	130.0	i
10604- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.49	67.62	17.05	0.46	130.0	± 9.6 %
	, , , , , , , , , , , , , , , , , , , ,	Y	5.49	67.13	16.69		130.0	
		Z	5.45	67.08	16.58		130.0	
10605- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.52	67.69	17.08	0.46	130.0	± 9.6 %
, , , , ,		Y	5.58	67.41	16.83		130.0	
		Z	5.54	67.33	16.70		130.0	
10606-	IEEE 802.11n (HT Mixed, 40MHz,	X	5.26	66.99	16.58	0.46	130.0	± 9.6 %
AAA	MCS7, 90pc duty cycle)		E 20	60.74	10.05		120.0	_
		Y 7	5.32	66.74	16.35		130.0	-
	<u> </u>	Z	5.30	66.71	16.26	<u> </u>	130.0	

10607- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.59	66.33	16.38	0.46	130.0	± 9.6 %
		Y	4.63	65.88	16.06		130.0	
		2	4.60	65.82	15.94		130.0	
10608- AAA_	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.76	66.70	16,54	0.46	130.0	± 9.6 %
		Y	4.81	66.28	16.23		130.0	
		Z	4.78	66.21	16.10		130.0	
10609- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.65	66.54	16.37	0.46	130.0	± 9.6 %
		Y	4.70	66.12	16.06		130.0	
10010	VEEE 400 / 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1	Z	4.67	66.05	15.94		130.0	
10610- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.70	66.70	16.54	0.46	130.0	± 9.6 %
		Y	4.75	66.28	16.22		130.0	
40044	1555 000 44 - 1855 (0014) - NOO4	Z	4.72	66.20	16.09	0.10	130.0	. 0 0 0
10611- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.61	66.50	16.38	0.46	130.0	± 9.6 %
		Y	4.67	66.08	16.07		130.0	
10010	LIEST ORD A4 MPT (OO) D MOOT	Z	4.64	66.01	15.94	<u> </u>	130.0	1 0 0 0
10612- AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.62	66.66	16.43	0.46	130.0	± 9.6 %
		Y	4.67	66.22	16.10		130.0	
10010	(FFF 000 44 . 14/5) (00) 11 . 1200	Z	4.64	66.16	15.98		130.0	1000
10613- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.61	66.49	16.29	0.46	130.0	± 9.6 %
		Y	4.68	66.10	15.99		130.0	
		Z	4.64	66.04	15.87	2 12	130.0	
10614- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.57	66.72	16.55	0.46	130.0	± 9.6 %
		Y_	4.62	66.30	16.22		130.0	
		Z	4.59	66.21	16,08		130.0	
10615- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.61	66.33	16.15	0.46	130.0	± 9.6 %
		Y	4.66	65.90	15.84		130.0	
		Z	4.64	65.86	15.73		130.0	
10616- AAA	(EEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.23	66.65	16.52	0.46	130.0	± 9.6 %
		Y	5.28	66.36	16.27		130.0	
		Z	5.25	66.30	16.15		130.0	
10617- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.29	66.84	16.59	0.46	130.0	± 9.6 %
		Y	5.35	66.53	16.32		130.0	
		Z	5.31	66.46	16.20		130.0	
10618- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.19	66.89	16.63	0.46	130.0	± 9.6 %
		ΙΥ	5.23	66.54	16.34		130.0	
		Z	5.19	66.46	16.22		130.0	
10619- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.20	66.65	16.45	0,46	130.0	± 9.6 %
		Y	5.25	66.34	16.18		130.0	
		Z	5.21	66.28	16.06		130.0	
10620- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.27	66.66	16.50	0.46	130.0	± 9.6 %
		Y	5.34	66.38	16.25		130.0	
		Z	5.30	66.32	16.13	<u> </u>	130.0	
10621- AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.29	66.82	16.70	0.46	130.0	± 9.6 %
		Y	5.34	66.52	16.44		130.0	
		_ Z.	5.30	66.45	16.31		130.0	
10622- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.29	66.94	16.76	0.46	130.0	± 9.6 %
		Y	5.35	66.68	16.51		130.0	
		Z	5.31	66.59	16.38		130.0	

10623-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	5.17	66.47	16.39	0.46	130.0	± 9.6 %
AAA	90pc duty cycle)		0.11		10.00	0.40	150.5	2 5.0 %
		Υ	5.23	66.20	16.14		130.0	
		Z	5.20	66.15	16.03		130.0	
10624- AAA	IEEE 802.11ac WiFi (40MHz, MCS8. 90pc duty cycle)	X	5.36	86.68	16.56	0.46	130.0	± 9.6 %
		Υ	5.42	66.41	16.31		130.0	
		Z	5.38	66.35	16.19		130.0	
10625- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	Х	5.58	67.22	16.88	0.46	130.0	± 9.6 %
		Υ	5.76	<u>67.3</u> 1	16.81		130.0	
		Z	5.70	67.18	16.66		130.0	
10626- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.54	66.68	16.46	0.46	130.0	± 9.6 %
		Y	5.58	66.43	16.23		130.0	
4000=	1555 000 (4 1155 1001 h) 1004	Z	5.54	66.38	16.12	- 10	130.0	
10627- AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	Х	5.77	67.26	16.72	0.46	130.0	± 9.6 %
		Y	5.81	66.98	16.47		130.0	
		Z	5.76	66.89	16.33		130.0	
10628- AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.55	66.70	16.37	0.46	130.0	± 9.6 %
		Y	5.61	66.50	16.16		130.0	
10000	1555 000 dd 1155 (201 (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z	5.57	66.45	16.05		130.0	
10629- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.63	66.79	16.41	0.46	130.0	± 9.6 %
		Υ	5.68	66.54	16.18		130.0	_
		Z	5.64	66.50	16.07		130.0	
10630- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.96	67.98	17.01	0.46	130.0	± 9.6 %
		Υ	6.09	67.95	16.88		130.0	
	<u></u>	Z	5.99	67.74	16.70		130.0	
10631- AAA	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	Х	5.91	67.94	17.18	0.46	130.0	± 9.6 %
	_	Y	6.00	67.81	17.01		130.0	
		Z	5.94	67.67	16.84		130.0	
10632- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	Х	5.75	67.36	16.91	0.46	130.0	± 9.6 %
		Ϋ́	5.78_	67.05	16.65		130.0	
		Z	5.74	66.95	16.50		130.0	
10633- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.62	66.91	16.51	0.46	130.0	± 9.6 %
		Y	5.67	66.67	16.28		130.0	
		Z	5.64	66.63	16.17		130.0	
10634- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90ρc duty cycle)	Х	5.60	66.94	16.58	0.46	130.0	± 9.6 %
		Υ	5.65	66.70	16.35		130.0	.]
		Z	5.62	66.65	16.24		130.0	
10635- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	Х	5.46	66.20	15.94	0.46	130.0	± 9.6 %
		Υ	5.53	66.01	15.74		130.0	
		Z	5.51	66.01	15.66		130.0	-
10636- AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.96	67.02	16.54	0.46	130.0	± 9.6 %
		Y	5.99	66.79	16.32	1	130.0	
		Z	5.95	66.74	16.21		130.0	
10637- AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.11	67.38	16.70	0.46	130.0	± 9.6 %
		Υ	6,14	67.16	16.49		130.0	
		Z	6.10	67.09	16.37		130.0	
10638- AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	Х	6.11	67,37	16.67	0.46	130.0	± 9.6 %
		Υ	6.14	67.14	16.45		130.0	
		Z	6.10	67.09	16.34		130.0	

10639- AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	Х	6.08	67.29	16.68	0.46	130.0	± 9.6 %
		Y	6.12	67,09	16.47		130.0	
		Z	6.08	67.03	16.36		130.0	
10640- AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.07	67.28	16.61	0.46	130.0	± 9.6 %
		Y	6.12	67.09	16.41		130.0	
		Z	6.08	67.04	16.31		130.0	
10641- AAA	IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	Х	6.14	67.25	16.62	0.46	130.0	± 9.6 %
		Y	6.17	67.01	16.39		130.0	
		Z	6.13	66.96	16.29		130.0	
10642- AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.17	67.47	16.89	0.46	130.0	± 9.6 %
		Y	6.21	67.26	16.69		130.0	
		Z	6.17	67.20	16.57		130.0	
10643- AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.01	67.17	16.64	0.46	130.0	± 9.6 %
		Υ	6.05	66.94	16.42		130.0	
		Z	6.01	66.89	16.32		130.0	
10644- AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.11	67.48	16.82	0.46	130.0	±9.6 %
		Y	6.20	67.40	16.67		130.0	
		Z	6,15	67.33	16.56		130.0	
10645- AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.23	67.49	16.78	0.46	130.0	±9.6 %
		Y	6.46	67.80	16.83		130.0	
		Z	6.39	67.66	16.68_	,	130.0	
10646- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	21.90	112.90	37.92	9.30	60.0	± 9.6 %
		Υ	18.12	104.94	34.87		60.0	
		Z	20.93	109.66	36.61		60.0	
10647- AAB	LTE-TDD (SC-FDMA, 1 R8, 20 MHz, QPSK, UL Subframe=2,7)	X	18.90	110.39	37.33	9.30	60.0	± 9.6 %
		Y	16.61	103.75	34.63		60.0	
		Z	18.58	107.78	36.19		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.78	66.29	12.06	0.00	150.0	± 9.6 %
		Υ	0.70	63.41	10.80		150.0	
		Z	0.67	62.80	10.34		150.0	

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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Client

UL CCS USA

Certificate No: EX3-3989 Feb17

CALIBRATION CERTIFICATE

Object EX3DV4 - SN:3989

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

Calibration date: February 16, 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	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: S5277 (20x)	05-Apr-16 (No. 217-02293)	Apr-17
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 E44198	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17

Calibrated by:

Claudio Leubler

Laboratory Technician

Approved by:

Kafja Pokovic

Technical Manager

Issued⁻ February 16, 2017

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

Certificate No: EX3-3989_Feb17 Page 1 of 38

Calibration Laboratory of

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





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Schwelzerischer Kalibrierdienst Service suisse d'étalonnage Servizlo svizzero di taratura Swiss Calibration Service

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Glossary:

TSL tissue simulating liquid
NORMx,y,z sensitivity in free space
ConvF sensitivity in TSL / NORMx,y,z
DCP diode compression point

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

Polarization φ φ rotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 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
- 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"

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: EX3-3989_Feb17 Page 2 of 38

Probe EX3DV4

SN:3989

Manufactured: November 11, 2013 Calibrated: February 16, 2017

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

EX3DV4- SN:3989 February 16, 2017

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3989

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.54	0.51	0.47	± 10.1 %
DCP (mV) ^B	101.3	100.3	101.2	

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	195.9	±3.3 %
		Y	0.0	0.0	1.0		191.2	
		Z	0.0	0.0	1.0		178.7	

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	51.95	386.6	35.56	14.14	1.055	4.986	1.516	0.233	1.006
Υ	56.33	427.4	36.61	15.6	1.214	5.006	0.736	0.489	1.006
Z	49.34	367.4	35.5	11.16	1.054	4.99	0.728	0.328	1.005

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: EX3-3989_Feb17 Page 4 of 38

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.

Certificate No: EX3-3989_Feb17

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3989

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittlvity ^f	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	10.91	10.91	10.91	0.52	0.80	± 12.0 %
900	41.5	0.97	10.33	10.33	10.33	0.51	0.80	± 12.0 %
1750	40.1	1.37	8.90	8.90	8.90	0.39	0.80	± 12.0 %_
1900	40.0	1.40	8.65	8.65	8.65	0.38	0.80	± 12.0 %
2300	39.5	1.67	8.28	8.28	8.28	0.34	0.80	± 12.0 %
2450	39.2	1.80	7.98	7 98	7.98	0.40	0.81	± 12.0 %
2600	39.0	1.96	7.71	7.71	7.71	0.31	0.99	± 12.0 %
5250	35.9	4.71	5.46	5.46	5.46	0.40	1.80	± 13.1 %
5600	35.5	5.07	5.05	5.05	5.05	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.21	5.21	5.21	0.40	1.80	± 13.1 %

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.

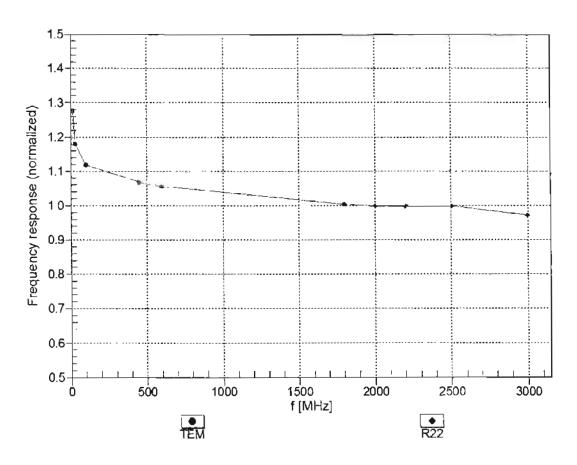
At frequencies below 3 GHz, the until the of the convE assessment at 30, 64, 128, 150 and 220 MHz respectively.

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

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)

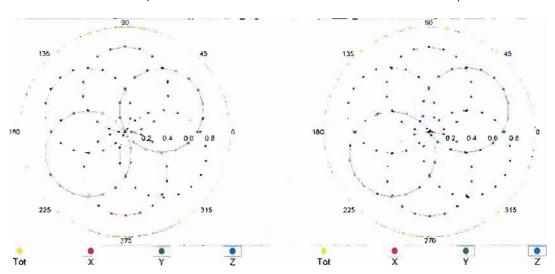


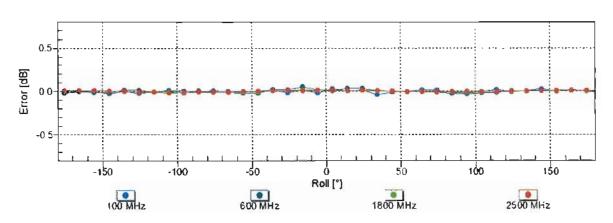
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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



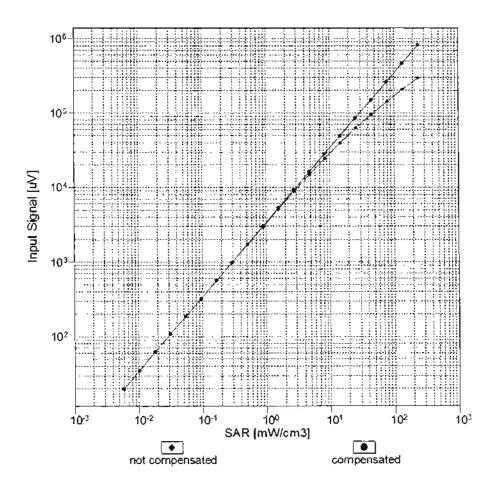
f=1800 MHz,R22

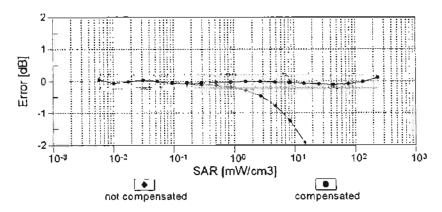




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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

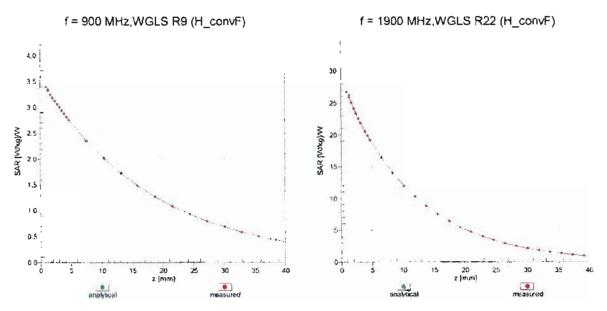




Uncertainty of Linearity Assessment: ± 0.6% (k=2)

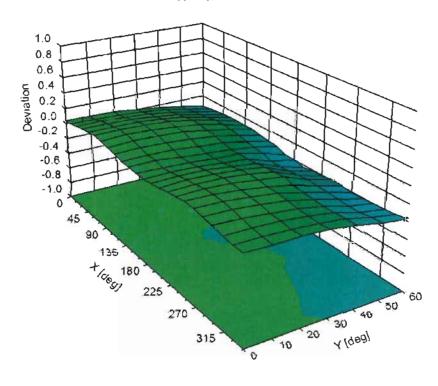
Certificate No: EX3-3989_Feb17 Page 9 of 38 EX3DV4- SN:3989 February 16, 2017

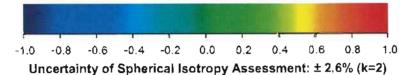
Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, ϑ) , f = 900 MHz





DASY/EASY - Parameters of Probe: EX3DV4 - SN:3989

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	84.4
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

Certificate No: EX3-3989_Feb17 Page 11 of 38

EX3DV4- SN:3989 February 16, 2017

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	195.9	± 3.3 %
		Υ	0.00	0.00	1.00		191.2	
		Z	0.00	0.00	1.00		178.7	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	3.05	67.61	11.67	10,00	20.0	± 9.6 %
		Y	3.54	69.50	12.96		20.0	
		Z	2.99	67.31	11.51		20.0	
10011- CAB	UMTS-FOD (WCDMA)	Х	1.27	71.13	17.63	0.00	150.0	± 9.6 %
		Υ	1.03	66.48	14.88		150.0	
		Z	1.09	68.42	15.98		150.0	
10012- CAB	IEEE 802,11b WiFi 2.4 GHz (DSSS, 1 Mbps)	Х	1.23	64.79	16.06	0.41	150.0	± 9.6 %
		Y	1.19	63.46	14.95		150.0	
10010		Z	1.18	63.96	15.35		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	4.91	66.67	17.09	1,46	150.0	± 9.6 %
		Υ	4.96	66.40	16.92		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	<u>4,86</u> 21.87	66.55 92.83	16.94 21.96	9.39	150.0 50.0	± 9.6 %
DAC		Υ	41.36	102.90	25.45		50.0	
		Z	18.78	90.90	21.39		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	16.19	88.86	20.83	9.57	50.0	± 9.6 %
5/10		Y	27,27	97.20	23.96		50.0	
	· -	Z	14.12	87.08	20.27		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	109.68	24.70	6.56	60.0	± 9.6 %
		Ÿ	100.00	112.15	26.06		60.0	
		Z	100.00	109.87	24.70		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	12.45	101.09	39.37	12.57	50.0	± 9.6 %
		Y	5.87	76.95	28.59		50.0	
		Z	10.62	95.74	37.04		50.0	
10026- DAC	EOGE-FDD (TDMA, 8PSK, TN 0-1)	X	13.20	98.99	34.62	9,56	60.0	±9.6 %
		Υ	10.22	91.34	31.59		60.0	
10027-	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	10.53 100.00	93.63 109.45	32.67	4.80	80.0	± 9.6 %
DAC		Ι	100.00	111.53	24.99	<u> </u>	80.0	
	+	Z	100.00	109.65	23.78		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	110.66	23.71	3.55	100.0	± 9.6 %
3		Y	100.00	112.07	24.55		100.0	
		Z	100.00	110.63	23.52	<u> </u>	100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	Х	7.39	85.76	28.68	7.80	80.0	± 9.6 %
		Υ	6,68	82.23	27.03		80.0	
10030-	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	6.21 100.00	82.01 108.20	27.16 23.57	5.30	70.0	± 9.6 %
CAA		Y	100.00	110.49	24.83		70.0	-
	+	Z	100.00	108.30	23.49		70.0	-
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	112.32	23.14	1.88	100.0	± 9.6 %
J/ V 1		Y	100.00	111.81	23.16		100.0	
		Z	100.00	110.17	22.04		100.0	-

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	100.00	123.67	26.80	1.17	100.0	± 9.6 %
0,11		Y	100.00	117.10	24.45		100.0	
		Z	100.00	117.47	24.10	'	100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	9.24	88.85	23.28	5.30	70.0	± 9.6 %
		Υ	7.08	84.69	22.23		70.0	
		Z	6.54	83,75	21.46		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK. DH3)	X	3.66	79.60	19.32	1.88	100.0	± 9.6 %
		Υ	2.59	73.94	17.27		100.0	9
		Z	2.56	74.57	17.15		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	2.65	76.60	18.17	1.17	100.0	± 9.6 %
		Υ	1.90	70.98	15.91	-	100.0	
		Z	1.93	72.10	16.04		100.0	
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	11.82	92.81	24.59	5.30	70.0	± 9.6 %
		Y	8.47	87.68	23.31		70.0	
		Z	7.89	86.78	22.55		70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	3.44	78.81	19.00	1.88	100.0	± 9.6 %
		Υ	2.49	73.48	17.04		100.0	
		Z	2.42	73.92	16.86		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	2.69	77.12	18.49	1.17	100.0	± 9.6 %
		Y	1.91	71.28	16.13		100.0	
		Z	1.94	72.44	16.29		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	X	3.15	80.09	19.57	0.00	150.0	± 9.6 %
		Y	1.84	71.12	15.89		150.0	
		Z	2.18	74.53	17.00		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	27.67	94.11	20.92	7.78	50.0	± 9.6 %
		Υ	53.58	103.52	24.02		50.0	
		Z	18.41	89.69	19.68		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	103.34	1.56	0.00	150.0	± 9.6 %
		Y	0.00	92.38	1.39		150.0	
		Z	0.00	98.51	0.78		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	8.12	77.02	18.34	13.80	25.0	± 9.6 %
		Υ	10.75	82.09	20.82		25.0	
		Z	7.97	76.14	17.97		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	9.09	80.56	18.44	10.79	40.0	± 9.6 %
		Y	12.51	85.95	20.91		40.0	
		Z	8.58	79.59	18.07		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	12.19	87.88	23.12	9.03	50.0	± 9.6 %
		. Y	10.98	86.61	23.17		50.0	
		Z	10.83	85.89	22.33	_	50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	5.37	79.40	25.43	6.55	100.0	± 9.6 %
		Υ	5.13	77.33	24.33		100.0	
10059-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	Z	1.28	76.54 66.05	24.18 16.66	0.61	100.0	± 9.6 %
CAB	Mbps)	 	4.54	01.10	45.45	-	4/2.2	
	+	Y	1.24	64.49	15.45		110.0	-
40000	TEE 000 (4) 14/5/ 0 (0) / 7000 = -	Z	1.21	64.94	15.83	4.55	110.0	1.22
10060- CA8	IEEE 802.11b WiFi 2.4 GHz (DSSS. 5.5 Mbps)	X	100.00	136.99	35.39	1.30	110.0	± 9.6 %
		Y	4.43	88.61	22.71		110.0	
		Z	7.94	99.12	26.06		110.0	

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	3.63	83.28	23.02	2.04	110.0	± 9.6 %
J/ (J	порој	Y	2.67	76.78	20.28	_	110.0	
		Z	2.56	77.52	20.72		110.0	
10062- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.74	66.77	16.64	0.49	100.0	± 9.6 %
		Y	4.77	66.45	16.42		100.0	
		Z	4.68	66.63	16.47		100.0	
10063- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 h Mbps)	Х	4.75	66.84	16.71	0.72	100.0	± 9.6 %
		Y	4.79	66.53	16.51		100.0	
		Z	4.69	66.69	16.54		100.0	
10064- CAB	TEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.05	67.10	16.92	0.86	100.0	± 9.6 %
		Y	5.10	66.84	16.75		100.0	
		Z	4.98	66.95	16.76		100.0	
10065- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.91	66.98	16.99	1.21	100.0	± 9.6 %
		Y	4.96	66.72	16.82		100.0	
		Z	4.85	66.82	16.83		100.0	
10066- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.92	66.99	17.13	1.46	100.0	± 9.6 %
		Y	4.98	66.74	16.97		100.0	
		Z	4.86	66.82	16.96		100.0	
10067- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	Х	5.20	67.07	17.51	2.04	100.0	±9.6 %
		Y	5.26	66.81	17.35		100.0	
		i Z	5.14	66.94	17.36		100.0	
10068- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	Х	5.26	67.18	17.73	2.55	100.0	± 9.6 %
		Y	5.34	66,98	17.61		100.0	
		Z	5.19	67.01	17.57		100.0	
10069- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	Х	5.34	67.15	17.91	2.67	100.0	± 9.6 %
		Y	5.42	66.92	17.78		100.0	
		Z	5.27	67,00	17.76		100.0	
10071- CA B	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.00	66.73	17.36	1.99	100.0	± 9.6 %
		Y	5.05	66.48	17.20		100.0	
		Z	4,95	66.60	17.21		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.99	67.07	17.56	2.30	100.0	± 9.6 %
	,	Y	5.05	66.83	17.40		100.0	
		Z	4.93	66.92	17.40		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.05	67.21	17.85	2.83	100.0	± 9.6 %
		Y	5.11	66.96	17.70		100.0	
		Z	4.99	67.05	17.69		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.02	67.10	17.98	3.30	100.0	± 9.6 %
		Y	5.09	66.86	17.84		100.0	ļ
		Z	4.97	66.94	17,82		100.0	1
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.08	67.28	18.31	3.82	90.0	± 9.6 %
		Y	5.15	67.07	18.19		90.0	
		Z	5.02	67.09	18.13		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.08	67.04	18.40	4.15	90.0	± 9.6 %
		Y	5.14	66.80	18.26		90.0	
		Z	5.03	66.88	18.23		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.10	67.10	18.48	4.30	90.0	± 9.6 %
	1	Y	5.16	66.85	18.34		90.0	
		Z	5.05	66.94	18.32		90.0	

February 16, 2017

10081-	CDMA2000 (1xRTT, RC3)	X	1.23	71.53	15.95	0.00	150.0	± 9.6 %
CAB	CDIMA2000 (TXRTT, RGS)					0.00		
		Y	0.90	65.72	13.01		150.0	
		Z	0.94	67.49	13.60	4.77	150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	0.86	60.00	4.93	4.77	80.0	± 9.6 %
		Y	0.92	60.00	5.23		80.0	
		. Z	0.80	60.00	4.81		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	109.69	24.73	6.56	60.0	± 9.6 %
		Υ	100.00	112.18	25.09		60.0	
		Z	100.00	109.89	24.72		60.0	
10097- CA8	UMTS-FDD (HSDPA)	X	2.01	69.38	16.90	0.00	150.0	± 9.6 %
		Υ	1.83	66.97	15.48		150.0	
		Z	1.89	68.22	16.08		150.0	
10098- CAB	UMTS-FDD (HSUPA, Subtest 2)	×	1.97	69.38	16.90	0.00	150.0	± 9.6 %
		Υ	1.79	66.91	15.44		150.0	
		Z	1.85	68.19	16.06		150.0	
10099- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	13.26	99.05	34.62	9.56	60.0	± 9.6 %
		Y	10.27	91.39	31.60		60.0	
		Z	10.58	93.70	32.68		60.0	
10100- CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.46	72.05	17.68	0.00	150.0	± 9.6 %
		Y	3.18	70.00	16.53		150.0	
		Z	3.24	70.89	17.02		150.0	
10101- CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	Х	3.39	68.29	16.49	0.00	150.0	± 9.6 %
		Y	3.32	67.37	15.87		150.0	
		Z	3.29	67.78	16.11		150.0	
10102- CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.48	68.19	16.54	0.00	150.0	± 9.6 %
0/10	1711 12, 0 7 W W//	Y	3.42	67.34	15.97		150.0	
		Z	3.39	67.72	16.19		150.0	
10103- CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	6.52	75.46	20.09	3.98	65.0	± 9.6 %
0, 10	Thirte Grand	Y	6.27	74.21	19.55		65.0	
		Z	6.21	74.87	19.84		65.0	
10104- CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	6.60	74.04	20.37	3.98	65.0	± 9.6 %
0,10	10 47 117	Y	6.60	73.44	20.07		65.0	
	-	Z	6.19	73.04	19.90		65.0	
10105- CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	6.19	72.69	20.08	3.98	65.0	± 9.6 %
		Y	6.06	71.69	19.59		65.0	
		Z	6.02	72.37	19.92		65.0	
10108- CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	3.02	71.22	17.52	0.00	150.0	± 9.6 %
		Y	2.80	69.20	16.34		150.0	
		Z	2.82	70.10	16.85		150.0	
10109- CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.05	68.22	16.47	0.00	150.0	±9.6 %
		Y	2.98	67.17	15.78		150.0	
	200	Z	2.95	67.65	16.04		150.0	
10110- CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.47	70.42	17.26	0.00	150.0	± 9.6 %
		Y	2.29	68.21	15.96		150.0	
		Z	2.30	69.22	16.50		150.0	
10111- CAD	LTE-FDD (SC-FDMA, 100% RB. 5 MHz, 16-QAM)	X	2.80	69.29	16.95	0.00	150.0	± 9.6 %
		Y	2.68	67.77	16.06		150.0	-
I .								

10112- CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.17	68.13	16.48	0.00	150.0	± 9.6 %
		Y	3.11	67.15	15.84		150.0	
		Z	3.07	67.62	16.08		150.0	
10113- CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.95	69.32	17.02	0.00	150.0	± 9.6 %
		Y	2.84	67.90	16.20		150.0	·—
		Z	2.83	68.68	16.52		150.0	V
10114- CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	Х	5.20	67.41	16.64	0.00	150.0	± 9.6 %
		Y	5.21	67.05	16.39		150.0	
		Z	5.15	67.27	16.50		150.0	
10115- CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Х	5.52	67.61	16.75	0.00	150.0	± 9.6 %
		Y	5.57	67.38	16.56		150.0	
	7	Z	5.45	67.41	16.58		150.0	
10116- CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.31	67.64	16.68	0.00	150.0	± 9.6 %
		Y	5.33	67.31	16.45		150.0	
		Z	5.25	67.47	16.52		150.0	
10117- CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.18	67.31	16.61	0.00	150.0	± 9.6 %
		Υ	5.20	67.02	16.40		150.0	
		Z	5.12	67.14	16.45		150.0	
10118- CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.60	67.80	16.85	0.00	150.0	±9.6 %
		Υ	5.65	67.55	16.66		150.0	
		Z	5.53	67.62	16.68		150.0	-
10119- CA 8	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	Х	5.28	67.57	16.66	0.00	150.0	± 9.6 %
		Y	5.30	67.25	16.43		150.0	
		Z	5.23	67.41	16.50		150.0	
10140- CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.53	68.19	16.46	0.00	150.0	± 9.6 %
<u>Orto</u>		Y	3.47	87.35	15.90		150.0	
		Z	3.43	67.72	16.11		150.0	
10141- CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.64	68.23	16.59	0.00	150.0	± 9.6 %
	× 1=	Y	3.59	67.43	16.06		150.0	
		Z	3.55	67.81	16.27		150.0	1
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.28	70.79	17.18	0.00	150.0	± 9.6 %
		Y	2.06	68.11	15.70		150.0	
		Z	2.09	69.34	16.26		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.75	70.56	17.00	0.00	150.0	±9.6 %
		Υ	2.55	68.43	15.89		150.0	
		Z	2.58	69.52	16.25		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.47	67.97	15.28	0.00	150.0	± 9.6 %
		Υ	2.36	66.45	14.46		150.0	2
		Z	2.32	67.08	14.58		150.0	
10145- CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	1.63	69.05	14.45	0.00	150.0	± 9.6 %
	<u></u>	Y	1.41	66.04	13.03		150.0	
		Z	1.35	66.39	12.73		150.0	
10146- CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	2.75	70.47	14.01	0.00	150.0	± 9.6 %
		Υ	2.39	68.05	13.28		150.0	
		Z	2.00	66.75	12.04	1	150.0	
10147- CAO	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	3.77	74.52	15.83	0.00	150.0	± 9.6 %
CAU		Y	2.84	70.41	14.52	1	150.0	
			2.04	/ 0.41	14.32	1	130.0	

10149- CAC	LTE-FDD (SC-FDMA: 50% RB, 20 MHz, 16-QAM)	X	3.06	68.29	16,52	0.00	150.0	± 9.6 %
		Y	2.99	67.22	15.83		150.0	
		Z	2.96	67.71	16.09		150.0	
10150- CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.18	68.19	16.52	0.00	150.0	± 9.6 %
		Y	3.11	67.20	15.88		150.0	
		2	3.08	67.67	16.13		150.0	
10151- CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	×	6.90	77.86	21.14	3.98	65.0	± 9.6 %
		Y	6.65	76.53	20.58		65.0	
		Z	6.28	76.52	20.58	9	65.0	
10152- CAC	LTE-TDD (SC-FDMA, 50% R8, 20 MHz, 16-QAM)	Х	6.14	73.98	20.08	3.98	65.0	± 9.6 %
		Υ	6.12	73.28	19.75		65.0	
		Z	5.71	72.88	19.55		65.0	
10153- CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	Х	6.49	74.84	20.81	3.98	65.0	± 9.6 %
		Υ	6.47	74.14	20.49		65.0	
		Z	6.05	73.76	20.29		65.0	
10154- CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.54	70.93	17.56	0.00	150.0	± 9.6 %
		Y	2.34	68.65	16.24		150.0	
		Z	2.35	69.67	16.77		150.0	
10155- CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.80	69.30	16.96	0.00	150.0	± 9.6 %
		Y	2.68	67.78	16.07		150.0	
		2	2,68	68.58	16.42		150.0	
10156- CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	2.18	71.37	17.26	0.00	150.0	± 9.6 %
		Y	1.92	68.24	15.59		150.0	
		Z	1.95	69,60	16.15	,	150.0	
10157- CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.36	69.05	15.61	0.00	150.0	± 9.6 %
		Υ	2.19	67.01	14.56		150.0	
_		Z	2,18	67.84	14.73		150.0	
10158- CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	2.96	69.39	17.07	0.00	150.0	± 9.6 %
		Υ	2.85	67.96	16.24		150.0	
		Z	2.84	68.74	16.57		150.0	
10159- CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	2.50	69.59	15.92	0.00	150.0	±9.6 %
		Y	2.31	67.49	14.87	_	150.0	
		Z	2,30	68.35	15.04		150.0	
10160- CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	2.94	69.81	17.10	0.00	150.0	± 9.6 %
		Υ	2.80	68.24	16.14		150.0	
		Z	2.80	69.00	16.55		150.0	
10161- CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.08	68.15	16.48	0.00	150.0	±9.6%
		Υ	3.01	67.11	15.82		150.0	
		Z	2.98	67.62	16.07		150.0	
10162- CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3,19	68.24	16.56	0.00	150.0	± 9.6 %
		Υ	3.12	67.21	15.91		150.0	
		Z	3.09	67.75	16.17		150.0	
10166- CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.77	70.50	19.68	3.01	150.0	± 9.6 %
		Y	3.73	69.21	18.88		150.0	
		Z	3.54	69.38	19.04		150.0	
10167- CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	×	4.92	74.53	20.57	3.01	150.0	± 9.6 %
CAU	· · · · · · · · · · · · · · · · · · ·	—				_	1-0.0	+
		Y	4.65	72.16	19.39		150.0	1

10168- CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	5.57	77.15	22.01	3.01	150.0	± 9.6 %
		Y	5.14	74.34	20.68		150.0	
		Z	4.83	74.71	20.92		150.0	
10169- CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.26	71.21	20.07	3.01	150.0	± 9.6 %
		Υ	3.23	69.59	19.02		150.0	
		Z	2.90	68.93	18.89		150.0	
10170- CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	5.36	80.66	23.62	3.01	150.0	± 9.6 %
		Y	4.63	76.00	21,49		150.0	
		_Z	4.02	75.34	21.45		150.0	
10171- AAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	4.06	74.72	20.22	3.01	150.0	± 9.6 %
		Υ	3.72	71.46	18.59		150.0	
		Z	3.26	70.97	18.56		150.0	
10172- CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	11.39	95.59	29.28	6.02	65.0	± 9.6 %
	7	ÌΥ	7.46	85.47	25.63		65.0	
		Z	7.86	88.78	27.01		65.0	
10173- CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	25.60	104.64	29.72	6.02	65.0	±9.6 %
		Υ	13.09	91.80	25.98		65.0	
		Z	11.60	91.97	26.08		65.0	
10174- CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	14.82	94.17	26.09	6.02	65.0	± 9.6 %
		Υ	9.12	84.85	23.22	,	65.0	
		Z	9.52	87.51	24.07		65.0	
10175- CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.21	70.84	19.79	3.01	150.0	± 9.6 %
		Y	3.18	69.24	18.75		150.0	
		Z	2.87	68.63	18.64		150.0	
10176- CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	5.37	80.70	23.64	3.01	150.0	± 9.6 %
		Υ	4.63	76.03	21.50		150.0	
		Z	4.03	75.36	21.46		150.0	
10177- CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.24	71.02	19.90	3.01	150.0	± 9.6 %
		Y	3.21	69.42	18.87		150.0	_
		Z	2.89	68.78	18.74		150.0	
10178- CAD	LTE-FDD (SC-FDMA, 1 R8, 5 MHz, 16-QAM)	X	5.28	80.34	23,47	3.01	150.0	± 9.6 %
		Y	4.57	75.73	21.34		150.0	
		Z	3.98	75.12	21.33		150.0	
10179- CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	4.64	77.50	21.76	3.01	150.0	± 9.6 %
		Y	4.12	73.52	19.87		150.0	
		Z.	3.61	73.03	19.87		150.0	
10180- CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	4.04	74.61	20.15	3.01	150.0	± 9.6 %
		Υ	3.71	71.37	18.53		150.0	
		Z	3.26	70.89	18.51		150.0	
10181- CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.24	71.00	19.89	3.01	150.0	± 9.6 %
		Υ	3.21	69.39	18.86		150.0	
		Z	2.89	68.76	18.73		150.0	
10182- CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	5.27	80.31	23.46	3.01	150.0	± 9.6 %
		Y	4.56	75.70	21.33		150.0	
		Z	3.98	75.09	21.32		150.0	
10183- AAB	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	4.03	74.58	20.14	3.01	150.0	± 9.6 %
		Y	3.70	71.34	18.52		150.0	
		Z	3.25	70.87	18.50		150.0	

10185- CAD	QPSK)	Υ	2.00				I	
CAD		Y		00.1	40.00		4500	
CAD	177 777 (20 57:11)		3.22	69.44	18.88		150.0	
CAD		Z	2.90	68.80	18.75	0.04	150.0	
10186-	LTE-FDD (SC-FDMA, 1 RB. 3 MHz, 16-QAM)	X	5.30	80,41	23.50	3.01	150.0	± 9.6 %
10186-		Υ	4.58	75.78	21.37		150.0	
10186-		Z	4.00	75.17	21.36		150.0	
AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	4.05	74.67	20.18	3.01	150.0	± 9.6 %
		Υ	3.72	71.41	18.56		150.0	
		Z	3.27	70.94	18.54		150.0	
10187- CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.26	71.11	19.98	3.01	150.0	± 9.6 %
		Y	3.23	69.48	18.93		150.0	
		Z	2.91	68.85	18.82		150.0	
10188- CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	5.56	81.41	23.99	3.01	150.0	± 9.6 %
		Υ	4.76	76.57	21.80		150.0	
		Ż	4.14	75.88	21.76		150.0	
10189- AAD	LTE-FDD (SC-FDMA. 1 RB, 1.4 MHz, 64-QAM)	X	4.18	75.27	20.52	3.01	150.0	± 9.6 %
		Υ	3.81	71.88	18.85		150.0	
		z	3.34	71.39	18.83		150.0	
10193- CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.61	66.85	16.40	0,00	150.0	± 9.6 %
		Υ	4.63	66.46	16.14		150.0	
		Z	4.55	66.69	16.22		150.0	
10194- CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.79	67.19	16.52	0.00	150.0	± 9.6 %
		Y	4.81	66.81	16.26		150.0	
		Z	4.73	67.01	16.34		150.0	
10195- CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	×	4.83	67.21	16.53	0.00	150.0	± 9.6 %
		Y	4.86	66.83	16.27		150.0	_
		Z	4.77	67.04	16.36		150.0	
10196- CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.62	66.93	16.43	0.00	150.0	± 9.6 %
		Υ	4.64	66.55	16.17		150.0	
		Z	4.56	66.76	16.24		150.0	
10197- CA 8	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.81	67.21	16.53	0.00	150.0	± 9.6 %
		Υ	4.83	66.83	16.27		150.0	
		Z	4.74	67.03	16.35		150.0	
10198- CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM)	X	4.84	67.23	16.54	0.00	150.0	± 9.8 %
		Υ	4.86	66.85	16.28		150,0	
		Z	4.77	67.06	16.37		150.0	
10219- CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, 8PSK)	X	4.57	66.95	16.40	0.00	150.0	± 9.6 %
		Υ	4.59	66.56	16.13		150.0	
		Z	4,51	66.78	16.21		150.0	
10220- CA8	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.80	67.18	16.52	0.00	150.0	± 9.6 %
		Υ	4.83	66.81	16.26		150.0	
		Z	4.74	67.01	16.34		150.0	
10221- CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.84	67.15	16.53	0.00	150.0	± 9.6 %
		Y	4.87	66.78	16.27		150.0	
		Z	4.78	66.98	16.35		150.0	
10222- CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	×	5.16	67.33	16.61	0.00	150.0	± 9.6 %
		Υ	5.18	67.04	16.39		150.0	
		Z	5.10	67.16	16.45		150.0	+

10223- CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16- QAM)	X	5.46	67.48	16.71	0.00	150.0	± 9.6 %
		Y	5.52	67.28	16.54		150.0	
		Z	5.40	67.34	16.56		150.0	
10224- CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.20	67.44	16.60	0.00	150.0	± 9.6 %
		Y	5.23	67,13	16.37		150.0	
		Z	5.14	67.27	16.43		150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	2.92	66.72	15.89	0.00	150.0	± 9.6 %
		Y	2.89	65.87	_15.37		150.0	
		Z	2.84	66.33	15.51		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	28.45	106.62	30.37	6.02	65.0	± 9.6 %
		Y_	13.93	92.98	26.45		65.0	
		2	12.40	93.22	26.57	_	65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	21.60	100.12	27.86	6.02	65.0	± 9.6 %
		Y	12.30	89.61	24.83		65.0	L
		Z	11.12	89.97	24.91		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	14.86	100.82	30.97	6.02	65.0	± 9.6 %
		Υ	10.09	91.41	27.74		65.0	
		Z	8.50	90.47	27.65		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	25.80	104.75	29.76	6.02	65.0	± 9.6 %
		Y	13.18	91.89	26.02		65.0	
		2	11.69	92.07	26.12		65.0	
10230- CA B	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	19.85	98.62	27.34	6.02	65.0	± 9.6 %
		Y	11.67	88.67	24.44		65.0	
		Z	10.49	88.94	24.50		65.0	
10231- CAB	LTE-TOD (SC-FOMA, 1 RB, 3 MHz, QPSK)	X	13.99	99.55	30.49	6.02	65.0	± 9.6 %
		Y	9.68	90.49	27.35		65.0	
		Z	8.14	89.58	27.27		65.0	
10232- CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	25.77	104.75	29.75	6.02	65.0	± 9.6 %
		Y	13.16	91.88	26.01		65.0	
		Z	11.67	92.06	26.12		65.0	
10233- CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	19.83	98.61	27.34	6.02	65.0	± 9.6 %
		Υ	11.66	88.66	24.44		65.0	
		<u> 2</u>	10.47	88.92	24.49		65.0	
10234- CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	13.22	98.29	29.98	6.02	65.0	± 9.6 %
		Υ	9.27	89.60	26.94		65.0	
		Z	7.84	88.72	26.86	- 164	65.0	
10235- CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	×	25.85	104.82	29.78	6.02	65.0	± 9.6 %
		Y	13.17	91,90	26.02		65.0	
		2	11.68	92.09	26.13		65.0	
10236- CAC	LTE-TDD (SC-FDMA, 1 RB. 10 MHz, 64-QAM)	X	20.10	98,80	27.39	6.02	65.0	± 9.6 %
		Y	11.76	88.77	24.47		65.0	
		Z	10.58	89.06	24.53		65.0	
10237- CAC	LTE-TDO (SC-FOMA, 1 RB, 10 MHz, QPSK)	X	14.06	99.69	30.54	6.02	65.0	± 9.6 %
		Υ	9.67	90,56	27.38		65.0	
		Z	8.16	89.65	27.29		65.0	
10238- CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	25.73	104.73	29.75	6.02	65.0	± 9.6 %
		Υ	13.14	91.86	26.01		65.0	
		Z	11.64	92.03	26.11		65.0	1

10241- CAA 16-QAM 10242- CAA 64-QAM 10243- CAA QPSK) 10244- CAB 16-QAM 10245- CAB 64-QAM 10246- CAB QPSK) 10247- CAC 16-QAM 10248- CAC 64-QAM 10249- CAC 16-QAM 10250- CAC 16-QAM	TDD (SC-FDMA, 1 RB, 15 MHz,	X	19.78	98.59	27.34	6.02	65.0	± 9.6 %
10241- CAA 16-QAM 10242- CAA 64-QAM 10243- CAA QPSK) 10244- CAB 16-QAM 10245- CAB 16-QAM 10246- CAB QPSK) 10247- CAC 16-QAM 10248- CAC 64-QAM 10249- CAC QPSK) 10250- CAC 16-QAM 10251- CAC 16-QAM	AM)		11.00	00.04	24.40		25.0	
10241- CAA 16-QAM 10242- CAA 64-QAM 10243- CAA QPSK) 10244- CAB 16-QAM 10245- CAB 64-QAM 10246- CAB QPSK) 10247- CAC 16-QAM 10248- CAC 16-QAM 10249- CAC QPSK) 10250- CAC 16-QAM 10251- CAC 16-QAM		Y	11.63	88.64	24.43		65.0	
10241- CAA 16-QAM 10242- CAA 64-QAM 10243- CAA QPSK) 10244- CAB 16-QAM 10245- CAB 64-QAM 10246- CAB QPSK) 10247- CAC 16-QAM 10248- CAC 16-QAM 10249- CAC QPSK) 10250- CAC 16-QAM 10251- CAC 16-QAM	TOD (00 FD) (1 4 00 45 14 5	Z	10.44	88.90	24.48 30.52	6.00	65.0 65.0	+06%
10242- CAA 16-QAM 10242- CAA 64-QAM 10243- CAA QPSK) 10244- CAB 16-QAM 10245- CAB 64-QAM 10246- CAB QPSK) 10247- CAC 16-QAM 10248- CAC 64-QAM 10249- CAC QPSK) 10250- CAC 16-QAM 10251- CAC 16-QAM	TDD (SC-FDMA, 1 RB, 15 MHz, K)	×	14.01	99.62		6.02		± 9.6 %
10242- CAA 16-QAM 10242- CAA 64-QAM 10243- CAA QPSK) 10244- CAB 16-QAM 10245- CAB 64-QAM 10246- CAB QPSK) 10247- CAC 16-QAM 10248- CAC 64-QAM 10249- CAC QPSK) 10250- CAC 16-QAM 10251- CAC 16-QAM		Υ	9.64	90.51	27.36		65.0	
10242- CAA 16-QAM 10242- CAA 64-QAM 10243- CAA QPSK) 10244- CAB 16-QAM 10245- CAB 64-QAM 10246- CAB QPSK) 10247- CAC 16-QAM 10248- CAC 64-QAM 10249- CAC QPSK) 10250- CAC 16-QAM 10251- CAC 16-QAM		Z	8.13	89.60	27.28		65.0	
10243- CAA QPSK) 10244- CAB 16-QAM 10245- CAB 64-QAM 10246- CAB QPSK) 10247- CAC 16-QAM 10248- CAC 64-QAM 10249- CAC QPSK) 10250- CAC QPSK) 10251- CAC 16-QAM 10252- LTE-TC CAC 16-QAM	TDD (SC-FDMA, 50% RB, 1.4 MHz, AM)	Х	8.90	82.51	25.67	6.98	65.0	± 9.6 %
10243- CAA QPSK) 10244- CAB 16-QAM 10245- CAB 64-QAM 10246- CAB QPSK) 10247- CAC 16-QAM 10248- CAC 64-QAM 10249- CAC QPSK) 10250- CAC QPSK) 10251- CAC 16-QAM 10252- LTE-TC CAC 16-QAM		Y	8.41	79.94	24.58		65.0	
10243- CAA QPSK) 10244- CAB 16-QAM 10245- CAB 64-QAM 10246- CAB QPSK) 10247- CAC 16-QAM 10248- CAC 64-QAM 10249- CAC QPSK) 10250- CAC QPSK) 10251- CAC 16-QAM 10252- LTE-TC CAC 16-QAM		Z	7.72	79.76	24.51		65.0	
10244- LTE-TD CAB 16-QAM 10245- LTE-TD CAB 64-QAM 10246- LTE-TD CAC 16-QAM 10247- LTE-TD CAC 16-QAM 10248- LTE-TD CAC 44-QAM 10249- LTE-TD CAC QPSK) 10250- LTE-TD CAC 16-QAM 10251- LTE-TD CAC 64-QAM	TDD (SC-FDMA, 50% RB, 1.4 MHz. IAM)	X	7.90	80.02	24.59	6.98	65.0	± 9.6 %
10244- LTE-TD CAB 16-QAM 10245- LTE-TD CAB 64-QAM 10246- QPSK) 10247- LTE-TD CAC 16-QAM 10248- LTE-TD CAC 64-QAM 10249- LTE-TD CAC QPSK) 10250- LTE-TD CAC 16-QAM 10251- LTE-TD CAC 64-QAM		Y	7.39	77.22	23.36		65.0	
10244- LTE-TD CAB 16-QAM 10245- LTE-TD CAB 64-QAM 10246- QPSK) 10247- LTE-TD CAC 16-QAM 10248- LTE-TD CAC 64-QAM 10249- LTE-TD CAC QPSK) 10250- LTE-TD CAC 16-QAM 10251- LTE-TD CAC 64-QAM		Z	7.37	78.80	24.03		65.0	
10245- LTE-TC CAB QPSK) 10246- LTE-TC CAB QPSK) 10247- LTE-TC CAC 16-QAM 10248- LTE-TC CAC QPSK) 10250- LTE-TC CAC 16-QAM 10250- LTE-TC CAC 16-QAM 10251- LTE-TC CAC 64-QAM	TDD (SC-FDMA, 50% RB, 1.4 MHz, K)	X	6.23	76.16	23.88	6.98	65.0	± 9.6 %
10245- LTE-TC CAB QPSK) 10246- LTE-TC CAB QPSK) 10247- LTE-TC CAC 16-QAM 10248- LTE-TC CAC QPSK) 10250- LTE-TC CAC 16-QAM 10250- LTE-TC CAC 16-QAM 10251- LTE-TC CAC 64-QAM	•	Υ	6.07	74.33	22.94		65.0	
10245- LTE-TC CAB QPSK) 10246- LTE-TC CAB QPSK) 10247- LTE-TC CAC 16-QAM 10248- LTE-TC CAC QPSK) 10250- LTE-TC CAC 16-QAM 10250- LTE-TC CAC 16-QAM 10251- LTE-TC CAC 64-QAM		Z	6.02	75.63	23.58		65.0	1
10245- LTE-TD CAB 64-QAM 10246- LTE-TD CAB QPSK) 10247- LTE-TD CAC 16-QAM 10248- LTE-TD CAC 64-QAM 10249- LTE-TD CAC QPSK) 10250- LTE-TD CAC 16-QAM 10251- LTE-TD CAC 64-QAM	TDD (SC-FDMA, 50% RB, 3 MHz, IAM)	X	6.02	75.13	18.10	3.98	65.0	± 9.6 %
10246- LTE-TC CAB QPSK) 10247- LTE-TC CAC 16-QAM 10248- LTE-TC CAC 64-QAM 10249- LTE-TC CAC QPSK) 10250- LTE-TC CAC 16-QAM 10251- LTE-TC CAC 64-QAM		Y	6.03	74.69	18.27		65.0	
10246- LTE-TC CAB QPSK) 10247- LTE-TC CAC 16-QAM 10248- LTE-TC CAC 64-QAM 10249- LTE-TC CAC QPSK) 10250- LTE-TC CAC 16-QAM 10251- LTE-TC CAC 64-QAM		Z	5.12	72.92	17.03		65.0	
10246- LTE-TC CAB QPSK) 10247- LTE-TC CAC 16-QAM 10248- LTE-TC CAC 64-QAM 10249- LTE-TC CAC QPSK) 10250- LTE-TC CAC 16-QAM 10251- LTE-TC CAC 64-QAM	TDD (SC-FDMA, 50% RB, 3 MHz,	X	5.92	74.61	17.84	3.98	65.0	± 9.6 %
10247- LTE-TE CAC 16-QAM 10248- LTE-TE CAC 64-QAM 10249- LTE-TE CAC QPSK) 10250- LTE-TE CAC 16-QAM 10251- LTE-TE CAC 64-QAM		Υ	5.98	74,31	18.06		65.0	
10247- LTE-TE CAC 16-QAM 10248- LTE-TE CAC 64-QAM 10249- LTE-TE CAC QPSK) 10250- LTE-TE CAC 16-QAM 10251- LTE-TE CAC 64-QAM		Z	5.04	72.47	16.78		65.0	
10247- LTE-TE CAC 16-QAM 10248- LTE-TE CAC 64-QAM 10249- LTE-TE CAC QPSK) 10250- LTE-TE CAC 16-QAM 10251- LTE-TE CAC 64-QAM	TDD (SC-FDMA, 50% R8, 3 MHz,	X	5.72	77.75	19.43	3.98	65.0	± 9.6 %
10248- LTE-TE 64-QAM 10249- LTE-TE QPSK) 10250- LTE-TE 16-QAM 10251- LTE-TE 64-QAM 10252- LTE-TE		Y	5.46	76.53	19.18		65.0	
10248- LTE-TE 64-QAM 10249- LTE-TE QPSK) 10250- LTE-TE 16-QAM 10251- LTE-TE 64-QAM 10252- LTE-TE		Z	4.82	75.38	18.34		65.0	
10248- LTE-TE CAC 64-QAM 10249- LTE-TE CAC QPSK) 10250- LTE-TE CAC 16-QAM 10251- LTE-TE CAC 64-QAM	TDD (SC-FDMA, 50% R8, 5 MHz,	X	5.27	73.75	18.50	3.98	65.0	± 9.6 %
10249- LTE-TE CAC QPSK) 10250- LTE-TE CAC 16-QAM 10251- LTE-TE CAC 64-QAM 10252- LTE-TE	2011/1	Y	5.27	73.23	18.46		65.0	
10249- LTE-TE CAC QPSK) 10250- LTE-TE CAC 16-QAM 10251- LTE-TE 64-QAM 10252- LTE-TE		Z	4.76	72.35	17.75		65.0	
10249- LTE-TC CAC QPSK) 10250- LTE-TC CAC 16-QAI 10251- LTE-TC CAC 64-QAI	-TDD (SC-FDMA, 50% RB, 5 MHz,	X	5.29	73.32	18.30	3.98	65.0	± 9.6 %
10250- LTE-TE CAC 16-QAM 10251- LTE-TE 64-QAM 10252- LTE-TE		Y	5.32	72.87	18.29		65.0	
10250- LTE-TE CAC 16-QAM 10251- LTE-TE 64-QAM 10252- LTE-TE		Ż	4.79	71.97	17.57		65.0	_
10250- LTE-TE CAC 16-QAN 10251- LTE-TE CAC 64-QAN 10252- LTE-TE	-TDD (SC-FDMA, 50% RB, 5 MHz,	X	6.87	80.77	21.41	3.98	65.0	± 9.6 %
10251- CAC 64-QAI		Y	6.30	78.72	20.75		65.0	
10251- CAC 64-QAI		Ž	5.84	78.43	20.42		65.0	
10251- CAC 64-QAI 10252- LTE-TE	-TDD (SC-FDMA, 50% RB, 10 MHz,	X	6.17	76.11	20.97	3.98	65.0	± 9.6 %
10252- LTE-TE		Y	6.09	75.22	20.64		65.0	
10252- LTE-TE		Z	5.65	74.79	20.35		65.0	
10252- LTE-TI	-TDD (SC-FDMA, 50% R8, 10 MHz, QAM)	X	5.93	74.21	19.86	3.98	65.0	± 9.6 %
		Υ	5.89	73.43	19.56	1	65.0	
		Z	5.47	73.04	19.27		65.0	
	-TDD (SC-FDMA, 50% RB, 10 MHz, SK)	X	7.12	80.52	22.17	3.98	65.0	± 9.6 %
		Y	6.63	78.56	21.41		65.0	
		Ż	6.27	78.64	21.40		65.0	_
10253- LTE-TI CAC 16-QAI	-TDD (SC-FDMA, 50% RB, 15 MHz,	X	5.99	73.41	19.85	3.98	65.0	± 9.6 %
37.13		Y	5.98	72.72	19.54		65.0	
		Ż	5.59	72.37	19.33		65.0	_
10254- LTE-TI CAC 64-QAI	-TDD (SC-FDMA, 50% RB, 15 MHz,	X	6.33	74.23	20.51	3.98	65.0	± 9.6 %
04-QA		Y	6 32	73.55	20.22	 	65.0	+
		Z	5.92	73.21	20.00	+	65.0	+

10256- CAA (10257- CAA (10257- CAA (10258- CAA (10259- CAB (10260- CAB (10261- CAB (10262- CAC (10262- CAC (10262-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	6.60 6.37 6.02 4.70 4.99 4.00 4.61 4.94 3.94 4.40 4.50 3.71 5.63 5.59 5.12 5.66 5.65 5.16 6.64	77.28 75.99 75.95 71.30 71.79 69.31 70.67 71.28 68.78 73.49 73.41 71.29 74.64 73.95 73.29 74.41 73.79 73.09 79.89	21.15 20.60 20.58 15.48 16.13 14.41 15.12 15.83 14.08 16.94 17.23 15.81 19.40 19.24 18.70 19.31 19.18 18.62	3.98 3.98 3.98 3.98	65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10257- CAA 10257- CAA 10258- CAA 10259- CAB 10260- CAB 10261- CAB 10262- CAC 10262-	MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Z X Y Z X Y Z X Y Z X Y Z X	6.02 4.70 4.99 4.00 4.61 4.94 3.94 4.40 4.50 3.71 5.63 5.59 5.12 5.66 5.65 5.16 6.64	75.95 71.30 71.79 69.31 70.67 71.28 68.78 73.49 73.41 71.29 74.64 73.95 73.29 74.41 73.79 73.09	20.58 15.48 16.13 14.41 15.12 15.83 14.08 16.94 17.23 15.81 19.40 19.24 18.70 19.31 19.18 18.62	3.98	65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	± 9.6 % ± 9.6 %
10257- CAA 10257- CAA 10258- CAA 10259- CAB 10260- CAB 10261- CAB 10262- CAC 10262-	MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Z X Y Z X Y Z X Y Z X Y Z X	6.02 4.70 4.99 4.00 4.61 4.94 3.94 4.40 4.50 3.71 5.63 5.59 5.12 5.66 5.65 5.16 6.64	75.95 71.30 71.79 69.31 70.67 71.28 68.78 73.49 73.41 71.29 74.64 73.95 73.29 74.41 73.79 73.09	20.58 15.48 16.13 14.41 15.12 15.83 14.08 16.94 17.23 15.81 19.40 19.24 18.70 19.31 19.18 18.62	3.98	65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	± 9.6 % ± 9.6 %
10257- CAA 10257- CAA 10258- CAA 10259- CAB 10260- CAB 10261- CAB 10262- CAC 10262-	MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X Y Z X Y Z X Y Z X Y Z X	4.70 4.99 4.00 4.61 4.94 3.94 4.40 4.50 3.71 5.63 5.59 5.12 5.66 5.65 5.16 6.64	71.30 71.79 69.31 70.67 71.28 68.78 73.49 73.41 71.29 74.64 73.95 73.29 74.41 73.79 73.09	15.48 16.13 14.41 15.12 15.83 14.08 16.94 17.23 15.81 19.40 19.24 18.70 19.31 19.18 18.62	3.98	65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	± 9.6 % ± 9.6 %
10257- CAA 10258- CAA 10259- CAB 10260- CAB 10261- CAB 10262- CAC 10262-	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Z X Y Z X Y Z X Y Z X Y Z X	4.00 4.61 4.94 3.94 4.40 4.50 3.71 5.63 5.59 5.12 5.66 5.65 5.16 6.64	69.31 70.67 71.28 68.78 73.49 73.41 71.29 74.64 73.95 73.29 74.41 73.79 73.09	14.41 15.12 15.83 14.08 16.94 17.23 15.81 19.40 19.24 18.70 19.31 19.18 18.62	3.98	65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	± 9.6 %
10258- CAA 1 10259- CAB 1 10260- CAB 1 10261- CAB 1 10262- CAC	MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Z X Y Z X Y Z X Y Z X Y Z X	4.00 4.61 4.94 3.94 4.40 4.50 3.71 5.63 5.59 5.12 5.66 5.65 5.16 6.64	69.31 70.67 71.28 68.78 73.49 73.41 71.29 74.64 73.95 73.29 74.41 73.79 73.09	14.41 15.12 15.83 14.08 16.94 17.23 15.81 19.40 19.24 18.70 19.31 19.18 18.62	3.98	65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	± 9.6 %
10258- CAA 1 10259- CAB 1 10260- CAB 1 10261- CAB 1 10262- CAC	MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X Y Z X Y Z X Y Z X	4.61 4.94 3.94 4.40 4.50 3.71 5.63 5.59 5.12 5.66 5.65 5.16 6.64	70.67 71.28 68.78 73.49 73.41 71.29 74.64 73.95 73.29 74.41 73.79 73.09	15.12 15.83 14.08 16.94 17.23 15.81 19.40 19.24 18.70 19.31 19.18 18.62	3.98	65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	± 9.6 %
10258- CAA 1 10259- CAB 1 10260- CAB 1 10261- CAB 1 10262- CAC	MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Y Z X Y Z X Y Z X Y Z X	4.94 3.94 4.40 4.50 3.71 5.63 5.59 5.12 5.66 5.65 5.16 6.64	71.28 68.78 73.49 73.41 71.29 74.64 73.95 73.29 74.41 73.79 73.09	15.83 14.08 16.94 17.23 15.81 19.40 19.24 18.70 19.31 19.18 18.62	3.98	65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	± 9.6 %
10259- CAB 10260- CAB 10261- CAB 10262- CAC	MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Y	3.94 4.40 4.50 3.71 5.63 5.59 5.12 5.66 5.65 5.16 6.64	73.49 73.41 71.29 74.64 73.95 73.29 74.41 73.79 73.09	14.08 16.94 17.23 15.81 19.40 19.24 18.70 19.31 19.18 18.62	3.98	65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	±9.6 %
10259- CAB 10260- CAB 10261- CAB 10262- CAC	MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	4.40 4.50 3.71 5.63 5.59 5.12 5.66 5.65 5.16 6.64	73.49 73.41 71.29 74.64 73.95 73.29 74.41 73.79 73.09	16.94 17.23 15.81 19.40 19.24 18.70 19.31 19.18 18.62	3.98	65.0 65.0 65.0 65.0 65.0 65.0 65.0	±9.6 %
10259- CAB 10260- CAB 10261- CAB 10262- CAC	MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Y Z X Y Z X Y Z X	4.50 3.71 5.63 5.59 5.12 5.66 5.65 5.16 6.64	73.41 71.29 74.64 73.95 73.29 74.41 73.79 73.09	17.23 15.81 19.40 19.24 18.70 19.31 19.18 18.62	3.98	65.0 65.0 65.0 65.0 65.0 65.0	±9.6 %
10260- CAB 10261- CAB 10262- CAC	16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, MHz, MHz, MHz, MHz, MHz, MHz, MHz,	Z	3.71 5.63 5.59 5.12 5.66 5.65 5.16 6.64	71.29 74.64 73.95 73.29 74.41 73.79 73.09	15.81 19.40 19.24 18.70 19.31 19.18 18.62		65.0 65.0 65.0 65.0 65.0	
10260- CAB 10261- CAB 10262- CAC	16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, MHz, MHz, MHz, MHz, MHz, MHz, MHz,	X Y Z X Y Z X	5.63 5.59 5.12 5.66 5.65 5.16 6.64	74.64 73.95 73.29 74.41 73.79 73.09	19.40 19.24 18.70 19.31 19.18 18.62		65.0 65.0 65.0 65.0	
10260- CAB 10261- CAB 10262- CAC	16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, MHz, MHz, MHz, MHz, MHz, MHz, MHz,	Y Z X Y Z X Y Z	5.59 5.12 5.66 5.65 5.16 6.64	73.95 73.29 74.41 73.79 73.09	19.24 18.70 19.31 19.18 18.62		65.0 65.0 65.0	
10260- CAB 10261- CAB 10262- CAC	LTE-TDD (SC-FDMA, 100% R8, 3 MHz, QPSK) LTE-TDD (SC-FDMA, 100% R8, 5 MHz,	Z X Y Z X Y Z Z Z Z Z Z Z Z Z	5.12 5.66 5.65 5.16 6.64	73.29 74.41 73.79 73.09	18.70 19.31 19.18 18.62	3,98	65.0 65.0 65.0	±9.6 %
10261- CAB 10262- CAC	LTE-TDD (SC-FDMA, 100% R8, 3 MHz, QPSK) LTE-TDD (SC-FDMA, 100% R8, 5 MHz,	Z X Y Z X Y Z Z Z Z Z Z Z Z Z	5.12 5.66 5.65 5.16 6.64	73.29 74.41 73.79 73.09	18.70 19.31 19.18 18.62	3,98	65.0 65.0 65.0	±9.6 %
10261- CAB 10262- CAC	LTE-TDD (SC-FDMA, 100% R8, 3 MHz, QPSK) LTE-TDD (SC-FDMA, 100% R8, 5 MHz,	Y Z X Y Z	5.66 5.65 5.16 6.64	74.41 73.79 73.09	19.31 19.18 18.62	3.98	65.0 65.0	±9.6%
10261- CAB 10262- CAC	LTE-TDD (SC-FDMA, 100% R8, 3 MHz, QPSK) LTE-TDD (SC-FDMA, 100% R8, 5 MHz,	Y Z X Y Z Z	5.65 5.16 6.64	73.79 73.09	19.18 18.62	0,30	65.0	1 0.0 /0
10262- CAC	QPSK) LTE-TDD (SC-FDMA, 100% RB, 5 MHz,	Z X Y Z	5.16 6.64	73.09	18.62			
10262- CAC	QPSK) LTE-TDD (SC-FDMA, 100% RB, 5 MHz,	X Y Z	6.64					1
10262- CAC	QPSK) LTE-TDD (SC-FDMA, 100% RB, 5 MHz,	Y		79.89			65.0	
CAC		Z	C 45		21.46	3.98	65.0	± 9.6 %
CAC			6,18	77.99	20.80		65.0	
CAC			5.76	77.82	20.58		65.0	
	16-QAM)	X	6.16	76.06	20.94	3.98	65.0	± 9.6 %
10263-		Y	6.08	75.18	20.61		65.0	
10263-		Z	5.65	74.74	20.31		65.0	_
CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.92	74.19	19.85	3.98	65.0	± 9.6 %
37.13	04 Q) ((V)	Y	5.88	73.42	19.56		65.0	
		Z	5.46	_	19.26			
10264-	LTE-TOD (SC-FDMA, 100% RB, 5 MHz,	X	7.06	73.02 80.35	22.08	3.98	65.0 65.0	± 9.6 %
CAC	QPSK)	Y	6.58	78.41	21.33		65.0	
		Z	6.22	78.48	21.31		65.0	
10005	LTE TOD (DC EDMA 4000/ DD 40	_				3.98		1.0.6.0/
	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	6.14	73.98	20.08	3.98	65.0	± 9.6 %
		Y	6.11	73.28	19.76		65.0	
		Z	5.70	72.88	19.55		65.0	
	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	6.49	74.82	20.80	3.98	65.0	± 9.6 %
		Υ	6.47	74.12 _	20.48		65.0	
		Z	6.05	73.75	20.28		65.0	
	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	6.89	77.83	21,12	3.98	65.0	± 9.6 %
		ŤΥ	6.64	76.50	20.57		65.0	i
_		Z	6.28	76.48	20.56		65.0	
	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.74	73.83	20.41	3.98	65.0	± 9.6 %
-	in the TV secting	Y	6.75	73.29	20.14		65.0	+
		Z	6.34	72.90	19.96		65.0	+
	LTE-TDD (SC-FDMA, 100% RB, 15	X	6.70	73.43	20.30	3.98	65.0	± 9.6 %
CAC	MHz, 64-QAM)	+.,	0.70	70.01	00.05	+	00.0	+
<u> </u>		Y	6.72	72.91	20.05		65.0	+
<u> </u>		Z	6.33	72.54	19.87		65.0	
10270- CAC	LTE-TDO (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.73	75.36	20.29	3.98	65.0	± 9.6 %
		Y	6.65	74.55	19.93	1	65.0	
		Z	6.28	74.37	19.86	ĺ	65.0	

10274-	UMTS-FDD (HSUPA, Subtest 5, 3GPP	Х	2.71	67.22	15.89	0.00	150.0	± 9.6 %
CAB	Rel8.10)		2.63	66.07	15.19		150.0	
				66.07				
100==	111170 500 #101101 0 11 15 0000	Z	2.63	66.74	15.46	0.00	150.0	. 0.0.0/
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rei8.4)	X	1.85	70.28	17.09	0.00	150.0	± 9.6 %
		Υ	1.63	67.23	15.31		150.0	
		Z	1.68	68.63	16.04		150.0	
10277- ÇAA	PHS (QPSK)	Х	2.68	62.66	8.32	9.03	50.0	± 9.6 %
		Υ	2.92	63.45	9.18		50.0	
	-	Z	2.61	62.42	8.09		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	5.00	72.07	15.58	9.03	50.0	± 9.6 %
		Υ	5.64	74.07	16.99		50.0	
		Z	4.61	70.82	14.87		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	5 14	72.36	15.75	9.03	50.0	± 9.6 %
		Υ	5.79	74.34	17.13		50.0	
~~		Z	4.73	71.09	15.03		50.0	
10290-	CDMA2000, RC1, SO55, Full Rate	X	2.15	74.35	17.07	0.00	150.0	± 9.6 %
AAB	SDIVE 2000, NOT, 3000, Full Nato	Y	1.53	68.44	14,41	0.00	150.0	
		Z	1.63	70.38	14.96		150.0	_
40004	COMMONO DOS CORE CURTILIO			71.08	15.73	0.00	150.0	LO 6 0/
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	1.19			0.00	l.	± 9.6 %
		Y	0.88	65.51	12.89		150.0	
		Z	0.92	67.21	13.44		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	2.22	81.32	20.29	0.00	150.0	±9.6 %
		Y	1.05	68.84	14.94		150.0	
		Z	1.32	73.23	16.59		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	6.10	97.32	26.04	0.00	150.0	±9.6 %
		Υ	1.44	73.51	17.47		150.0	
		Z	2.49	82.73	20.73		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	7.92	80.88	22.05	9.03	50.0	± 9.6 %
		Υ	7.41	79.67	21.98		50.0	_
		Z	7.69	80.13	21.56		50.0	
10297- AAB	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	×	3.03	71.34	17.59	0.00	150.0	± 9.6 %
		Υ	2.81	69.29	16.41		150.0	
		Z	2.84	70.20	16.92		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.99	71.20	16.32	0.00	150.0	± 9.6 %
		Υ	_1.68	67.62	14.56		150.0	
		Z	1.69	68.79	14.85		150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	3.65	74.02	16.47	0.00	150.0	± 9.6 %
		Υ	2.90	70.12	15.04		150.0	
		Z	2.69	70.10	14.58		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	2.36	67.27	12.77	0.00	150.0	± 9.6 %
		Y	2.27	66.00	12.40		150.0	-
		Ż	1.97	65.27	11,56		150.0	
10301- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.85	65.77	17.81	4.17	50.0	± 9.6 %
		Υ	4.89	65.27	17.48		50.0	1
		ż	4.67	65.08	17.31		50.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.31	66.30	18.48	4.96	50.0	± 9.6 %
7001	ionina, de orc, rodo, o o rice symbols)	Υ	5.37	65.88	18.18		50.0	+
	-	Z	5.23		18.26			+
			5,23	66.11	10.20	_	50.0	

10303- AAA	IEEE 802.16e WiMAX (31:15. 5ms, 10MHz, 64QAM, PUSC)	X	5.06	65.98	18.35	4.96	50.0	± 9.6 %
		Υ	5.13	65,59	18.07		50.0	
		Z	4.99	65.77	18.11		50.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms. 10MHz, 64QAM, PUSC)	Х	4.85	65.77	17.79	4.17	50.0	± 9.6 %
		Y	4.91	65.36	17.51		50.0	
		Z	4.78	65.58	17.56		50.0	
10305- AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.64	68.43	20.40	6.02	35.0	± 9.6 %
		Υ	4.69	67.84	20.02		35.0	
10000	IESS and to Million to	Z	4.57	68.20	20.06		35.0	
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.87	66.99	19.68	6.02	35.0	± 9.6 %
		Υ	4.95	66.59	19.40		35.0	
1000=		Z	4.81	66.83	19.43		35.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms. 10MHz, QPSK, PUSC, 18 symbols)	X	4.80	67.31	19.73	6.02	35.0	± 9.6 %
		Y	4.88	66.92	19.45		35.0	
10000		Z	4.73	67.11	19.45		35.0	
10308- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.78	67.53	19.89	6.02	35.0	± 9.6 %
		Y	4.84	67.08	19.57		35.0	
		Z	4.71	67.34	19,60		35.0	
10309- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.94	67.26	19.85	6.02	35.0	±9.6%
		Ϋ́	5.02	66.86	19.56		35.0	
		Z	4.87	67.07	19.58		35.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.83	67.09	19.68	6.02	35.0	± 9.6 %
		Y	4.90	66.69	19.39		35.0	
		Z	4.77	66.93	19.42		35.0	
10311- AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	3.41	70.52	17.15	0.00	150.0	± 9.6 %
		Y	3.16	68.65	16.09		150.0	
		Z	3.21	69.47	16.54		150.0	
10313- AAA	iDEN 1:3	X	3.68	72.30	15.64	6.99	70.0	±9.6 %
		Y	3.59	71.64	15.56		70.0	
		Z	3.12	70.65	14.99		70.0	_
10314- AAA	iDEN 1:6	Х	4.97	78.18	20.61	10.00	30.0	± 9.6 %
		Y	4.49	76.31	20.14		30.0	
		Z	4.24	75.87	19.72		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.14	64.79	16.11	0.17	150.0	± 9.6 %
		Y	1.10	63.31	14.87		150.0	1
		Z	1.09	63.94	15.35		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	X	4.65	66.82	16.45	0.17	150.0	± 9.6 %
		Y	4.68	66.46	16.21		150.0	
		Z	4.59	66.66	16.28		150.0	
10317- AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.65	66.82	16.45	0.17	150.0	± 9.6 %
		Υ	4.68	66.46	16.21		150.0	
		Z	4.59	66.66	16.28		150.0	
10400- AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	4.79	67.25	16.52	0.00	150.0	± 9.6 %
		Υ	4.82	66.86	16.24		150.0	
		Z	4.72	67.07	16.34		150.0	
10401- AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	Х	5.46	67.33	16.61	0.00	150.0	± 9.6 %
		Y	5.48	67.01	16.38		150.0	
		2	5.41	67.21	16.48	1	150.0	

February 16, 2017

10402- AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.73	67.72	16.65	0.00	150.0	± 9.6 %
, , ,		Υ	5.76	67.48	16.46		150.0	
		Z	5.66	67.55	16.49		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	2.15	74.35	17.07	0.00	115.0	± 9.6 %
		Υ	1.53	68.44	14.41		115.0	
		Z	1.63	70.38	14.96		115.0	
10404- AA 8	CDMA2000 (1xEV-DO, Rev. A)	X	2.15	74.35	17.07	0.00	115.0	± 9.6 %
-		Υ	1.53	68.44	14.41		115.0	
		Z	1.63	70.38	14.96		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	120.29	29.69	0.00	100.0	± 9.6 %
		Υ	25.43	102.70	26.12		100.0	
		Z	100.00	122.45	30.52		100.0	
10410- AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	100.00	117.92	28.43	3.23	80.0	± 9.6 %
		Υ	14.96	93.65	22.87		80.0	
		Z	15.43	95.49	23.12		80.0	
10445	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	X	1.06	64.01	15.65	0.00	150.0	± 9.6 %
10415- AAA	Mbps, 99pc duty cycle)				14.40	0.00	Į.	19.0 %
		Y	1.02	62.58			150.0	
		Z	1.02	63.30	14.94		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.61	66.89	16.46	0.00	150.0	± 9.6 %
		Y	4.63	66.50	16.19		150.0	
		Z	4.56	66.73	16.29		150.0	
10417- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	×	4.61	66.89	16.46	0.00	150.0	± 9.6 %
		Y	4.63	66.50	16.19		150.0	
		Z	4.56	66.73	16.29		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.61	67.06	16.49	0.00	150.0	± 9.6 %
		Y	4.62	66.64	16.20		150.0	_
		Z	4.55	66.90	16.31		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.63	67.00	16.48	0.00	150.0	±9.6 %
	prodriboto	Y	4.64	66.60	16.20	-	150.0	
		Ż	4.57	66.84	16.31		150.0	_
10422-	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.74	66.99	16.49	0.00	150.0	± 9.6 %
AAA	Or Sity	1/	4.70	66.64	16.00	-	450.0	-
		Y	4.76	66.61	16.22		150.0	
10423- AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.68	66.84 67.33	16.32 16.61	0.00	150.0 150.0	± 9.6 %
~~~	HIDPS, TO-GONY)	- V	4.05	66.06	16.25	•	1500	<del>                                     </del>
	<del> </del>	Y	4.95	66.96	16.35	<del> -</del>	150.0	
		Z	4.85	67.16	16,43		150.0	
10424- AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.84	67.28	16.58	0.00	150.0	± 9.6 %
		Y	4.86	66.90	16.32	<u> </u>	150.0	
	1555 000 44 (1)T O 6 11 45 Mb	Z	4.77 5.42	67.11 67.55	16.41 16.71	0.00	150.0 150.0	±9.6 %
10425-	IEEE 802.11n (HT Greenfield, 15 Mbps,	^		1	1			
10425- AAA	BPSK) BPSK)			67.0E	40.50	-	450.0	<del> </del>
		Y	5.45	67.25	16.50		150.0	
AAA	BPSK)	Y	5.45 5.36	67.39	16.56		150.0	
		Y Z X	5.45 5.36 5.43	67.39 67.55	16.56 16.71	0.00	150.0 150.0	± 9.6 %
10426-	IEEE 802.11n (HT Greenfield, 90 Mbps,	Y	5.45 5.36	67.39	16.56	0.00	150.0	± 9.6 %

10427- AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5,44	67.54	16.71	0.00	150.0	± 9.6 %
		Y	5.47	67.26	16.49		150.0	
		Z	5.38	67.39	16.56		150.0	
10430- AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	Х	4.40	71.25	18.61	0.00	150.0	± 9.6 %
		Y	4.35	70.36	18.17		150.0	
		Z	4.31	71.03	18.35		150.0	
10431- AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.33	67.54	16.54	0.00	150.0	± 9.6 %
		_Y ]	4.34	67.01	16.21		150.0	
		2	4.25	67.32	16.31	-	150.0	
10432- AAA	LTE-FOD (OFDMA. 15 MHz, E-TM 3.1)	Х	4.61	67.36	16.56	0.00	150.0	± 9.6 %
		_Y	4.63	66.93	16,27		150.0	
		[ Z ]	4.54	67,17	16.36		150.0	
10433- AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.85	67.32	16.61	0.00	150.0	± 9.6 %
		Y	4.88	66.94	16.34		150.0	
		Z	4.79	67.14	16.43		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.55	72.27	18.68	0.00	150.0	± 9.6 %
		Υ	4.45	71.15	18.17		150.0	
		Z	4.44	71.99	18.37		150.0	
10435- AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	117.67	28.31	3.23	80.0	± 9.6 %
		Y	14.13	92.79	22.58		80.0	
		Z	14.22	94.31	22.74		80.0	
10447- AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.66	67.76	16.06	0.00	150.0	± 9.6 %
		Υ	3.63	66.99	15.63		150.0	
		Z	3,55	67.40	15.69		150.0	
10448- AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Chppin 44%)	X	4.16	67.33	16.41	0.00	150.0	± 9.6 %
		Y	4.16	66,78	16.07		150.0	
		Ž	4,08	67.10	16.17		150.0	
10449- AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	Х	4.42	67.20	16.47	0.00	150.0	± 9.6 %
		Y	4.43	66.75	16.17		150.0	
		Z	4.35	67.00	16.27		150.0	
10450- AAA	LTE-FDD (OFDMA, 20 MHz. E-TM 3.1, Clipping 44%)	X	4.61	67.10	16.47	0.00	150.0	±9.6 %
		Y	4.62	66.69	16,19		150.0	
		Z	4.55	66.92	16.29		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH. Clipping 44%)	X	3.58	68.09	15.78	0.00	150.0	± 9.6 %
		Y	3.55	67.22	15.34		150.0	
		Z	3.45	67.62	15.34		150.0	
10456- AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.28	68.07	16.83	0.00	150.0	± 9.6 %
		Y	6.31	67.86	16.67		150.0	
		_ Z_,	6.22	67.92	16.70		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.84	65.52	16.19	0.00	150.0	± 9.6 %
		Y	3.84	65.13	15.90		150.0	
		Z	3.80	65.37	16.00		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B. 2 carriers)	X	3.40	67.41	15.23	0.00	150.0	±9.6 %
		Υ	3.37	66.54	14.82		150.0	
		Z	3.27	66.94	14.76		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.43	65.31	15.89	0.00	150.0	± 9.6 %
		Y	4.40	64.54	15.50	· · ·	150.0	

February 16, 2017

10460- AAA	UMTS-FDD (WCDMA, AMR)	X	1.15	72.82	18.98	0.00	150.0	± 9.6 %
		Υ	0.88	66.84	15.49		150.0	
		Z	0.96	69.40	16.94		150.0	
10 <b>461-</b> AAA	LTE-TDD (SC-FDMA, 1 R8, 1.4 MHz, QPSK, UL Subframe=2,3,4,7.8,9)	X	95.41	121.16	30.15	3.29	80.0	± 9.6 %
		Y	7.59	86.68	21.61		80.0	
		Z	6.86	87.33	21.69		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.45	63.59	9.76	3.23	80.0	± 9.6 %
		Υ	1.87	65.08	11.10		80.0	
		Z	1.12	61.67	8.95		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	1.06	60.48	7.81	3.23	80.0	±9.6 %
		Υ	1.48	62.32	9.40		80.0	
		Z	0.95	60.00	7.62		80.0	
10464- AAA	LTE-TOD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	51.80	110.73	26.99	3.23	80.0	± 9.6 %
		Υ	5.92	82.69	19.81		80.0	
		Z	5.05	82.51	19.56		80.0	
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	1.33	62.76	9.31	3.23	80.0	± 9.6 %
		Υ	1.73	64.26	10.67		. 80.0	
		Z	1.05	61.14	8.62		80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	1.02	60.12	7.58	3.23	80.0	± 9.6 %
		Υ	1.41	61,86	9.13		80.0	
		Z	0.96	60.00	7.57		80.0	
10467 <i>-</i> AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	69.89	114,62	27.91	3.23	80.0	± 9.6 %
		Υ	6.33	83.65	20.15		80.0	
		Z	5.51	83.69	19.97		80.0	
10468- AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	1.35	62.95	9.42	3.23	80.0	± 9.6 %
		Υ	1.76	64.44	10.77		80.0	•
		Z	1.07	61.26	8.70		80.0	
10469- AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	1.02	60.12	7.58	3,23	80.0	± 9.6 %
		Υ	1.41	61.87	9.14		80.0	
		2	0 95	60.00	7.57		80.0	
10470- AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	71.20	114.86	27.95	3.23	80.0	± 9.6 %
		Υ	6.32	83.65	20.14		80.0	
		_ Z	5.50	83.70	19.96		80.0	
10471- AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	1.34	62.89	9.37	3.23	0.08	± 9.6 %
		Υ	1.75	64.40	10.74		0.08	
		Z	1.06	61.22	8.67		0.08	
10472- AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.01	60.08	7.55	3.23	80.0	± 9.6 %
		Y	1.40	61.84	9.11		80.0	
		Z	0.95	60.00	7,55		80.0	
10473- AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	70.64	114.73	27.92	3.23	0.08	± 9.6 %
		Υ	6.31	83.61	20.12		80.0	
		Z	5.48	83.65	19.94		80.0	
10474- AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	1.34	62.86	9.36	3.23	80.0	± 9.6 %
		Y	1.74	64.37	10.73		80.0	
	a	Z	1.06	61.20	8.65		80.08	
10475- AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	1.0 <b>1</b>	60.07	7.55	3.23	80.0	± 9.6 %
		Y	1.40	61.82	9,10		80.0	1
		Z	0.95	60.00	7.55		80.0	1

EX3DV4- SN:3989

10477- AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	1.31	62.68	9.26	3.23	80.0	± 9.6 %
		Y	1.72	64,21	10.63		80.0	
		Z	1.04	61.08	8.57		80.0	
10478- AAB	LTE-TDD (SC-FDMA. 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	1.01	60.04	7.52	3.23	80.0	± 9.6 %
		Υ	1.40	61,79	9.08		80.0	
		Z	0.95	60.00	7.54		80.0	
<b>1</b> 0479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.21	82.44	21.62	3.23	80.0	± 9.6 %
		Υ	4 30	75.77	19.32		0.08	
		Z	4.40	77.46	19.69		80.0	
10480- AAA	LTE-TOD (SC-FDMA, 50% R8, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.04	77.60	18.10	3.23	80.0	± 9.6 %
		Υ	4.60	73.25	16.87		80.0	
		Z	4.07	72.76	16.20		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.87	74.25	16.54	3.23	80.0	±9.6 %
		Y	4.11	71.35	15.81		80.0	
		Z	3.44	70.18	14.83		80.0	
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.09	71.90	16.81	2.23	80.0	± 9.6 %
		Υ	2.67	69.02	15.71		80.0	
		2	2.46	68.91	15.33		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.07	72.05	16.31	2.23	80.0	± 9.6 %
		Y	3.7 <b>1</b>	70.13	15.79		80.0	
		Z	3.16	68.85	14.76		80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.89	71.21	15.98	2.23	80.0	± 9.6 %
		Υ	3.63	69.60	15.58		80.0	
		Z	3.07	68.22	14.50		0.08	
10485- AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.43	73.25	18.22	2.23	80.0	± 9.6 %
		Y	2.97	70.20	16.94		80.0	
		Z	2.84	70.62	16.96		80.0	}
10486- AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.27	69.25	16.13	2.23	80.0	± 9.6 %
	·	Y	3.09	67.70	15.53		80.0	
		Z	2.88	67.62	15.21		80.0	
10487- AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.27	68.89	15.97	2.23	80.0	± 9.6 %
		Y	3.12	67.48	15.43		80.0	
		Z	2.90	67.34	15.07		0.08	
10488- AA <b>B</b>	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.73	72.59	18.58	2.23	80.0	± 9.6 %
		Y	3.41	70.29	17.49		80.0	-
		Z	3.26	70.62	17.64		80.0	
10489- AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.56	68.98	17.15	2.23	80.0	± 9.6 %
		Y	3.45	67.76	16.56		80.0	
		Z	3.28	67.85	16.52		80.0	
10490- AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.66	68.81	17.10	2.23	80.0	± 9.6 %
		Y	3,56	67.68	16.55		80.0	
		Z	3.38	67.76	16,50		80.0	
10491- AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.94	7 <b>1</b> ,10	18.09	2.23	80.0	± 9.6 %
		Υ	3.73	69.47	17.27		80.0	
	1	Z	3.56	69.66	17.38		80.0	
10492- AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3,91	68.32	17.16	2.23	80.0	± 9.6 %
		Y	3.85	67.42	16.69		80.0	
		Z	3.67	67.44	16.66		80.0	

10493- AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.98	68.19	17.12	2.23	80.0	± 9.6 %
		Y	3.93	67.34	16.67		80.0	
		Z	3.75	67.35	16.64		80.0	
10494- AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.28	72.63	18.54	2.23	80.0	± 9.6 %
		Υ	3 97	70.68	17.61		80.0	
		Z	3.81	70.92	17.75		80.0	
10495- AA8	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.95	68.73	17.35	2.23	80.0	± 9.6 %
		Υ	3.88	67.79	16.85		80.0	
10496- AA <b>B</b>	LTE-TOD (SC-FDMA, 50% RB, 20 MHz.	Z	3.70 4.02	67.78 68.45	16.83 17.27	2.23	80.0	± 9.6 %
7/10	64-QAM, UL Subframe=2,3,4,7,8,9)	Y	3.97	67.60	16.81		80.0	
		Z						
40407	1.TE 700 (00 50) 4 4000 FD 4 4	_	3.79	67.58	16.78	2.00	80.0	1000
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.26	67.84	14.21	2.23	80.0	± 9.6 %
		Y	2.10	66.19	13.69		80.0	
10400	LITE TOD (CO CDMA 4000) DD 44	Z	1.80	65.10	12.68	2.00	0.08	1000
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.83	62.76	10.83	2.23	80.0	± 9.6 %
		Υ	1.95	62.88	11.21		0.08	
		Z	1.56	61.21	9.73		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.79	62.25	10.44	2.23	80.0	± 9.6 %
		Υ	1.93	62.52	10.91		80.0	
		Z	1.53	60.80	9.38		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe≠2,3,4,7,8,9)	X	3.49	72.65	18.26	2.23	80.0	± 9.6 %
		Y	3.11	69.99	17.08		80.0	
		Z	2.98	70.42	17.17		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.40	69.17	16.54	2.23	80.0	± 9.6 %
		Υ	3.25	67.74	15.93		80.0	
		2	3.07	67.80	<u>1</u> 5.75		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.46	69.03	16.43	2.23	80.0	± 9.6 %
		Y	3.32	67.67	15.86		80.0	
		2	3,13	67.70	15.66		0.08	
10503- AAB	LTE-TDD (SC-FOMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.69	72.41	18.49	2.23	80.0	± 9.6 %
		Υ	3.37	70.13	17.41		80.0	
		Z	3.22	70.46	17.56		80.0	
10504- AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.55	68.90	17.10	2.23	80.0	± 9.6 %
		Y	_ 3.44	67.68	16.51		80.0	
		Z	3.27	67.77	16.47		80.0	
10505- AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.64	68.73	17.05	2.23	80.0	± 9.6 %
		Υ	3.55	67.60	16.50		80.0	
10551		Z	3,37	67.68	16.45		80.0	
10506- AAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.25	72.50	18.48	2.23	80.0	± 9.6 %
		Υ	3.94	70.56	17.55		0.08	
		Z	3.78	70.80	17.69		80.0	
10507- AAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.93	68.67	17.31	2.23	80.0	± 9.6 %
_		Υ	3.87	67.73	16.81		80.0	
		Z	3.68	67.72	16.79		80.0	

EX3DV4- SN:3989

10508- AAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.01	68.39	17.23	2.23	80.08	±9.6 %
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Y	3.96	67.54	16.77		80.0	
		Z	3.77	67.52	16.74		0.08	
10509- AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.55	71.21	17.97	2.23	80.0	± 9.6 %
		Υ	4.34	69.83	17.28		80.0	
		Z	4-17	69.95	17.36		80.0	
10510- AAB	LTE-TDD (SC-FDMA, 100% R8, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.42	68.45	17.31	2.23	80.0	± 9.6 %
		Υ	4.38	67.74	16.91		0.08	
		Z	4.19	67.66	16.88		80.0	
10511- AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.47	68.19	17.25	2.23	80.0	±9.6%
	1	Y	4.44	67.53	16.87		0.08	
		Z	4.25	67.45	16.84		80.0	
10512- AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.78	72.81	18.45	2.23	80.0	±9.6%
		Y	4.45	71.03	17.61		80.0	
10510		Z	4.29	71.22	17,73	0.00	80.0	1000
10513- AA <b>B</b>	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.31	68.74	17.42	2.23	80.0	± 9.6 %
		Y	4.26	67.96	16.98		80.0	
		Z	4.07	67.87	16.95		80.0	
10514- AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	4.33	68.31	17.30	2.23	80.0	± 9.6 %
		Y	4.29	67.61	16.90		80.0	_
		Z	4.10	67.51	16.86		80.0	_
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	Х	1.02	64.30	15.79	0.00	150 0	± 9.6 %
		Υ	0.98	62.73	14,44		150.0	
		Z	0.99	63.50	15.02		150.0	
1051 <b>6</b> - AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	1.05	81.48	23.13	0.00	150.0	± 9.6 %
		Y	0.55	67.67	15.91		150.0	
10547	VEEE 000 115 MEE 0 1 CH- /DCCC 11	Z	0.68 0.92	72.70 67.38	18.71 17.13	0.00	150.0 150.0	± 9.6 %
10517- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	<u> </u>	0.92		14.88	0.00	150.0	29.6 %
		Z	0.85	64.32	15.84		150.0	
10518- AAA	IEEE 802.11a/h WiFi 5 GHz (OFOM, 9 Mbps, 99pc duty cycle)	X	4.61	66.98	16.45	0.00	150.0	± 9.6 %
		Y	4.62	66.57	16.17		150.0	
		Z	4.55	66.81	16.27		150.0	
10519- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.80	67.22	16.56	0.00	150.0	± 9.6 %
		Y	4.83	66.84	16.30		150.0	
		2	4.73	67.04	16.38	0.00	150.0	1.0.0.01
10520- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.66	67.20 66.81	16.50	0.00	150.0	± 9.6 %
	_	Z	4.68 4.59	67.01	16.23		150.0	
10521- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.59	67.21	16.49	0.00	150.0	± 9.6 %
		Υ	4.61	66.81	16.21		150.0	
		] Z	4.52	67.01	16.30		150.0	
10522- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.65	67.27	16.56	0.00	150.0	± 9.6 %
		Y	4.66	66.83	16.27		150.0	
		Z	4.58	67.10	16.38	<u> </u>	150.0	

Certificate No: EX3-3989_Feb17

10523- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.53	67.15	16.42	0.00	150.0	± 9.6 %
		Y	4.54	66.71	16.12		150.0	
		Z	4.46	66.97	16.23	_	150.0	
10524- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.59	67.19	16.53	0.00	150.0	± 9.6 %
		Y	4.61	66.77	16.24		150.0	
		Z	4.52	67.01	16,35	-	150.0	
10525-	IEEE 802.11ac WiFi (20MHz, MCS0,	X	4.57	66.24	16.13	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)	Y	4.58	65.81	15.83		150.0	
	<del></del>	Z	4.51	66.07	15.94		150.0	
10526-	IEEE 802.11ac WiFi (20MHz, MCS1,	X	4.75	66,63	16.27	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)	+ ,	4.76	- 00.00	45.00		450.0	
		Y	4.76	66.20	15.98		150.0	
		Z	4.68	66.44	16.08	2.00	150.0	
10527- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.67	66.60	16.22	0.00	150.0	± 9.6 %
		Υ	4.68	66.16	15.92		150.0	
		Z	4.60	66.40	16.03		150.0	
10528- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	Х	4.69	66.62	16.25	0.00	150.0	± 9.6 %
		Y	4.70	66.18	15.96		150.0	
		Z	4.62	66.42	16,06		150.0	
10529- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.69	66.62	16.25	0.00	150.0	± 9.6 %
<i>7</i> 000	oopo daty oyde)	Y	4.70	66.18	15.96		150.0	_
	<u> </u>	Ż	4.62	66,42	16.06	_	150.0	
10531- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.69	66.74	16.28	0.00	150.0	± 9.6 %
7001	- Sopo daty cycle)	Y	4.70	66.31	15.98	_	150.0	
		Ż	4.61	66.52	16.08		150.0	
10532- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.55	66.60	16.22	0.00	150.0	± 9.6 %
700.	oope daty dyele)	Y	4.55	66.16	15.91		150.0	
		Z	4.47	66.38	16.01	_	150.0	_
10533- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.70	66.66	16.24	0.00	150.0	± 9.6 %
700.	sopo caty oyes/	Y	4,71	86.21	15.94	-	150.0	
		Z	4.63	66.47	16.05		150.0	
10534-	IEEE 802.11ac WiFi (40MHz, MCS0,	$\frac{Z}{X}$	5.21	66.67	16.27	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)					0.00		1 3.0 %
		Y	5.23	66.34	16.03		150.0	
1000	1552 205 11 1155 1101 11 1100 1	Z	5.15	66.50	16.10		150.0	
10535- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	Х	5.28	66.84	16.34	0.00	150.0	± 9.6 %
		Υ	5.29	66.49	16.09		150.0	
		Z	5.21	66.67	16.18		150.0	
10536- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.15	66.82	16.31	0.00	150.0	± 9.6 %
		Y	5.16	66.46	16.06		150.0	
		Ž	5.08	66.63	16.14		150.0	
10537- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.21	66.77	16.29	0.00	150.0	± 9.6 %
	, , , , , , ,	Y	5.22	66.43	16.05		150.0	
		Z	5.14	66.59	16.13		150.0	1
10538- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.30	66.79	16.34	0.00	150.0	± 9.6 %
7001	Sopo daty dydio)	Y	5.33	66.49	16.12		150.0	<del>-</del>
		Z	5.23	66.61	16.12	<del> </del>	150.0	<del>1</del> —
10540-	JEEE 802.11ac WiFi (40MHz, MCS6,	X	5.23	66.80	16.36	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)		<u></u>			- 0.00		1 3.0 %
		Y	5.24	66.45	16.11		150.0	_
		Z	5.16	66.63	16.20		150.0	1

10541- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.20	66.68	16.29	0.00	150.0	± 9.6 %
,,,,,		Y	5.22	66.35	16.05		150.0	
		Z	5.13	66.50				
10542-	NEEE 902 1100 M/SE /4084N = AACCO				16.12	0.00	150.0	. 0.00/
AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.35	66.73	16.33	0.00	150.0	± 9.6 %
		Y	5.37	66.41	16.10		150.0	
		Z	5.29	66.56	16,17		150.0	
10543- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.43	66.75	16.36	0.00	150.0	± 9.6 %
		Y	5.45	66.44	16.13		150.0	
		Z	5.36	66.59	16.20		150.0	
10544- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5,51	66.77	16.24	0.00	150.0	± 9.6 %
		Υ	5.52	66.46	16.02		150.0	
		Z	5.45	66.61	16.09		150.0	
10545- AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	Х	5.70	67,17	16.39	0.00	150.0	± 9.6 %
		Y	5.72	66.87	16.17		150.0	
		Z	5.64	67.00	16.24	41	150.0	
10546- AAA	IEEE 802.11ac WiFi (80MHz MCS2, 99pc duty cycle)	X	5.58	67.00	16.32	0.00	150.0	± 9.6 %
		Y	5.60	66.72	16.11		150.0	
		Z	5.52	66.82	16.16		150.0	
10547-	IEEE 802.11ac WiFi (80MHz, MCS3,	X	5.65	67.03	16.33	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)	Y	5.69	66.79	16.14	0.00	150.0	1 9.0 /6
	_			<del> </del>				
10510		Z	5.59	66.85	16.17	2.22	150.0	
10548- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.90	67.95	16.76	0.00	150.0	± 9.6 %
		Υ	5.96	67.77	16.60		150.0	
		Z	5.81	67.71	16.57		150.0	
10550- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.61	66.99	16.33	0.00	150.0	± 9.6 %
		ŀΥ	5.62	66.69	16.11		150.0	
	-	Z	5.54	66.83	16.18		150.0	
10551- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.62	67.05	16.32	0.00	150.0	± 9.6 %
,,,,,	Sope daily dyoldy	Y	5.63	66.75	16.10		150.0	
		2	5.55	66.88	16.16		150.0	
10552- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.53	66.85	16.23	0.00	150.0	± 9.6 %
, , ,	2223 4013 03007	Y	5.54	66.53	16.01		150.0	
	1	2	5.47	66.68	16.08		150.0	
10553- AAA	)EEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.61	66.88	16.27	0.00	150.0	± 9.6 %
		Y	5.63	66.59	16.06		150.0	
		Z	5.55	66.72	16.12		150.0	
1055 <b>4</b> - AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.91	67.12	16.32	0.00	150.0	± 9.6 %
		Y	5.92	66.84	16.12	1	150,0	
		Z	5.86	66.96	16.18		150.0	
10555- AAA	IEEE 1602.11ac WiFi (160MHz, MCS1. 99pc duly cycle)	X	6.04	67.42	16.44	0.00	150.0	± 9.6 %
- * -	[]	Y	6.06	67.15	16.25	ì	150.0	
		Ż	5.98	67,25	16.30		150.0	
10556- AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.06	67.46	16.46	0.00	150.0	± 9.6 %
, , , ,	Jopo daily office	Y	6.08	67.18	16.26		150.0	
	+	Z	6.00	67.30	16.31	+	150.0	<u> </u>
10557-	IEEE 1602.11ac WiFi (160MHz, MCS3,	X	6.03	67.38	16.44	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)	٠,,	0.05	67.40	10.05	+	100.0	-
		Y	6.05	67.12	16.25		150.0	-
		Z	5.97	67.21	16.29		150.0	

10558- AAA	iEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.08	67.55	16.54	0.00	150.0	± 9.6 %
		Y	6.11	67.29	16.35		150.0	
		Z	6.02	67.37	16.38		150.0	
10560- AAA	IEEE 1602.11ac WiFi (160MHz. MCS6, 99pc duty cycle)	X	6.08	67.40	16.50	0.00	150.0	± 9.6 %
		Y	6.10	67.14	16.31		150.0	
		Ζ:	6.02	67.23	16,35		150.0	
10561- AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	6.00	67.36	16.52	0.00	150.0	± 9.6 %
		Y	6.02	67,10	16.33		150.0	
		Z	5.94	67.19	16.37		150.0	
10562- AAA	IEEE 1602.11ac WiFi (160MHz. MCS8, 99pc duty cycle)	Х	6.13	67.76	16.72	0.00	150.0	± 9.6 %
		Y	6.16	67.53	16.55		150.0	
		Z	6.06	67.56	16.55		150.0	
10563- AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	Х	6.41	68.19	16.88	0.00	150.0	± 9.6 %
		Y	6.51	68.12	16.79		150.0	
		Z	6.27	67.80	16.63		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	Х	4.93	67.01	16.57	0.46	150.0	± 9.6 %
		Υ	4.95	66.66	16.32		150.0	
		Z	4.87	66.86	16.40		150,0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	5.17	67.46	16.88	0.46	150.0	± 9.6 %
		Y	5.20	67.14	16.66		150.0	
		Z	5.10	67.30	16.72		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	Х	5.00	87.32	16.71	0.46	150.0	± 9.6 %
		Υ	5.03	66.98	16.47		150.0	
		Z	4.93	67.15	16.53		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	Х	5.03	67.71	17.05	0.46	150.0	± 9.6 %
		Y	5.06	67.38	16.82		150.0	
		Z	4,96	67.54	16.88		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	Х	4.91	67.09	16.47	0.46	150.0	± 9.6 %
		Υ	4.94	66.71	16.21		150.0	
		Z	4.84	66.92	16.30		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	Х	4.97	67.76	17.09	0.46	150.0	±9.6 %
		Υ	5.00	67.40	16.85		150.0	
		Z	4.91	67.61	16.93		150.0	
10 <b>57</b> 0- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	5.02	67.64	17.04	0.46	150.0	±9.6 %
		Y	5.05	67.27	16.80		150.0	
		Z	4.95	67.48	16.88		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	Х	1.22	65.28	16.28	0.46	130,0	± 9.6 %
		Υ	1.18	63.83	15.10		130.0	
		Z	1,16	64.32	15.49		130.0	1
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	Х	1.24	65.93	16.67	0.46	130.0	± 9.6 %
		Y	1.19	64.32	15,41		130.0	
		Z	1.17	64.86	15.83		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	Х	5.88	104.51	29.74	0.46	130.0	± 9.6 %
		Υ	1.27	76.18	19.42		130.0	
		Z	1.79	83.72	22.65		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	Х	1.45	73.06	20.24	0.46	130.0	± 9.6 %
477774		Y	1.25	68.98	17.79		130.0	
		Z	1.27	70.37	18.67		130.0	

EX3DV4- SN:3989

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Х	4.69	66.72	16.54	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)		1-200					2.2 /4
		Y	4.73	66.38	16.31		130.0	
		Z	4.64	66.57	16.37		130.0	
10576- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	X	4.72	66.89	16.61	0.46	130.0	± 9.6 %
		Y	4.75	66.54	16.38		130.0	
		Z	4.66	66.73	16.44		130.0	
10577- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	Х	4.93	67.19	16.78	0.46	130.0	± 9.6 %
		Y	4.97	66.87	16.56		130.0	
		Z	4.87	67.03	16.61		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	Х	4.83	67.35	16.88	0.46	130.0	±9.6 %
		Y	4.87	67.03	16.66		130.0	
		Z	4.76	67.18	16.71		130.0	-
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.59	66.66	16.21	0.46	130.0	± 9.6 %
		Y	4.63	66.32	15.97		130.0	
		Z	4.53	66.46	16.02		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	X	4.64	66.68	16.23	0.46	130.0	± 9.6 %
		Υ	4.67	66.32	15.98		130.0	
		Z	4.57	66.50	16.04		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.73	67.40	16.82	0.46	130.0	±9.6 %
		Y	4.76	67.04	16.58		130.0	
		Z	4.66	67.21	16.64		130.0	
10582- AAA	IEEE 802,11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.54	66.42	16.01	0.46	130.0	± 9.6 %
		Y	4.58	66.08	15.76		130.0	_
		Z	4.47	66.23	15.81		130.0	
10583- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	Х	4.69	66.72	16.54	0.46	130.0	±9.6 %
	The state of the s	Y	4.73	66.38	16.31		130.0	
		Ž	4.64	66.57	16.37		130.0	
10584- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	Х	4.72	66.89	16.61	0.46	130.0	± 9.6 %
		Y	4,75	66.54	16.38		130.0	
		Z	4.66	66.73	16.44		130.0	_
10585- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	Х	4.93	67.19	16.78	0.46	130.0	± 9.6 %
		Y	4.97	66.87	16.56		130.0	
		Z	4.87	67.03	16.61		130.0	
10586- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	Х	4.83	67.35	16.88	0.46	130.0	± 9.6 %
		Y	4.87	67.03	16.66		130.0	
		Z	4.76	67.18	16.71		130.0	
10587- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.59	66,66	16.21	0.46	130.0	± 9.6 %
		Y	4.63	66.32	15.97		130.0	
		Z	4.53	66.46	16.02		130.0	
10588- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.64	66.68	16.23	0.46	130.0	± 9.6 %
		Υ	4.67	66.32	15.98		130.0	
		Z	4.57	66.50	16.04		130.0	
10589- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	Х	4.73	67.40	16.82	0.46	130.0	± 9.6 %
		Υ	4.76	67.04	16.58		130.0	
		Z	4.66	67,21	16.64		130.0	
10590-	IEEE 802,11a/h WiFi 5 GHz (OFDM, 54	X	4.54	66.42	16.01	0.46	130.0	± 9.6 %
		1						
10590- AAA	Mbps, 90pc duty cycle)	Y	4.58	66.08	15.76		130.0	

February 16, 2017

Certificate No: EX3-3989_Feb17

10591-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.85	66.77	16.63	0.46	130.0	± 9.6 %
AAA	MCS0, 90pc duty cycle)	Y	4.88	66.46	16,42		130.0	
	-	Z	4.79	66.63	16.47		130.0	
10592- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	5.00	67.12	16.76	0.46	130.0	±9.6 %
	WOOT, Superday Cycle	Y	5.04	66.80	16.55		130.0	
		2	4.94	66.97	16.60		130.0	
10593- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.93	67.04	16.65	0.46	130.0	±9.6 %
/ / / /	mosz, sopo daty cycley	Y	4.97	66.73	16.44		130.0	
		Z	4.86	66.88	16.48		130.0	
10594- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.98	67.20	16.80	0.46	130.0	± 9.6 %
		Y	5.02	66.88	16.59		130.0	
		Z	4.92	67.04	16.64		130.0	
10595- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.95	67.15	16.70	0.46	130.0	± 9.6 %
		Υ	4.99	66.83	16.48		130.0	
		Z	4.88	66.99	16.53		130.0	
10596- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	Х	4.89	67.15	16.71	0.46	130.0	± 9.6 %
		Y	4.92	66.82	16.48		130.0	
		Z	4.82	66.99	16.53		130.0	
10597- AAA	IEEE 802.11n (HT Mixed, 20MHz. MCS6, 90pc duty cycle)	X	4.84	67.07	16.60	0.46	130.0	± 9.6 %
		Y	4.87	66.74	16.37		130.0	
		_	4.77	66.89	16.42		130.0	
10598- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.82	67.30	16.86	0.46	130.0	± 9.6 %
		Y	4.86	66.99	16.64		130.0	
		Z	4.75	67.12	16.68		130.0	
10599- AAA	IEEE 802,11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.50	67.29	16.81	0.46	130.0	± 9.6 %
		_ Y	5.55	67.07	16.64		130.0	
		Z	5.46	67.18	16.68		130.0	
10600- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.64	67.71	16.99	0.46	130.0	± 9.6 %
		Y	5.72	67.56	16.86		130.0	
		Z	5.57	67.53	16.83		130.0	
10601- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	Х	5.53	67.47	16.89	0.46	130.0	±9.6 %
		Y	5.59	67.26	16.72		130.0	
		Z	5. <del>4</del> 7	67.32	16.74		130.0	
10602- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	×	5.62	67.46	16.80	0.46	130.0	± 9.6 %
		Y	5.67	67.24	16.63		130.0	
		Z	5.56	67.34	16.67		130.0	
10603- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.71	67.80	17.10	0.46	130.0	± 9.6 %
		Y	_5.76	67.57	16.93		130.0	
		Z	5.64	67.64	16.95		130.0	
10604- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.51	67.25	16.81	0.46	130.0	± 9.6 %
		Y	5.55	67.02	16.64		130.0	
		Z	5.46	67.15	16.69		130.0	
10605- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.62	67.57	16.97	0.46	130.0	± 9.6 %
		Y	5.66	67.33	16.79		130.0	
		Z	5.56	67.44	16.83		130.0	
10606- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	Х	5 38	67.00	16.56	0.46	130.0	± 9.6 %
		Y	5.43	66.78	16.39		130.0	
	30	Z.	5.32	66.82	16.39		130.0	

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10607- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	×	4.69	66.11	16.27	0.46	130.0	± 9.6 %
		Υ	4.71	65.74	16.02		130.0	
		Z	4,63	65.95	16.10		130.0	
10608- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.88	66.52	16.43	0.46	130.0	± 9.6 %
	1	Y	4.91	66.16	16.19		130.0	-
		Z	4.81	66.36	16.26		130.0	
10609-	IEEE 802.11ac WiFi (20MHz, MCS2,	X	4.77	66.38	16.28	0.46	130.0	± 9.6 %
AAA	90pc duty cycle)	^     Y				0.40		1 9.0 %
		Z	4.79	66.01	16.03		130.0	
10610-	IEEE 802.11ac WiFi (20MHz, MCS3,	X	4.70 4.82	66.20 66.54	16.10 16.44	0.46	130.0 130.0	± 9.6 %
AAA	90pc duty cycle)							
		Y	4.85	66.17	16.19		130.0	
		2	4.75	66.36	16.26		130.0	
10611- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.74	66.35	16.29	0.46	130.0	± 9.6 %
		Y	4.76	65.99	16.04		130.0	
		Z	4.67	66.16	16.11		130.0	
10612- AAA	IEEE 802,11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.75	66.51	16.34	0.46	130.0	± 9.6 %
		Y	4.77	66.12	16.07		130.0	-
		Z	4.68	66.32	16.15		130.0	
10613-	IEEE 802.11ac WiFi (20MHz, MCS6,	X	4.75	66.40	16.23	0.46	130.0	± 9.6 %
AAA	90pc duty cycle)	Y	4.78	86.04	15.98		130.0	
		Z	4.68	66.20	16.04		130.0	
10614-	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.69	66.58	16.46	0.46	130.0	± 9.6 %
AAA	aobc onto cació)	<del>-                                    </del>	4.70	66.00	16.04		100.0	
		Y -	4.72	66.22	16.21		130.0	
10015	1555 000 44 - 1855 /00 M - 14000	Z	4.62	66.39	16.27	0.40	130.0	1000
106 <b>15-</b> AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.74	66.18	16.07	0.46	130.0	± 9.6 %
		l Y	4.76	65.80	15.81		130.0	
		Z	4.67	66.00	15.89		130.0	
10616- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.33	66.59	16.44	0.46	130.0	± 9.6 %
	1	Y	5,36	66.31	16.25		130.0	
		Z	5.27	66.43	16.29		130.0	
10617- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.40	66.74	16.49	0.46	130.0	±9.6%
, , ,		Y	5.42	66.42	16.27		130.0	
		_Z	5.34	66.59	16.34	_	130.0	
10618- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.28	66.77	16.52	0.46	130.0	± 9.6 %
	(, -,,	Y	5.31	66.47	18.31		130.0	
•		Z	5.22	66.61	16.37		130.0	
10619- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.30	66.58	16.36	0.46	130.0	±9.6 %
	The day of the	Υ	5.34	66.31	16.17		130.0	
_		Z	5.24	66.41	16.21		130.0	
10620- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.40	66.63	16.44	0.46	130.0	<b>±</b> 9.6 %
		Y	5.45	66.39	16.26		130.0	
		Z	5.33	66.46	16.28		130.0	
10621- AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.39	66.73	16.60	0.46	130.0	± 9.6 %
7000	Sopo daty dyoloj	Y	5.43	66.47	16.42		130.0	
		2	5.33	66.59	16.46		130.0	
10622-	1				_	0.46	130.0	± 9.6 %
	IEEE 802.11ac WiFi (40MHz, MCS6,	×	5.40	66.89	16.67	0.46	130.0	± 3.6 %
10622- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.40	66.89	16.47	0.46	130.0	13.0%

10623- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.28	66.43	16.33	0.46	130.0	± 9.6 %
-		Y	5.31	66.15	16.13	_	130.0	
		Z	5.22	66.28	16.17	"	130.0	
10624- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.47	66.62	16.48	0.46	130.0	± 9.6 %
		Y	5.51	66.36	16.30		130.0	
		Z	5.41	66.47	16.33		130.0	
10625- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.85	67.62	17.02	0,46	130.0	± 9.6 %
		Υ	5,91	67.42	16.87		130.0	
		Z	5.76	67.40	16.84		130.0	
10626- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.62	66.63	16.39	0.46	130.0	± 9.6 %
		Υ	5.64	66.37	16.20		130.0	
		Z	5.57	66.49	16.25		130.0	
10627- AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.85	67.17	16.61	0.46	130.0	± 9.6 %
		Y	5.89	66.93_	16.43		130.0	
1000		Z	5.79	67.02	16.47		130.0	
10628- AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.66	66.75	16.34	0.46	130.0	± 9.6 %
		Y	5.69	66.51	16.16		130.0	
		Z	5.60	66.58	16.19		130.0	
10629- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.75	66.84	16.38	0.46	130.0	± 9.6 %
		Y	5.78	66.58	16,19		130.0	
		Z	5.67	66.63	16.21		130.0	
10630- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.17	68.30	17.11	0.46	130.0	± 9.6 %
		Υ	6.28	68.24	17.02		130.0	
		Z	6.07	68,01	16.90		130.0	
10631- AAA	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.08	68.12	17.20	0.46	130.0	± 9.6 %
i i		Y	6.16	68.00	17.09		130.0	
		Z	6.00	67.89	17.02		130.0	_
10632- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.82	67.23	16.78	0.46	130.0	± 9.6 %
		Υ	5.86	66.99	16.60		130.0	
		Z	5.77	67.09	16.64		130.0	
10633- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.72	66.92	16.45	0.46	130.0	± 9.6 %
		Y	5.77	66.70	16.29		130.0	
		Z	5.66	66.75	16.31		130.0	
10634- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.71	66.95	16.53	0.46	130.0	±9.6 %
		Υ	5.75	66.71	16.36		130.0	
		Z	5.65	66.78	16.38	_	130.0	
10635- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.59	66.30	15.94	0.46	130.0	± 9.6 %
		Υ	5.63	66.06	15.76		130.0	
		Z	5.53	66.12	15.78		130.0	
10636- AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.03	67.00	16.47	0.46	130.0	± 9.6 %
		Y	6.05	66.78	16.31		130.0	
10637- AAA	IEEE 1602.11ac WiFi (160MHz, MCS1,	X	5.98 6.18	66.86 67.37	16.33 16.63	0.46	130.0	±9.6 %
	90pc duty cycle)	1	0.01	6= :-	10 :=		1	-
		Y	6.21	67.15	16.47	<u> </u>	130.0	
40000	ADDE 4000 44 - 1185 1400 - 1100	Z	6.13	67.22	16.50	<u> </u>	130.0	
10638- AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.18	67.35	16.60	0.46	130.0	± 9.6 %
		Y	6.21	67.12	16.44		130.0	
	<u> </u>	Z	6.13	67.20	16.47		130.0	

EX3DV4- SN:3989

10639- AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.17	67.32	16.63	0.46	130.0	± 9.6 %
		T Y	6.20	6 <del>7</del> .11	16.48		130.0	
		1 Z	6.11	67.16	16.49		130.0	
10640- AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.18	67.34	16.59	0.46	130.0	± 9.6 %
		Y	6.22	67.15	16.44		130.0	
		Z	6.11	67.17	16.44		130.0	
10641- AAA	IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.21	67.20	16.53	0.46	130.0	± 9.6 %
		Y	6.23	66.96	16.36		130.0	
		Z	6.16	67.07	16.40		130.0	
10642- AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	Х	6.26	67.48	16.84	0.46	130.0	± 9.6 %
		Y	6.30	67.28	16,69		130.0	
		Z	6.20	67.33	16.70		130.0	
10643- AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	Х	6.09	67.16	16.58	0.46	130.0	± 9.6 %
		Y	6.12	66.94	16.42		130.0	
		Z	6,03	67.01_	_16.44		130.0	
10644- AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.27	67.71	16.88	0.46	130.0	± 9.6 %
		Y	6.33	67.56	16.75		130.0	
		Z	6.19	67.50	16.71		130.0	
10645- AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.67	68.48	17.21	0.46	130.0	± 9.6 %
		Υ	6.76	68.39	17,11		130.0	
		Z	6.51	68.03	16.93		130.0	
10646- AAC	LTE-TDD (SC-FDMA, 1 R8, 5 MHz, QPSK, UL Subframe=2,7)	X	24.98	113.16	37.37	9.30	60.0	± 9.6 %
		Y	14.94	99.73	32.94		60.0	
		Z	16.37	104,04	34.56		60.0	
10647- AAB	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	Х	22.16	111.31	36.98	9.30	60.0	± 9.6 %
		Y	13.81	98.67	32,71		60.0	
		Z	14.65	102.32	34.17		60,0	
10648- AAA	CDMA2000 (1x Advanced)	Х	0.87	66.65	13.08	0.00	150.0	± 9.6 %
		Υ	0.76	63.60	11.37		150.0	
		Z	0.73	64.30	11.41		150.0	

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